NEW MEXICO STATE UNIVERSITY BOARD OF REGENTS
REGULAR MEETING
September 15, 2025 at 3:30 PM

Jett Hall, CHME Student Commons, Room 178,
1040 South Horseshoe Drive
and Livestreamed for public viewing at
https://nmsu.zoom.us/j/82240874731

Regents of New Mexico State University
Chair Ammu Devasthali, Vice Chair Deborah Romero, Secretary/Treasurer Christopher T. Saucedo, Marisol Olivas, Ricardo Gonzales

Non-Voting Advisory Members - ASNMSU President Wyatt Ziehe, Faculty Senate Chair Vimal Chaitanya, Ph.D., Employee Council Chair Donna Johnson

University Officials - President Valerio Ferme, Ph.D., Interim Provost Lakshmi Reddi, Ph.D., General Counsel Lisa Henderson, J.D.

AGENDA

A. **Call to Order**, *Chairwoman Ammu Devasthali*

Posting of Colors and Pledge of Allegiance Led by NMSU Army ROTC

1. **Welcome**, *College of Engineering Interim Dean David Jauregui*
2. **Introduction of the Media and Elected Officials,** *Chief of Staff Justin Bannister*
3. **Introductions**
   Introduction of Assistant Vice President for Auxiliary Services Jake Nevarez, *Interim Vice President for Administration and Finance Chris Kinsley*
4. **Confirmation of Quorum,** *Chairwoman Ammu Devasthali*
5. **Approval of the Agenda,** *Chairwoman Ammu Devasthali*

B. **Approval of Minutes**

1. **Special Meeting (Work Session) on July 30, 2025**
2. **Special Meeting (Work Session) on August 5, 2025 (2:00 PM)**
3. **Special Meeting (Work Session) on August 5, 2025 (3:30 PM)**
4. **Regular Meeting on August 18, 2025**

C. **Confirmation of Prior Closed Executive Sessions**

1. **Confirmation of Prior Closed Executive Session September 15, 2025**

D. **Public Comment,** *Associate Vice President Abby Butler*

E. **Regent Committee Reports**

1. **Audit and Risk Committee Report,** *Regent Ricardo Gonzales*
2. **Financial Strategies, Performance and Budget Committee Report,** *Regent Deborah Romero*
3. **Student Success Committee Report,** *Regent Christopher Saucedo*

F. **Consent Items**, *Chairwoman Ammu Devasthali*

1. **Atkinson Recital Hall Lighting Replacement,** *University Architect Berta Zubiate*
2. **Arrowhead Drive Multi-Use Path,** *University Architect Berta Zubiate*
3. **Baseball Field Turf Installation,** *University Architect Berta Zubiate*
4. **DACC Gadsden Campus Entrance Road,** *University Architect Berta Zubiate*
5. **New Domestic Well #11,** *University Architect Berta Zubiate*
6. **New Mexico Reforestation Center (Phase 1),** *University Architect Berta Zubiate*
7. **NMSU Alamogordo Townsend Library Roof Replacement,** *University Architect Berta Zubiate*
8. **Women's Basketball Locker Room,** *University Architect Berta Zubiate*
9. **Women's Volleyball Locker Room,** *University Architect Berta Zubiate*
10. **Proposed Repeal and Replacement of the Egg Inspection Fees Rule, Title 21, Chapter 34, Part 7 of the New Mexico Administrative Code (21.34.7 NMAC),** *Cabinet Secretary & Director Jeff Witte*
11. **Proposed Repeal and Replacement of the Seed Standards Classification Rule, Title 21, Chapter 18, Part 4 of the New Mexico Administrative Code (21.18.4 NMAC),** *Cabinet Secretary & Director Jeff Witte*
12. **Proposed Repeal and Replacement of the Pesticide Rule, Title 21, Chapter 17, Part 50 of the New Mexico Administrative Code (21.17.50 NMAC),** *Cabinet Secretary & Director Jeff Witte*
13. **Long Term Retention Incentive Arrangement Resolution,** *Chairwoman Ammu Devasthali*
14. **Memorandum of Understanding-AFSCME and NMSU,** *University General Counsel Lisa Henderson*
15. **Declining the request for NMSU to donate acreage located in Las Cruces on the east campus to the New Mexico Farm and Ranch Heritage Museum (the Museum),** *University General Counsel Lisa Henderson*

G. **Action Items**

1. **Human Dimensions of Agriculture (Education, Extension, Communication, & Innovation) - Doctor of Philosophy,** *Academic Department Head Richie Roberts*
2. **Applied Artificial Intelligence - Master of Applied Artificial Intelligence (online),** *Dean Enrico Pontelli*
3. **Wildlife and Fisheries Ecology - Doctor of Philosophy,** *Academic Department Head Martha Desmond*
4. **Chemistry Course Fee Requests,** *Operations Manager Lisa Osborne*
5. **Nursing Anesthesiology Program Fee Request,** *Academic Department Head Alexa Doig*
6. **Capital Funding Amendment Request,** *Interim Vice President for Administration and Finance Chris Kinsley*

H. **Informational Items**

   1. None.

I. **Report from the New Mexico Department of Agriculture to the Regents of New Mexico State University (Board of Agriculture),** *Deputy Director Les Owen*

J. **NMSU Academic Report,** *Interim Provost Lakshmi Reddi*

K. **NMSU System Report,** *President Valerio Ferme*

L. **Announcements and Comments**, *Chairwoman Ammu Devasthali*

   1. Good News for NMSU!

M. **Adjournment**, *Chairwoman Ammu Devasthali*

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # B-1

☒ Action Item
☐ Consent Item
☐ Informational Item

Presented By: Christopher Saucedo
Secretary/Treasurer,
NMSU Board of Regents

Agenda Item: Special Meeting **(**Work Session) on July 30, 2025

Requested Action of the Board of Regents: Approval of the Special Meeting (Work Session) Minutes for July 30, 2025 as presented.

Executive Summary:

As required by the New Mexico Open Meetings Act, the board shall keep written minutes of all its meetings. The minutes shall include at a minimum the date, time and place of the meeting, the names of members in attendance and those absent, the substance of the proposals considered and a record of any decisions and votes taken that show how each member voted. All minutes are open to public inspection. Draft minutes shall be prepared within ten working days after the meeting and shall be approved, amended or disapproved at the next meeting where a quorum is present. Minutes shall not become official until approved by the board.

References:

NM Open Meetings Act §10-15-1 G.

Prior Approvals:
N/A

NEW MEXICO STATE UNIVERSITY BOARD OF REGENTS
SPECIAL MEETING (WORK SESSION) AGENDA
Wednesday, July 30, 2025 11:00 AM

Regents of New Mexico State University
Chair Ammu Devasthali, Vice Chair Deborah Romero, Secretary/Treasurer Christopher T. Saucedo, Marisol Olivas, Ricardo Gonzales

MINUTES

A. **Call to Order**, Vice *Chairwoman Deborah Romero*

Vice Chairwoman Deborah Romero called the meeting to order at 11:00 AM. She expressed the Board of Regents' appreciation for the team's hard work and passion regarding the enrollment management system and for the students of NMSU.

Attendees included all members of the Board of Regents: Chair Ammu Devasthali, Vice Chair Deborah Romero, Secretary/Treasurer Christopher T. Saucedo, Marisol Olivas, and Ricardo Gonzales

Presenters/Staff in attendance included: Valerio Ferme, Lakshmi Reddi, Sherry Kollmann, Mónica Torres, Ranjit Koodali, Jon Boren, Tony Marin, Kelly Brooks, and Adam Cavotta.

B. **Informational Items**

1. Enrollment Management, *Tony Marin, Sherry Kollmann, Mónica Torres*

President Ferme provided an overview of the current enrollment data.

Enrollment Statistics

- **System-Wide Enrollment:** As of July 30, 2025, NMSU's system-wide student headcount exceeded 20,000, which is an increase compared to the previous year. This represents a 6% increase in enrollment and a 5.5% increase in student credit hours compared to the same date last year.
- **Undergraduate and Graduate Enrollment:** The university is seeing progress in both undergraduate and graduate student enrollment.

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- **Las Cruces Main Campus:** The main campus enrollment is slightly ahead of last year. However, there has been a decrease in physical on-campus graduate student enrollment, potentially due to federal policies regarding student visas and a halt in visa interviews during the peak months of May and June. An estimated 13 students from countries such as Iran, Eritrea, and Yemen were admitted but could not pursue their studies due to visa restrictions.
- **NMSU Global Campus:** NMSU Global is a significant contributor to the university's overall enrollment gains. Its Fall 2025 enrollment to date has already surpassed the numbers from the previous year's census date.
- **Community Colleges:** All community colleges within the NMSU system are experiencing anticipated growth this year.
    - **Doña Ana Community College (DACC):** Enrollment is projected to increase by around 5%.
    - **Grants and Alamogordo:** These campuses are projecting even higher enrollment increases, with Alamogordo expecting a 6% to 7% increase.

Enrollment Strategies and Successes

- **Marketing and Recruitment:** The university is using a variety of strategies to engage with prospective students, including digital campaigns, social media, phone calls, texting, and email. A combined marketing effort has driven 3,162 enrollments for Fall 2025.
- **Enhanced Communication:** The university has fully incorporated all academic colleges and department heads into its communication strategy to reach prospective students at different stages of the enrollment process.
- **Pre-College Populations:** The university is expanding its recruitment efforts to include students from 9th grade through 12th grade. They are working with partners like the Cooperative Extension Service to reach homeschooled students and those in rural communities.
- **Graduate School Initiatives:** The Graduate School has increased its email campaigns from two to four tiers, and is now including video testimonials from current students and faculty. They are also hosting a Master's Accelerated Program (MAP) showcase to promote the program, which allows undergraduate students to take graduate-level courses that count toward both degrees.
- **Community College Initiatives:** The community colleges are focusing on recruitment through adult education and non-credit workforce training programs. They also emphasize wraparound services and "First 40 Days"

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programming to improve retention.

- **Strategic Partnerships:** The university is partnering with organizations such as Electronic Caregivers and New York Life to become their educational provider of choice, which eliminates the need for a third-party intermediary and helps attract new students.
- **Admission Requirements:** The university's applicant rate is at its highest in five years, at 96.1%. NMSU has a 2.75 GPA admission requirement, which is the highest among four-year schools in New Mexico.
- **Technology and Data:** NMSU is using a new call center to expedite outreach to prospective students, a chatbot called "Abby," and a text messaging system to engage with and retain students. The university is also committed to using data transparently to track recruitment and retention efforts.

Challenges and Solutions

- **Staffing:** Staff turnover and onboarding timelines for admissions advisors pose a challenge.
- **Course Capacity:** There are challenges with course capacity, which is being addressed through collaboration with community college partners to provide more class options.
- **Graduate Student Support:** There are challenges with the graduate assistantship package, specifically the lack of full tuition coverage and health insurance for graduate assistants.
- **International Student Enrollment:** Federal policies and the halt in student visa interviews have led to a significant drop in international student enrollment for the main campus. NMSU is working to mitigate this by offering these students the option to enroll in NMSU Global programs.

Questions and Discussion

Following the presentation, Board members and other attendees posed questions. Key points included:

- **Enrollment Yield:** Regent Saucedo asked about the gap between admitted students and those who enroll. Provost Lakshmi Reddi stated that the national average for Land Grant institutions is about 40%. President Ferme noted that NMSU over-admits to account for this and that the university is working to improve its stewardship of admitted students.
- **Curriculum for Rural Areas:** Regent Devasthali asked how the university ensures that its curriculum translates to jobs in rural areas, particularly for 4-H students. The Cooperative Extension Service, in collaboration with enrollment management, is increasing its presence at youth events to connect students with

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academic advisors and expose them to various degree programs beyond agriculture.

- **Home-Schooled Population:** The university is exploring ways to partner with the Cooperative Extension Service and other organizations to reach the home-schooled student population.
- **AI Use in Enrollment:** Regent Gonzales asked if NMSU is using AI as a decision-maker for enrollment. The President and other staff clarified that AI is not used for decision-making but is being explored as an additional tool for communication and outreach.

Faculty Engagement: The Provost addressed a question about opening up more course sections by stating that while funding has been provided to hire new faculty, some departments face a lack of qualified individuals to teach specific courses.

C. **Adjournment,** *Vice Chairwoman Deborah Romero*

Vice Chairwoman Deborah Romero thanked everyone for their hard work and leadership. She noted the positive impact of the recent tours and the opportunities they have created. The meeting was then adjourned at 12:35 PM.

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Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # B-2

☒ Action Item
☐ Consent Item
☐ Informational Item

Presented By: Christopher Saucedo
Secretary/Treasurer,
NMSU Board of Regents

Agenda Item: Special Meeting **(**Work Session) on August 5, 2025 (2:00 PM)

Requested Action of the Board of Regents: Approval of the Special Meeting (Work Session) Minutes for August 5, 2025 at 2:00 PM as presented.

Executive Summary:

As required by the New Mexico Open Meetings Act, the board shall keep written minutes of all its meetings. The minutes shall include at a minimum the date, time and place of the meeting, the names of members in attendance and those absent, the substance of the proposals considered and a record of any decisions and votes taken that show how each member voted. All minutes are open to public inspection. Draft minutes shall be prepared within ten working days after the meeting and shall be approved, amended or disapproved at the next meeting where a quorum is present. Minutes shall not become official until approved by the board.

References:

NM Open Meetings Act §10-15-1 G.

Prior Approvals:
N/A

NEW MEXICO STATE UNIVERSITY BOARD OF REGENTS
SPECIAL (WORK SESSION) MEETING NOTICE AND AGENDA

August 5, 2025 2:00 PM

Hadley Hall, Room 130, Las Cruces Campus

2850 Weddell Street, Las Cruces, New Mexico

MINUTES

A. **Call to Order,** *Chairwoman Ammu Devasthali*

The meeting was called to order by Chairwoman Ammu Devasthali at 2:00 PM.

Attendees included all members of the Board of Regents: Chair Ammu Devasthali, Vice Chair Deborah Romero, Secretary/Treasurer Christopher T. Saucedo, Marisol Olivas, and Ricardo Gonzales

Presenters/Staff in attendance included: Valerio Ferme, Lisa Henderson, and Adam Cavotta

B. **Items for Discussion**, *Chairwoman Ammu Devasthali*

1. Legal Compliance and Fiduciary Duties, *University General Counsel Lisa Henderson*

- University General Counsel Lisa Henderson led a presentation and discussion on the legal compliance and fiduciary duties of the Board of Regents. The key points discussed were:
  - Fiduciary Duty: Regents have the same fiduciary duties as board members of a non-profit organization. This includes a special duty to protect the university's public assets, such as students, financial resources, buildings, and reputation.
  - Duties Owed by a Fiduciary: The discussion covered the four main duties:
    - Duty of Loyalty: Regents must act solely in the best interests of the university, avoid conflicts of interest, and recuse themselves from relevant discussions and votes.
    - Duty of Care: Regents are expected to act in good faith and with appropriate diligence, which includes regularly attending meetings, reading materials in advance, and actively participating.
    - Duty of Obedience: Regents must understand the university's mission and be aware of the laws that govern it.
    - Duty to Act in Good Faith: This requires making careful, good-faith decisions that are in the best interest of the university.
- Regents' Shared Responsibility: The presentation emphasized that authority resides with the Board as a whole and that no single regent can bind the university. It also highlighted the importance of respecting the president and understanding academic freedom and shared governance.

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- Sources of Legal Responsibilities: Ms. Henderson detailed the various sources of legal obligations for the university:
    - State Laws: Including the Open Meetings Act, Inspection of Public Records Act, and Conflicts of Interest law.
    - U.S. Constitutional Obligations: Highlighting due process and First Amendment protections such as free speech and equal protection.
    - Legal Responsibilities from Federal Funding: A list of key federal acts was presented, including Title IX, Title VII, the Americans with Disabilities Act, the Clery Act, FERPA, and the Federal False Claims Act.

C. **Adjournment**, *Chairwoman Ammu Devasthali*

The work session was adjourned by Chairwoman Devasthali at 3:15 PM. As noted in the agenda, no votes or official actions were taken during this session.

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Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # B-3

☒ Action Item
☐ Consent Item
☐ Informational Item

Presented By: Christopher Saucedo
Secretary/Treasurer,
NMSU Board of Regents

Agenda Item: Special Meeting **(**Work Session) on August 5, 2025 (3:30 PM)

Requested Action of the Board of Regents: Approval of the Special Meeting (Work Session) Minutes for August 5, 2025 at 3:30 PM as presented.

Executive Summary:

As required by the New Mexico Open Meetings Act, the board shall keep written minutes of all its meetings. The minutes shall include at a minimum the date, time and place of the meeting, the names of members in attendance and those absent, the substance of the proposals considered and a record of any decisions and votes taken that show how each member voted. All minutes are open to public inspection. Draft minutes shall be prepared within ten working days after the meeting and shall be approved, amended or disapproved at the next meeting where a quorum is present. Minutes shall not become official until approved by the board.

References:

NM Open Meetings Act §10-15-1 G.

Prior Approvals:
N/A

NEW MEXICO STATE UNIVERSITY BOARD OF REGENTS
SPECIAL (WORK SESSION) MEETING NOTICE AND AGENDA

August 5, 2025 3:30 PM

Hadley Hall, Room 130, Las Cruces Campus

2850 Weddell Street, Las Cruces, New Mexico

MINUTES

A. **Call to Order,** *Chairwoman Ammu Devasthali*

The meeting was called to order by Chairwoman Ammu Devasthali at 3:30 PM.

Attendees included all members of the Board of Regents: Chair Ammu Devasthali, Vice Chair Deborah Romero, Secretary/Treasurer Christopher T. Saucedo, Marisol Olivas, and Ricardo Gonzales

Presenters/Staff in attendance included: Valerio Ferme, Chris Kinsley, Lakshmi Reddi, Mónica Torres, Sherry Kollmann, Patricia Sullivan, Justin Bannister, and Adam Cavotta

B. **Items for Discussion**, *Chairwoman Ammu Devasthali*

1. Strategic Planning, *President Valerio Ferme*

President Ferme began the presentation and distributed two documents to the Board of Regents, including a list of opportunities and challenges developed at an administrative retreat earlier in the summer and a Flywheel diagram depicting the approach to integrate the opportunities and challenges into a strategic planning process.

The key discussion points included:

- **Systemic Collaboration:** The group acknowledged that fostering partnerships across the university system and with community colleges is a significant, long-term undertaking. However, progress has been made, with a collective effort leading to the enrollment gains.
- **Legislative Advocacy:** The team recognizes the importance of a more structured approach to legislative advocacy. A key priority is to prepare a unified and disciplined message, leveraging the specific relationships and expertise of individual regents and team members. This requires pre-discussion to align priorities with the right people, moving beyond casual, relational interactions.
- **Developing a Strategic Plan:** The group discussed the need for a new, "21st-century" strategic plan that is outcomes-focused, realistic, and adaptable.
  - **Stakeholder Engagement:** A preliminary list of stakeholders and "shareholders" was developed, with the goal of conducting listening sessions to gather input for the strategic plan. Suggestions for new groups to include were the agricultural community, military, and alumni/donors (with a need to be cautious about the latter, as they require careful coaching).
  - **Internal vs. External Facilitation:** There was a debate about whether to use an external consultant to facilitate the strategic planning process. While some argued an outsider could offer a fresh perspective and compressed timeline, others believed the university overuses consultants and that this work should be led internally to foster growth and authenticity among staff.

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- **Realistic Goals:** The group stressed the importance of setting clear, realistic KPIs and a development plan rather than a rigid five-year plan. The plan should be a "range" of goals, allowing for flexibility. It was proposed that specific goals could be defined by the end of the calendar year, with KPIs to follow.
- **Culture and Modernization:** A central theme of the discussion was the need for a cultural shift at the university.
- **Investment and Value:** Investing in the institution's infrastructure, such as renovating labs, is crucial not only for modernization but also for showing faculty and students they are valued.
- **Communication:** The importance of face-to-face, organic communication was emphasized to combat the reliance on emails and texts, which can lead to misinterpretation and a breakdown in relationships. The group wants to get people to interact more, which in turn helps break down the "silo" mentality.
- **Hard Conversations:** The team needs to get better at having difficult conversations and holding each other accountable to a shared vision, even when there is disagreement.

Additional Points were also discussed:

- **Academic Affairs:** The importance of faculty presence on campus was raised. While acknowledging the shift toward online and hybrid courses, concerns were voiced about the impact on student success and retention when faculty are not physically available. It was agreed that this is a complex issue requiring a balance between student needs and faculty flexibility, and that data on faculty telework and classroom occupancy will be gathered.
- **Financial Health:** A significant point was made about the university's financial health, with the recognition that new revenue streams must be explored to avoid a crippling dependence on state funding.
- **Accreditation:** The upcoming HLC accreditation visit in 2027 was mentioned. The strategic plan should align with the requirements of this visit, reframing the process as an "opportunity" rather than a challenge.
- **Athletics and Foundation:** These were identified as "culture makers" that are integral to the university's perception and should be included in future strategic conversations, noting that there is a need to improve the working relationship between the two.

C. **Adjournment**, *Chairwoman Ammu Devasthali*

The work session was adjourned by Chairwoman Devasthali at 5:00 PM. As noted in the agenda, no votes or official actions were taken during this session.

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Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # B-4

☒ Action Item
☐ Consent Item
☐ Informational Item

Presented By: Christopher Saucedo
Secretary/Treasurer,
NMSU Board of Regents

Agenda Item: Regular Meeting on August 18, 2025

Requested Action of the Board of Regents: Approval of the Regular Meeting Minutes for August 18, 2025 as presented.

Executive Summary:

As required by the New Mexico Open Meetings Act, the board shall keep written minutes of all its meetings. The minutes shall include at a minimum the date, time and place of the meeting, the names of members in attendance and those absent, the substance of the proposals considered and a record of any decisions and votes taken that show how each member voted. All minutes are open to public inspection. Draft minutes shall be prepared within ten working days after the meeting and shall be approved, amended or disapproved at the next meeting where a quorum is present. Minutes shall not become official until approved by the board.

References:

NM Open Meetings Act §10-15-1 G.

Prior Approvals:
N/A

NEW MEXICO STATE UNIVERSITY BOARD OF REGENTS
REGULAR MEETING
August 18, 2025 at 1:30 PM

ASNMSU Center for the Arts, 2nd Floor Rehearsal Hall and
Livestreamed for public viewing at
https://regents.nmsu.edu/regent-meetings/

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Regents of New Mexico State University
Chair Ammu Devasthali, Vice Chair Deborah Romero, Secretary/Treasurer Christopher T. Saucedo, Marisol Olivas, Ricardo Gonzales

Non-Voting Advisory Members - ASNMSU President Wyatt Ziehe, Faculty Senate Chair Vimal Chaitanya, Ph.D., Employee Council Chair Donna Johnson

University Officials - President Valerio Ferme, Ph.D., Interim Provost Lakshmi Reddi, Ph.D., General Counsel Lisa Henderson, J.D.

MINUTES

A. **Call to Order**, *Chairwoman Ammu Devasthali*

The meeting was called to order at 1:31 PM by Chairwoman Ammu Devasthali.

Pledge of Allegiance and Introduction of 4-H State Leadership and Department Head Jaime Castillo

The meeting began with the Pledge of Allegiance, the New Mexico Pledge, and the 4-H Pledge led by Dr. Jaime Castillo and the 4-H leadership. Dr. Boren introduced Dr. Castillo, highlighting his return to NMSU after a 20-year career with the U.S. Border Patrol and noting the positive impact of the 4-H program on youth. Dr. Castillo then introduced the 4-H leadership, Ms. Lacey Knight, Mr. Chamberlain, and Ms. Nadya Neparko, as examples of the program's success.

1. **Welcome**, *College of Arts & Sciences Dean Enrico Pontelli*

   Dean Enrico Pontelli of the College of Arts & Sciences welcomed the board and introduced six new faculty members: Julia Soares (Psychology), Yashoda Latkar (Art), Efren Lopez Morales (Cybersecurity), Thea De Armond (History), David Ruth (Physics), and Mason Linscott (Biology).

2. **Introduction of the Media and Elected Officials,** *Chief of Staff Justin Bannister*

   Chief of Staff Justin Bannister reported that no members of the media or elected officials were present.

3. **Introductions**

   a) **Introduction of Dean of the College of Health, Education and Social Transformation Rick Marlatt,** *Interim Provost Lakshmi Reddi*

   Interim Provost Lakshmi Reddi introduced Dr. Rick Marlatt, who has been with NMSU for nine years and previously served as Director of the School of Education and Associate Dean for the Graduate School.

b) **Introduction of Associate Vice President of Marketing and Communications Abby Butler,** *Chief of Staff Justin Bannister*

Chief of Staff Justin Bannister introduced Abby Butler, who joins NMSU from the University of California, Santa Cruz.

c) **Introduction of Associate Vice President of Human Resources Bill Dial,** *Interim Vice President for Administration and Finance Chris Kinsley*

Interim Vice President for Administration and Finance Chris Kinsley introduced Dr. Bill Dial, formerly the VP for HR at the College of DuPage.

d) **Introduction of Associate General Counsel Isaiah Herrera,** *General Counsel Lisa Henderson*

e) **Introduction of University Policy Officer Donna Ottaviano,** *General Counsel Lisa Henderson*

General Counsel Lisa Henderson introduced Isaiah Herrera, the new Associate General Counsel, and Donna Ottaviano, the new University Policy Officer.

4. **Confirmation of Quorum**, *Chairwoman Ammu Devasthali*

A quorum was confirmed with Regents Ricardo Gonzales, Marisol Olivas, Christopher Saucedo, Deborah Romero, and Ammu Devasthali present. Advisory members and university officials were also present.

5. **Approval of the Agenda**, *Chairwoman Ammu Devasthali*

The agenda was approved as presented by a unanimous motion.

B. **Approval of Minutes**

1. **Regular Meeting on May 8, 2025**
2. **Work Session on May 9, 2025**
3. **Special Meeting on June 6, 2025**

The minutes for the regular meeting on May 8, 2025, the work session on May 9, 2025, and the special meeting on June 6, 2025, were all approved as presented by a unanimous vote.

C. **Confirmation of Prior Closed Executive Sessions**

1. **Confirmation of Prior Closed Executive Session August 4, 2025 (1:30 PM)**
2. **Confirmation of Prior Closed Executive Session August 4, 2025 (3:30 PM)**
3. **Confirmation of Prior Closed Executive Session August 6, 2025**
4. **Confirmation of Prior Closed Executive Session August 18, 2025**

The board confirmed by roll call vote that only permitted topics were discussed during the closed sessions on August 4, 2025 (1:30 PM and 3:30 PM), August 6, 2025, and August 18, 2025.

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D. **Public Comment,** *Chief of Staff Justin Bannister*

Chief of Staff Justin Bannister stated that no one had signed up to provide public comment.

E. **Regent Committee Reports**

1. **Real Estate Committee Report,** *Regent Ammu Devasthali*

Regent Ammu Devasthali reported that the committee met on June 12 and held an email vote in August to approve several items on the consent agenda, including a Memorandum of Understanding for the DA Move Trail and lease agreements with White Sands Federal Credit Union and the United States Postal Service.

2. **Financial Strategies, Performance and Budget Committee Report,** *Regent Deborah Romero*

Regent Deborah Romero reported that the committee met on August 12 and approved several action items on the consent agenda, including property disposition, various capital projects, and DACC local bond authorization. The quarterly financial report was also approved.

F. **Advisory Member Reports**

1. **Associated Students of NMSU Report,** *President Wyatt Ziehe*

President Wyatt Ziehe reported that all 29 executive positions had been filled and that the new ACES windmill, funded by the ASNMSU Cardinal Account, was completed16. He also mentioned that KRUX 91.5 FM, a student-run radio station, invited regents to tour the station. He concluded by noting the success of the most recent first-year walk, with over 1,000 students participating.

2. **NMSU Faculty Senate Report,** *Chair Vimal Chaitanya*

Chair Vimal Chaitanya provided a brief report stating that no official business was conducted over the summer, as most faculty are on a nine-month contract. He noted that the new academic year will begin with 12 new senators and that the top priority remains seeking true shared governance.

3. **NMSU Employee Council Report,** *Chair Donna Johnson*

Chair Donna Johnson reported that the council did not meet in June and July. She announced that the annual Employee Appreciation Picnic is scheduled for Halloween, October 31, 2025, and that nominations for the 'A' Mountain Staff Award will be announced soon.

G. **Affiliated Entity Reports**

1. **NMSU Foundation Inc. Report,** *CEO Sylvia Y. Acosta*

CEO Sylvia Y. Acosta reported that the foundation raised $23.457 million last year and is on track to exceed its goal this year, with $2.7 million raised to date. She discussed hiring for key positions, a new strategy for regional philanthropic giving officers, and the success of the annual giving program, which has grown to raise over $550,000 across two events. She also mentioned an upcoming crowdfunding campaign for the alumni pond.

2. **Arrowhead Center Inc. Report,** *Interim CEO and President of Arrowhead Center Inc. Dana Catron*

Interim CEO and President Dana Catron reported on progress in leadership, finances, and governance. The

soundstage project, with $15 million in state support, is set to break ground in September, and a 30,000-square-foot technology development facility is being explored. She highlighted the successful licensing of drought-resilient alfalfa cultivars to Mountain View Seeds.

3. **Aggie Development Inc. Report,** *CEO Scott Eschenbrenner*

   CEO Scott Eschenbrenner announced that Jake Redfern joined the board and that a proposed ground lease with White Sands Federal Credit Union was approved. He also shared a conceptual site plan for Aggie Uptown, which includes space for a large retail or medical office tenant. He concluded by noting a letter of intent had been received for a second hotel, an extended-stay Marriott.

H. **Consent Items**, *Chairwoman Ammu Devasthali*

Regent Romero moved approval of the Consent Items as presented, with a second from Regent Saucedo. Regent Gonzales abstained from voting on items H4 and H5, El Paso Electric Easement – Magdalena Peak and El Paso Electric Easement – Arrowhead Park, respectively. The motion passed unanimously.

1. **Memorandum of Understanding for the DA Move Trail – Las Cruces Lateral next to the Convention Center,** *Special Assistant to the President Scott Eschenbrenner*
2. **Ground Lease Agreement – White Sands Federal Credit Union,** *ADI President Scott Eschenbrenner*
3. **Lease Agreement – United States Postal Service (USPS) at Corbett Center,** *Special Assistant to the President Scott Eschenbrenner*
4. **El Paso Electric Easement – Magdalena Peak,** *Special Assistant to the President Scott Eschenbrenner*
5. **El Paso Electric Easement – Arrowhead Park,** *Special Assistant to the President Scott Eschenbrenner*
6. **Appointment of Non-Position Directors to the Arrowhead Center, Inc. Board of Directors,** *Interim CEO and President Dana Catron*
7. **Arrowhead Center, Inc. Change to Corporate Bylaws***, Interim CEO and President Dana Catron*
8. **Disposition/Deletion of Property,** *Associate Vice President for Administration and Finance, D'Anne Stuart*
9. **Golf Course Learning Center and Driving Range,** *University Architect Berta Zubiate*
10. **Biomedical Research Expansion,** *University Architect Berta Zubiate*
11. **Campus Wide Drainage Repairs,** *University Architect Berta Zubiate*
12. **Campus Wide Lighting Improvements,** *University Architect Berta Zubiate*
13. **Chemistry Building HVAC Renovations,** *University Architect Berta Zubiate*
14. **Zuhl Library 3rd Floor Flooring Replacement,** *University Architect Berta Zubiate*
15. **Jett Hall Structural Repairs,** *University Architect Berta Zubiate*
16. **Aggie Health & Wellness Flood Remediation,** *University Architect Berta Zubiate*
17. **Cole Village Demolition,** *University Architect Berta Zubiate*

DRAFT

18. **Softball Field Scoreboard Improvements,** *University Architect Berta Zubiate*

19. **Appointment of NMSU Representatives to the NMC Board of Directors,** *Chief of Staff Justin Bannister*

I. **Action Items**

1. **NMSU – Doña Ana Community College District Obligation (Limited Tax) Bonds, Series 2025,** *Chancellor of NMSU System Community Colleges Mónica Torres*

   Bond advisor Erik Harrigan and Bond Counsel Katherine E. McKinney presented a request to approve the issuance of $6 million in voter-approved general obligation bonds to be used primarily for an expansion at the Sunland Park campus. Following a discussion and motion to approve the request by Regent Gonzales, with a second by Regent Romero, the bonds were approved by a unanimous vote.

2. **FY 27 RPSP Requests and Other FY 27 Funding Requests,** *Interim Vice President for Administration and Finance Chris Kinsley*

   Interim Vice President Chris Kinsley presented a request for $11.4 million in additional Research and Public Service (RPSP) funding, including $2.3 million for agriculture entities and almost $9 million for non-instructional and general activities. Regent Romero noted a discrepancy in the summary slide, which Mr. Kinsley acknowledged. Regent Romero moved approval of the RPSP and Other FY 27 Funding Requests, with a second by Regent Saucedo. The proposal was approved by a unanimous vote.

3. **Mandatory Student Fees Restructure Proposal,** *Interim Vice President for Administration and Finance Chris Kinsley*

   Interim Vice President Chris Kinsley and Dr. Amber Burge presented a proposal to separate student technology and athletics fees from the mandatory student fee. The change is revenue-neutral and aims to provide transparency and a reliable funding source for these key areas. Following a motion by Regent Romero to approve the proposal and a second by Regent Olivas, the proposal was approved by a unanimous vote.

J. **Informational Items**

1. **None.**

K. **Report from the New Mexico Department of Agriculture to the Regents of New Mexico State University (Board of Agriculture) – *Deferred until the next Regular Meeting*,** *Cabinet Secretary & Director Jeff Witte*

L. **NMSU Academic Report,** *Interim Provost Lakshmi Reddi*
Interim Provost Lakshmi Reddi provided a report on academic program assessment, including a new process for annual reviews and a document outlining criteria for program sustainability. He stated that the goal is to be more data-informed and that a new group of "data trustees" will ensure data consistency.

M. **NMSU System Report,** *President Valerio Ferme*
President Valerio Ferme reported on the completion of the 33-county extension tour. He also announced a new initiative to look at the reallocation of permanent and recurring funds to address a structural deficit and reinvest in areas of excellence. He praised the success of the recent convocation and the launch of the 1888 Leadership Initiative.

DRAFT

N. **Announcements and Comments**, *Chairwoman Ammu Devasthali*

1. Good News for NMSU!

ASNMSU President Wyatt Ziehe announced that the Homecoming Parade would be on November 8 at 8 AM and that the theme would be released at an evening event.

O. **Adjournment**, *Chairwoman Ammu Devasthali*

A motion to adjourn was made by Regent Gonzalez and seconded by Regent Olivas. The meeting was adjourned by Chairwoman Ammu Devasthali at 3:37 PM.

DRAFT

NEW MEXICO STATE UNIVERSITY BOARD OF REGENTS
REGULAR MEETING
September 15, 2025

Item C-1

Confirmation of Prior Executive Session – September 15, 2025

The New Mexico State University Board of Regents held a closed meeting on Monday, September 15, 2025, at 1:30 PM.

The meeting was called to conduct the performance assessment of the President under his contract, as permitted under the personnel matters exemption of the New Mexico Open Meetings Act, NMSA Section 10-15-1, subsection (H)(2).

Those board members who were present, please certify that only matters of that nature were discussed.

Regent Gonzales ___
Regent Olivas ___
Regent Saucedo ___
Regent Romero ___
Regent Devasthali ___

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # F-1

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By: Berta Zubiate
University Architect

Agenda Item:

Atkinson Recital Hall Lighting Replacement

Requested Action of the Board of Regents:

Approval of Atkinson Recital Hall Lighting Replacement

Executive Summary:

Design and removal and replacement of existing lighting in Atkinson Recital Hall. To include lighting systems, associated power and control systems.

References:

N/A

Prior Approvals:

Regents Financial Strategies, Performance and Budget Committee 09/09/2025

Board of Regents

ATKINSON RECITAL HALL LIGHTING
SEPTEMBER 15TH 2025

Berta Zubiate
University Architect

Jose Loera
Executive Director of PD&E

FACILITIES AND SERVICES

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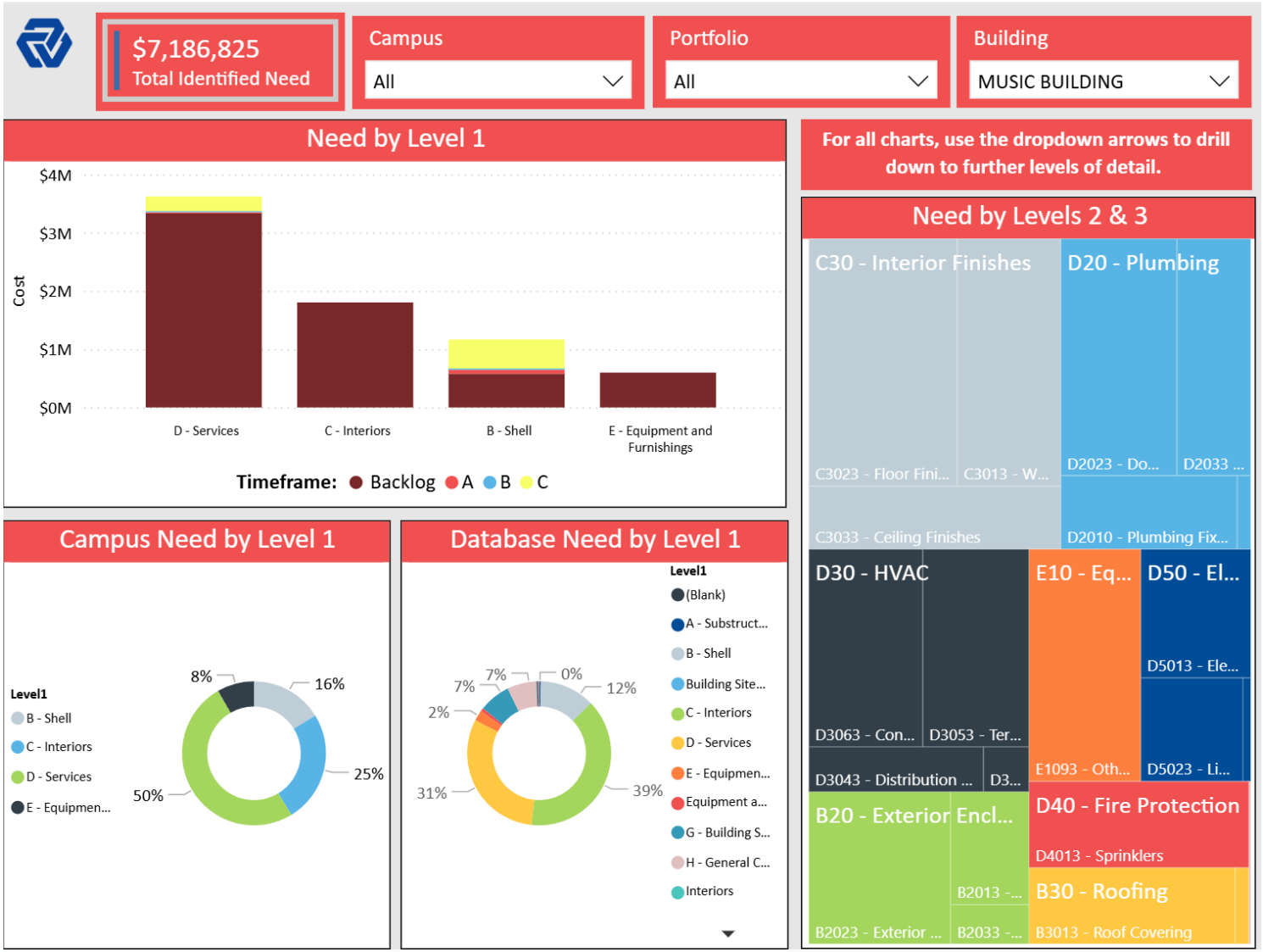
Facility Information

Current Use	**Instruction, Performance, and Administration**
Year Built	**1983**
Last Expansion	**N/A**
Building Size	**46,920 SF**
Construction Type	**Frame and Concrete**



Music Building

Facility Condition Index



Project Rationale

- Enhance operational functionality, safety, and technical capacity, supporting campus performance programming and academic use.

Scope of Work

- Demolition and removal of existing lighting fixtures, dimming panels, and obsolete electrical components
- Installation of new house lighting and stage lighting systems, including LED or equivalent energy-efficient fixtures.
- Replacement and routing of electrical conduit and cabling to support new loads
- Modification of electrical panels, breakers, and circuitry as required
- Installation of emergency lighting and code-compliant egress illumination.

Proposed Project Schedule

Start of Design	September 2025
Completion of Design	November 2025
Start of Construction	December 2025
Completion of Construction	May 2026

Approvals

Regents Financial Strategies, Performance and Budget Committee	September 9, 2025
Board of Regents	September 15, 2025
Higher Education Department	October 8, 2025
State Board of Finance	N/A

Funding Source
Project Budget: $544,500.00

- FY24 State General Fund HB450 (J3338) - $544,500.00

  Five hundred fifty thousand dollars ($550,000) to plan, design, construct, furnish and equip improvements to Atkinson recital hall, including lighting systems and associated power and control systems, at New Mexico State University in Las Cruces in Dona Ana county;

Budget Breakdown

	Funding Total	Percentages
Category		
Maximum Allowance Construction Cost (MACC)	$426,195	78%
Construction Contingency	$21,300	4%
Other Costs		
Design Fees	$48,000	9%
Project Administration Fees	$49,005	9%
Total	**$544,500**	**100%**

Supplemental Information

Atkinson Recital Hall Lighting

Existing Conditions



Atkinson Recital Hall

NEW MEXICO HIGHER EDUCATION DEPARTMENT

FORM 6: CERTIFICATION BY GOVERNING BOARD

Institution:	New Mexico State University	**Original:**	X	**Date:**	11/12/2025
Project title:	Atkinson Recital Hall Lighting	**Revision:**		**Date:**	

ORIGINAL CERTIFICATION

I hereby certify, on the basis of the information contained in Forms 1 through 5 of this capital project submittal and all attached supporting documentation, if appropriate, that the Governing Board approved the original submission of this project at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

REVISED SUBMISSION CERTIFICATION

I hereby certify that the Governing Board approved this Revised Submission at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

Contact

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Jose Loera
Executive Director of Projects Development & Engineering

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Thank you!

Questions?

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # F-2

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By: Berta Zubiate
University Architect

Agenda Item:

Arrowhead Drive Multi-Use Path

Requested Action of the Board of Regents:

Approval of the Multi-Use Path project alongside Arrowhead Drive

Executive Summary:

Design and construct a new asphalt multi-use path that will replace the sidewalk that runs along the east side of Arrowhead Drive from Wells Street to Sam Steele

References:

N/A

Prior Approvals:

Regents Financial Strategies, Performance and Budget Committee 09/09/2025

Board of Regents

ARROWHEAD PARK MULTI USE PATH
SEPTEMBER 15TH 2025

Berta Zubiate
University Architect

Jose Loera
Executive Director of PD&E

FACILITIES AND SERVICES

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Facility Information

Current Use	Roadway
Year Built	2010
Last Expansion	2024
Building Size	N/A
Construction Type	N/A



Arrowhead Drive

Facility Condition Index

- Not Applicable

Project Rationale

- Improvement aligns with the Arrowhead Park master plan
- Continuation of trails that ties to campus and larger community trail system
- Ability to encourage greater pedestrian use and future development

Scope of Work

- Multi-use trail construction along Arrowhead Drive from Wells Street to Sam Steele
- New ADA ramps, concrete sidewalk and asphalt path paving
- Application of temporary traffic control
- Placement of new permanent signing and striping

Proposed Project Schedule

Start of Design	January 2025
Completion of Design	August 2025
Start of Construction	November 2025
Completion of Construction	June 2026

Approvals

Regents Financial Strategies, Performance and Budget Committee	September 9, 2025
Board of Regents	September 15, 2025
Higher Education Department	October 8, 2025
State Board of Finance	November 18, 2025

Funding Source ($1,517,266)

- NMDOT Funding LC000490- $1,267,026

- Arrowhead Center Inc. Match Funding- $250,200

Budget Breakdown

	Funding Total	Percentages
Category		
Maximum Allowance Construction Cost (MACC)	$1,110,000	73%
Construction Contingency	$23,700	1.7%
Other Costs		
Design Fees	$292,533	19.3%
Project Administration Fees	$91,033	6%
Total	**$1,517,266**	**100%**

Supplemental Information

Arrowhead Park Multi-Use Path

Existing Conditions



Arrowhead Drive

NEW MEXICO HIGHER EDUCATION DEPARTMENT

FORM 6: CERTIFICATION BY GOVERNING BOARD

Institution:	New Mexico State University	**Original:**	X	**Date:**	10/08/2025
Project title:	Arrowhead Park Multi-Use Path	**Revision:**		**Date:**	

ORIGINAL CERTIFICATION

I hereby certify, on the basis of the information contained in Forms 1 through 5 of this capital project submittal and all attached supporting documentation, if appropriate, that the Governing Board approved the original submission of this project at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

REVISED SUBMISSION CERTIFICATION

I hereby certify that the Governing Board approved this Revised Submission at its meeting on

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Printed Name of President/Chancellor **Signature**

Contact

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Jose Loera
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Thank you!

Questions?

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # F-3

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By: Berta Zubiate
University Architect

Agenda Item:

Baseball Field Turf Installation

Requested Action of the Board of Regents:

Approval of Baseball Field Turf Installation

Executive Summary:

Design and installation of new artificial turf. To include removal of existing, over excavation for leech field installation, site preparation and installation of new artificial turf in lieu of natural turf.

References:

N/A

Prior Approvals:

Regents Financial Strategies, Performance and Budget Committee 09/09/2025

Board of Regents

BASEBALL FIELD TURF
SEPTEMBER 15TH, 2025

Berta Zubiate
University Architect

Jose Loera
Executive Director of PD&E

FACILITIES AND SERVICES

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Facility Information

Current Use	**Baseball**
Year Built	**1997**
Last Expansion	**N/A**
Building Size	**N/A**
Construction Type	**Typical Field**

Facility Condition Index

- Not Applicable



Baseball Field

Project Rationale

- This upgrade will enhance the baseball experience for players, coaches, staff, and the public viewing of live games.
- This upgrade will enrich the efficiency playing field surface and visual appearance
- Replacement of the natural grass outfield will change the maintenance of the field; no irrigation will be required

Scope of Work

- Demolish existing synthetic surf at infield
- Demolish existing natural turf at outfield
- Excavation of 6” of topsoil
- Furnish and install complete artificial turf system
- Install Pistol Pete head logo and outfield logo
- Set inlaid baseball markings

Proposed Project Schedule

Start of Design	N/A
Completion of Design	N/A
Start of Construction	November 2025
Completion of Construction	January 2026

Approvals

Regents Financial Strategies, Performance and Budget Committee	September 9, 2025
Board of Regents	September 15, 2025
Higher Education Department	October 8, 2025
State Board of Finance	November 18, 2025

Funding Source $2,050,000

Project Funding

- FY25 State General Fund HB450 (J3339) - $2,000,000

  Two million dollars ($2,000,000) to replace the softball and baseball turf at New Mexico State University in Las Cruces (Dona Ana county)

- FY25 State General Fund HB450 (J3340) - $50,000

  Fifty thousand dollars ($50,000) to plan, design, construct, furnish, equip and upgrade the baseball facilities at New Mexico State University in Las Cruces (Dona Ana County)

Budget Breakdown

	Funding Total	Percentages
Category		
Maximum Allowance Construction Cost (MACC)	$1,762,875	86%
Construction Contingency	$200,000	9.7%
Other Costs		
Project Administration Fees	$87,125	4.3%
Total	**$2,050,000**	**100%**

Supplemental Information

Baseball Field Turf

Existing Conditions



Baseball Field

NEW MEXICO HIGHER EDUCATION DEPARTMENT

FORM 6: CERTIFICATION BY GOVERNING BOARD

Institution:	New Mexico State University	**Original:**	X	**Date:**	10/08/2025
Project title:	Baseball Field Turf	**Revision:**		**Date:**	

ORIGINAL CERTIFICATION

I hereby certify, on the basis of the information contained in Forms 1 through 5 of this capital project submittal and all attached supporting documentation, if appropriate, that the Governing Board approved the original submission of this project at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

REVISED SUBMISSION CERTIFICATION

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Printed Name of President/Chancellor **Signature**

Contact

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Thank you!

Questions?

Board of Regents Meeting **Agenda Item #** F-4
Meeting Date: September 15, 2025
Agenda Item Cover Page

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By: Berta Zubiate
University Architect

Agenda Item:

DACC Gadsden Campus Entrance Road

Requested Action of the Board of Regents:

Approval of DACC Gadsden Campus Entrance Road

Executive Summary:

Design and construction of campus entrance road from the frontage road along Interstate 10 to existing DACC Gadsden parking lot. To include site preparation, sidewalks, lighting and drainage.

References:

N/A

Prior Approvals:

Regents Financial Strategies, Performance and Budget Committee 09/09/2025

Board of Regents

DACC GADSDEN CAMPUS ENTRANCE ROAD

SEPTEMBER 15, 2025

Berta Zubiate
University Architect

Jose Loera
Executive Director of PD&E

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Facility Information

Current Use	**N/A**
Year Built	**2000**
Last Expansion	**N/A**
Building Size	**N/A**
Construction Type	**Asphalt, Concrete**

Facility Condition Index

- Not Applicable



Proposed Entrance for Gadsden Campus

Project Rationale

- The proposed entrance road will be in line with the current New Mexico Department of Transportation traffic plan for this area. This consists of a newly constructed frontage road by Exit 162 on Interstate 10.

- The current entrance is off the renovated and widened Highway 404, which makes it difficult to access the campus from westbound traffic lanes due to heavy traffic.

- The proposed entrance road will provide a safer route for students and staff into the campus and increase campus security opportunities after hours.

Scope of Work

- Design of roadway on the west side of campus off frontage road to existing parking
- Site preparation for construction of new roadway to include grubbing, proper soil compaction and drainage
- Install new concrete sidewalks and lighting
- Asphalt surface application
- Resurface existing parking lot to include striping

Proposed Project Schedule

Start of Design	September 2025
Completion of Design	January 2026
Start of Construction	March 2026
Completion of Construction	October 2026

Approvals

Regents Financial Strategies, Performance and Budget Committee	September 9, 2025
Board of Regents	September 15, 2025
Higher Education Department	November 12, 2025
State Board of Finance	December 16, 2025

Funding Source

Project Budget: $2,100,000.00

- FY22 DACC LOCAL GOB ISSUE - $525,000.00
  Five hundred twenty-five thousand dollars (525,000.00)

- FY 25 State General Obligation Bond (I5424) - $1,575,000.00
  One million five hundred seventy-five thousand dollars (1,575,000.00) to plan, design, construct and equip improvements and upgrades to the loop road and emergency evacuation routes at the Gadsden center at the Dona Ana branch community college at New Mexico State University in Anthony in Dona Ana County

Budget Breakdown

	Funding Total	Percentages
Category		
Maximum Allowance Construction Cost (MACC)	$1,700,000	81%
Construction Contingency	$99,587.00	5%
Other Costs		
Design Fees	$211,163.00	10%
Project Administration Fees	$89,250.00	4%
Total	**$2,100,000.00**	**100%**

Supplemental Information

DACC Gadsden Campus Entrance Road

Existing Conditions



NEW MEXICO HIGHER EDUCATION DEPARTMENT

FORM 6: CERTIFICATION BY GOVERNING BOARD

Institution:	New Mexico State University	**Original:**	X	**Date:**	11/12/2025
Project title:	DACC Gadsden Entrance Road	**Revision:**		**Date:**	

ORIGINAL CERTIFICATION

I hereby certify, on the basis of the information contained in Forms 1 through 5 of this capital project submittal and all attached supporting documentation, if appropriate, that the Governing Board approved the original submission of this project at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

REVISED SUBMISSION CERTIFICATION

I hereby certify that the Governing Board approved this Revised Submission at its meeting on

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Thank you!

Questions?

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # F-5

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By: Berta Zubiate
University Architect

Agenda Item:

New Domestic Well #11

Requested Action of the Board of Regents:

Approval of New Domestic Well #11

Executive Summary:

Design and drilling of New Domestic Well #11 to replace existing well. To include construction of new well house, security fencing, site improvements and tie-in to NMSU water distribution system.

References:

N/A

Prior Approvals:

Regents Financial Strategies, Performance and Budget Committee 09/09/2025

Board of Regents

DRILLING DOMESTIC WELL #11

SEPTEMBER 15, 2025

Berta Zubiate
University Architect

Jose Loera
Executive Director of PD&E

FACILITIES AND SERVICES

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Facility Information

Current Use	**Vacant**
Year Built	**N/A**
Last Expansion	**N/A**
Building Size	**N/A**
Construction Type	**Proposed Water Well and Well House**



Proposed Well #11

Facility Condition Index

- Not Applicable

Project Rationale

- Well #11 is needed to meet the University's water delivery demand. The former Well #11 is no longer in production and has been capped. By drilling within a 250-foot radius of the original site, we are allowed to maintain the same well number.

Scope of Work

- Design and drilling of New Domestic Well #11 to replace the existing well #11. To include the construction of a new well house, security fencing, site improvements, and tie-in to the NMSU water distribution system.

Proposed Project Schedule

Start of Design	Existing Design
Completion of Design	Existing Design
Start of Construction	November 2025
Completion of Construction	April 2026

Approvals

Regents Financial Strategies, Performance and Budget Committee	September 9, 2025
Board of Regents	September 15, 2025
Higher Education Department	October 8, 2025
State Board of Finance	November 18, 2025

Funding Source

- **Project Budget - $7,000,000**

- FY25 STB HB 450 (J2018) - $7,000,000

  Seven million dollars to plan, design, construct, equip and improve the water system and infrastructure at New Mexico State University in Las Cruces in Dona Ana County.

Budget Breakdown

	Funding Total	Percentages
Category		
Maximum Allowance Construction Cost (MACC)	$5,970,455	85%
Construction Contingency	$597,045	8.5%
Other Costs		
Design Fees	$135,000	2%
Project Administration Fees	$297,500	4.5%
Total	**$7,000,000**	**100%**

Supplemental Information

Drilling Domestic Well #11

Existing Conditions



Proposed Well #11 Site

NEW MEXICO HIGHER EDUCATION DEPARTMENT

FORM 6: CERTIFICATION BY GOVERNING BOARD

Institution:	New Mexico State University	**Original:**	X	**Date:**	10/08/2025
Project title:	Drilling Domestic Well #11	**Revision:**		**Date:**	

ORIGINAL CERTIFICATION

I hereby certify, on the basis of the information contained in Forms 1 through 5 of this capital project submittal and all attached supporting documentation, if appropriate, that the Governing Board approved the original submission of this project at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

REVISED SUBMISSION CERTIFICATION

I hereby certify that the Governing Board approved this Revised Submission at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

Contact

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Jose Loera
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Thank you!

Questions?

Board of Regents Meeting **Agenda Item #** F-6
Meeting Date: September 15, 2025
Agenda Item Cover Page

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By: Berta Zubiate
University Architect

Agenda Item:

New Mexico Reforestation Center (Phase 1)

Requested Action of the Board of Regents:

Approval of the New Mexico Reforestation Center (Phase 1)

Executive Summary:

Design and construction of the New Mexico Reforestation Center at the NMSU Mora facility. Phase 1 to include installation of site utilities and site access, construct new (17,566 SF) headhouse and two (14,466 SF) greenhouses.

References:

N/A

Prior Approvals:

Regents Financial Strategies, Performance and Budget Committee 09/09/2025

Board of Regents

NEW MEXICO REFORESTATION CENTER PHASE 1

SEPTEMBER 15, 2025

Berta Zubiate
University Architect

Jose Loera
Executive Director

FACILITIES AND SERVICES

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Facility Information

Current Use	**Vacant Land**
Year Built	**2026**
Last Expansion	**N/A**
Building Size (Greenhouse 2 each)	**19,282 Sq Ft**
Building Size (Headhouse	**19,629 Sq Ft**
Construction Type	**Greenhouses/Headhouse**



Site Plan

Project Rationale

- Due to the increasing size, frequency, and severity of wildfires, New Mexico is faced with massive reforestation needs
  - Estimated acres currently in need of planting in NM: 1 - 2.6 million acres
  - Estimated tree seedlings required: 150 - 390 million
- NMSU's John T. Harrington Forestry Research Center in Mora, NM currently serves as the state nursery, but its capacity is limited to approximately 300,000 seedlings per year
- The New Mexico Reforestation Center (NMRC) project developed as a partnership between NMSU, NMHU, UNM, and EMNRD to meet the state's current and future reforestation needs
- Phase 1, described here, will build the NMRC's headhouse and first two greenhouses, increasing seedling production capacity by 1 million seedlings per year

Scope of Work

- Improvements to the main entry road
- New vehicular gravel/asphalt roads and parking lot in key areas
- Regrading of site for new building foundations
- Site utility improvements
  - New Electrical Service
  - New Domestic Water Service
  - New Sanitary Sewer treatment
  - New LP Service
  - Well pump improvements (TBD)
  - Utility stub outs for future Admin and Equipment Storage buildings
- New Headhouse to support the growth of 5 million seedlings
  - Loading Docks
  - Offices for Administration
  - Break Room for Employees
  - Restrooms
  - Irrigation system
  - Climate control system
  - Cold Storage

Scope of Work (Continued)

- New Greenhouse #1 will house 505,344 seedlings (ebb and flood system)
- New Greenhouse #2 will house 619,360 seedlings (wire floor racks)
- Irrigation overage pond and associated land application
- Rainwater cisterns and filtration to offset well water usage
- Dry stand-pipe system from existing pond for Fire Suppression

Future Phases

- Future Phases
  - Phase 2
    - Greenhouse #3
    - Storage Buildings
  - Phase 3
    - Greenhouse #4
    - Greenhouse #5
  - Phase 4
    - Administrative Building
    - Laboratory Building
  - Phase 5
    - Seed Plant – Cone Drying Facility
    - Seed Plant – Seed Processing Facility
    - Seed Plant – Office/Lab

Proposed Project Schedule

Start of Design	November 2024
Completion of Design	October 2025
Start of Construction	November 2025
Completion of Construction	September 2027

Approvals

Regents Financial Strategies, Performance and Budget Committee	September 9, 2025
Board of Regents	September 15, 2025
Higher Education Department	October 08, 2025
State Board of Finance	November 18, 2025

Funding Source

Project Funding $31,650,000

- **FY24 General Fund SB 275 (I3365) $10,000,000**

  Ten million dollars ($10,000,000) to plan, design, construct, furnish, and equip a reforestation center in Mora in Mora county;

- **USDA Federal Grant $20,000,000**

- **Research Special Appropriation $1,650,000**

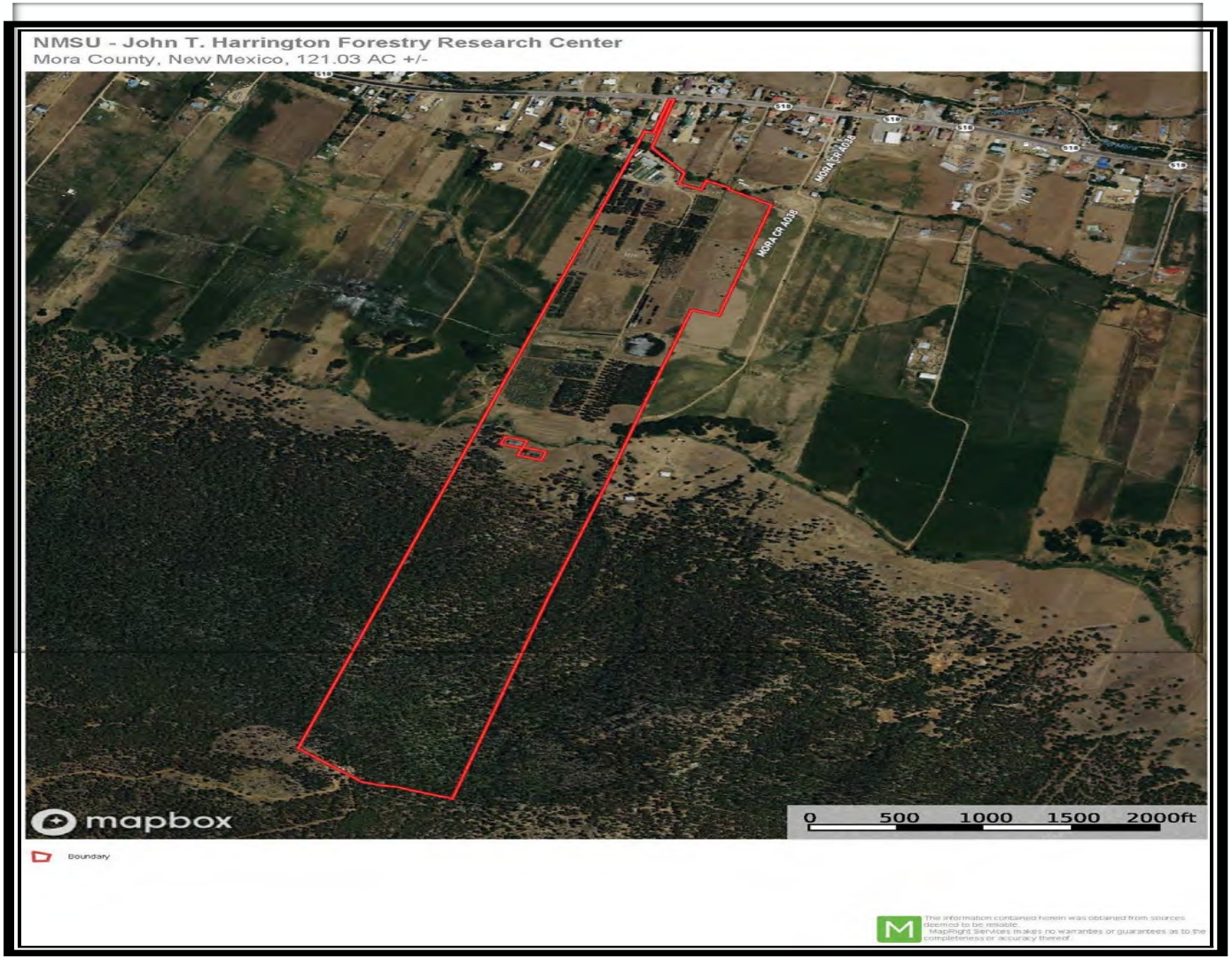
Budget Breakdown

	Funding Total	Percentages
Category		
Maximum Allowance Construction Cost (MACC)	$22,000,000.00	69.5%
Construction Contingency	$2,533,360.34	8.0%
Construction Testing	$200,000.00	0.6%
Specialty Consultants	$49,500.00	0.2%
Other Costs		
Design Fees (Phase 1) Full Design	$1,554,493.78 $2,834,865.88	4.9% 9.0%
Project Administration Fees University Fiscal Monitor Administration Fees	$471,000.00 $1,906,780.00	1.5% 6.0%
AIPP	$100,000.00	0.3%
Total	**$31,650,000.00**	**100%**

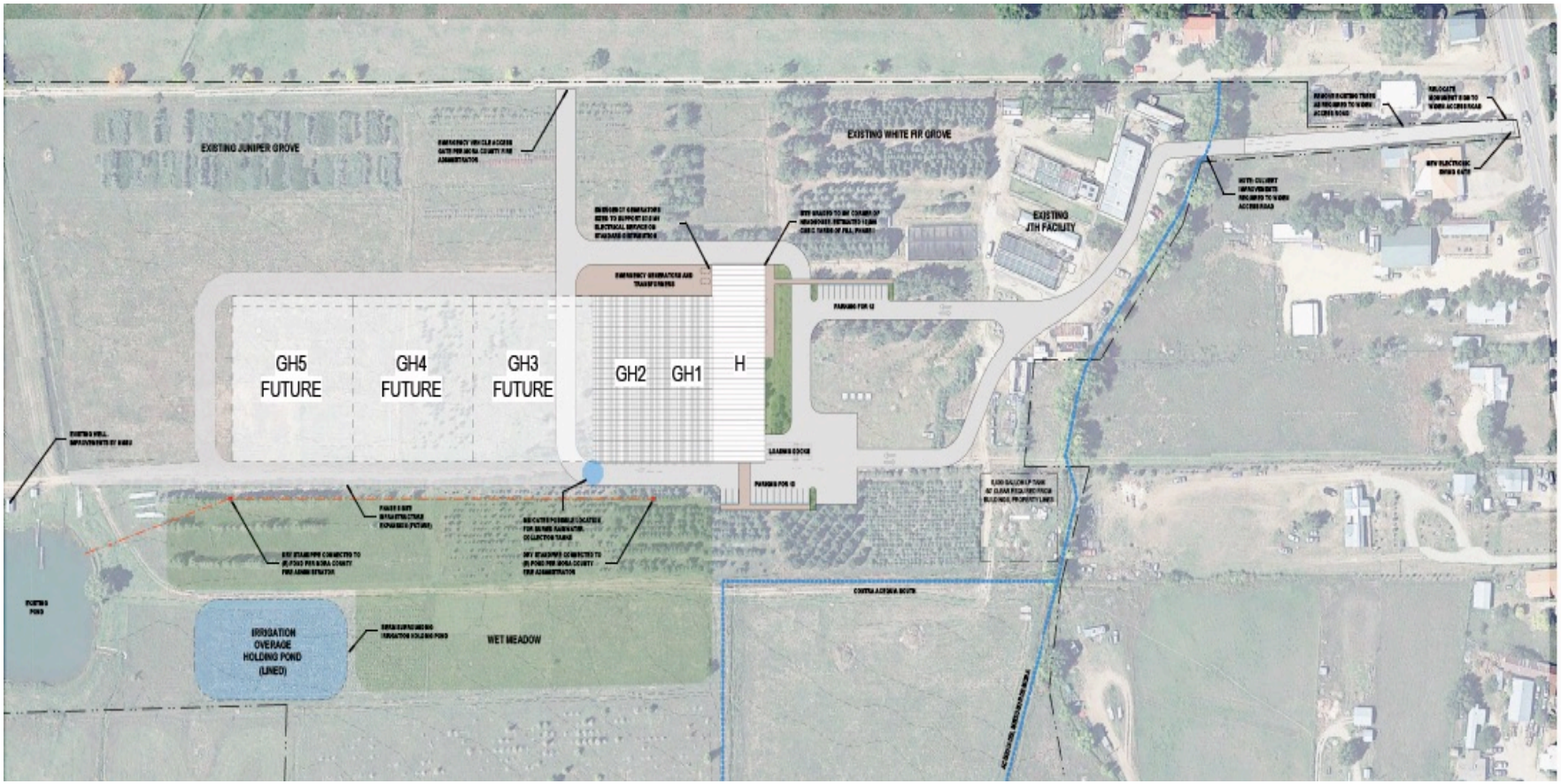
Supplemental Information

New Mexico Reforestation Center (Phase 1)

Property Boundary



Site Plan with phases



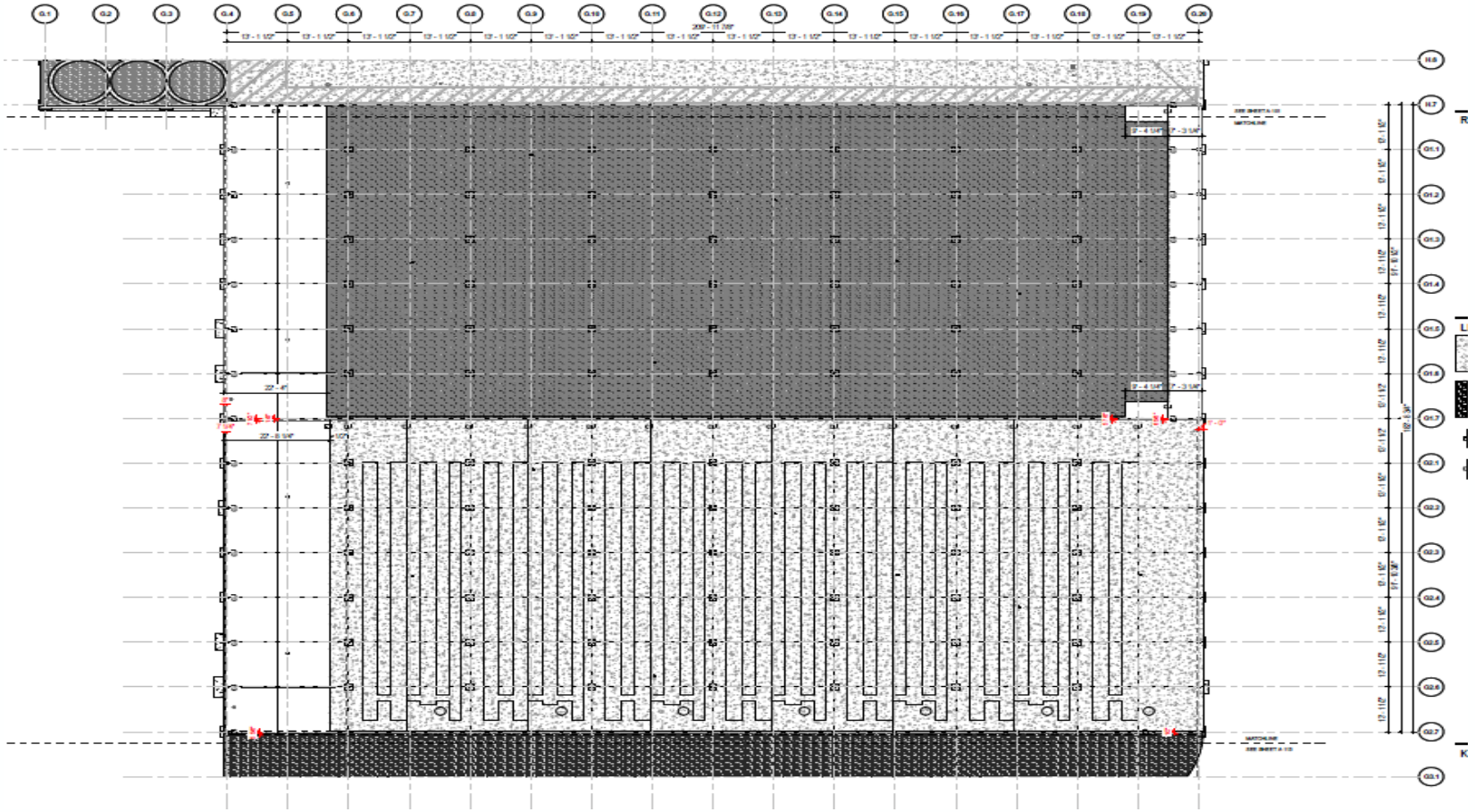




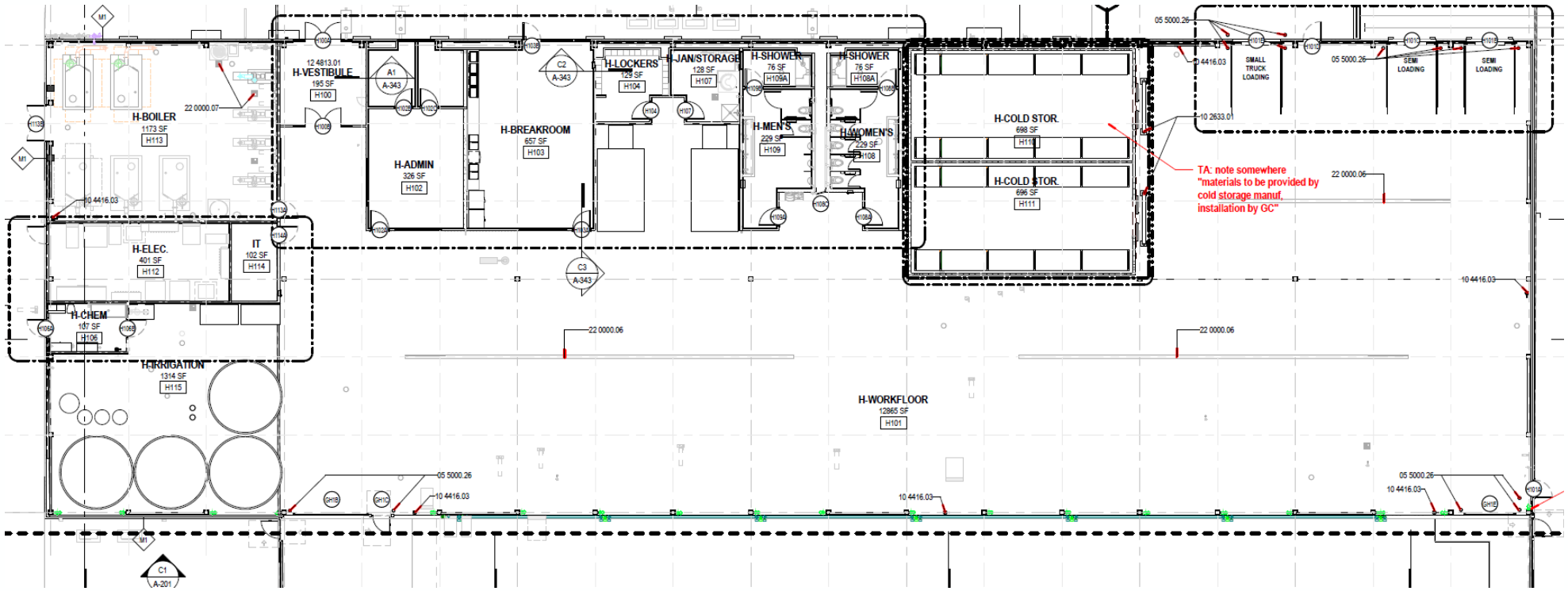




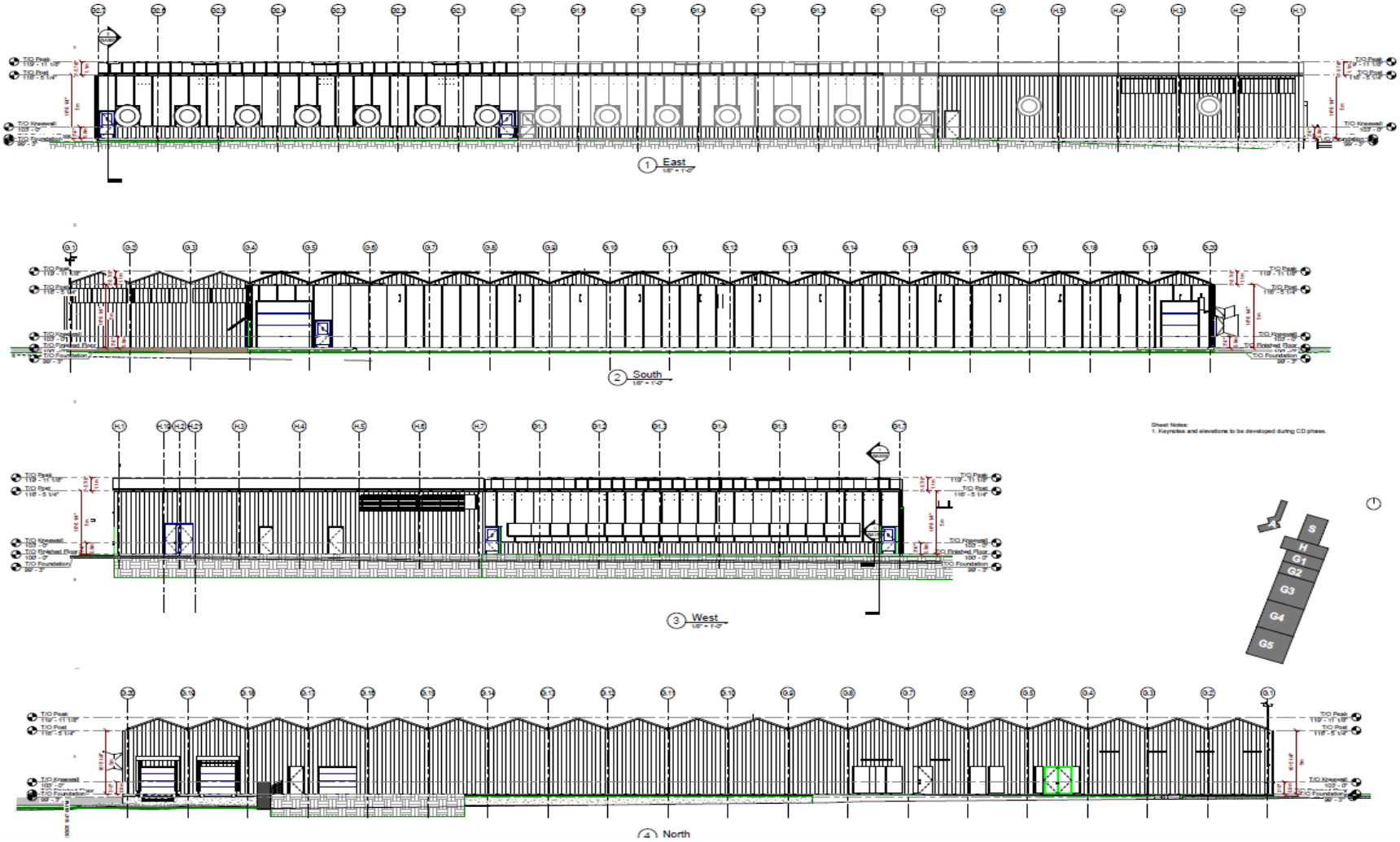
Green House Floor plans



Head house floor plan



Building elevations



NEW MEXICO HIGHER EDUCATION DEPARTMENT

FORM 6: CERTIFICATION BY GOVERNING BOARD

Institution:	New Mexico State University	**Original:**	X	**Date:**	10/09/2025
Project title:	New Mexico Reforestation Center (Phase 1)	**Revision:**		**Date:**	

ORIGINAL CERTIFICATION

I hereby certify, on the basis of the information contained in Forms 1 through 5 of this capital project submittal and all attached supporting documentation, if appropriate, that the Governing Board approved the original submission of this project at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

REVISED SUBMISSION CERTIFICATION

I hereby certify that the Governing Board approved this Revised Submission at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

Contact

Berta Zubiate
University Architect

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bzubiate@nmsu.edu

Jose Loera
Executive Director of Projects
Development & Engineering

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jloera@nmsu.edu

Thank you!

Questions?

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # F-7

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By: Berta Zubiate
University Architect

Agenda Item:

NMSU Alamogordo Townsend Library Roof Replacement

Requested Action of the Board of Regents:

Approval of the NMSU Alamogordo Townsend Library Roof Replacement

Executive Summary:

Design and replacement of wind damaged roof identified in insurance claim. To include removal of existing roofing materials down to deck, lifting of existing mechanical units to apply new roofing system.

References:

N/A

Prior Approvals:

Regents Financial Strategies, Performance and Budget Committee 09/09/2025

Board of Regents

NMSU ALAMOGORDO TOWNSEND LIBRARY WIND DAMAGE ROOF REPLACEMENT

SEPTEMBER 15, 2025

Berta Zubiate
University Architect

Jose Loera
Executive Director of PD&E

FACILITIES AND SERVICES

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New Mexico State University

Facility Information

Current Use	**Library**
Year Built	**1982**
Last Expansion	**N/A**
Building Size	**13,862 SF**
Construction Type	**CMU/Concrete**



Townsend Library

Facility Condition Index

- Not Applicable

Project Rationale

- The roof is scheduled to be repaired due to wind damage authorized by NM RMD Claim # 2501454

Scope of Work

- Remove and replace the existing roof assembly with a similar assembly

Proposed Project Schedule

Start of Design	N/A
Completion of Design	N/A
Start of Construction	September 2025
Completion of Construction	December 2025

Approvals

Regents Financial Strategies, Performance and Budget Committee	September 9, 2025
Board of Regents	September 15, 2025
Higher Education Department	October 8, 2025
State Board of Finance	N/A

Funding Source (Ins Claim # 2501454)

- **Funding will be determined with approval of NM RMD Claim #2501454**

- Insurance Deductible: $2,500.00
  Paid by Alamogordo Campus

Budget Breakdown

	Funding Total	Percentages
Category		
Maximum Allowance Construction Cost (MACC)	$TBD	xx%
Construction Contingency	$TBD	xx%
Other Costs		
Design Fees	$TBD	x%
Project Administration Fees	$TBD	x%
Total	**$TBD**	**100%**

Supplemental Information

NMSU Alamogordo Townsend Library Wind Damage Roof Replacement

Existing Conditions



Wind lifting roof membrane

NEW MEXICO HIGHER EDUCATION DEPARTMENT

FORM 6: CERTIFICATION BY GOVERNING BOARD

Institution:	New Mexico State University, Alamogordo	**Original:**	X	**Date:**	10/08/2025
Project title:	NMSU Alamogordo Townsend Wind Damage Roof Replacement	**Revision:**		**Date:**	

ORIGINAL CERTIFICATION

I hereby certify, on the basis of the information contained in Forms 1 through 5 of this capital project submittal and all attached supporting documentation, if appropriate, that the Governing Board approved the original submission of this project at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

REVISED SUBMISSION CERTIFICATION

I hereby certify that the Governing Board approved this Revised Submission at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

Contact

Berta Zubiate
University Architect

architect.nmsu.edu
575.646.2199
bzubiate@nmsu.edu

Jose Loera
Executive Director of Projects Development & Engineering

facilities.nmsu.edu
575.646.5013
jloera@nmsu.edu

Thank you!

Questions?

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # F-8

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By: Berta Zubiate
University Architect

Agenda Item:

Women's Basketball Locker Room

Requested Action of the Board of Regents:

Approval to renovate the Women's Basketball Locker Room

Executive Summary:

Design and renovate Women's Basketball Locker Room. To include new kitchenette, installation of new lockers and finishes.

References:

N/A

Prior Approvals:

Regents Financial Strategies, Performance and Budget Committee 09/09/2025

Board of Regents

WOMEN'S BASKETBALL LOCKER ROOM RENOVATION

SEPTEMBER 15TH, 2025

Berta Zubiate
University Architect

Jose Loera
Executive Director of PD&E

FACILITIES AND SERVICES

BE BOLD. Shape the Future.®
New Mexico State University

Facility Information

Current Use	**Athletics and Auxiliary Events**
Year Built	**1968**
Last Expansion	**2011**
Building Size	**202,913 sq. ft.**
Construction Type	**Steel frame on concrete slab with stucco finish**



Women's Basketball Locker Room in Pan American Center

Facility Condition Index

- Not Applicable

Project Rationale

- This upgrade will enhance the experience for players and coaches
- An efficient kitchenette for sports nutrition
- The locker upgrades will provide a more secure space for players' belongings
- In additional to providing current students a fresh updated locker room, it will assist with recruitment and retention of athletes and coaches

Scope of Work

- Demolition of entry door, ceiling tiles, light fixtures, lockers
- Reconfigure the entrance to capture additional square footage
- Build new kitchenette counter and cabinets
- Install new lockers
- Install new entry door, light fixtures, and finishes

Proposed Project Schedule

Start of Design	April 2024
Completion of Design	September 2025
Start of Construction	March 2026
Completion of Construction	July 2026

Approvals

Regents Financial Strategies, Performance and Budget Committee	September 9, 2025
Board of Regents	September 15, 2025
Higher Education Department	November 12, 2025
State Board of Finance	N/A

Funding Source $346,500.00

Project Funding

- FY23 State General Fund (H3418) - $198,000

  Two hundred thousand dollars ($200,000) to plan, design, construct, renovate, furnish and equip women's basketball locker rooms at New Mexico State University in Las Cruces in Dona Ana County

- FY25 State General Fund (J3351) - $148,500

  One hundred fifty thousand dollars ($150,000) to plan, design, construct, renovate, furnish and equip women’s athletic facilities at New Mexico State University in Las Cruces in Dona Ana County

Budget Breakdown

	Funding Total	Percentages
Category		
Maximum Allowance Construction Cost (MACC)	$275,000	80%
Construction Contingency	$15,000	5%
Other Costs		
Design Fees	$25,000	6%
Project Administration Fees	$31,500	9%
Total	**$346,500**	**100%**

Supplemental Information

Women's Basketball locker room renovation

Existing Conditions



Kitchenette Area



Locker Room

NEW MEXICO HIGHER EDUCATION DEPARTMENT

FORM 6: CERTIFICATION BY GOVERNING BOARD

Institution:	New Mexico State University	**Original:**	X	**Date:**	11/12/2025
Project title:	Women's Basketball Locker Room Renovation	**Revision:**		**Date:**	

ORIGINAL CERTIFICATION

I hereby certify, on the basis of the information contained in Forms 1 through 5 of this capital project submittal and all attached supporting documentation, if appropriate, that the Governing Board approved the original submission of this project at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

REVISED SUBMISSION CERTIFICATION

I hereby certify that the Governing Board approved this Revised Submission at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

Contact

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University Architect

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575.646.2199
bzubiate@nmsu.edu

Jose Loera
Executive Director of Projects Development & Engineering

facilities.nmsu.edu
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jloera@nmsu.edu

Thank you!

Questions?

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # F-9

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By: Berta Zubiate
University Architect

Agenda Item:

Women's Volleyball Locker Room

Requested Action of the Board of Regents:

Approval to renovate the Women's Volleyball Locker Room

Executive Summary:

Design and renovate Women's Volleyball Locker Room. To include new kitchenette, installation of new lockers and finishes.

References:

N/A

Prior Approvals:

Regents Financial Strategies, Performance and Budget Committee 09/09/2025

Board of Regents

WOMEN'S VOLLEYBALL LOCKER ROOM RENOVATION

SEPTEMBER 15TH, 2025

Berta Zubiate
University Architect

Jose Loera
Executive Director of PD&E

FACILITIES AND SERVICES

BE BOLD. Shape the Future.®
New Mexico State University

Facility Information

Current Use	**Athletics and Auxiliary Events**
Year Built	**1968**
Last Expansion	**2011**
Building Size	**202,913 sq. ft.**
Construction Type	**Steel frame on concrete slab with stucco finish**



Women's Volleyball Locker Room in Pan American Center

Facility Condition Index

- Not Applicable

Project Rationale

- This upgrade will enhance the experience for players and coaches
- An efficient kitchenette for sports nutrition
- The locker upgrades will provide a more secure space for players' belongings
- In additional to providing current students a fresh updated locker room, it will assist with recruitment and retention of athletes and coaches

Scope of Work

- Demolition of entry door, ceiling tiles, light fixtures, lockers
- Reconfigure the entrance to capture additional square footage
- Build new kitchenette counter and cabinets
- Install new lockers
- Install new entry door, light fixtures, and finishes

Proposed Project Schedule

Start of Design	April 2024
Completion of Design	September 2025
Start of Construction	March 2026
Completion of Construction	July 2026

Approvals

Regents Financial Strategies, Performance and Budget Committee	September 9, 2025
Board of Regents	September 15, 2025
Higher Education Department	November 12, 2025
State Board of Finance	N/A

Funding Source ($ 400,000.00)

Project Funding

- FY23 State General Fund (H3417) $100,000

  One hundred thousand dollars ($100,000) to plan, design, construct, renovate, furnish and equip volleyball locker rooms, including finishes and locker replacement, at New Mexico State University in Las Cruces in Dona Ana County

- FY25 State General Fund (J3354) $300,000

  Three hundred thousand dollars ($300,000) to plan, design, construct, renovate, furnish and equip the women's volleyball facilities at New Mexico State University in Las Cruces in Dona Ana County

Budget Breakdown

	Funding Total	Percentages
Category		
Maximum Allowance Construction Cost (MACC)	$325,000	81%
Construction Contingency	$19,000	5%
Other Costs		
Design Fees	$20,000	5%
Project Administration Fees	$36,000	9%
Total	**$400,000**	**100%**

Supplemental Information

Women's Volleyball Locker Room Renovation

Existing Conditions



Locker Room

NEW MEXICO HIGHER EDUCATION DEPARTMENT

FORM 6: CERTIFICATION BY GOVERNING BOARD

Institution:	New Mexico State University	**Original:**	X	**Date:**	11/12/2025
Project title:	Women's Volleyball Locker Room Renovation	**Revision:**		**Date:**	

ORIGINAL CERTIFICATION

I hereby certify, on the basis of the information contained in Forms 1 through 5 of this capital project submittal and all attached supporting documentation, if appropriate, that the Governing Board approved the original submission of this project at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

REVISED SUBMISSION CERTIFICATION

I hereby certify that the Governing Board approved this Revised Submission at its meeting on

_____

CERTIFIED:

_____ _____

Printed Name of President/Chancellor **Signature**

Contact

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Jose Loera
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Thank you!

Questions?

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item #F-10

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By:

Jeff M. Witte,
Director/Secretary NMDA

Agenda Item:

Proposed Repeal and Replacement of the Egg Inspection Fees Rule, Title 21, Chapter 34, Part 7 of the New Mexico Administrative Code (21.34.7 NMAC)

Requested Action of the Board of Regents:

Approval of Repeal and Replacement of 21.34.7 NMAC, Egg Inspection Fees Rule.

Executive Summary:

The New Mexico Department of Agriculture (NMDA) held two hearings regarding the proposed repeal and replacement of 21.34.7 NMAC. On Tuesday, July 29, 2025, at 9 a.m. a public video/telephonic and in-person hearing was held at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM 88003. On Thursday, July 31, 2025, at 9 a.m. an in-person hearing was held at the CNM Workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM 87113.

The Rulemaking Notice was published in the New Mexico Register on June 24, 2025. Notice was provided to the Sunshine Portal, in the Santa Fe New Mexican (both English and Spanish), the Albuquerque Journal, The Las Cruces Sun News, and the NMDA website. Notification and the proposed rule were sent to the New Mexico Economic Development's Small Business Regulatory Advisory Commission and to Legislative Council Service. NMDA has not received findings from either. Notice of public hearings was also emailed to current egg dealers.

The hearing officer provided the following information for my consideration. I agree with the hearing officer's recommendation and thereby recommend the following for your consideration.

Hearing Officer's Report

This memorandum serves as a summary of the hearings conducted on July 29 and 31, 2025. The information is presented for your review and to assist you in formulating a recommendation to the New Mexico State University Board of Regents regarding the adoption of the proposed repeal and replacement of NMDA's Egg Inspection Fees – Title 21, Chapter 34, Part 7 of the New Mexico Administrative Code.

Although the amendments are few, the age of the Egg Inspection Fees Rule required a repeal and replacement process to address updates to style and format in conjunction with the proposed amendments. Primary proposed amendments to the Egg Inspection Fees Rule are to raise fees from $0.12 per case (30 dozen) to $0.15 per case (30 dozen). The last fee adjustment to the Egg Inspection Fees rule was 1985. An adjustment to the fees is necessary to help offset the increased cost of services, licensing, and inspections due to inflation and mandatory adjustments to staff salaries.

Given the level of outreach that occurred to solicit feedback and the absence of any verbal or written comments, my recommendation is that the proposed repeal and replacement of 21.34.7 NMAC be adopted without changes.

References:

Section 76-1-2C NMSA 1978, authorizes the board of regents of New Mexico State University, relative to the New Mexico Department of Agriculture, the authority to adopt and file in compliance with the State Rules Act [Chapter 14, Article 4 NMSA 1978], regulations as may be necessary to carry out its duties.

Prior Approvals:

Agenda Item Approved By:

Each office may determine required signatures (if any). All items should be routed through the President's Office, University General Counsel, or the Secretary of NMDA as appropriate.



_____ ____8/26/2025_____

Jeff M. Witte Date

Director/Secretary

RULEMAKING PACKET- BOARD OF REGENTS

Egg Inspection Fees

Official Record

New Mexico Department of Agriculture

Amendment to 21.34.7 NMAC
NMDA Rule Making Procedures

September 15, 2025

NMDA Rule Making Procedures
21.34.7 NMAC

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Director/Secretary Recommendation Memo

NEW MEXICO DEPARTMENT OF AGRICULTURE
Office of the Director/Secretary
MSC 3189
New Mexico State University
P.O. Box 30005
Las Cruces, NM 88003-8005
Phone: (575) 649-0505

August 25, 2025

MEMORANDUM

TO: New Mexico State University Board of Regents

FROM: Jeff M. Witte, Director/Secretary

SUBJECT: Recommendation to Adopt the Hearing Officer's Recommendation
RE: New Mexico Department of Agriculture Hearings on Proposed Repeal and Replacement of the Egg Inspection Fees Rule, Title 21, Chapter 34, Part 7 of the New Mexico Administrative Code (21.34.7 NMAC) (Attached)

BACKGROUND INFORMATION

The New Mexico Department of Agriculture (NMDA) held two hearings regarding the proposed repeal and replacement of 21.34.7 NMAC. On Tuesday, July 29, 2025, at 9 a.m. a public video/telephonic and in-person hearing was held at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM 88003. On Thursday, July 31, 2025, at 9 a.m. an in-person hearing was held at the CNM Workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM 87113.

The Rulemaking Notice was published in the New Mexico Register on June 24, 2025. Notice was provided to the Sunshine Portal, in the Santa Fe New Mexican (both English and Spanish), the Albuquerque Journal, The Las Cruces Sun News, and the NMDA website. Notification and the proposed rule were sent to the New Mexico Economic Development's Small Business Regulatory Advisory Commission and to Legislative Council Service. NMDA has not received findings from either. Notice of public hearings was also emailed to current egg dealers.

The hearing officer provided the following information for my consideration. I agree with the hearing officer's recommendation and thereby recommend the following for your consideration.

HEARING OFFICER'S REPORT

This memorandum serves as a summary of the hearings conducted on July 29 and 31, 2025. The information is presented for your review and to assist you in formulating a recommendation to the New Mexico State University Board of Regents regarding the adoption of the proposed repeal and replacement of NMDA's Egg Inspection Fees – Title 21, Chapter 34, Part 7 of the New Mexico Administrative Code.

Although the amendments are few, the age of the Egg Inspection Fees Rule required a repeal and replacement process to address updates to style and format in conjunction with the proposed amendments. Primary proposed amendments to the Egg Inspection Fees Rule are to raise fees from $0.12 per case (30 dozen) to $0.15 per case (30 dozen). The last fee adjustment to the Egg Inspection Fees rule was 1985. An adjustment to the fees is necessary to help offset the increased cost of services, licensing, and inspections due to inflation and mandatory adjustments to staff salaries.

Given the level of outreach that occurred to solicit feedback and the absence of any verbal or written comments, my recommendation is that the proposed repeal and replacement of 21.34.7 NMAC be adopted without changes.

Final Replacement for Adoption

TITLE 21 AGRICULTURE AND RANCHING
CHAPTER 34 DAIRY AND EGG PRODUCERS
PART 7 EGG INSPECTION FEES

21.34.7.1 ISSUING AGENCY: New Mexico State University, New Mexico Department of Agriculture
[7/1/1997; 21.34.7.1 NMAC - Rn & A, 21 NMAC 34.7.1, 05/29/2009]
[MSC 3189, P. O. Box 30005, Las Cruces, New Mexico 88003-8005, Telephone: (575) 646-3007]

21.34.7.2 SCOPE: All producers, dealers and retailers of shell eggs sold or offered for sale in New Mexico.
[7/1/1997; 21.34.7.2 NMAC - Rn, 21 NMAC 34.7.2, 05/29/2009]

21.34.7.3 STATUTORY AUTHORITY: Granted to the board of regents of New Mexico state university, under the Egg Grading Act, Chapter 25, Article 6, Sections 1 through 16, New Mexico Statutes Annotated, 1978 Compilation.
[7/1/1997; 21.34.7.3 NMAC - Rn, 21 NMAC 34.7.3, 05/29/2009]

21.34.7.4 DURATION: Permanent
[7/1/1997; 21.34.7.4 NMAC - Rn, 21 NMAC 34.7.4, 05/29/2009]

21.34.7.5 EFFECTIVE DATE: ~~July 1, 1997~~ October 7, 2025, unless a later date is cited in the history note at the end of a section.
[7/1/1997; 21.34.7.5 NMAC - Rn, 21 NMAC 34.7.5, 05/29/2009]

21.34.7.6 OBJECTIVE: This part establishes the inspection fee on eggs sold to the retailer or to the consumer.
[7/1/1997; 21.34.7.6 NMAC - Rn, 21 NMAC 34.7.6, 05/29/2009]

21.34.7.7 DEFINITIONS: "Egg dealer" means any person, firm, partnership or corporation that buys eggs directly from the farmers or from any other source for the purpose of reselling them at wholesale.
[7/1/1997; 21.34.7.7 NMAC - Rn, 21 NMAC 34.7.7, 05/29/2009]

21.34.7.8 [RESERVED]

21.34.7.9 EGG INSPECTION FEE:

A. The inspection fee on eggs sold in New Mexico to the retailer or to the consumer shall be ~~twelve~~ fiveteen cents ~~(.12)~~ (.15) per case of 30 dozen.

B. The fee shall be paid by the egg dealer or producer who packages the eggs for sale to the retailer or consumer.
[7/1/1997; 21.34.7.9 NMAC - Rn, 21 NMAC 34.7.9, 05/29/2009]

21.34.7.10 [RESERVED]

HISTORY OF 21.34.7 NMAC:
Pre-NMAC History: The material in this part was derived from that previously filed with the State Records Center and Archives under:
NMDA Rule No. DOA 71-2, Regulatory Order No. 2, Egg Inspection Fees, filed 5/19/1971.
NMDA Rule No. 83-4, Egg Inspection Fees, filed 5/12/1983.
NMDA Rule No. 85-7, Egg Inspection Fees, filed 9/24/1985.

History of Repealed Material: [RESERVED]

Final Amendment in Context

TITLE 21 AGRICULTURE AND RANCHING
CHAPTER 34 DAIRY AND EGG PRODUCERS
PART 7 EGG INSPECTION FEES

21.34.7.1 ISSUING AGENCY: New Mexico State University, New Mexico Department of Agriculture
[7/1/1997; 21.34.7.1 NMAC - Rn & A, 21 NMAC 34.7.1, 05/29/2009]
[MSC 3189, P. O. Box 30005, Las Cruces, New Mexico 88003-8005, Telephone: (575) 646-3007]

21.34.7.2 SCOPE: All producers, dealers and retailers of shell eggs sold or offered for sale in New Mexico.
[7/1/1997; 21.34.7.2 NMAC - Rn, 21 NMAC 34.7.2, 05/29/2009]

21.34.7.3 STATUTORY AUTHORITY: Granted to the board of regents of New Mexico state university, under the Egg Grading Act, Chapter 25, Article 6, Sections 1 through 16, New Mexico Statutes Annotated, 1978 Compilation.
[7/1/1997; 21.34.7.3 NMAC - Rn, 21 NMAC 34.7.3, 05/29/2009]

21.34.7.4 DURATION: Permanent
[7/1/1997; 21.34.7.4 NMAC - Rn, 21 NMAC 34.7.4, 05/29/2009]

21.34.7.5 EFFECTIVE DATE: October 7, 2025, unless a later date is cited in the history note at the end of a section.
[7/1/1997; 21.34.7.5 NMAC - Rn, 21 NMAC 34.7.5, 05/29/2009]

21.34.7.6 OBJECTIVE: This part establishes the inspection fee on eggs sold to the retailer or to the consumer.
[7/1/1997; 21.34.7.6 NMAC - Rn, 21 NMAC 34.7.6, 05/29/2009]

21.34.7.7 DEFINITIONS: "Egg dealer" means any person, firm, partnership or corporation that buys eggs directly from the farmers or from any other source for the purpose of reselling them at wholesale.
[7/1/1997; 21.34.7.7 NMAC - Rn, 21 NMAC 34.7.7, 05/29/2009]

21.34.7.8 [RESERVED]

21.34.7.9 EGG INSPECTION FEE:

A. The inspection fee on eggs sold in New Mexico to the retailer or to the consumer shall be-fifteen cents (.15) per case of 30 dozen.

B. The fee shall be paid by the egg dealer or producer who packages the eggs for sale to the retailer or consumer.

[7/1/1997; 21.34.7.9 NMAC - Rn, 21 NMAC 34.7.9, 05/29/2009]

21.34.7.10 [RESERVED]

HISTORY OF 21.34.7 NMAC:
Pre-NMAC History: The material in this part was derived from that previously filed with the State Records Center and Archives under:
NMDA Rule No. DOA 71-2, Regulatory Order No. 2, Egg Inspection Fees, filed 5/19/1971.
NMDA Rule No. 83-4, Egg Inspection Fees, filed 5/12/1983.
NMDA Rule No. 85-7, Egg Inspection Fees, filed 9/24/1985.

History of Repealed Material: [RESERVED]

Hearing Officer Recommendation Memo

NEW MEXICO DEPARTMENT OF AGRICULTURE
Office of the Director/Secretary
MSC 3189
New Mexico State University
P.O. Box 30005
Las Cruces, NM 88003-8005
Phone: (575) 649-0505

August 22, 2025

MEMORANDUM

TO: Director/Secretary Jeff M. Witte

FROM: Les Owen, Deputy Director – Hearing Officer

SUBJECT: Hearing Officer's Report – RE: New Mexico Department of Agriculture Hearings on Proposed Repeal and Replacement of the Egg Inspection Fees Rule, Title 21, Chapter 34, Part 7 of the New Mexico Administrative Code (21.34.7 NMAC)

BACKGROUND INFORMATION

The New Mexico Department of Agriculture (NMDA) held two hearings regarding the proposed repeal and replacement of 21.34.7 NMAC. On Tuesday, July 29, 2025, at 9 a.m. a public video/telephonic and in-person hearing was held at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM 88003. On Thursday, July 31, 2025, at 9 a.m. an in-person hearing was held at the CNM Workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM 87113.

The Rulemaking Notice was published in the New Mexico Register on June 24, 2025. Notice was provided to the Sunshine Portal, in the Santa Fe New Mexican (both English and Spanish), the Albuquerque Journal, The Las Cruces Sun News, and the NMDA website. Notification and the proposed rule were sent to the New Mexico Economic Development's Small Business Regulatory Advisory Commission and to Legislative Council Service. NMDA has not received findings from either. Notice of public hearings was also emailed to current egg dealers.

The hearing officer provides the following information for consideration by NMDA's director/secretary.

THE RULE and AMENDMENTS TO THE RULE in CONTEXT

TITLE 21 AGRICULTURE AND RANCHING
CHAPTER 34 DAIRY AND EGG PRODUCERS
PART 7 EGG INSPECTION FEES

21.34.7.1 ISSUING AGENCY: New Mexico State University, New Mexico Department of Agriculture
[7/1/1997; 21.34.7.1 NMAC - Rn & A, 21 NMAC 34.7.1, 05/29/2009]
[MSC 3189, P. O. Box 30005, Las Cruces, New Mexico 88003-8005, Telephone: (575) 646-3007]

21.34.7.2 SCOPE: All producers, dealers and retailers of shell eggs sold or offered for sale in New Mexico.
[7/1/1997; 21.34.7.2 NMAC - Rn, 21 NMAC 34.7.2, 05/29/2009]

21.34.7.3 STATUTORY AUTHORITY: Granted to the board of regents of New Mexico state university, under the Egg Grading Act, Chapter 25, Article 6, Sections 1 through 16, New Mexico Statutes Annotated, 1978 Compilation.
[7/1/1997; 21.34.7.3 NMAC - Rn, 21 NMAC 34.7.3, 05/29/2009]

21.34.7.4 DURATION: Permanent
[7/1/1997; 21.34.7.4 NMAC - Rn, 21 NMAC 34.7.4, 05/29/2009]

21.34.7.5 EFFECTIVE DATE: ~~July 1, 1997~~ October 7, 2025, unless a later date is cited in the history note at the end of a section.
[7/1/1997; 21.34.7.5 NMAC - Rn, 21 NMAC 34.7.5, 05/29/2009]

21.34.7.6 OBJECTIVE: This part establishes the inspection fee on eggs sold to the retailer or to the consumer.
[7/1/1997; 21.34.7.6 NMAC - Rn, 21 NMAC 34.7.6, 05/29/2009]

21.34.7.7 DEFINITIONS: "Egg dealer" means any person, firm, partnership or corporation that buys eggs directly from the farmers or from any other source for the purpose of reselling them at wholesale.
[7/1/1997; 21.34.7.7 NMAC - Rn, 21 NMAC 34.7.7, 05/29/2009]

21.34.7.8 [RESERVED]

21.34.7.9 EGG INSPECTION FEE:

A. The inspection fee on eggs sold in New Mexico to the retailer or to the consumer shall be ~~twelve~~ fiveteen cents ~~(.12)~~ (.15) per case of 30 dozen.

B. The fee shall be paid by the egg dealer or producer who packages the eggs for sale to the retailer or consumer.

[7/1/1997; 21.34.7.9 NMAC - Rn, 21 NMAC 34.7.9, 05/29/2009]

21.34.7.10 [RESERVED]

HISTORY OF 21.34.7 NMAC:
Pre-NMAC History: The material in this part was derived from that previously filed with the State Records Center and Archives under:
NMDA Rule No. DOA 71-2, Regulatory Order No. 2, Egg Inspection Fees, filed 5/19/1971.
NMDA Rule No. 83-4, Egg Inspection Fees, filed 5/12/1983.
NMDA Rule No. 85-7, Egg Inspection Fees, filed 9/24/1985.

History of Repealed Material: [RESERVED]

PUBLIC COMMENT

NMDA did not receive any public comments, verbal or written, regarding the proposed repeal and replacement of 21.34.7 NMAC.

HEARING OFFICER'S CONCLUSION

This memorandum serves as a summary of the hearings conducted on July 29 and 31, 2025. The information is presented for your review and to assist you in formulating a recommendation to the New Mexico State University Board of Regents regarding the adoption of the proposed repeal and replacement of NMDA's Egg Inspection Fees – Title 21, Chapter 34, Part 7 of the New Mexico Administrative Code.

Although the amendments are few, the age of the Egg Inspection Fees Rule required a repeal and replacement process to address updates to style and format in conjunction with the proposed amendments. Primary proposed amendments to the Egg Inspection Fees Rule are to raise fees from $0.12 per case (30 dozen) to $0.15 per case (30 dozen). The last fee adjustment to the Egg Inspection Fees rule was 1985. An adjustment to the fees is necessary to help offset the increased cost of services, licensing, and inspections due to inflation and mandatory adjustments to staff salaries.

Given the level of outreach that occurred to solicit feedback and the absence of any verbal or written comments, my recommendation is that the proposed repeal and replacement of 21.34.7 NMAC be adopted without changes.

Hearing Transcript-
for July 29, 2025

21.34.7 EGG INSPECTION FEES RULE REPEAL AND REPLACE RULEMAKING HEARING

Moderated by Les Owen

Tuesday, July 29, 2025

9:00 a.m.

Gerald Thomas Hall Auditorium, New Mexico State University

940 College Drive (Room 194)

Las Cruces, NM 88003

Reported by: Ryan Auten

JOB NO: 7452797

A P P E A R A N C E S

List of Attendees:

Les Owen, Deputy Director NMDA

Roxanne Chepsongol, Division Director NMDA

Vanessa Fisher, Host

P R O C E E D I N G S

MR. OWEN: Good morning. At this time, we will start the hearing that addresses the proposed repeal and replacement of the Egg Inspection Fees Rule, Title 21, Chapter 34, Part 7 of the New Mexico Administrative Code.

My name is Les Owen, and I am Deputy Director with the New Mexico Department of Agriculture. Today, I will be officiating this hearing.

Please make sure you have signed in for the record and that your cell phone is off or silenced. Thank you.

Copies of the proposed amendments to the Egg Inspection Fees Rule were made available in strikethrough version and in clean copy form as you walked in.

If you require copies, please hold your hand up and they will be provided to you. For our virtual participants, electronic copies are available on the department's website at nmdeptag.nmsu.edu.

The day and date is Tuesday, July 29, 2025, and the time is 9:00 a.m. This hearing is being held personally in person and virtually in New Mexico State University's Gerald Thomas Hall Auditorium,

located at 940 College Drive, Las Cruces, New Mexico. This is the published date, time, and location for this meeting.

This hearing is being recorded, and either a transcript of today's hearing or the recording will be available from the department's webpage.

Following a summary of the proposed primary amendments, the public will have an opportunity to provide testimony regarding the proposed amendments.

Mrs. Chepsongol will now provide a summary of the public notices proposed primary amendments today, inspection fees rule, and any related information.

MS. CHEPSONGOL: Good morning. I'm Roxanne Chepsongol, Division Director with the New Mexico Department of Agriculture.

The Egg Inspection Fees Rule was promulgated under the authority of the Egg Grading Act, which establishes egg standards, egg dealer licenses, egg inspection fees, and assures the eggs sold in the state are fit for human consumption and are labeled properly.

Public notices of this hearing were

published as follows, and in accordance with the state laws: June 24, 2025, in the New Mexico Register; June 24, 2025, in the Albuquerque Journal; June 24, 2025, in the Santa Fe New Mexican in Spanish and in English; June 25, 2025, in the Las Cruces Sun News.

Hearing notices were also posted on the New Mexico Sunshine Portal at New Mexico Department of Agriculture District Station in Albuquerque and on the New Mexico Department of Agriculture's website in Spanish and English.

Copies of the proposed rule were made available at the New Mexico Department of Agriculture, Las Cruces main office and Lab building, New Mexico Department of Agriculture Veterinary Diagnostic Services Lab in Albuquerque, New Mexico Department of Agriculture Peanut Grading Station in Portales and on the department's website.

Notification and the proposed rule were sent to New Mexico Economic Developments, Small Business Regulatory Authority Commission, and to the Legislative Council Service. As of today, New Mexico Department of Agriculture has not received findings from either. Notice of the public hearing was also emailed to current egg dealers.

Although the amendments are few, the

age of the Egg Inspection Fees Rule required a repeal and replace process to address updates to style and format in conjunction with the New Mexico Department of Agriculture's proposed amendments.

Primary proposed amendments to the Egg Inspection Fees Rule: Proposed fees change from 12 cents per case, which is 30 dozen to 15 cents per case for 30 dozen. The last fee adjustment to the egg inspection fees was 1985.

An adjustment to the fees is necessary to help offset the increased costs of services, licensing and inspections due to inflation and mandatory adjustments to staff salaries.

The amendment updates the outdated fees and supports egg inspections, licensing activities and promoting the poultry industry in accordance with the Egg Grading Act 25-6-1 through 25-6-16.

The fees collected support portions of eleven inspection staff and two office staff salaries. These staff complete inspections three to four times a year at retail locations that sell eggs in New Mexico. In the past three years, staff have completed 826 inspections and 107 or 12.5% resulted in stop sales on eggs.

In the past five years, the egg

inspection fees haven't maintained the program's activities. The program is on average short $40,601 annually. Based on an estimate from the past five years revenue of egg sales, the increase to 15 cents per case would generate $37,000.

Other states have similar eggs inspection fees, but comparisons are challenging since they charge other fees and have a significantly more egg dealers and producers.

For example, Louisiana's fee is 16 cents per case for shell eggs with additional -- additional fees for egg products. Indiana's fees are 11 cents per case, but revenue is generated by approximately 290 producers. New Mexico has 66 dealers and only 4 in-state dealers and no commercial egg producers.

To fulfill statutory requirements, fees must increase to support inspector salaries for inspections and department costs. Thank you.

MR. OWEN: Thank you, Mrs. Chepsongol. New Mexico Department of Agriculture has not received any written comments prior to this hearing.

We'll now open the floor for comments. Please begin by stating your name and affiliation for the record. Your comments and questions should be

limited to the contents of the rule.

Please raise your hand and -- and wait until I call on you. At this time, I will begin accepting comments.

Seeing none, we will now accept comments from virtual participants. Please use the raise your hand function and I will call on you.

Is there anyone else wishing to comment? Seeing none, we will close the public oral comment period for this hearing.

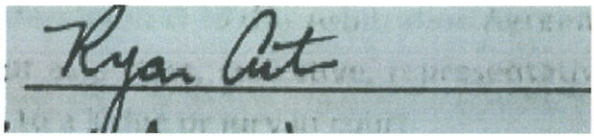
Written comments will be accepted until 5:00 p.m., Thursday, July 31, 2025. All public comments will be presented to the Secretary/Director of New Mexico Department of Agriculture, Mr. Jeff Witte, and will be submitted for consideration to the New Mexico State University Board of Regents. Submitted comments, and either a transcript of today's hearing and/or the recording will be available from the New Mexico Department of Agriculture's website.

Thank you all for participating. We will close this hearing at 9:09 a.m. Thank you.

(Whereupon, the meeting concluded at 9:09 a.m.)

CERTIFICATE

I, RYAN AUTEN, the officer before whom the foregoing proceedings were taken, do hereby certify that any witness(es) in the foregoing proceedings, prior to testifying, were duly sworn; that the proceedings were recorded by me and thereafter reduced to typewriting by a qualified transcriptionist; that said digital audio recording of said proceedings are a true and accurate record to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.



RYAN AUTEN
Notary Public in and for the
State of New Mexico

CERTIFICATE OF TRANSCRIBER

I, VENUS COLE, do hereby certify that this transcript was prepared from the digital audio recording of the foregoing proceeding, that said transcript is a true and accurate record of the proceedings to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.



VENUS COLE

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Hearing Transcript- for July 31, 2025

New Mexico Department of Agriculture

Egg Inspection Fees Rule Rulemaking Hearing

Moderated by Les Owen, Deputy Director

Thursday, July 31, 2025

8:59 a.m.

Central New Mexico Community College Workforce Training Center

5600 Eagle Rock Avenue Northeast

Albuquerque, NM 87113

Reported by: James Cogswell

JOB NO: 7452800

A P P E A R A N C E S

List of Attendees:

Les Owen, Deputy Director, New Mexico Department of Agriculture

Uriel Fuentes, Assistant Division Director, New Mexico Department of Agriculture

Katie Laney, Assistant Division Director, New Mexico Department of Agriculture

Steve Baca, Assistant Division Director, New Mexico Department of Agriculture

Bradley Lewis, New Mexico Department of Agriculture

Candie Sweetser, New Mexico Department of Agriculture

Vanessa Fisher, New Mexico Department of Agriculture

P R O C E E D I N G S

MR. OWEN: Good morning. At this time, we will start the hearing that addresses the proposed repeal and replacement of the Egg Inspection Fees rule, Title 21, Chapter 34, Part 7 of the New Mexico Administrative Code.

My name is Les Owen, and I am deputy director with the New Mexico Department of Agriculture. Today I will be officiating this hearing. Please make sure that you have signed in for the record and that your cell phone is off or silenced. Thank you.

Copies of the proposed amendments to the Egg Inspection Fees rule were made available in strikethrough version and in cleanup copy form as you walked in. If you require copies, please hold your hand up and they will be provided to you.

For -- the day and date is Thursday, July 31, 2025, and the time is 9 a.m. This hearing is being held in person at the Central New Mexico Community College Workforce Training Center, Albuquerque, New Mexico, 5600 Eagle Rock Avenue Northeast. This is the published date, time, and location for this hearing.

A transcript of today's hearing will be

available from the department's webpage. Following a summary of the proposed primary amendments, the public will have an opportunity to provide testimony regarding the proposed amendments.

Mr. Fuentes will now provide a summary of the public notices, proposed primary amendments to the Egg Inspection Fees rule, and any related information.

MR. FUENTES: Good morning. I am Uri Fuentes, an assistant division director with the New Mexico Department of Agriculture. The Egg Inspection Fees rule was promulgated under the authority of the Egg Grading Act, which established egg standards, egg dealers' licenses, egg inspection fees, and assures that the eggs sold in the state are fit for human consumption and labeled properly.

Public notices for the hearing were published as follows and in accordance with state laws: June 24, 2025, in the New Mexico Register; June 24, 2025, in the Albuquerque Journal; June 24, 2025, in the Santa Fe New Mexican in Spanish and English; June 25, 2025, in the Las Cruces Sun News.

Hearing notices were also posted on the New Mexico Sunshine Portal, at New Mexico Department of Agriculture District Office in Albuquerque, and on

the New Mexico Department of Agriculture's website in Spanish and English.

Copies of the proposed rule were made available at the New Mexico Department of Agriculture Las Cruces main office and lab building, New Mexico Department of Agriculture Veterinary Diagnostic Services Lab in Albuquerque, New Mexico Department of Agriculture Peanut Grading Station in Portales, and on the department's website.

Notification and the proposed rule were sent to the New Mexico Economic Development -- Development Small Business Regulatory Advisory Commission and to the Legislative Council Service. As of today, New Mexico Department of Agriculture has not received findings from either. Notice of public hearings were also emailed to current egg dealers.

Although the amendment -- amendments are few, the age of the Egg Inspection Fees rules required a repeal and replacement process to address updates to style and format in conjunction with the New Mexico Department of Agriculture's proposed amendments.

Primary proposed amendments to the Egg Inspection Fees rule include proposed fees changed from 12 cents per case for 30 dozen to 15 cents per

case, 30 dozen. The last fee adjustment to the Egg Inspection Fees rule was 1985. An adjustment to the fees is necessary to help offset the increased cost of services, licensing, and the inspections due to inflation and mandatory adjustments to staff salaries.

The amendment updates the updated -- outdated fee that supports egg inspections, licensing activities, and promoting the poultry industry in accordance with the Egg Grading Act 25.6.1 through 25.6.16. The fees collected support portions of 11 inspection staff and two office staff salaries. The staff complete inspections three to four times a year at retail locations that sell eggs in New Mexico. In the past three years, staff have completed 826 inspections, and 107 or 12.95 percent resulted in stop sales on eggs.

In the past five years, the egg inspection fees have maintained the program's activities -- have -- haven't maintained the program's activities. The program is on average $40,601 short annually. Based on the estimate from the past five years' revenue of egg sales, the increase to 15 cents per case would generate $37,000.

Other states have similar inspection fees, but comparisons are challenging since they

charge other fees and have some -- significantly more egg dealers and producers. For example, Louisiana's fees -- fee is 16 cents per case for shell eggs with an additional fee for egg products. Indiana's fees are 11 cents per case, but revenue is generated by their approximate 290 producers.

New Mexico has 66 dealers with only 4 in-state dealers and no commercial egg producers. To fulfill the statutory obligations, fees must be increased to support inspectors' salaries, for inspections, and department costs.

MR. OWEN: Thank you, Mr. Fuentes.

New Mexico Department of Agriculture has not received any written comments prior to this hearing.

We will now open the floor for comments. Please begin by stating your name and affiliation for the record. Your comments and questions should be limited to the contents of the rule. Please raise your hand and I will call up on you to come up to the table to provide comments. I will now begin accepting comments.

Is there anyone else wishing to comment? Seeing none, we will close the public oral comment period for this hearing. Written comments

will be accepted until 5 p.m. Thursday, July 31, 2025. All public comments will be presented to the secretary/director of the New Mexico Department of Agriculture, Mr. Jeff Witte, and will be submitted for consideration to the New Mexico State University Board of Regents.

Submitted comments and either a transcript of today's hearing and/or recording will be available from the New Mexico Department of Agriculture's webpage.

Thank you all for participating. We will close this hearing at 9:06 a.m.

(Whereupon, at 9:06 a.m., the proceeding was concluded.)

CERTIFICATE

I, JAMES COGSWELL, the officer before whom the foregoing proceedings were taken, do hereby certify that any witness(es) in the foregoing proceedings, prior to testifying, were duly sworn; that the proceedings were recorded by me and thereafter reduced to typewriting by a qualified transcriptionist; that said digital audio recording of said proceedings are a true and accurate record to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

August 14, 2025

JAMES COGSWELL

Notary Public in and for the

State of New Mexico

CERTIFICATE OF TRANSCRIBER

I, RACHEL HUFF, do hereby certify that this transcript was prepared from the digital audio recording of the foregoing proceeding, that said transcript is a true and accurate record of the proceedings to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

August 14, 2025

Rachel L. Huff

RACHEL HUFF

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Exhibits

NOTICE OF PROPOSED RULEMAKING

NOTICE IS HEREBY GIVEN that the New Mexico Department of Agriculture (NMDA), proposes to repeal and replace 21.34.7. NMAC, EGG INSPECTION FEES.

PURPOSE AND SUMMARY OF THE PROPOSED RULES:

Primary proposed amendments to the current Egg Inspection Fees rule language updates the outdated fee that supports egg inspections and licensing activities.

The departments obligation to the citizens of New Mexico is to assure that eggs sold in the state are fit for human consumption and labeled properly. The current inspection fees set in rule for a case of shell eggs are collected by the department to fulfill these statutory obligations.

Proposed rule change will follow the repeal and replacement process rather than the amendment process for fees on eggs sold in New Mexico to the retailer or the consumer per case of 30 dozen (Subsection A of 21.34.7.9 NMAC). These adjustments are necessary to help offset the increased cost of services, licensing, and inspections for inflation and mandatory adjustments to staff salaries.

STATUTORY AUTHORITY: Granted to the Board of Regents of New Mexico State University under the Egg Grading Act, Chapter 25, Article 6, Sections 1 through 16, New Mexico Statutes Annotated, 1978 Compilation.

Copies of the Notice of Proposed Rulemaking and proposed rules (including any technical information) are available by electronic download from the New Mexico Department of Agriculture website (https://www.nmda.nmsu.edu) and at agency district and field offices.

Tuesday, July 29 2025 at 9am NMDA will host a public video/telephonic and in-person hearing at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM, 88003.

Join via Video for Tuesday, July 29, 2025, 9am hearing:
Meeting URL: https://nmsu.zoom.us/j/83992662632
Meeting ID: 777 178 7960
Passcode: 328151
Or
Join via Phone for Tuesday, July 29, 2025, 9am hearing:
+1 669 900 6833 or +1 719 359 4580
Meeting ID: 777 178 7960
Passcode: 328151

Thursday, July 31 2025 at 9am NMDA will host a public in-person hearing at the CNM workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM, 87113.

Oral comments will be accepted at the hearing from members of the public and any interested parties. Written comments will be accepted until 5:00pm on July 31, 2025. Comments may be submitted via email to comments@nmda.nmsu.edu or may be filed by sending original copies to:

New Mexico Department of Agriculture, Office of Director
MSC 3189, PO Box 30005, 1050 Stewart Street, Las Cruces, NM 88003-8005

Only signed statements, proposals or comments will be accepted. Scanned or electronic signatures conforming to federal and state court requirements will be accepted with the understanding that if there is any dispute regarding a signature, NMDA reserves the right to require that original signatures be provided to verify the electronic or facsimile signature.

SPECIAL NEEDS: If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing or

meeting, pleases contact NMDA at (575) 646-3702 at least one week prior to the meeting or as soon as possible.

The Director will consider all oral comments and will review all timely submitted written comments and responses.



AVISO DE PROPUESTA DE NORMATIVA

POR EL PRESENTE SE COMUNICA que el Departamento de Agricultura de Nuevo México (NMDA) propone derogar y reemplazar la sección 21.34.7. NMAC, TARIFAS DE INSPECCIÓN DE HUEVOS.

PROPÓSITO Y RESUMEN DE LAS NORMAS PROPUESTAS:

Las principales enmiendas propuestas a la reglamentación actual sobre Tarifas de Inspección de Huevos actualizan la tarifa obsoleta que financia las inspecciones y las actividades de licenciamiento de huevos.

La obligación del departamento con los ciudadanos de Nuevo México es garantizar que los huevos vendidos en el estado sean aptos para el consumo humano y estén correctamente etiquetados. El departamento recauda las tarifas de inspección actuales establecidas en la reglamentación para una caja de huevos con cáscara para cumplir con estas obligaciones legales.

El cambio propuesto a la reglamentación seguirá el proceso de derogación y reemplazo, en lugar del proceso de enmienda, para las tarifas sobre los huevos vendidos en Nuevo México al minorista o al consumidor por caja de 30 docenas (Subsección A de la sección 21.34.7.9 NMAC). Estos ajustes son necesarios para compensar el aumento en el costo de los servicios, las licencias y las inspecciones por inflación, así como los ajustes obligatorios a los salarios del personal.

AUTORIDAD ESTATUTARIA: Otorgada a la Junta de Regentes de la Universidad Estatal de Nuevo México en virtud de la Ley de Clasificación de Huevos, Capítulo 25, Artículo 6, Secciones 1 a 16, de los Estatutos Anotados de Nuevo México, Compilación de 1978.

Se pueden descargar copias del Aviso de Propuesta de Normativa y de las normas propuestas (incluida cualquier información técnica) del sitio web del Departamento de Agricultura de Nuevo México (https://nmdeptag.nmsu.edu/) y de las oficinas de distrito y de campo de la agencia.

El martes 29 de julio de 2025 a las 9:00 a.m., el NMDA celebrará una audiencia pública, tanto por videoconferencia como por teléfono, y en persona, en el Auditorio Gerald Thomas Hall (Sala 194) de la Universidad Estatal de Nuevo México, ubicado en College Drive 940, Las Cruces, NM 88003.

Para unirse por videoconferencia a la audiencia del martes 29 de julio de 2025 a las 9:00 a.m.:
URL de la reunión: https://nmsu.zoom.us/j/83992662632
ID de la reunión: 777 178 7960
Código de acceso: 328151
O
Para unirse por teléfono a la audiencia del martes 29 de julio de 2025 a las 9:00 a. m.:
+1 669 900 6833 o +1 719 359 4580
ID de la reunión: 777 178 7960
Código de acceso: 328151

El jueves 31 de julio de 2025 a las 9:00 a.m., el NMDA celebrará una audiencia pública presencial en el Centro de Capacitación Laboral de CNM, ubicado en 5600 Eagle Rock Ave, NE, Albuquerque, NM 87113.

Se aceptarán comentarios orales del público y de cualquier parte interesada. Se aceptarán comentarios escritos hasta las 5:00 p. m. del 31 de julio de 2025. Los comentarios pueden enviarse por correo electrónico a comments@nmda.nmsu.edu o enviarse mediante el envío de copias originales a:

New Mexico Department of Agriculture, Office of Director
MSC 3189, P.O. Box 30005, 1050 Stewart Street, Las Cruces, NM 88003-8005

Solo se aceptarán declaraciones, propuestas o comentarios firmados. Se aceptarán firmas escaneadas o electrónicas que cumplan con los requisitos de los tribunales federales y estatales, en el entendido de que, en caso de disputa con

respecto a una firma, el NMDA se reserva el derecho de exigir la presentación de firmas originales para verificar la firma electrónica o facsímil.

NECESIDADES ESPECIALES: Si usted es una persona con discapacidad que necesita un lector, amplificador, intérprete de lenguaje de señas cualificado o cualquier otro tipo de ayuda o servicio auxiliar para asistir o participar en la audiencia o reunión, comuníquese con el NMDA al (575) 646-3702 al menos una semana antes de la reunión o lo antes posible.

El Director considerará todos los comentarios orales y revisará todos los comentarios y respuestas escritos presentados oportunamente.

Exhibit 3

Statute - Eggs
Chapter 25
Article 6
Sections 1-16

ARTICLE 6 Egg Grading

25-6-1. Short title.
25-6-2. Definitions.
25-6-3. Purpose of the act.
ANNOTATIONS
25-6-4. Labeling, marking and advertising eggs.
25-6-5. Standards for eggs.
25-6-6. Exemptions.
25-6-7. Sale of ungraded eggs.
25-6-8. Enforcement; administration.
ANNOTATIONS
25-6-9. Egg inspection fee.
25-6-10. Payment of the inspection fee.
25-6-11. Powers of the board and department.
25-6-12. Certification of dealers.
25-6-13. Additional violations.
25-6-14. Injunction.
ANNOTATIONS
25-6-15. Seizure and holding of eggs.
25-6-16. Penalties.

ARTICLE 6
Egg Grading

25-6-1. Short title.

This act [25-6-1 to 25-6-16 NMSA 1978] may be cited as the "Egg Grading Act."

History: 1953 Comp., § 54-2-10, enacted by Laws 1963, ch. 138, § 1.

25-6-2. Definitions.

As used in the Egg Grading Act:

A. "egg dealer" includes any person, firm, partnership or corporation that buys eggs directly from the farmers or from any other sources for the purpose of reselling them at wholesale;

B. "cold storage eggs" means eggs which have been in cold storage for thirty days or more and which meet the grades and standards of qualification set by the board of regents of New Mexico state university;

C. "processor" includes any person, firm, partnership or corporation engaged in the process of breaking eggs for drying, freezing or for other purposes;

D. "consumer" means any person, business establishment or institution which changes the condition of the egg in preparation for human consumption;

E. "board" means the board of regents of New Mexico state university, the board controlling the department;

F. "department" means the New Mexico department of agriculture;

Chapter 25 - Inspection

"candling" means the holding of an egg, large end up, before a light shining through an opaque shield with an opening of about one-quarter inch in diameter. Candling is best done in a darkened room, but one may obtain candling devices that may be used in average daylight;

H. "ungraded eggs" means eggs that have not been graded according to quality or weight;

I. "addled" or "white rot" means putrid or rotten;

J. "moldy" means that mold or bacteria has developed in isolated areas within the shell;

K. "black rot" means that the egg has deteriorated to an extent that the whole interior represents a blackened appearance;

L. "blood ring" means that germs have developed to an extent that blood is formed;

M. "stuck yolk" means that the yolk has settled to one side and becomes fastened to the shell; and

N. "incubator reject eggs" means any eggs which have been subjected to heat for the purpose of hatching or for any other purposes whatsoever.

History: 1953 Comp., § 54-2-11, enacted by Laws 1963, ch. 138, § 2; 1973, ch. 116, § 1.

25-6-3. Purpose of the act.

The purpose of the Egg Grading Act is to assure that no person, firm or corporation shall sell or have in his possession with the intent to sell, offer or expose for sale, or traffic in, any egg unfit for human food, unless the same is broken in shell and then denatured so that it cannot be used for human food, if it is or has:

A. addled or white rot;

B. moldy;

C. black rot;

D. blood ring;

E. stuck yolk;

F. sour;

G. green whites;

H. musty; or

I. incubator reject eggs.

History: 1953 Comp., § 54-2-12, enacted by Laws 1963, ch. 138, § 3; 1973, ch. 116, § 2.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 35 Am. Jur. 2d Food § 38.

25-6-4. Labeling, marking and advertising eggs.

It is unlawful:

A. to offer eggs for sale in any newspaper advertisement, circular, radio or other form of advertising without plainly designating in the advertisement the classification as to grade and size to which the eggs being offered for sale properly belong, when price is a factor in the advertisement. The terms "fresh eggs," "strictly fresh eggs," "hennery eggs," "new-laid

eggs or descriptions of similar import shall not be used in connection with the sale or offering for sale or advertising for sale of eggs in New Mexico that do not meet the minimum requirements for the New Mexico grade A eggs or better;

B. to sell eggs by the case without an invoice stating both the correct size and correct grade description accompanying each case of eggs delivered to a retailer or consumer. The invoice shall also include the name and address of both buyer and seller, date of sale and shall otherwise conform to the regulations set forth in the Egg Grading Act. The invoice shall be kept by the receiving dealer for a period of thirty days in case the inspector calls for it;

C. to offer for sale eggs in cartons that do not have the name of the packer or distributor stamped or printed on them; or

D. to sell uncartoned eggs at retail.

History: 1953 Comp., § 54-2-13, enacted by Laws 1963, ch. 138, § 4; 1973, ch. 116, § 3.

25-6-5. Standards for eggs.

The New Mexico consumer grades for eggs shall be as uniform as possible to those standards established by the United States department of agriculture for consumer grades of eggs. The board shall set all standards for shell eggs for New Mexico.

History: 1953 Comp., § 54-2-14, enacted by Laws 1963, ch. 138, § 5.

25-6-6. Exemptions.

The Egg Grading Act shall not apply to any person selling eggs from his own production when produced from a flock of less than three thousand birds, provided they are sold as ungraded.

History: 1953 Comp., § 54-2-15, enacted by Laws 1963, ch. 138, § 6; 1973, ch. 116, § 4.

25-6-7. Sale of ungraded eggs.

A. Retailers may sell the eggs specified in Section 25-6-6 NMSA 1978 to consumers only when such eggs on hand, offered or placed on sale are clearly marked "ungraded." Ungraded eggs shall be cartoned when sold at retail.

B. Any person proposing to sell ungraded eggs shall, prior to any such sale, notify the department in writing of his intent to sell ungraded eggs, specifying his location, the number of laying hens owned or in his possession, the place of production and the general area of the state in which the eggs are to be sold.

C. It is unlawful for any person selling any portion of his daily production as graded eggs to sell any portion thereof as ungraded eggs, except that any person may change his sales from graded to ungraded if he notifies the department in writing prior to such change.

D. It is unlawful for any person selling any portion of his daily production as ungraded eggs to sell any portion thereof as graded eggs, except that any person may change his sales from ungraded to graded eggs if he notifies the department in writing within five days from the date of change.

History: 1953 Comp., § 54-2-16, enacted by Laws 1963, ch. 138, § 7; 1973, ch. 116, § 5.

25-6-8. Enforcement; administration.

The department under the guidance and control of the board shall be responsible for administering and enforcing the provisions of the Egg Grading Act.

History: 1953 Comp., § 54-2-17, enacted by Laws 1973, ch. 116, § 6.

ANNOTATIONS

Repeals and reenactments. — Laws 1973, ch. 116, § 6, repealed 54-2-17, 1953 Comp., relating to enforcement and administration of the Egg Grading Act, and enacted a new section.

25-6-9. Egg inspection fee.

The Egg Grading Act shall be financed in part by the collection of a fee on all eggs sold to the retailer or consumer. The board shall have authority to establish the fee at their discretion, but in no case shall the fee exceed one-half cent per dozen. The fee shall be paid by the egg dealer or producer who packages the eggs for sale to the retailer or consumer. All money collected under the provisions of the Egg Grading Act shall be deposited with the New Mexico state university for the purposes of administering the provisions of that act and promoting the poultry industry and its products, and shall be expended upon the order of the board in the same manner as other funds of the New Mexico state university.

History: 1953 Comp., § 54-2-18, enacted by Laws 1963, ch. 138, § 9; 1973, ch. 116, § 7.

25-6-10. Payment of the inspection fee.

Each egg dealer or producer shall make quarterly reports to the department not later than thirty days after the end of March, June, September and December for the previous quarter showing the number of dozen eggs sold and remitting the fee as established by the board. The department is empowered to audit the required sales record of any person, firm or corporation coming under the provisions of the Egg Grading Act. These records shall be retained for a period of one year. Failure to submit the sales record on request of the department or its authorized agents is a violation of the Egg Grading Act.

Prior to selling eggs in New Mexico the egg producer or egg dealer shall file his intent to sell eggs with the department.

History: 1953 Comp., § 54-2-19, enacted by Laws 1963, ch. 138, § 10; 1973, ch. 116, § 8.

25-6-11. Powers of the board and department.

A. The board is empowered to adopt standards and to prescribe rules and regulations relating to the sale of eggs as it may deem necessary to carry into effect the lawful intent and meaning of the Egg Grading Act. The definitions and rules and regulations when adopted and published by the board shall have the same force as law. Violations of the rules and regulations are subject to the same penalties as violations of the Egg Grading Act; provided, that the board shall before adopting rules or regulations first give notice of the general subject thereof by publication of a notice setting forth the substance of proposed rules or regulations and the date upon which the board will hold a hearing on the proposed rules or regulations. Notification of all proposed rules and regulations shall be mailed directly to all egg producers and dealers registered with the department. Publication shall be made once in a newspaper of general circulation in this state. Persons affected by any proposed regulation shall have the right to present to the board their objections to any proposed regulation or rule prior to its adoption.

B. The department through its authorized inspectors or agents is authorized:

(1) to enter, on any business day, during the usual hours of business, any store, market or any other business or place where eggs are sold or offered for sale under the provisions of the Egg Grading Act in this state; and

(2) to issue and enforce a stop-sale notice or order to the owner or custodian of any lot of eggs which the board or their inspectors or agents find are in violation of the Egg Grading Act or any regulation issued thereunder, which shall prohibit any sale, barter, exchange or distribution of eggs until the inspectors are satisfied that the law has been complied with and have written a release or notice to the owners or custodian of the eggs.

History: 1953 Comp., § 54-2-20, enacted by Laws 1963, ch. 138, § 11; 1973, ch. 116, § 9.

25-6-12. Certification of dealers.

A. A small dealer's license is required of any person, firm or corporation who buys, sells or traffics in more than five cases and less than two hundred cases of eggs in any one week.

B. A medium-sized dealer's license is required of any person, firm or corporation who buys, sells or traffics in over two hundred cases and less than four hundred cases of eggs in any one week.

C. A large dealer's license is required of any person, firm or corporation who buys, sells or traffics in over four hundred cases in any one week.

D. The annual fees for each type of dealer are:

(1) small $10.00

(2) medium $25.00

(3) large $50.00.

E. For the purpose of this section a case shall consist of thirty dozen eggs.

F. All licenses shall be conspicuously posted in the place of business to which they apply. The license is subject to revocation by the inspectors for cause. All licenses issued prior to the effective date of the Egg Grading Act shall expire when the act becomes effective and thereafter all licenses are renewable annually on July 1 of each year and shall expire on June 30 of the succeeding year.

History: 1953 Comp., § 54-2-21, enacted by Laws 1963, ch. 138, § 12; 1973, ch. 116, § 10.

25-6-13. Additional violations.

It is unlawful:

A. for any person, with the exception of New Mexico egg producers, to sell eggs as a dealer unless such a person has obtained from the department a license to be issued at a price, varying according to the type of dealer;

B. for a person to refuse to submit any eggs, containers, lot, load or display of eggs to the inspection of any enforcement officer or to refuse to stop, at the request of any enforcement officer, any vehicle transporting eggs; or

C. for a person having eggs marked in accordance with the delivery invoice to keep the eggs for such time or under such conditions after they are purchased so as to cause them to deteriorate to a lower grade or standard and then offer and expose them for sale under the mark of the original invoice grade or standard.

History: 1953 Comp., § 54-2-22, enacted by Laws 1963, ch. 138, § 13; 1973, ch. 116, § 11.

25-6-14. Injunction.

In addition to the remedies provided in the Egg Grading Act, the department may apply to a district court for an injunction restraining any person from violating or continuing to violate any of the provisions of the Egg Grading Act or from failing or refusing to comply with any rule or regulation promulgated under that act.

History: 1953 Comp., § 54-2-23, enacted by Laws 1963, ch. 138, § 14; 1973, ch. 116, § 12.

ANNOTATIONS

Cross references. — For injunctions, *see* Rule 1-066 NMRA.

25-6-15. Seizure and holding of eggs.

The department may seize or hold as evidence any container of eggs or all or any part of any pack, load, lot consignment or shipment of eggs packed, stored, delivered for shipment, loaded, transported or sold in violation of any provisions of the Egg Grading Act.

History: 1953 Comp., § 54-2-24, enacted by Laws 1963, ch. 138, § 15; 1973, ch. 116, § 13.

25-6-16. Penalties.

A. Any person violating any provisions of the Egg Grading Act or any rule or regulation promulgated by the board or their authorized inspectors is guilty of a misdemeanor and upon conviction thereof shall be imprisoned in the county jail for not more than ninety days, or shall be fined not more than one hundred dollars ($100), or both such fine and imprisonment in the discretion of the court.

B. The licenses of third and subsequent violators may be revoked by the board.

C. In addition to all other fees prescribed by the Egg Grading Act, a penalty fee of ten percent shall be added for delinquent filing of any report or the delinquent paying of any inspection fee, and if the report and payment are not made within ten days of notification of delinquency, penalty shall be twenty-five percent of the inspection fee. Persons filing a false report shall be penalized fifty percent of the amount due for inspection fees.

History: 1953 Comp., § 54-2-25, enacted by Laws 1963, ch. 138, § 16.

Comments-
NONE Received

Egg Inspection Fees Rule Hearing

NEW MEXICO DEPARTMENT OF AGRICULTURE SIGN-IN SHEET

LAS CRUCES, NM

JULY 29, 2025

	NAME	AFFILIATION
1	— NO ATTENDEES —	
2		
3		
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EGGS RULE HEARING

NEW MEXICO DEPARTMENT OF AGRICULTURE

ALBUQUERQUE, NM

JULY 31, 2025

	NAME	AFFILIATION	EMAIL
1	-NO ATTENDEES-		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Board of Regents Meeting **Agenda Item #** F-11
Meeting Date: September 15, 2025
Agenda Item Cover Page

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By:

Jeff M. Witte,
Director/Secretary NMDA

Agenda Item:

Proposed Repeal and Replacement of the Seed Standards Classification Rule, Title 21, Chapter 18, Part 4 of the New Mexico Administrative Code (21.18.4 NMAC)

Requested Action of the Board of Regents:

Approval of Repeal and Replacement of 21.18.4 NMAC, Seed Standards Classification Rule.

Executive Summary:

The New Mexico Department of Agriculture (NMDA) held two hearings regarding the proposed repeal and replacement of 21.18.4 NMAC. On Tuesday, July 29, 2025, at 10 a.m. a public video/telephonic and in-person hearing was held at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM 88003. On Thursday, July 31, 2025, at 11 a.m. an in-person hearing was held at the CNM Workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM 87113.

The Rulemaking Notice was published in the New Mexico Register on June 24, 2025. Notice was provided to the Sunshine Portal, in the Santa Fe New Mexican (both English and Spanish), the Albuquerque Journal, The Las Cruces Sun News, and the NMDA website. Notification and the proposed rule were sent to the New Mexico Economic Development's Small Business Regulatory Advisory Commission and to Legislative Council Service. NMDA has not received findings from either. Notice of public hearings was sent to past seed lab customers.

The hearing officer provided the following information for my consideration. I agree with the hearing officer's recommendation and thereby recommend the following for your consideration.

Hearing Officer's Report
This memorandum serves as a summary of the hearings conducted on July 29 and 31, 2025. The information is presented for your review and to assist you in formulating a recommendation to the New Mexico State University Board of Regents regarding the adoption of the proposed repeal and replacement of the NMDA's Seed Standards Classification Rule, Title 21, Chapter 18, Part 4 of the New Mexico Administrative Code.

The age of the Seed Standards Classification Rule required a repeal and replacement process to address updates to style and format in conjunction with the proposed amendments. Primary proposed amendments to the current Seed Standards and Classifications Rule language updates the fee schedule for testing seeds that support the state seed laboratory for analyzing samples submitted by constituents. The amendments update seed name and scientific names in the prohibited and restricted noxious weed seeds. Lastly, the rule amendments update the germination standards for vegetable seed and methods of sampling, inspecting, analyzing, testing and examination of seed by referencing the Federal Seed act 7 CFR part 201.

Given the level of outreach that occurred to solicit feedback and the absence of any verbal or written comments, my recommendation is that the proposed repeal and replacement of 21.18.4 NMAC be adopted without changes.

References:

Section 76-1-2C NMSA 1978, authorizes the board of regents of New Mexico State University, relative to the New Mexico Department of Agriculture, the authority to adopt and file in compliance with the State Rules Act [Chapter 14, Article 4 NMSA 1978], regulations as may be necessary to carry out its duties.

Prior Approvals:

Agenda Item Approved By:

Each office may determine required signatures (if any). All items should be routed through the President's Office, University General Counsel, or the Secretary of NMDA as appropriate.



_____ ___8/26/2025_____

Jeff M. Witte Date
Director/Secretary

RULEMAKING PACKET- BOARD OF REGENTS

Seed Standards

Official Record

New Mexico Department of Agriculture

Amendment to 21.18.4 NMAC

NMDA Rulemaking Procedures

September 15, 2025

NMDA Rule Making Procedures
21.18.4 NMAC

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Director/Secretary Recommendation Memo

NEW MEXICO DEPARTMENT OF AGRICULTURE
Office of the Director/Secretary
MSC 3189
New Mexico State University
P.O. Box 30005
Las Cruces, NM 88003-8005
Phone: (575) 649-0505

August 25, 2025

MEMORANDUM

TO: New Mexico State University Board of Regents

FROM: Jeff M. Witte, Director/Secretary

SUBJECT: Recommendation to Adopt the Hearing Officer's Recommendation
RE: New Mexico Department of Agriculture Hearings on Proposed Repeal and Replacement of the Seed Standards Classification Rule, Title 21, Chapter 18, Part 4 of the New Mexico Administrative Code (21.18.4 NMAC) (Attached)

BACKGROUND INFORMATION

The New Mexico Department of Agriculture (NMDA) held two hearings regarding the proposed repeal and replacement of 21.18.4 NMAC. On Tuesday, July 29, 2025, at 10 a.m. a public video/telephonic and in-person hearing was held at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM 88003. On Thursday, July 31, 2025, at 11 a.m. an in-person hearing was held at the CNM Workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM 87113.

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The hearing officer provided the following information for my consideration. I agree with the hearing officer's recommendation and thereby recommend the following for your consideration.

HEARING OFFICER'S REPORT

This memorandum serves as a summary of the hearings conducted on July 29 and 31, 2025. The information is presented for your review and to assist you in formulating a recommendation to the New Mexico State University Board of Regents regarding the adoption of the proposed repeal and replacement of the NMDA's Seed Standards Classification Rule, Title 21, Chapter 18, Part 4 of the New Mexico Administrative Code.

The age of the Seed Standards Classification Rule required a repeal and replacement process to address updates to style and format in conjunction with the proposed amendments. Primary proposed amendments to the current Seed Standards and Classifications Rule language updates the fee schedule for testing seeds that support the state seed laboratory for analyzing samples submitted by constituents. The amendments update seed name and scientific names in the prohibited and restricted noxious weed seeds. Lastly, the rule amendments update the germination standards for vegetable seed and methods of sampling, inspecting, analyzing, testing and examination of seed by referencing the Federal Seed act 7 CFR part 201.

Given the level of outreach that occurred to solicit feedback and the absence of any verbal or written comments, my recommendation is that the proposed repeal and replacement of 21.18.4 NMAC be adopted without changes.

Final Replacement for Adoption

TITLE 21 AGRICULTURE AND RANCHING
CHAPTER 18 SEEDS, FEEDS, AND FERTILIZERS
PART 4 SEED STANDARDS AND CLASSIFICATIONS

21.18.4.1 ISSUING AGENCY: New Mexico State University, New Mexico Department of Agriculture
[7/1/1997; 21.18.4.1 NMAC - Rn & A, 21 NMAC 18.4.1, 5/29/2009]
[MSC 3189, Box 30005, Las Cruces, New Mexico 88003-8005, Telephone No. (575) 646-3007]

21.18.4.2 SCOPE: Part 4 shall apply to any person selling commercial seeds in New Mexico.
[7/1/1997; 21.18.4.2 NMAC - Rn, 21 NMAC 18.4.2, 5/29/2009]

21.18.4.3 STATUTORY AUTHORITY: Granted to the board of regents of New Mexico state university under the New Mexico Seed Law, Chapter 76, Article 10, Sections 11 through 22, New Mexico Statutes Annotated 1978 Compilation.
[7/1/1997; 21.18.4.3 NMAC - Rn, 21 NMAC 18.4.3, 5/29/2009]

21.18.4.4 DURATION: Permanent.
[7/1/1997; 21.18.4.4 NMAC - Rn, 21 NMAC 18.4.4, 5/29/2009]

21.18.4.5 EFFECTIVE DATE: July 1, 1997, unless a later date is cited at the end of the history note at the end of a section.
[7/1/1997; 21.18.4.5 NMAC - Rn, 21 NMAC 18.4.5, 5/29/2009]

21.18.4.6 OBJECTIVE: The objective of Part 4 of Chapter 18 is to establish a list of prohibited and restricted noxious weed seeds, set germination standards for vegetable seeds, set tolerances for the testing of seeds, set guidelines for the sampling and testing of seeds, and set fees to be charged for seed testing when done at the request of or for the benefit of persons, firms or individuals, and designate the seed certification agency for New Mexico.
[7/1/1997; 21.18.4.6 NMAC - Rn, 21 NMAC 18.4.6, 5/29/2009]

21.18.4.7 DEFINITIONS: [RESERVED]

21.18.4.8 PROHIBITED NOXIOUS WEED SEEDS: The following weed seeds are declared to be prohibited noxious weed seeds. Seeds containing any of the weed seeds listed herein shall not be sold in New Mexico.

- **A.** ~~Bindweed~~ Field Bindweed (Convolvulus arvensis)
- **B.** Camelthorn (Alhagi camelorum)
- **C.** Halogeton (Halogeton glomeratus)
- **D.** Nutgrass, Purple Nutgrass (Cyperus esculentus, C. rotundus)
- **E.** Poverty Weed ~~(Franseria discolor)~~ (Ambrosia tomentosa)
- **F.** Quackgrass ~~(Agropyron repens)~~ (Elymus repens)
- **G.** Russian Knapweed ~~(Centaurea repens)~~ (Rhaponticum repens)
- **H.** Thistle, Canada (Cirsium arvense)
- **I.** Whitetop ~~(Cardaria draba, C. pubescens)~~ (Cardaria draba)

[7/1/1997; 21.18.4.8 NMAC - Rn, 21 NMAC 18.4.8, 5/29/2009]

21.18.4.9 RESTRICTED NOXIOUS WEED SEEDS: The following weed seeds are declared to be restricted noxious weed seeds. Seeds containing any of the weed seeds listed herein shall not be sold in New Mexico if the number of restricted noxious weed seeds exceeds those established in this section.

	Maximum allowed per pound
dodder (*Cuscuta* spp.)	45
goatgrass (*Aegilops* spp.)	1
Johnsongrass (*Sorghum halepense*) and other perennial sorghums	45

morning glory (*Ipomoea* spp.)	45
Texas blueweed (*Helianthus ciliaris*)	45
white horsenettle (Bullnettle) (*Solanum elaeagnifolium*)	90
wild oat (*Avena fatua*)	90

[7/1/1997; 21.18.4.9 NMAC - Rn, 21 NMAC 18.4.9, 5/29/2009]

21.18.4.10 GERMINATION STANDARDS FOR VEGETABLE SEEDS: The germination standards for vegetable seeds shall be as ~~follows:~~ found in 7 CFR 201.31.

	~~Percent~~		~~Percent~~
~~artichoke~~	~~60~~	~~eggplant~~	~~60~~
~~asparagus~~	~~70~~	~~endive~~	~~70~~
~~asparagus-bean~~	~~75~~	~~kale~~	~~75~~
~~bean, garden~~	~~70~~	~~kale, Chinese~~	~~75~~
~~bean, lima~~	~~70~~	~~kohlrabi~~	~~75~~
~~bean, runner~~	~~75~~	~~leek~~	~~60~~
~~beet~~	~~65~~	~~lettuce~~	~~80~~
~~broadbean~~	~~75~~	~~muskmelon~~	~~75~~
~~broccoli~~	~~75~~	~~mustard~~	~~75~~
~~brussels sprouts~~	~~70~~	~~mustard, spinach~~	~~75~~
~~burdock, great~~	~~60~~	~~okra~~	~~50~~
~~cabbage~~	~~75~~	~~onion~~	~~70~~
~~cabbage, tronchuda~~	~~75~~	~~onion, welsh~~	~~70~~
~~cantaloupe (see muskmelon)~~		~~pak-choi~~	~~75~~
~~cardoon~~	~~60~~	~~parsley~~	~~60~~
~~carrot~~	~~55~~	~~parsnip~~	~~60~~
~~cauliflower~~	~~75~~	~~pea~~	~~80~~
~~celeriac~~	~~55~~	~~pepper~~	~~55~~
~~celery~~	~~55~~	~~pumpkin~~	~~75~~
~~chard, swiss~~	~~65~~	~~radish~~	~~75~~
~~chicory~~	~~65~~	~~rhubarb~~	~~60~~
~~chinese cabbage~~	~~75~~	~~rutabaga~~	~~75~~
~~chives~~	~~50~~	~~salsify~~	~~75~~
~~citron~~	~~65~~	~~sorrel~~	~~65~~
~~collards~~	~~80~~	~~soybean~~	~~75~~
~~corn, sweet~~	~~75~~	~~spinach~~	~~60~~
~~cornsalad~~	~~70~~	~~spinach, New Zealand~~	~~40~~
~~cowpea~~	~~75~~	~~squash~~	~~75~~
~~cress, garden~~	~~75~~	~~tomato~~	~~75~~
~~cress, upland~~	~~60~~	~~tomato, husk~~	~~50~~
~~cress, water~~	~~40~~	~~turnip~~	~~80~~
~~cucumber~~	~~80~~	~~watermelon~~	~~70~~
~~dandelion~~	~~60~~		

[7/1/1997; 21.18.4.10 NMAC - Rn, 21 NMAC 18.4.10, 5/29/2009]

21.18.4.11 METHODS OF SAMPLING AND TESTING: The methods of sampling, inspecting, analyzing, testing, and examining agricultural and vegetable seed shall be the methods adopted by ~~the association of official seed analysts~~ the Federal Seed Act 7 CFR Part 201. Methods of testing seeds for which the Federal Seed Act 7 CFR Part 201~~the association of official seed analysts~~ has not adopted methods of testing shall be determined by the state seed analyst or methods adopted by the association of official seed analysts.
[7/1/1997; 21.18.4.11 NMAC - Rn, 21 NMAC 18.4.11, 5/29/2009]

21.18.4.12 TOLERANCES: Tolerances shall be the applicable tolerances established by the ~~association of official seed analysts~~ the Federal Seed Act 7 CFR Part 201. In the case of prohibited noxious weed seeds, the tolerance shall be based on declaration of "none". In the case of vegetable seed in amounts of one pound or less not labeled as to actual germination, it will be intepreted that vegetable seeds must meet or exceed the minimum germination established by Section 10, germination standards for vegetable seeds.
[7/1/1997; 21.18.4.12 NMAC - Rn, 21 NMAC 18.4.12, 5/29/2009]

21.18.4.13 FEE SCHEDULE FOR SEED TESTING:

A. The following fees shall be charged to persons bringing seed into the laboratory for testing:

	Complete Test	Purity Only	Germ Only	Weed Only
grass seed	~~$20.00~~ $45.00	~~$12.00~~ $24.00	~~$12.00~~ $24.00	~~$6.00~~ $16.00
seed other than grass	~~$10.00~~ $25.00	~~$6.00~~ $15.00	~~$6.00~~ $15.00	~~$6.00~~ $16.00

B. Special charges.

~~TZ~~ Tetrazoleum test for viability	~~$20.00~~ $30.00
~~rush service~~	~~$5.00~~
~~mail purity first~~	~~$1.50~~
~~extra copy~~	~~$1.00~~
~~carry-over vegetable samples submitted in lots of ten or more~~	~~$1.00~~
Vigor/cold test	$25.00

C. Hourly charges. Whenever the seed to be tested is unusually dirty or poses other problems so as not to be routine in its testing, the state seed analyst may elect to charge for the testing at the rate of ~~$10.00~~ $45 per hour for the time involved in testing for purity and/or conducting the germination test, but not to include the time in the germinator. Special testing requests not listed charged at the hourly rate.
[7/1/1997; 21.18.4.13 NMAC - Rn, 21 NMAC 18.4.13, 5/29/2009]

21.18.4.14 SEED CERTIFICATION AGENCY: New Mexico state university seed certification is hereby designated to be the seed certification agency for the state.
[7/1/1997; 21.18.4.14 NMAC - Rn, 21 NMAC 18.4.14, 5/29/2009; A, 01/29/2010]

HISTORY OF 21.18.4 NMAC:
Pre-NMAC History: The material in this part was derived from that previously filed with the State Records Center and Archives under:
NMDA Rule 67-3, Seed Law Regulations, Regulatory Order No. 1, filed 12/5/67.
NMDA Rule 67-3 Amendment No. 1, Seed Lab Fees, Regulatory Order No. 1, Regulation No. 6, filed 5/19/1971.
NMDA Rule 67-3 Amendment No. 2, Seed Lab Fees, Regulatory Order No. 3, filed 9/28/1976.
NMDA Rule 67-6, Seed Certifying Committee, Resolution No. 1, filed 12/26/1967.
NMDA Rule 72-3, Regulatory Order No. 2, Seed Corn Labeling, filed 9/19/1972.
NMDA Rule 86-1, Seed Standards and Classifications, filed 5/14/1986.
NMDA Rule 86-2, Fees for Seed Tests, filed 7/9/1986.

History of Repealed Material: [RESERVED]

Final Amendment in Context

TITLE 21 AGRICULTURE AND RANCHING
CHAPTER 18 SEEDS, FEEDS, AND FERTILIZERS
PART 4 SEED STANDARDS AND CLASSIFICATIONS

21.18.4.1 ISSUING AGENCY: New Mexico State University, New Mexico Department of Agriculture
[7/1/1997; 21.18.4.1 NMAC - Rn & A, 21 NMAC 18.4.1, 5/29/2009]
[MSC 3189, Box 30005, Las Cruces, New Mexico 88003-8005, Telephone No. (575) 646-3007]

21.18.4.2 SCOPE: Part 4 shall apply to any person selling commercial seeds in New Mexico.
[7/1/1997; 21.18.4.2 NMAC - Rn, 21 NMAC 18.4.2, 5/29/2009]

21.18.4.3 STATUTORY AUTHORITY: Granted to the board of regents of New Mexico state university under the New Mexico Seed Law, Chapter 76, Article 10, Sections 11 through 22, New Mexico Statutes Annotated 1978 Compilation.
[7/1/1997; 21.18.4.3 NMAC - Rn, 21 NMAC 18.4.3, 5/29/2009]

21.18.4.4 DURATION: Permanent.
[7/1/1997; 21.18.4.4 NMAC - Rn, 21 NMAC 18.4.4, 5/29/2009]

21.18.4.5 EFFECTIVE DATE: July 1, 1997, unless a later date is cited at the end of the history note at the end of a section.
[7/1/1997; 21.18.4.5 NMAC - Rn, 21 NMAC 18.4.5, 5/29/2009]

21.18.4.6 OBJECTIVE: The objective of Part 4 of Chapter 18 is to establish a list of prohibited and restricted noxious weed seeds, set germination standards for vegetable seeds, set tolerances for the testing of seeds, set guidelines for the sampling and testing of seeds, and set fees to be charged for seed testing when done at the request of or for the benefit of persons, firms or individuals, and designate the seed certification agency for New Mexico.
[7/1/1997; 21.18.4.6 NMAC - Rn, 21 NMAC 18.4.6, 5/29/2009]

21.18.4.7 DEFINITIONS: [RESERVED]

21.18.4.8 PROHIBITED NOXIOUS WEED SEEDS: The following weed seeds are declared to be prohibited noxious weed seeds. Seeds containing any of the weed seeds listed herein shall not be sold in New Mexico.

A. Field Bindweed (Convolvulus arvensis)
B. Camelthorn (Alhagi camelorum)
C. Halogeton (Halogeton glomeratus)
D. Nutgrass, Purple Nutgrass (Cyperus esculentus, C. rotundus)
E. Poverty Weed (Ambrosia tomentosa)
F. Quackgrass (Elymus repens)
G. Russian Knapweed (Rhaponticum repens)
H. Thistle, Canada (Cirsium arvense)
I. Whitetop (Cardaria draba)

[7/1/1997; 21.18.4.8 NMAC - Rn, 21 NMAC 18.4.8, 5/29/2009]

21.18.4.9 RESTRICTED NOXIOUS WEED SEEDS: The following weed seeds are declared to be restricted noxious weed seeds. Seeds containing any of the weed seeds listed herein shall not be sold in New Mexico if the number of restricted noxious weed seeds exceeds those established in this section.

	Maximum allowed per pound
dodder (*Cuscuta* spp.)	45
goatgrass (*Aegilops* spp.)	1
Johnsongrass (*Sorghum halepense*) and other perennial sorghums	45

morning glory (*Ipomoea* spp.)	45
Texas blueweed (*Helianthus ciliaris*)	45
white horsenettle (Bullnettle) (*Solanum elaeagnifolium*)	90
wild oat (*Avena fatua*)	90

[7/1/1997; 21.18.4.9 NMAC - Rn, 21 NMAC 18.4.9, 5/29/2009]

21.18.4.10 GERMINATION STANDARDS FOR VEGETABLE SEEDS: The germination standards for vegetable seeds shall be as found in 7 CFR 201.31.

[7/1/1997; 21.18.4.10 NMAC - Rn, 21 NMAC 18.4.10, 5/29/2009]

21.18.4.11 METHODS OF SAMPLING AND TESTING: The methods of sampling, inspecting, analyzing, testing, and examining agricultural and vegetable seed shall be the methods adopted by the Federal Seed Act 7 CFR Part 201. Methods of testing seeds for which the Federal Seed Act 7 CFR Part has not adopted methods of testing shall be determined by the state seed analyst or methods adopted by the association of official seed analysts.
[7/1/1997; 21.18.4.11 NMAC - Rn, 21 NMAC 18.4.11, 5/29/2009]

21.18.4.12 TOLERANCES: Tolerances shall be the applicable tolerances established by the Federal Seed Act 7 CFR Part 201. In the case of prohibited noxious weed seeds, the tolerance shall be based on declaration of "none". In the case of vegetable seed in amounts of one pound or less not labeled as to actual germination, it will be intepreted that vegetable seeds must meet or exceed the minimum germination established by Section 10, germination standards for vegetable seeds.
[7/1/1997; 21.18.4.12 NMAC - Rn, 21 NMAC 18.4.12, 5/29/2009]

21.18.4.13 FEE SCHEDULE FOR SEED TESTING:

A. The following fees shall be charged to persons bringing seed into the laboratory for testing:

	Complete Test	Purity Only	Germ Only	Weed Only
grass seed	$45.00	$24.00	$24.00	$16.00
seed other than grass	$25.00	$15.00	$15.00	$16.00

B. Special charges.

Tetrazoleum test for viability	$30.00
Vigor/cold test	$25.00

C. Hourly charges. Whenever the seed to be tested is unusually dirty or poses other problems so as not to be routine in its testing, the state seed analyst may elect to charge for the testing at the rate of $45 per hour for the time involved in testing for purity and/or conducting the germination test, but not to include the time in the germinator. Special testing requests not listed charged at the hourly rate.
[7/1/1997; 21.18.4.13 NMAC - Rn, 21 NMAC 18.4.13, 5/29/2009]

21.18.4.14 SEED CERTIFICATION AGENCY: New Mexico state university seed certification is hereby designated to be the seed certification agency for the state.
[7/1/1997; 21.18.4.14 NMAC - Rn, 21 NMAC 18.4.14, 5/29/2009; A, 01/29/2010]

HISTORY OF 21.18.4 NMAC:
Pre-NMAC History: The material in this part was derived from that previously filed with the State Records Center and Archives under:
NMDA Rule 67-3, Seed Law Regulations, Regulatory Order No. 1, filed 12/5/67.
NMDA Rule 67-3 Amendment No. 1, Seed Lab Fees, Regulatory Order No. 1, Regulation No. 6, filed 5/19/1971.
NMDA Rule 67-3 Amendment No. 2, Seed Lab Fees, Regulatory Order No. 3, filed 9/28/1976.
NMDA Rule 67-6, Seed Certifying Committee, Resolution No. 1, filed 12/26/1967.
NMDA Rule 72-3, Regulatory Order No. 2, Seed Corn Labeling, filed 9/19/1972.

NMDA Rule 86-1, Seed Standards and Classifications, filed 5/14/1986.
NMDA Rule 86-2, Fees for Seed Tests, filed 7/9/1986.

History of Repealed Material: [RESERVED]

Hearing Officer Recommendation

NEW MEXICO DEPARTMENT OF AGRICULTURE
Office of the Director/Secretary
MSC 3189
New Mexico State University
P.O. Box 30005
Las Cruces, NM 88003-8005
Phone: (575) 649-0505

August 22, 2025

MEMORANDUM

TO: Director/Secretary Jeff M. Witte

FROM: Les Owen, Deputy Director – Hearing Officer

SUBJECT: Hearing Officer's Report – RE: New Mexico Department of Agriculture Hearings on Proposed Repeal and Replacement of the Seed Standards Classification Rule, Title 21, Chapter 18, Part 4 of the New Mexico Administrative Code (21.18.4 NMAC)

BACKGROUND INFORMATION

The New Mexico Department of Agriculture (NMDA) held two hearings regarding the proposed repeal and replacement of 21.18.4 NMAC. On Tuesday, July 29, 2025, at 10 a.m. a public video/telephonic and in-person hearing was held at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM 88003. On Thursday, July 31, 2025, at 10 a.m. an in-person hearing was held at the CNM Workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM 87113.

The Rulemaking Notice was published in the New Mexico Register on June 24, 2025. Notice was provided to the Sunshine Portal, in the Santa Fe New Mexican (both English and Spanish), the Albuquerque Journal, The Las Cruces Sun News, and the NMDA website. Notification and the proposed rule were sent to the New Mexico Economic Development's Small Business Regulatory Advisory Commission and to Legislative Council Service. NMDA has not received findings from either. Notice of public hearings was sent to past seed lab customers.

The hearing officer provides the following information for consideration by NMDA's director/secretary.

THE RULE and AMENDMENTS TO THE RULE in CONTEXT

TITLE 21 AGRICULTURE AND RANCHING
CHAPTER 18 SEEDS, FEEDS, AND FERTILIZERS
PART 4 SEED STANDARDS AND CLASSIFICATIONS

21.18.4.1 ISSUING AGENCY: New Mexico State University, New Mexico Department of Agriculture
[7/1/1997; 21.18.4.1 NMAC - Rn & A, 21 NMAC 18.4.1, 5/29/2009]
[MSC 3189, Box 30005, Las Cruces, New Mexico 88003-8005, Telephone No. (575) 646-3007]

21.18.4.2 SCOPE: Part 4 shall apply to any person selling commercial seeds in New Mexico.
[7/1/1997; 21.18.4.2 NMAC - Rn, 21 NMAC 18.4.2, 5/29/2009]

21.18.4.3 STATUTORY AUTHORITY: Granted to the board of regents of New Mexico state university under the New Mexico Seed Law, Chapter 76, Article 10, Sections 11 through 22, New Mexico Statutes Annotated 1978 Compilation.
[7/1/1997; 21.18.4.3 NMAC - Rn, 21 NMAC 18.4.3, 5/29/2009]

21.18.4.4 DURATION: Permanent.
[7/1/1997; 21.18.4.4 NMAC - Rn, 21 NMAC 18.4.4, 5/29/2009]

21.18.4.5 EFFECTIVE DATE: July 1, 1997, unless a later date is cited at the end of the history note at the end of a section.
[7/1/1997; 21.18.4.5 NMAC - Rn, 21 NMAC 18.4.5, 5/29/2009]

21.18.4.6 OBJECTIVE: The objective of Part 4 of Chapter 18 is to establish a list of prohibited and restricted noxious weed seeds, set germination standards for vegetable seeds, set tolerances for the testing of seeds, set guidelines for the sampling and testing of seeds, and set fees to be charged for seed testing when done at the request of or for the benefit of persons, firms or individuals, and designate the seed certification agency for New Mexico.
[7/1/1997; 21.18.4.6 NMAC - Rn, 21 NMAC 18.4.6, 5/29/2009]

21.18.4.7 DEFINITIONS: [RESERVED]

21.18.4.8 PROHIBITED NOXIOUS WEED SEEDS: The following weed seeds are declared to be prohibited noxious weed seeds. Seeds containing any of the weed seeds listed herein shall not be sold in New Mexico.

- **A.** ~~Bindweed~~ Field Bindweed (Convolvulus arvensis)
- **B.** Camelthorn (Alhagi camelorum)
- **C.** Halogeton (Halogeton glomeratus)
- **D.** Nutgrass, Purple Nutgrass (Cyperus esculentus, C. rotundus)
- **E.** Poverty Weed ~~(Franseria discolor)~~ (Ambrosia tomentosa)
- **F.** Quackgrass ~~(Agropyron repens)~~ (Elymus repens)
- **G.** Russian Knapweed ~~(Centaurea repens)~~ (Rhaponticum repens)
- **H.** Thistle, Canada (Cirsium arvense)
- **I.** Whitetop ~~(Cardaria draba, C. pubescens)~~ (Cardaria draba)

[7/1/1997; 21.18.4.8 NMAC - Rn, 21 NMAC 18.4.8, 5/29/2009]

21.18.4.9 RESTRICTED NOXIOUS WEED SEEDS: The following weed seeds are declared to be restricted noxious weed seeds. Seeds containing any of the weed seeds listed herein shall not be sold in New Mexico if the number of restricted noxious weed seeds exceeds those established in this section.

	Maximum allowed per pound
dodder (*Cuscuta* spp.)	45

goatgrass (*Aegilops* spp.)	1
Johnsongrass (*Sorghum halepense*) and other perennial sorghums	45
morning glory (*Ipomoea* spp.)	45
Texas blueweed (*Helianthus ciliaris*)	45
white horsenettle (Bullnettle) (*Solanum elaeagnifolium*)	90
wild oat (*Avena fatua*)	90

[7/1/1997; 21.18.4.9 NMAC - Rn, 21 NMAC 18.4.9, 5/29/2009]

21.18.4.10 GERMINATION STANDARDS FOR VEGETABLE SEEDS: The germination standards for vegetable seeds shall be as ~~follows:~~ found in 7 CFR 201.31.

	~~Percent~~		~~Percent~~
~~artichoke~~	~~60~~	~~eggplant~~	~~60~~
~~asparagus~~	~~70~~	~~endive~~	~~70~~
~~asparagus-bean~~	~~75~~	~~kale~~	~~75~~
~~bean, garden~~	~~70~~	~~kale, Chinese~~	~~75~~
~~bean, lima~~	~~70~~	~~kohlrabi~~	~~75~~
~~bean, runner~~	~~75~~	~~leek~~	~~60~~
~~beet~~	~~65~~	~~lettuce~~	~~80~~
~~broadbean~~	~~75~~	~~muskmelon~~	~~75~~
~~broccoli~~	~~75~~	~~mustard~~	~~75~~
~~brussels sprouts~~	~~70~~	~~mustard, spinach~~	~~75~~
~~burdock, great~~	~~60~~	~~okra~~	~~50~~
~~cabbage~~	~~75~~	~~onion~~	~~70~~
~~cabbage, tronchuda~~	~~75~~	~~onion, welsh~~	~~70~~
~~cantaloupe (see muskmelon)~~		~~pak-choi~~	~~75~~
~~cardoon~~	~~60~~	~~parsley~~	~~60~~
~~carrot~~	~~55~~	~~parsnip~~	~~60~~
~~cauliflower~~	~~75~~	~~pea~~	~~80~~
~~celeriac~~	~~55~~	~~pepper~~	~~55~~
~~celery~~	~~55~~	~~pumpkin~~	~~75~~
~~chard, swiss~~	~~65~~	~~radish~~	~~75~~
~~chicory~~	~~65~~	~~rhubarb~~	~~60~~
~~chinese cabbage~~	~~75~~	~~rutabaga~~	~~75~~
~~chives~~	~~50~~	~~salsify~~	~~75~~
~~citron~~	~~65~~	~~sorrel~~	~~65~~
~~collards~~	~~80~~	~~soybean~~	~~75~~
~~corn, sweet~~	~~75~~	~~spinach~~	~~60~~
~~cornsalad~~	~~70~~	~~spinach, New Zealand~~	~~40~~
~~cowpea~~	~~75~~	~~squash~~	~~75~~
~~cress, garden~~	~~75~~	~~tomato~~	~~75~~
~~cress, upland~~	~~60~~	~~tomato, husk~~	~~50~~
~~cress, water~~	~~40~~	~~turnip~~	~~80~~
~~cucumber~~	~~80~~	~~watermelon~~	~~70~~
~~dandelion~~	~~60~~		

[7/1/1997; 21.18.4.10 NMAC - Rn, 21 NMAC 18.4.10, 5/29/2009]

21.18.4.11 METHODS OF SAMPLING AND TESTING: The methods of sampling, inspecting, analyzing, testing, and examining agricultural and vegetable seed shall be the methods adopted by ~~the association of official seed analysts~~ the Federal Seed Act 7 CFR Part 201. Methods of testing seeds for which the Federal Seed Act

7 CFR Part 201~~the association of official seed analysts~~ has not adopted methods of testing shall be determined by the state seed analyst or methods adopted by the association of official seed analysts.
[7/1/1997; 21.18.4.11 NMAC - Rn, 21 NMAC 18.4.11, 5/29/2009]

21.18.4.12 TOLERANCES: Tolerances shall be the applicable tolerances established by the ~~association of official seed analysts~~ the Federal Seed Act 7 CFR Part 201. In the case of prohibited noxious weed seeds, the tolerance shall be based on declaration of "none". In the case of vegetable seed in amounts of one pound or less not labeled as to actual germination, it will be intepreted that vegetable seeds must meet or exceed the minimum germination established by Section 10, germination standards for vegetable seeds.
[7/1/1997; 21.18.4.12 NMAC - Rn, 21 NMAC 18.4.12, 5/29/2009]

21.18.4.13 FEE SCHEDULE FOR SEED TESTING:

A. The following fees shall be charged to persons bringing seed into the laboratory for testing:

	Complete Test	Purity Only	Germ Only	Weed Only
grass seed	~~$20.00~~ $45.00	~~$12.00~~ $24.00	~~$12.00~~ $24.00	~~$6.00~~ $16.00
seed other than grass	~~$10.00~~ $25.00	~~$6.00~~ $15.00	~~$6.00~~ $15.00	~~$6.00~~ $16.00

B. Special charges.

~~TZ~~ Tetrazolium test for viability	~~$20.00~~ $30.00
~~rush service~~	~~$5.00~~
~~mail purity first~~	~~$1.50~~
~~extra copy~~	~~$1.00~~
~~carry-over vegetable samples submitted in lots of ten or more~~	~~$1.00~~
Vigor/cold test	$25.00

C. Hourly charges. Whenever the seed to be tested is unusually dirty or poses other problems so as not to be routine in its testing, the state seed analyst may elect to charge for the testing at the rate of ~~$10.00~~ $45 per hour for the time involved in testing for purity and/or conducting the germination test, but not to include the time in the germinator. Special testing requests not listed charged at the hourly rate.
[7/1/1997; 21.18.4.13 NMAC - Rn, 21 NMAC 18.4.13, 5/29/2009]

21.18.4.14 SEED CERTIFICATION AGENCY: New Mexico state university seed certification is hereby designated to be the seed certification agency for the state.
[7/1/1997; 21.18.4.14 NMAC - Rn, 21 NMAC 18.4.14, 5/29/2009; A, 01/29/2010]

HISTORY OF 21.18.4 NMAC:
Pre-NMAC History: The material in this part was derived from that previously filed with the State Records Center and Archives under:
NMDA Rule 67-3, Seed Law Regulations, Regulatory Order No. 1, filed 12/5/67.
NMDA Rule 67-3 Amendment No. 1, Seed Lab Fees, Regulatory Order No. 1, Regulation No. 6, filed 5/19/1971.
NMDA Rule 67-3 Amendment No. 2, Seed Lab Fees, Regulatory Order No. 3, filed 9/28/1976.
NMDA Rule 67-6, Seed Certifying Committee, Resolution No. 1, filed 12/26/1967.
NMDA Rule 72-3, Regulatory Order No. 2, Seed Corn Labeling, filed 9/19/1972.
NMDA Rule 86-1, Seed Standards and Classifications, filed 5/14/1986.
NMDA Rule 86-2, Fees for Seed Tests, filed 7/9/1986.

History of Repealed Material: [RESERVED]

PUBLIC COMMENT

NMDA did not receive any public comments, verbal or written, regarding the proposed repeal and replacement of 21.34.7 NMAC.

HEARING OFFICER'S CONCLUSION

This memorandum serves as a summary of the hearings conducted on July 29 and 31, 2025. The information is presented for your review and to assist you in formulating a recommendation to the New Mexico State University Board of Regents regarding the adoption of the proposed repeal and replacement of the NMDA's Seed Standards Classification Rule, Title 21, Chapter 18, Part 4 of the New Mexico Administrative Code.

The age of the Seed Standards Classification Rule required a repeal and replacement process to address updates to style and format in conjunction with the proposed amendments. Primary proposed amendments to the current Seed Standards and Classifications Rule language updates the fee schedule for testing seeds that support the state seed laboratory for analyzing samples submitted by constituents. The amendments update seed name and scientific names in the prohibited and restricted noxious weed seeds. Lastly, the rule amendments update the germination standards for vegetable seed and methods of sampling, inspecting, analyzing, testing and examination of seed by referencing the Federal Seed act 7 CFR part 201.

Given the level of outreach that occurred to solicit feedback and the absence of any verbal or written comments, my recommendation is that the proposed repeal and replacement of 21.18.4 NMAC be adopted without changes.

Hearing Transcript- for July 29, 2025

21.18.4 NMAC SEED STANDARDS AND CLASSIFICATIONS RULE RULEMAKING HEARING

Moderated by Les Owen

Tuesday, July 29, 2025

10:00 a.m.

Gerald Thomas Hall Auditorium, New Mexico State University

940 College Drive (Room 194)

Las Cruces, NM 88003

Reported by: Ryan Auten

JOB NO: 7452797

APPEARANCES

List of Attendees:
Les Owen, Deputy Director NMDA
Katie Laney, Assistant Division Director NMDA
Katie Crayton, NMDA Healthy Soil Program via Zoom
Vanessa Fisher, Host

PROCEEDINGS

MR. OWEN: Good morning. At this time, we'll start the hearing that addresses the proposed repeal and replacement of the Seed Standards and Classifications Rule, Title 21, Chapter 18, Part 4 of the New Mexico Administrative Code.

My name is Les Owen, and I am Deputy Director with the New Mexico Department of Agriculture. Today, I will be officiating this hearing.

Please make sure that you have signed in for the record and that your cell phone is off or silenced. Thank you.

Copies of the proposed amendments to the Seed Standards and Classifications Rule were made available in strikethrough version and in include copy form as you walked in.

If you require a copy, please hold up your hand and one will be provided to you. For our virtual participants, electronic copies are available on the department's website at nmdeptag.nmsu.edu.

The day and date is Tuesday, July 29, 2025, and the time is 10:00 a.m. This hearing is being held in person and virtually in New Mexico State University's Gerald Thomas Hall Auditorium, located at

940 College Drive, Las Cruces, New Mexico. This is the published date, time, and location for this hearing.

This hearing is being recorded, and either a transcript of today's hearing or the recording will be available from the department's webpage.

Following a summary of the proposed primary amendments, the public will be provided an opportunity to provide testimony regarding the proposed amendments.

Ms. Laney will now provide a summary of the -- of the public notices, primary proposed amendments to the Seed Standards and Classifications Rule, and any related information.

MS. LANEY: Good morning. I'm Katie Laney, an Assistant Division Director with New Mexico Department of Agriculture.

The Seed Standards and Classification Rule was promulgated under the authority of the New Mexico Seed Law to establish a list of prohibited and restricted noxious weed seeds, set germination standards for vegetable seeds, set tolerances for seed testing of seeds, set guidelines for sampling and testing of seeds, and set fees to be charged for seed

testing when done at the request or for the benefit of a person, firm, or individual.

Public notices for this hearing were published as following and in accordance with state laws: June 24, 2025, in the New Mexico Registrar; June 24, 2025, in the Albuquerque Journal; June 24, 2025, in the New Mexico -- pardon, in the Santa Fe New Mexican in Spanish and English; and June 25, 2025, in the Las Cruces Sun News.

Hearing notices were also posted on the New Mexico Sunshine Portal at the New Mexico Department of Agriculture District Station in Albuquerque and on the New Mexico Department of Agriculture website in Spanish and English.

Copies of the proposed rule were made available at the New Mexico Department of Agriculture's Las Cruces main office and laboratory building, the New Mexico Department of Agriculture Veterinary Diagnostic Service Laboratory in Albuquerque, the New Mexico Department of Agriculture Peanut Grading Station in Portales, and on the department's website.

Notification and the proposed rule were sent to the New Mexico Economic Development Small Business Regulatory Advisory Commission and to the

Legislative Council Service.

As of today, New Mexico Department of Agriculture has not received findings from either. Notice of public hearing was sent to past seed lab customers.

Although the amendments are relatively few, the age of the Seed Classifications and Standard Rule requires a repeal and replacement process to address updates, styles, and format in conjunction with New Mexico Department of Agriculture's proposed amendments.

The primary proposed amendments to the Seed Standards and Classifications Rules include removing the table in section 21.18.4.10 Germination Standards for Vegetable Seeds, and replacing with a reference to the Federal Seed Act; updating section 21.18.4.11 Methods of Sampling, to include reference to the Federal Seed Act and the association of official seed analysts; updating 21.18.4.13 Fee Schedules for Seed Testing, to help offset increased costs of service due to inflation and mandatory adjustments for staff salary.

The last fee adjustment to the section 21.18.4.13 Fee Schedule for Seed Testing was made in 1986.

Proposed seed testing fee increases are as following: for grass seed complete test was at $20 to $45, purity only $12 to $24, germination only $12 to $24, weed seed testing only $6 to $16; for seed other than grass seed complete test $10 to $25, purity only $6 to $15, germination only $6 to $15, weed only $6 to $16; tetrazolium testing for viability $20 to $30; add vigor-cold testing fee for $25; and hourly charges for unusual samples from 10 to $45.

The expected budget revenue for updating 21.18.4.13 NMAC is approximately $42,000 annually as opposed to the annual receipt of approximately $21,000 under the current fee structure.

We compared the cost of five state laboratories including Colorado, Idaho, Nevada, Texas, and Utah. The proposed fees are still below the average of these states but provide budgetary assistance for the seed laboratory operations.

MR. OWEN: Thank you, Ms. Laney.

New Mexico Department of Agriculture has not received any written comments from the public prior to this hearing. However, staff identified that tetrazolium was misspelled in the proposed rule and will be corrected.

We'll now open the floor for comments.

Please begin by stating your name and affiliation for the record. Please raise your hand and wait until I call on you.

At this time, we will begin accepting comments. Please restrict your comments to the proposed content of the rule.

We will now accept comments from virtual participants. Please use the raise your hand function and I will call on you. Please remember to state your name and affiliation for the record.

Is there anyone else wishing to comment? Seeing none, we will close the public oral comment period for this hearing.

Written comments will be accepted until 5:00 p.m., Thursday, July 31, 2025. All public comments will be presented to the Secretary/Director of New Mexico Department of Agriculture, Mr. Jeff Witte, and will be submitted for consideration to the New Mexico State University Board of Regents.

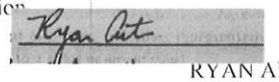
Submitted comments, and either a transcript of today's hearing and/or the recording will be available from the New Mexico Department of Agriculture's webpage.

Thank you for participating. We will close the hearing at 10:08 a.m.

(Whereupon, the meeting concluded at 10:08 a.m.)

CERTIFICATE

I, RYAN AUTEN, the officer before whom the foregoing proceedings were taken, do hereby certify that any witness(es) in the foregoing proceedings, prior to testifying, were duly sworn; that the proceedings were recorded by me and thereafter reduced to typewriting by a qualified transcriptionist; that said digital audio recording of said proceedings are a true and accurate record to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this actio



RYAN AUTEN
Notary Public in and for the
State of New Mexico

CERTIFICATE OF TRANSCRIBER

I, VENUS COLE, do hereby certify that this transcript was prepared from the digital audio recording of the foregoing proceeding, that said transcript is a true and accurate record of the proceedings to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interc action.



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21.18.4.11 6:17
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Hearing Transcript-
for July 31, 2025

New Mexico Department of Agriculture

Seed Standards and Classifications Rule Rulemaking Hearing

Moderated by Les Owen, Deputy Director

Thursday, July 31, 2025

9:59 a.m.

Central New Mexico Community College Workforce Training Center

5600 Eagle Rock Avenue Northeast

Albuquerque, NM 87113

Reported by: James Cogswell

JOB NO: 7452800

A P P E A R A N C E S

List of Attendees:

Les Owen, Deputy Director, New Mexico Department of Agriculture

Katie Laney, Assistant Division Director, New Mexico Department of Agriculture

Uriel Fuentes, Assistant Division Director, New Mexico Department of Agriculture

Steve Baca, Assistant Division Director, New Mexico Department of Agriculture

Candie Sweetser, New Mexico Department of Agriculture

Vanessa Fisher, New Mexico Department of Agriculture

Bradley Lewis, New Mexico Department of Agriculture

PROCEEDINGS

MR. OWEN: Good morning. At this time, we will start the hearing that addresses the proposed repeal and replacement of the Seed Standards and Classifications rule, Title 21, Chapter 18, Part 4 of the New Mexico Administrative Code.

My name is Les Owen, and I am deputy director with the New Mexico Department of Agriculture. Today I will be officiating this hearing. Please make sure that you have signed in for the record and that your cell phone is off or silenced. Thank you.

Copies of the proposed amendments to the Seed Standards and Classifications rule were made available in strikethrough version and in clean copy form as you walked in. If you require a copy, please hold up your hand and one will be provided to you.

The day and date is Thursday, July 31, 2025, and the time is 10 a.m. This hearing is being held in person at the Central New Mexico Community College Workforce Training Center in Albuquerque, New Mexico, 5600 Eagle Rock Avenue Northeast. This is the published date, time, and location for this hearing.

A transcript of today's hearing will be available from the department's webpage. Following a

summary of the proposed primary amendments, the public will be provided an opportunity to provide testimony regarding the proposed amendments.

Ms. Laney will now provide a summary of the public notices, primary proposed amendments to the Seed Standards and the Classifications rule, and any related information.

MS. LANEY: Good morning. I'm Katie Laney, an assistant division director with New Mexico Department of Agriculture. The Seed Standards and Classification rule was promulgated under the authority of the New Mexico Seed Law to establish a list of prohibited and restricted noxious weed seeds, set germination standards for vegetable seeds, set tolerances for seed -- sorry -- set tolerances for testing of seed, set guidelines for the sampling and testing of seeds, and set fees to be charged for seed testing when done at the request or the benefit of a person, firm, or individual.

Public notices for this hearing were established as follows and in accordance with state law: June 24, 2025, in the New Mexico Register; June 24, 2025, in the Albuquerque Journal; June 24, 2025, in New Mexico, Santa Fe -- I'm sorry -- in the Santa Fe New Mexican in Spanish and English; and

June 25, 2025, in the Las Cruces Sun News.

Hearing notices were also posted on New Mexico Sunshine Portal, at the New Mexico Department of Agriculture District Station Office in Albuquerque, and on New Mexico Department of Agriculture's website in Spanish and English.

Copies of the proposed rule were made available at New Mexico Department of Agriculture Las Cruces main office and laboratory building, New Mexico Department of Agriculture Veterinary Diagnostic Service Laboratory in Albuquerque, New Mexico Department of Agriculture Peanut Grading Station in Portales, and on the department's webpage.

Notification and the proposed rule were sent to the New Mexico Economic Development's Small Business Regulatory Advisory Commission and to the Legislative Council Service. As of today, New Mexico Department of Agriculture has not received findings from either. Notice of public hearing was sent to past seed lab customers.

Although the amendments are relatively few, the age of the Seed Certification and Standards rule requires a repeal and replacement process to address updates to standard -- to style and format in conjunction with New Mexico Department of

Agriculture's proposed amendments.

Primary proposed amendments to the Seed Standards and Classification rule include removing the table in Section 21.18.4.10, Germination Standards for Vegetable Seeds, and replacing with reference to the Federal Seed Act; updating Section 21.18.4.11, Methods of Sampling, to include reference to the Federal Seed Act and the Association of Official Seed Analyst; updating 21.18.4.13, Fee Schedules for Seed Testing, to help offset the increased cost of services due to inflation and mandatory adjustments to staff salary.

The last fee adjustment to Section 21.18.4.13, Fee Schedule for Seed Testing, was made in 1986. Proposed seed testing fee increases are for grass seed: complete test, $20 to $45; purity only, $12 to $24; germination only, $12 to $24; weed only, $6 to $16. For seed other than grass: complete test, $10 to 25; purity only, $6 to $15; germination only, $6 to $15; weed only, $6 to $16; tetrazolium test for viability, $20 to $30; add vigor-cold test fee for 25 -- of $25; and hourly charges for unusual samples from $10 to $45.

The expected budget revenue for updating 21.18.4.13 NMAC is approximately $42,000 annually as opposed to the annual receipt of

approximately $21,000 under the current fee structure. We compared the cost in five state laboratories including Colorado, Idaho, Nevada, Texas, and Utah. The proposed fees are still below the average of these states, but provide budgetary assistance for the seed laboratory operations.

MR. OWEN: Thank you, Ms. Laney.

New Mexico Department of Agriculture has not received any written comments from the public prior to this hearing. However, staff identified that tetrazolium was misspelled in the proposed rule and this will be corrected.

We will now open the floor for comments. Please begin by stating your name and affiliation for the record. Please raise your hand and I will call on you. At this time, I will begin accepting comments. Please restrict your comments to the proposed content of the rule.

Is there anyone wishing to comment? Seeing none, we will close the public oral comment period for this hearing. Written comments will be accepted until 5 p.m. Thursday, July 31, 2025. All public comments will be presented to the secretary/director of New Mexico Department of Agriculture, Mr. Jeff Witte, and will be submitted for

consideration to the New Mexico State University Board of Regents.

Submitted comments and either a transcript of today's hearing and/or the recording will be available from the New Mexico Department of Agriculture's webpage.

Thank you for participating. We are closing this hearing at 10:06 a.m.

(Whereupon, at 10:06 a.m., the proceeding was concluded.)

CERTIFICATE

I, JAMES COGSWELL, the officer before whom the foregoing proceedings were taken, do hereby certify that any witness(es) in the foregoing proceedings, prior to testifying, were duly sworn; that the proceedings were recorded by me and thereafter reduced to typewriting by a qualified transcriptionist; that said digital audio recording of said proceedings are a true and accurate record to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

August 14, 2025

JAMES COGSWELL
Notary Public in and for the
State of New Mexico

CERTIFICATE OF TRANSCRIBER

I, RACHEL HUFF, do hereby certify that this transcript was prepared from the digital audio recording of the foregoing proceeding, that said transcript is a true and accurate record of the proceedings to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

August 14, 2025

Rachel L. Huff

RACHEL HUFF

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Exhibits

NOTICE OF PROPOSED RULEMAKING

NOTICE IS HEREBY GIVEN that the New Mexico Department of Agriculture (NMDA), proposes to repeal and replace 21.18.4.1 et. seq. NMAC, SEED STANDARDS AND CLASSIFICATIONS.

PURPOSE AND SUMMARY OF THE PROPOSED RULES:

Primary proposed amendments to the current Seed Standards and Classifications rule language updates the fee schedule for testing seeds that support the state seed laboratory for analyzing samples submitted by constituents. The amendments update seed name and scientific names in the prohibited and restricted noxious weed seeds. Lastly, the rule amendments update the germination standards for vegetable seed and methods of sampling, inspecting, analyzing, testing and examination of seed by referencing the Federal Seed act 7 CFR part 201.

The departments obligation to the citizens of New Mexico is to assure that seeds sold in the state are labeled properly and meet the standards placed upon the label. The current fee schedule set in rule for seed testing by the department to recoup costs of testing and examine samples requested by outside persons or entities from the department.

Proposed rule changes will follow the repeal and replacement process rather than the amendment process for seed standards and classifications. These adjustments are necessary to help offset the increased cost seed testing and analysis for inflation and mandatory adjustments to staff salaries. The proposed changes also clean up the prohibited and noxious weed names and species as well as adopt the Federal Seed Act 7 CFR part 201 for methods of sampling and testing as well as germination standards which clean up the rule.

STATUTORY AUTHORITY: Granted to the Board of Regents of New Mexico State University under the New Mexico Seed Law, Chapter 76, Article 10, Sections 11 through 22, New Mexico Statutes Annotated, 1978 Compilation.

Copies of the Notice of Proposed Rulemaking and proposed rules (including any technical information) are available by electronic download from the New Mexico Department of Agriculture website (https://www.nmda.nmsu.edu) and at agency district and field offices.

Tuesday, July 29 2025 at 10:00 am NMDA will host a public video/telephonic and in-person hearing at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM, 88003.

Join via Video for Tuesday, July 29, 2025, 10:00 am hearing:
Meeting URL: https://nmsu.zoom.us/j/83992662632
Meeting ID: 777 178 7960
Passcode: 328151
Or
Join via Phone for Tuesday, July 29, 2025, 10:00 am hearing:
+1 669 900 6833 or +1 719 359 4580
Meeting ID: 777 178 7960
Passcode: 328151

Thursday, July 31 2025 at 10:00 am NMDA will host a public in-person hearing at the CNM workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM, 87113.

Oral comments will be accepted at the hearing from members of the public and any interested parties. Written comments will be accepted until 5:00pm on July 31, 2025. Comments may be submitted via email to comments@nmda.nmsu.edu or may be filed by sending original copies to:

New Mexico Department of Agriculture, Office of Director
MSC 3189, PO Box 30005, 1050 Stewart Street, Las Cruces, NM 88003-8005

Only signed statements, proposals or comments will be accepted. Scanned or electronic signatures conforming to federal and state court requirements will be accepted with the understanding that if there is any dispute regarding a signature, NMDA reserves the right to require that original signatures be provided to verify the electronic or facsimile signature.

SPECIAL NEEDS: If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing or meeting, please contact NMDA at (575) 646-3702 at least one week prior to the meeting or as soon as possible.

The Director will consider all oral comments and will review all timely submitted written comments and responses.



AVISO DE PROPUESTA DE NORMATIVA

POR EL PRESENTE ANUNCIO SE COMUNICA que el Departamento de Agricultura de Nuevo México (NMDA) propone derogar y reemplazar la sección 21.18.4.1 y siguientes del NMAC, ESTÁNDARES Y CLASIFICACIONES DE SEMILLAS.

PROPÓSITO Y RESUMEN DE LAS NORMAS PROPUESTAS:

Las principales enmiendas propuestas a la normativa actual sobre Estándares y Clasificaciones de Semillas actualizan el programa de tarifas para el análisis de semillas que apoya al laboratorio estatal de semillas en el análisis de las muestras presentadas por los ciudadanos. Las enmiendas actualizan el nombre y los nombres científicos de las semillas de malezas nocivas prohibidas y restringidas. Finalmente, las enmiendas a la normativa actualizan los estándares de germinación para semillas de hortalizas y los métodos de muestreo, inspección, análisis, prueba y examen de semillas, haciendo referencia a la Ley Federal de Semillas, Título 7 del Código de Reglamentos Federales, parte 201.

La obligación del departamento en nombre de los ciudadanos de Nuevo México es garantizar que las semillas vendidas en el estado estén correctamente etiquetadas y cumplan con los estándares establecidos en la etiqueta. El programa actual de tarifas establecido por el departamento para el análisis de semillas busca recuperar los costos de las pruebas y examinar las muestras solicitadas por personas o entidades externas.

Los cambios propuestos a la reglamentación seguirán el proceso de derogación y reemplazo, en lugar del proceso de enmienda para las normas y clasificaciones de semillas. Estos ajustes son necesarios para compensar el aumento en el costo de las pruebas y análisis de semillas debido a la inflación y los ajustes obligatorios en los salarios del personal. Los cambios propuestos también depuran los nombres y especies de malezas prohibidas y nocivas, y adoptan la Ley Federal de Semillas, Título 7 del Código de Reglamentos Federales (CFR), parte 201, para los métodos de muestreo y análisis, así como para las normas de germinación que depuran la reglamentación.

AUTORIDAD ESTATUTARIA: Otorgada a la Junta de Regentes de la Universidad Estatal de Nuevo México en virtud de la Ley de Semillas de Nuevo México, Capítulo 76, Artículo 10, Secciones 11 a 22, de los Estatutos Anotados de Nuevo México, Compilación de 1978.

Se pueden descargar copias del Aviso de Propuesta de Normativa y de las normas propuestas (incluida cualquier información técnica) en el sitio web del Departamento de Agricultura de Nuevo México (https://nmdeptag.nmsu.edu/) y en las oficinas distritales y locales de la agencia.

El martes 29 de julio de 2025 a las 10:00 a.m., el NMDA celebrará una audiencia pública, tanto por videoconferencia como por teléfono, y en persona, en el Auditorio Gerald Thomas Hall (Sala 194) de la Universidad Estatal de Nuevo México, ubicado en College Drive 940, Las Cruces, NM 88003.

Para unirse por videoconferencia a la audiencia del martes 29 de julio de 2025 a las 10:00 a.m.:
URL de la reunión: https://nmsu.zoom.us/j/83992662632
ID de la reunión: 777 178 7960
Código de acceso: 328151
O
Para unirse por teléfono a la audiencia del martes 29 de julio de 2025 a las 10:00 a.m.:
+1 669 900 6833 o +1 719 359 4580
ID de la reunión: 777 178 7960
Código de acceso: 328151

El jueves 31 de julio de 2025 a las 10:00 a.m., el NMDA celebrará una audiencia pública presencial en el Centro de Capacitación Laboral de CNM, ubicado en 5600 Eagle Rock Ave NE, Albuquerque, NM 87113.

Se aceptarán comentarios orales del público y de cualquier parte interesada. Se aceptarán comentarios escritos hasta las 5:00 p. m. del 31 de julio de 2025. Los comentarios pueden enviarse por correo electrónico a comments@nmda.nmsu.edu o enviar copias originales a:

New Mexico Department of Agriculture, Office of Director
MSC 3189, P.O. Box 30005, 1050 Stewart Street, Las Cruces, NM 88003-8005

Solo se aceptarán declaraciones, propuestas o comentarios firmados. Se aceptarán firmas escaneadas o electrónicas que cumplan con los requisitos de los tribunales federales y estatales, en el entendido de que, en caso de disputa con respecto a una firma, el NMDA se reserva el derecho de exigir la presentación de firmas originales para verificar la firma electrónica o facsímil.

NECESIDADES ESPECIALES: Si usted es una persona con discapacidad que necesita un lector, amplificador, intérprete de lenguaje de señas cualificado o cualquier otro tipo de ayuda o servicio auxiliar para asistir o participar en la audiencia o reunión, comuníquese con el NMDA al (575) 646-3702 al menos una semana antes de la reunión o lo antes posible.

El Director considerará todos los comentarios orales y revisará todos los comentarios y respuestas escritos presentados oportunamente.

ARTICLE 10 Seeds

76-10-11. Short title.
76-10-12. Definitions.
76-10-13. Label requirements.
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Statute - Seeds
Chapter 76
Article 10
Sections 11-22

76-10-11. Short title.

This act [76-10-11 to 76-10-22 NMSA 1978] may be cited as the "New Mexico Seed Law."

History: 1953 Comp., § 45-12-20, enacted by Laws 1967, ch. 68, § 1.

76-10-12. Definitions.

As used in the New Mexico Seed Law [76-10-11 to 76-10-22 NMSA 1978]:

A. "person" includes any individual, partnership, corporation, company, society or association;

B. "agricultural seed" includes the seeds of grass, forage, cereal and fiber crops. It shall include any other kinds of seeds commonly recognized within this state as agricultural seeds, lawn seeds and mixtures of such seeds, and may include noxious weed seeds when the board of regents of New Mexico state university determines that such seed is being used as agricultural seed;

C. "vegetable seeds" includes the seeds of those crops which are grown in gardens and on truck farms and are generally known and sold under the name of vegetable seeds in this state;

D. "weed seeds" includes the seeds, bulblets and sporocarps of all plants generally recognized as weeds within this state;

E. "noxious weed seeds" includes prohibited noxious weed seeds and restricted noxious weed seeds;

F. "prohibited noxious weed seeds" are seeds of weeds which, when established, are highly destructive and are not

controlled in this state by the cultural practices commonly used. Such weeds are to be specified by rules and regulations as provided for in this act [76-10-11 to 76-10-22 NMSA 1978];

G. "restricted noxious weed seeds" are the seeds of weeds which are very objectionable in fields, lawns and gardens in this state and are difficult to control by cultural practices commonly used. Such seeds are to be specified by rules and regulations as provided in this act;

H. "labeling" includes all labels, and other written, printed or graphic representations, in any form whatsoever, accompanying or pertaining to any seed whether in bulk or in containers, and includes representations on invoices;

I. "advertisement" means all representations, other than those on the label, disseminated in any manner or by any means, relating to seed within the scope of this act;

J. "record" includes all information relating to the shipment or shipments involved and includes a file sample of each lot of seed;

K. "stop sale" means an administrative order provided by law, restraining the sale, use, disposition and movement of a definite amount of seed;

L. "seizure" means a legal process carried out by court order against a definite amount of seed;

M. "kind" means one or more related species or subspecies which singly or collectively is known by one common name, for example, corn, oats, alfalfa and timothy;

N. "variety" means a subdivision of a kind characterized by growth, yield, plant, fruit, seed or other characteristics, by which it can be differentiated from other plants of the same kind;

O. "lot" means a definite quantity of seed identified by a lot number or other mark, every portion or bag of which is uniform within recognized tolerances for the factors which appear in the labeling;

P. "hybrid" means the first generation seed of a cross produced by controlling the pollination and by combining:

(1) two or more inbred lines;

(2) one inbred or a single cross with an open-pollinated variety; or

(3) two varieties or species, except open-pollinated varieties of corn (Zea mays). The second generation and subsequent generations from such crosses shall not be regarded as hybrids. Hybrid designations shall be treated as variety names;

Q. "pure seed," "germination" and other seed labeling and testing terms in common usage shall be defined as in the rules for seed testing published by the association of official seed analysts, effective July 1, 1955, and as subsequently amended;

R. "type" means a group of varieties so nearly similar that the individual varieties cannot be clearly differentiated except under special conditions;

S. "treated" means that the seed has received an application of a substance, or that the seed has been subjected to a process for which a claim is made;

T. a "private hearing" may consist of a discussion of facts between the person charged and the enforcement officer; and

U. "board" means the board of regents of New Mexico state university.

History: 1953 Comp., § 45-12-21, enacted by Laws 1967, ch. 68, § 2.

76-10-13. Label requirements.

Each container of agricultural and vegetable seed which is sold, offered for sale, or exposed for sale, or transported within this state for sowing purposes shall bear thereon or have attached thereto in a conspicuous place a plainly written or printed label or tag in the English language, giving the following information, which statement shall not be modified or

described in the labeling or on a label attached to the container.

A. For all seeds named and treated as defined in this act [76-10-11 to 76-10-22 NMSA 1978], for which a separate label may be used:

(1) a word or statement indicating that the seed has been treated;

(2) the commonly accepted coined, chemical or abbreviated chemical name of the applied substance or description of the process used;

(3) if the substance in the amount present with the seed is harmful to human or other vertebrate animals a caution statement such as "Do not use for food or feed or oil purposes." The caution for mercurials and similarly toxic substances shall be a poison statement or symbol;

(4) if the seed is treated with an inoculant, the date beyond which the inoculant is not to be considered effective, the date of expiration.

B. For agricultural seeds, except for grass seed mixtures as provided in Subsection C:

(1) commonly accepted name of the kind and the variety, or kind and the phrase "variety not stated" for each agricultural seed component in excess of 5 [five] percent of the whole and the percentage by weight of each in order of its predominance. When more than one component is required to be named, the word "mixture" or the word "mixed" shall be shown conspicuously on the label;

(2) lot number or other lot identification;

(3) origin, state or foreign country, if known, of alfalfa, red clover, range grass seed and field corn, except hybrid corn. If the origin is unknown, the fact shall be stated;

(4) percentage by weight of all weed seeds;

(5) the name and rate of occurrence per pound of each kind of restricted noxious weed seed present;

(6) percentage by weight of agricultural seeds, which may be designated as "crop seeds," other than those required to be named on the label;

(7) percentage by weight of inert matter; and

(8) for each named agricultural seed:

(a) percentage of germination, exclusive of hard seed;

(b) percentage of hard seeds, if present; and

(c) the calendar month and year the test was completed to determine such percentages.

Following Subparagraphs (a) and (b) the "total germination" and "hard seed" may be stated as such, if desired; and

(9) name and address of the person who labeled said seed, or who sells, offers or exposes said seed for sale within this state.

C. For seed mixtures for lawn and turf purposes in containers of fifty pounds or less:

(1) the word "Mixed" or "Mixture";

(2) the headings "Fine-Textured Grasses" and "Coarse Kinds" and thereunder in tabular form in type no larger than the heading:

(a) commonly accepted name, in order of its predominance, of the kind, or kind and variety of each agricultural seed present in excess of five percent of the whole and determined to be a "fine-textured grass" or a "coarse kind" in accordance with the rules and regulations under this act;

(b) percentage by weight of pure seed of each agricultural seed named;

(c) for each agricultural seed named under Subparagraph (a) above, (1) percentage of germination, exclusive of hard seed, (2) percentage of hard seed, if present, (3) calendar month and year the test was completed to determine such percentage;

(3) the heading "Other Ingredients" and thereunder in type no larger than the heading:

(a) percentage by weight of all weed seeds;

(b) percentage by weight of all agricultural seeds other than those stated under Paragraph (2) (a);

(c) percentage by weight of inert matter;

(4) lot number or other lot identification;

(5) name and rate of occurrence per pound of each kind of restricted noxious weed seed present;

(6) name and address of the person who labeled said seed, or who sells, offers or exposes said seed for sale within this state; and

(7) net weight.

D. For vegetable seeds in containers of one pound or less:

(1) name of kind and variety of seed;

(2) for seeds which germinate less than the standard last established by the board under this act:

(a) percentage of germination, exclusive of hard seed;

(b) percentage of hard seed, if present;

(c) the calendar month and year the test was completed to determine such percentages; and

(d) the words "Below Standard" in not less than 8-point type; and

(3) name and address of the person who labeled said seed, or who sells, offers or exposes said seed for sale within this state.

E. For vegetable seeds in containers of more than one pound:

(1) the name of each kind and variety present in excess of five percent and the percentage by weight of each in order of its predominance;

(2) lot number or other lot identification;

(3) for each named vegetable seed:

(a) the percentage of germination, exclusive of hard seed;

(b) the percentage of hard seed, if present;

(c) the calendar month and year the test was completed to determine such percentages.

Following Subparagraphs (a) and (b) the "total germination and hard seed" may be stated as such, if desired;

(4) name and address of the person who labeled said seed, or who sells, offers or exposes said seed for sale within this state; and

(5) the labeling requirements for vegetable seeds in containers of more than one pound shall be deemed to have been met if the seed is weighed from a properly labeled container in the presence of the purchaser.

History: 1953 Comp., § 45-12-22, enacted by Laws 1967, ch. 68, § 3.

ANNOTATIONS

Bracketed material. — The bracketed material was inserted by the compiler and is not part of the law.

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 55.

3 C.J.S. Agriculture §§ 65, 66.

76-10-14. Prohibitions.

A. It is unlawful for any person to sell, offer for sale, expose for sale or to transport for sale any agricultural or vegetable seed within this state:

(1) unless the test to determine the percentage of germination required by Section 2 [76-10-12 NMSA 1978] shall have been completed within a nine-month period, exclusive of the calendar month in which the test was completed, immediately prior to sale, exposure for sale or offering for sale or transportation; provided, the board may set a different period if after hearing it is found advisable to do so;

(2) not labeled in accordance with the provisions of this act [76-10-11 to 76-10-22 NMSA 1978], or having a false or misleading labeling;

(3) pertaining to which there has been a false or misleading advertisement;

(4) consisting of or containing prohibited noxious weed seeds, subject to recognized tolerances;

(5) consisting of or containing restricted noxious weed seeds per pound in excess of the number prescribed by rules and regulations promulgated under this act, or in excess of the number declared on the label attached to the container of the seed or associated with the seed;

(6) containing more than two and one-half percent by weight of all weed seeds; and

(7) if any labeling, advertising or other representations subject to this act represents the seed to be certified or registered seed unless:

(a) it has been determined by a seed certifying agency that such seed was produced, processed and packaged, and conforms to standards of purity as to kind or variety, in compliance with rules and regulations of such agency pertaining to such seed; and

(b) the seed bears an official label issued for such seed by a seed certifying agency stating that the seed is certified or registered.

B. It is unlawful for any person within this state:

(1) to detach, alter, deface or destroy any label provided for in this act or the rules and regulations made and promulgated thereunder, or to alter or substitute seed in a manner that may defeat the purpose of this act;

(2) to disseminate any false or misleading advertisements concerning agricultural or vegetable seeds in any manner or by any means;

(3) to hinder or obstruct in any way, any authorized person in the performance of his duties under this act;

(4) to fail to comply with a "stop sale" order or to move or otherwise handle or dispose of any lot of seed held under a "stop sale" order, except with express permission of the enforcing officer, and for the purpose specified thereby;

(5) to use the word "trace" as substitute for any statement which is required; and

(6) to use the word "type" in any labeling in connection with the name of any agricultural seed variety.

History: 1953 Comp., § 45-12-23, enacted by Laws 1967, ch. 68, § 4.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 55.

3 C.J.S. Agriculture §§ 65, 66.

76-10-15. Records.

Each person whose name appears on the label as handling agricultural or vegetable seed subject to this act [76-10-11 to 76-10-22 NMSA 1978] shall keep for a period of two years complete records of each lot of agricultural or vegetable seed handled and keep for one year a file sample of each lot of seed after final disposition of said lot. All such records and samples pertaining to the shipment or shipments involved shall be accessible for inspection by the board or its agents during customary business hours.

History: 1953 Comp., § 45-12-24, enacted by Laws 1967, ch. 68, § 5.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 55.

3 C.J.S. Agriculture §§ 65 to 67.

76-10-16. Exemptions.

A. The provisions of Sections 3 and 4 [76-10-13, 76-10-14 NMSA 1978] do not apply:

(1) to seed or grain not intended for sowing purposes;

(2) to seed in storage in, or being transported or consigned to, a cleaning or processing establishment for cleaning or processing; provided, that the invoice or labeling accompanying any shipment of said seed bears the statement "seed for processing" and provided that any labeling or other representation which may be made with respect to the uncleaned or unprocessed seed shall be subject to this act [76-10-11 to 76-10-22 NMSA 1978]; and

(3) to any carrier in respect to any seed transported or delivered for transportation in the ordinary course of its business as a carrier; provided, that such carrier is not engaged in producing, processing or marketing agricultural or vegetable seeds subject to the provisions of this act; and

(4) to seed or grain sold by the grower on his farm as uncleaned, untested and unprocessed.

B. No person shall be subject to the penalties of this act for having sold or offered or exposed for sale agricultural or vegetable seed, which were incorrectly labeled or represented as to kind, variety, type or origin which seeds cannot be identified by examination thereof, unless he has failed to obtain an invoice, genuine grower's declaration or other labeling information and to take such other precautions as may be reasonable to insure the identity to be that stated.

History: 1953 Comp., § 45-12-25, enacted by Laws 1967, ch. 68, § 6.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 55.

3 C.J.S. Agriculture § 65.

76-10-17. Seed certification.

A. The certification agency for New Mexico shall be named by a committee consisting of the director or associate

director of the agricultural extension service, the director or associate director of the agricultural experiment station, the ... extension agronomist, the experiment station agronomist and the director of the New Mexico department of agriculture of the New Mexico state university; provided that the committee shall have the authority to designate any other competent or qualified individual or individuals to serve as members of the committee. The certifying agency so named shall have the authority to establish standards and rules and regulations for certification; such standards, rules and regulations to be subject to the approval of the above committee. The certifying agency so named shall also have the authority to fix and charge fees for certification services, and may retain fees collected as payment for its services.

B. Any labeling, advertisement or other representation, either orally or in writing, subject to this act [76-10-11 to 76-10-22 NMSA 1978] which represents any seed, tubers or plants to be used for seeding purposes as certified, registered or foundation shall be deemed to be false unless such seeds, tubers or plants:

(1) if produced in New Mexico, have been produced, processed and packaged and conform to the standards of purity as to kind or variety, in compliance with the rules and regulations set forth by the New Mexico certifying agency and bear the official label of this agency, stating that the seed, tubers or plants are certified, registered or foundation; or

(2) if produced in another state or country, bear the official label of the certifying agency of that state or country stating that the seed, tubers or plants are certified, registered or foundation.

C. All requirements of this act shall be understood to apply to certified seed in the same force as they apply to other agricultural or vegetable seeds. In addition, compliance with the standards of the certification agency may be considered in determining whether seed bearing a certified, registered or foundation label is falsely labeled.

History: 1953 Comp., § 45-12-26, enacted by Laws 1967, ch. 68, § 7.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 C.J.S. Agriculture § 65.

76-10-18. Duties and authority of board or its agents.

A. The duty of enforcing this act [76-10-11 to 76-10-22 NMSA 1978] and carrying out its provision and requirements is vested in the board of regents of New Mexico state university. It is the duty of the board or its authorized agents:

(1) to sample, inspect, make analysis of and test agricultural and vegetable seeds transported, sold or offered or exposed for sale within the state for sowing purposes, at such time and place and to such extent as may be deemed necessary to determine whether said agricultural or vegetable seeds are in compliance with provisions of this act, and to notify promptly the person who transported, sold, offered or exposed the seed for sale, of any violation;

(2) to prescribe and adopt rules and regulations governing the method of sampling, inspecting, analyzing, testing and examining agricultural and vegetable seed, and the tolerances to be followed in the administration of this act, which shall be in general accord with officially prescribed practice in interstate commerce, and such other rules and regulations as may be necessary to secure the efficient enforcement of this act;

(3) to prescribe and, after public hearing following due public notice, establish, add to or subtract therefrom by regulations a prohibited or restricted noxious weed list; and

(4) to prescribe and, after public hearing following due public notice, to adopt rules and regulations establishing reasonable standards of germination for vegetable seeds.

B. Further, for the purpose of carrying out the provisions of this act, the board or its authorized agent is authorized:

(1) to enter upon any public or private premises during regular business hours in order to have access to seeds and the records connected therewith subject to the act and the rules and regulations thereunder, and any truck or other conveyor by land, water or air at any time when the conveyor is accessible, for the same purpose;

(2) to issue and enforce a written or printed "stop sale" order to the owner or custodian of any lot of agricultural or vegetable seed which the board or its agents finds is in violation of any of the provisions of this act or rules and regulations promulgated thereunder, which order shall prohibit further sale, processing and movement of such seed, except upon approval of [the] enforcing officer, until such officer has evidence that the law has been complied with, and he has

issued a release from the stop sale order of such seed, provided that in respect to seed which has been denied sale, processing and movement as provided in this paragraph, the owner or custodian of such seed shall have the right to appeal from said order to a court of competent jurisdiction in the locality in which the seeds are found, praying for a judgment as to the justification of such order and for the discharge of such seed from the order prohibiting the sale, processing and movement in accordance with the findings of the court; and provided further, that the provisions of this paragraph shall not be construed as limiting the right of the enforcement officer to proceed as authorized by other sections of this act;

(3) to establish and maintain or make provisions for seed testing facilities, to employ qualified persons and to incur such expense as may be necessary to comply with these provisions;

(4) to make or provide for making purity and germination tests of seed for farmers and dealers on request; to prescribe rules and regulations governing such testing; and to fix and collect charges for the test made. Fees collected will be deposited in the comptroller's office at New Mexico state university, to be expended in enforcing this act, at the discretion of the board; and

(5) to cooperate with the United States department of agriculture and other agencies in seed law enforcement.

History: 1953 Comp., § 45-12-27, enacted by Laws 1967, ch. 68, § 8.

ANNOTATIONS

Bracketed material. — The bracketed material was inserted by the compiler and is not part of the law.

Law reviews. — For article, "Constitutional Limitations on the Exercise of Judicial Functions by Administrative Agencies," see 7 Nat. Resources J. 599 (1967).

Am. Jur. 2d, A.L.R. and C.J.S. references. — 15A Am. Jur. 2d Colleges and Universities §§ 5, 10, 11.

14A C.J.S. Colleges and Universities § 17.

76-10-19. Seizure.

Any lot of agricultural or vegetable seed not in compliance with the provisions of this act [76-10-11 to 76-10-22 NMSA 1978] shall be subject to seizure on complaint of the board or its agents to a court of competent jurisdiction in the locality in which the seed is located. In the event the court finds the seed to be in violation of this act and orders the condemnation of said seed, it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of this state; provided, that in no instance shall the court order such disposition of said seed without first having given the claimant an opportunity to apply to the court for the release of said seed or permission to process or relabel it to bring it into compliance with this act.

History: 1953 Comp., § 45-12-28, enacted by Laws 1967, ch. 68, § 9.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 55.

3 C.J.S. Agriculture § 66.

76-10-20. Injunction.

When in the performance of his [its] duties the board or its agent applies to any court for a temporary or permanent injunction restraining any person from violating or continuing to violate any of the provisions of this act [76-10-11 to 76-10-22 NMSA 1978] or any rules and regulations under this act, said injunction is to be issued without bond.

History: 1953 Comp., § 45-12-29, enacted by Laws 1967, ch. 68, § 10.

ANNOTATIONS

Bracketed material. — The bracketed material was inserted by the compiler and is not part of the law.

Cross references. — For injunctions, *see* Rule 1-066 NMRA.

76-10-21. Violations and prosecutions.

Every violation of the provisions of this act [76-10-11 to 76-10-22 NMSA 1978], and every violation of any rules and regulations promulgated under this act, after a notice to cease and desist, shall be deemed a misdemeanor punishable by a fine not exceeding one hundred dollars ($100) for the first offense and not exceeding two hundred fifty dollars ($250) for each subsequent similar offense.

When the board or its agent shall find that any person has violated any of the provisions of this act, they or their duly authorized agent or agents may institute proceedings in a court of competent jurisdiction in the county in which the violation occurred, to have such person convicted therefor. The board or its agents may file with the district attorney in each district, with a view of [toward] prosecution, such evidence as may be deemed necessary; provided, however, that no prosecution under this act shall be instituted without the defendant first having been given an opportunity to appear before the board or its agents to introduce evidence either in person or by agent or attorney at a private hearing. If, after hearing, or without such hearing in case the defendant or his agent or attorney fails or refuses to appear, the board or its agents is of the opinion that the evidence warrants prosecution, he shall proceed as herein provided.

It is the duty of the district attorney in each district to institute proceedings at once against any person charged with a violation of this act, if, in the judgment of such officer the information submitted warrants such action.

After judgment by the court in any case arising under this act, the board or its agent shall publish any information pertinent to the issuance of the judgment by the court in such media as he [it] may designate from time to time.

History: 1953 Comp., § 45-12-30, enacted by Laws 1967, ch. 68, § 11.

ANNOTATIONS

Bracketed material. — The bracketed material was inserted by the compiler and is not part of the law.

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 C.J.S. Agriculture § 66.

76-10-22. Appropriation.

The legislature shall appropriate to the New Mexico state university annually the amount necessary, out of the moneys of the state, except moneys reserved for the payment of the public debt, for the purpose of complying with this act [76-10-11 to 76-10-22 NMSA 1978] and to fulfill and carry out its purposes.

History: 1953 Comp., § 45-12-31, enacted by Laws 1967, ch. 68, § 12.

Comments-
NONE Received

Sign-In Sheet

SEED STANDARDS RULE HEARING

NEW MEXICO DEPARTMENT OF AGRICULTURE

LAS CRUCES, NM

JULY 29, 2025

	NAME	AFFILIATION
	— NO ATTENDEES —	

SEED STANDARDS RULE HEARING

NEW MEXICO DEPARTMENT OF AGRICULTURE

ALBUQUERQUE, NM

JULY 31, 2025

	NAME	AFFILIATION	EMAIL
1	-NO ATTENDEES-		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Board of Regents Meeting **Agenda Item #** F-12
Meeting Date: September 15, 2025
Agenda Item Cover Page

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By:

Jeff M. Witte,
Director/Secretary NMDA

Agenda Item:

Proposed Repeal and Replacement of the Pesticide Rule, Title 21, Chapter 17, Part 50 of the New Mexico Administrative Code (21.17.50 NMAC)

Requested Action of the Board of Regents:

Approval of Repeal and Replacement of 21.17.50 NMAC, Pesticide Rule.

Executive Summary:

The New Mexico Department of Agriculture (NMDA) held two hearings regarding the proposed repeal and replacement of 21.17.50 NMAC. On Tuesday, July 29, 2025, at 11 a.m. a public video/telephonic and in-person hearing was held at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM 88003. On Thursday, July 31, 2025, at 11 a.m. an in-person hearing was held at the CNM Workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM 87113.

The Rulemaking Notice was published in the New Mexico Register on June 24, 2025. Notice was provided to the Sunshine Portal, in the Santa Fe New Mexican (both English and Spanish), the Albuquerque Journal, The Las Cruces Sun News, and the NMDA website. Notification and the proposed rule were sent to the New Mexico Economic Development's Small Business Regulatory Advisory Commission and to Legislative Council Service. NMDA has not received findings from either. Notice of public hearings was also sent to pesticide licensed individuals and businesses impacted by the amendments; to the Pest Management Association, a state industry organization representing licensed pesticide applicators; and to the Household Consumer Product Association, a national industry organization representing pesticide manufacturers.

The hearing officer provided the following information for my consideration. I agree with the hearing officer's recommendation and thereby recommend the following for your consideration.

Hearing Officer's Report
This memorandum serves as a summary of the hearings conducted on July 29 and 31, 2025. The information is presented for your review and to assist you in formulating a recommendation to the New Mexico State University Board of Regents regarding the

adoption of the proposed repeal and replacement of the NMDA's Pesticide Rule, Title 21, Chapter 17, Part 50 of the New Mexico Administrative Code.

The age of the Pesticide Rule required a repeal and replacement process to address updates to style and format in conjunction with the proposed amendments. Principal proposed rule amendments remove three unwarranted definitions (Subsections C, E and Y of 21.17.50.7 NMAC); revises expiration dates for pesticide registration and pesticide applicator licenses from December 31 to January 31 (Subsections A et. seq. of 21.17.50.9 NMAC); updates 15-year-old annual licensing fees for pesticide dealers, pest management consultants, commercial applicators, non-commercial applicators, pesticide operators and private applicators (Subsection B through G of 21.17.50.25 NMAC); and updates the 2010 pesticide registration and examination fees (Subsection A and I of 21.17.50.25 NMAC).

While there was initial opposition to the proposed change in pesticide license expiration date, stakeholder groups including the New Mexico Crop Production Association, New Mexico Pest Management Association, and Household & Commercial Products Association expressed support for the proposed changes to 21.17.50 NMAC after NMDA Pesticide Program staff explained how the changes would be implemented and allayed their concerns. My recommendation is that the proposed repeal and replacement of 21.17.50 NMAC be adopted without changes.

References:

Section 76-1-2C NMSA 1978, authorizes the board of regents of New Mexico State University, relative to the New Mexico Department of Agriculture, the authority to adopt and file in compliance with the State Rules Act [Chapter 14, Article 4 NMSA 1978], regulations as may be necessary to carry out its duties.

Prior Approvals:

Agenda Item Approved By:

Each office may determine required signatures (if any). All items should be routed through the President's Office, University General Counsel, or the Secretary of NMDA as appropriate.



_____ ___8/26/2025_____

Jeff M. Witte Date
Director/Secretary

RULEMAKING PACKET- BOARD OF REGENTS

Pesticides

Official Record

New Mexico Department of Agriculture

Amendment to 21.17.50 NMAC

NMDA Rulemaking Procedures

September 15, 2025

NMDA Rule Making Procedures
21.17.50 NMAC

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NMDA

Director/Secretary Recommendation Memo

NEW MEXICO DEPARTMENT OF AGRICULTURE
Office of the Director/Secretary
MSC 3189
New Mexico State University
P.O. Box 30005
Las Cruces, NM 88003-8005
Phone: (575) 649-0505

August 25, 2025

MEMORANDUM

TO: New Mexico State University Board of Regents

FROM: Jeff M. Witte, Director/Secretary

SUBJECT: Recommendation to Adopt the Hearing Officer's Recommendation RE: New Mexico Department of Agriculture Hearings on Proposed Repeal and Replacement of the Pesticide Rule, Title 21, Chapter 17, Part 50 of the New Mexico Administrative Code (21.17.50 NMAC) (Attached)

BACKGROUND INFORMATION

The New Mexico Department of Agriculture (NMDA) held two hearings regarding the proposed repeal and replacement of 21.17.50 NMAC. On Tuesday, July 29, 2025, at 11 a.m. a public video/telephonic and in-person hearing was held at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM 88003. On Thursday, July 31, 2025, at 11 a.m. an in-person hearing was held at the CNM Workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM 87113.

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The hearing officer provided the following information for my consideration. I agree with the hearing officer's recommendation and thereby recommend the following for your consideration.

HEARING OFFICER'S REPORT

This memorandum serves as a summary of the hearings conducted on July 29 and 31, 2025. The information is presented for your review and to assist you in formulating a recommendation to the New Mexico State University Board of Regents regarding the adoption of the proposed repeal and replacement of the NMDA's Pesticide Rule, Title 21, Chapter 17, Part 50 of the New Mexico Administrative Code.

The age of the Pesticide Rule required a repeal and replacement process to address updates to style and format in conjunction with the proposed amendments. Principal proposed rule amendments remove three unwarranted definitions (Subsections C, E and Y of 21.17.50.7 NMAC); revises expiration dates for pesticide registration and pesticide applicator licenses from December 31 to January 31 (Subsections A et. seq. of 21.17.50.9 NMAC); updates 15-year-old annual licensing fees for pesticide dealers, pest management consultants, commercial applicators, non-commercial applicators, pesticide operators and private applicators (Subsection B through G of 21.17.50.25 NMAC); and updates the 2010 pesticide registration and examination fees (Subsection A and I of 21.17.50.25 NMAC).

While there was initial opposition to the proposed change in pesticide license expiration date, stakeholder groups including the New Mexico Crop Production Association, New Mexico Pest Management Association, and Household & Commercial Products Association expressed support for the proposed changes to 21.17.50 NMAC after NMDA Pesticide Program staff explained how the changes would be implemented and allayed their concerns. My recommendation is that the proposed repeal and replacement of 21.17.50 NMAC be adopted without changes.

Final Replacement for Adoption

TITLE 21 AGRICULTURE AND RANCHING
CHAPTER 17 PEST, DISEASE, AND WEED CONTROL
PART 50 PESTICIDES

21.17.50.1 ISSUING AGENCY: New Mexico State University, New Mexico Department of Agriculture
[7/1/1997; 21.17.50.1 NMAC - Rn, 21 NMAC 17.50.1, 11/30/2005; A, 5/29/2009]
[MSC 3189, Box 30005, Las Cruces, New Mexico 88003-8005, Telephone No. (575) 646-3007.]

21.17.50.2 SCOPE: Part 50 shall apply to all persons regulated under the Pesticide Control Act, including [~~but not limited to~~] private applicators, commercial applicators, non-commercial applicators, public applicators, pest management consultants, pesticide dealers and pesticide manufacturers, and to all activities relating to the distribution and use of pesticides.
[7/1/1997; 21.17.50.2 NMAC - Rn, 21 NMAC 17.50.2, 11/30/2005]

21.17.50.3 STATUTORY AUTHORITY: Granted to the board of regents of New Mexico state university under the New Mexico Pesticide Control Act, Chapter 76, Article 4, Sections 1 through 39, NMSA 1978 Compilation.
[7/1/1997; 21.17.50.3 NMAC - Rn, 21 NMAC 17.50.3, 11/30/2005]

21.17.50.4 DURATION: Permanent.
[7/1/1997; 21.17.50.4 NMAC - Rn, 21 NMAC 17.50.4, 11/30/2005]

21.17.50.5 EFFECTIVE DATE: [~~July 1, 1997~~] October 15, 2025, unless a later date is cited in the history note at the end of a section.
[7/1/1997; 21.17.50.5 NMAC - Rn, 21 NMAC 17.50.5, 11/30/2005]

21.17.50.6 OBJECTIVE: The objective of Part 50 of Chapter 17 is to set criteria for the use of pesticides in New Mexico, including the licensing and certification of pesticide applicators, record keeping, equipment inspection, fees, storage and disposal of pesticides.
[7/1/1997; 21.17.50.6 NMAC - Rn, 21 NMAC 17.50.6, 11/30/2005]

21.17.50.7 DEFINITIONS:

A. "Active ingredient" means any ingredient which will prevent, destroy, repel, control or mitigate a pest or which will act as a regulator, defoliant or desiccant.

B. "Aircraft" means any fixed-wing aerial equipment or helicopter used to apply pesticides.

[~~**C. "Antidote"** means a practical treatment in case of poisoning and includes first-aid treatment.~~]

[**D**] **C. "Bait"** means an edible material containing a pesticide attractive to a pest.

[~~**E. "Beneficial insect"** means any insect which, during its life cycle, is an effective pollinator of plants, is a parasite or predator of pests, or is an insect that provides useful products.~~]

[**F**] **D. "Certified applicator"** means any person who has complied with the certification requirements established by the department to use or supervise the use of any pesticide covered by a valid license issued by the department.

[**G**] **E. "Competent"** means properly qualified to perform functions associated with pesticide application and/or use, the degree of capability required being directly related to the nature of the activity and the associated responsibility.

[**H**] **F. "Defoliant"** means any substance or mixture of substances intended for causing the leaves or foliage to drop from a plant, with or without causing abscission.

[**I**] **G. "Desiccant"** means any substance or mixture of substances intended for artificially accelerating the drying of plant tissue.

[**J**] **H. "Direct supervision"** means verifiable instruction to a competent person as follows:

(1) detailed guidance for applying and/or using the pesticide properly; and

(2) provisions for contacting the certified applicator in the event he is needed; or

(3) actual physical presence of a certified applicator when required by the label.

[**K**] **I. "Disposal"** means to abandon, deposit, inter, or otherwise discard of waste as a final action after its use has been achieved or a use is no longer intended.

[L] J. **"Fungus"** means any non-chlorophyll-bearing thallophyte (that is, any non-chlorophyll-bearing plant of a lower order than mosses and liverworts) as, for example, rust, smut, mildew, mold and yeast, except those on or in processed food, beverages, or pharmaceuticals.

[M] K. **"Ground equipment"** means any equipment used to supply pesticides that is operated on the ground and is self-propelled, or is mounted, drawn, or transported by a tractor, truck or other vehicle, and that is:

(1) gravity fed;

(2) mechanically driven by chain, gears or belts; or

(3) obtains power or pressure from a power-take-off or engine.

[N] L. **"Hazardous pesticide waste"** means any pesticide waste in a concentration or quantity, or a waste pesticide container which the board declares to be hazardous to the public health and safety, domestic livestock or wildlife or property.

[O] M. **"Illegal residue"** means the amount of pesticide remaining in or on food or feed crops and crop by-products, or in meat, meat by-products, or in the fat or milk of animals in excess of tolerances established by the U.S. environmental protection agency (EPA).

[P] N. **"Inert ingredient"** means any ingredient which has no active properties.

[Q] O. **"Manual equipment"** means any pressurized or electrically operated equipment (excluding hand-sized pressurized containers containing pesticides) used to apply pesticides that is carried or drawn as a complete unit by the person who applies the pesticide.

[R] P. **"Open burning"** means the combustion of pesticide waste in any fashion other than by incineration in an incinerator approved and permitted by the New Mexico environment department and designed for that waste.

[S] Q. **"Open dumping"** means the placing of pesticide waste in a land site other than a sanitary landfill as defined herein.

[T] R. **"Operator technician"** means any person who uses any pesticide as an employee of a commercial applicator.

[U] S. **"Permit"** means a written certificate of authority issued by the department to use or apply pesticides.

[V] T. **"Pest"** means any living organism injurious to other living organisms (except man and viruses, bacteria, or other microorganisms in or on other living organisms other than plants) that is a vector of a disease, or is a parasite on another organism and includes, but is not limited to, organisms in the phyla, Platyhelminthes (flatworms, flukes, tapeworms), Nemathelminthes (roundworms), Mollusca (snails), Annelida (earthworms), Arthropoda (centipedes, millipedes, spiders, mites, ticks, insects) and Chordata (fish, amphibians, reptiles, birds, mammals, excluding man).

[W] U. **"Pest control operator"** means a commercial applicator certified in one or more of the license classification(s) 7A, 7B, 7C, or 7D of Paragraphs (10) through (13) of Subsection B of 21.17.50.8 NMAC.

[X] V. **"Pesticide waste"** means any active or inert ingredient, or any combination thereof, of a labeled pesticide in either its packaged concentration or diluted for use which is intended for disposal. The term "pesticide waste" does not include any pesticide packaged in a form suitable for use in the household, or for agricultural use by a farmer or rancher.

~~[Y. "Plant regulator" means any substance or mixture of substances, intended, through physiological action, for accelerating or retarding the rate of growth or rate of maturation, or for otherwise altering the behavior of ornamental or crop plants or the produce thereof but shall not include substances to the extent that they are intended as fertilizers, such as plant nutrients, trace elements, nutritional chemicals, plant inoculants or soil amendments.]~~

[Z] W. **"Protective equipment"** means clothing, respirators, goggles or other equipment or materials used to shield an applicator against unintended exposure to pesticides.

[AA] X. **"Public pest management consultant"** means any individual who is employed by a governmental agency or municipality and who offers or supplies technical advice or makes recommendations to a user of restricted-use pesticides.

[BB] Y. **"Sanitary landfill"** means a land site for the disposal of wastes as specified under the environmental improvement board's solid waste management regulations in such a manner so as to preclude hazards to public health and safety, domestic livestock or wildlife, and loss of property by utilizing the principles of engineering to confine the wastes to the smallest practical area and to cover with soil.

[CC] Z. **"Service container"** means any container utilized to hold, store or transport a pesticide concentrate or a pesticide use-dilution preparation other than 1) the original labeled container provided by the manufacturer or 2) the application equipment. Containers used for waste pesticides are not deemed to be service containers.

[DD] AA. **"Service vehicle"** means any vehicle used to transport pesticide application equipment, or use-dilution preparation to the application site.

[EE] BB. **"Use-dilution preparation"** means a pesticide preparation which is mixed with a diluent and at a rate specified on the label or labeling which produces the concentration of the pesticide provided on the registered label or labeling.

[FF] CC. **"Waste pesticide container"** means any container intended for disposal which formerly held pesticides.

[GG] DD. **"Water dumping"** means the disposal of pesticide waste in or on lakes, ponds, rivers, sewers, arroyos or any watercourse, except properly designed and constructed manmade facilities approved by the New Mexico environmental improvement division.

[HH] EE. **"Weed"** means any plant which grows where not wanted.

[7/1/1997; 21.17.50.7 NMAC - Rn, 21 NMAC 17.50.7, 11/30/2005; A, 3/14/2008]

21.17.50.8 LICENSE CATEGORIES:

A. This section delineates the license categories and the scope of operations which may be performed under each category. These license categories represent the certification examinations taken by commercial, public and non-commercial applicators, pest management consultants and public pest management consultants.

B. License category and code number:

(1) 1A -- Agricultural pest control -- includes the control of insects, mites, plant, diseases, nematodes, and the use of soil fumigants, on agronomic crops.

(2) 1B -- Agricultural weed control -- includes the control of undesirable plants that compete with agricultural crops for water and plant nutrients and includes the use of desiccants, fumigants and defoliants.

(3) 1C -- Animal pest control -- includes spraying, dusting, dipping, or administering pesticides internally to control pests such as lice, mites, bots, fleas and flies on pets and livestock or treatment of places where animals are confined.

(4) 2-- Forest pest control -- includes the application of pesticides in forests, forest nurseries and forest seed producing areas.

(5) 3A -- Ornamental and turf pest control: insecticides and fungicides -- includes the control of insect and disease pests in the maintenance and production of ornamental trees, shrubs, flowers and turf.

(6) 3B -- Ornamental and turf pest control: herbicides -- includes the control of undesirable vegetation in the maintenance and production of ornamental trees, shrubs, flowers and turf.

(7) 4 -- Seed treatment -- includes the treatment of seeds to control insects, plant diseases and other pests.

(8) 5 -- Aquatic pest control -- includes the application of a pesticide to standing or running water to control algae, undesirable fish and other aquatic organisms, excluding public health pest control.

(9) 6 -- Right-of-way pest control -- includes the control of vegetation along public roads, electric powerlines, pipelines, railway rights-of-way, around oil well, storage areas, airports and similar areas.

(10) 7A -- Structural pest control -- includes the control of household pests, fabric pests and stored product pest.

(11) 7B -- Vertebrate animal control -- includes the control of rodents, birds, bats and predators of wildlife and domestic animals.

(12) 7C -- Fumigation -- includes the use of gases such as methyl bromide, hydrogen cyanide and phosphine to control pests in structures, railroad cars, stored grain and similar areas.

(13) 7D -- Wood destroying pest control -- includes the control of termites, carpenter ants, wood-boring or tunneling beetles, fungi and other organisms which attack lumber in structures or sawed lumber.

(14) 8 -- Public health pest control -- includes the control of mosquitoes, flies, fleas and other vectors that transmit human or animal diseases.

(15) 9 -- Regulatory pest control -- includes state, federal or other governmental employees who control regulated and/or quarantined pests.

(16) 10 -- Demonstration and research pest control -- includes:

(a) individuals who demonstrate to the public the proper use of restricted-use pesticides; or

(b) who conduct field research with pesticides.

(17) 11 -- Other -- to be assigned by the director.

[7/1/1997; 21.17.50.8 NMAC - Rn, 21 NMAC 17.50.8, 11/30/2005; A, 3/14/2008]

21.17.50.9 EXPIRATION DATE OF LICENSES: The annual registration of pesticides and any licenses or certifications provided for in the Pesticide Control Act shall expire on the dates indicated in this section unless it has been revoked or suspended prior thereto by the director.

A. The annual pesticide or device registration shall expire on ~~[December]~~ January 31 following issuance.

B. The annual pesticide dealer license shall expire on ~~[December]~~ January 31 following issuance.

C. The annual pest management consultant license shall expire on ~~[December]~~ January 31 following issuance.

D. The annual commercial applicator license shall expire on ~~[December]~~ January 31 following issuance.

E. The annual operator/technician license shall expire on ~~[December]~~ January 31 following issuance.

F. The annual non-commercial applicator license shall expire on ~~[December]~~ January 31 following issuance.

G. The annual public applicator license shall expire on ~~[December]~~ January 31 following issuance.

H. The annual public pest management consultant license shall expire on ~~[December]~~ January 31 following issuance.

I. The private applicator certification shall expire on ~~[December]~~ January 31 five years following the ~~[date]~~ year of issuance.

[7/1/1997; 21.17.50.9 NMAC - Rn, 21 NMAC 17.50.9, 11/30/2005; A, 3/14/2008]

21.17.50.10 RECORDS:

A. Each commercial applicator, non-commercial applicator and public applicator shall keep records for pesticides applied by them or persons under their direct supervision which shall include the following:

(1) name of the person for whom the pesticide was applied;

(2) target pest(s) and crop or site;

(3) year, month, day, and time the pesticide was applied;

(4) brand name or common name of the pesticide and U.S. environmental protection agency registration number(s) of the pesticide(s);

(5) direction and estimated velocity of the wind and the temperature at the application site at the time the pesticide was applied; this requirement shall not apply to application of baits in bait stations or pesticide applications in or immediately adjacent to structures;

(6) concentration of the pesticide(s) applied; example: pounds, ounces or pints of pesticide formulation per gallon applied;

(7) volume of use-dilution preparation applied, if applied in categories IA, IB, 2, 3A, 3B, 5, 6, 7D and 8 as defined in Section 8;

(8) location of the land or city address to which pesticide was applied;

(9) if applicable, all aircraft identification numbers;

(10) name and address of the business or agency and the name of the individual making the application.

B. Pesticide application records shall be completed and available to the department within 24 hours after the pesticide is applied.

C. Pesticide application records shall be kept for a period of two years from the date of the application of any pesticide. Upon request, in writing, the department shall be furnished with a copy of these records.

D. Upon written request, the customer shall be provided with a record of each application of pesticide applied to his land which includes all information given under Subsection A of 21.17.50.10 NMAC.

E. Holders of private applicator licenses for M-44 sodium cyanide capsules shall submit to the director by September 15, their field records on the use of the M-44 capsules for the preceding period of September 1 through August 31.

[7/1/1997; 21.17.50.10 NMAC - Rn, 21 NMAC 17.50.10, 11/30/2005]

21.17.50.11 INSPECTION AND CARE OF EQUIPMENT:

A. Equipment used for applying pesticides by a commercial applicator shall be kept in good mechanical condition. Parts that show signs of wear or malfunction shall be replaced to prevent leakage and to assure uniform dispersal of the pesticide. Equipment, where applicable, shall be calibrated accurately to dispense

the prescribed amount of pesticide. Hoses or parts not suitable or not intended for use on spray equipment shall not be used.

B. Equipment to be licensed shall be inspected for, but not limited to, the following:

(1) nozzle condition and function;

(2) suitable type of hose;

(3) tank condition;

(4) hose and pipe connections and condition;

(5) proper functioning of pressure regulators, if equipped;

(6) proper functioning of emergency dump valve;

(7) proper functioning of pump;

(8) decal or license plate affixed to the equipment.

C. When the same equipment is used to apply different types of pesticides, it shall be cleaned thoroughly if:

(1) an insecticide is used following the use of a herbicide or defoliant; or

(2) residue from material used previously is not compatible with other pesticides to be used; or

(3) a pesticide has been used that would cause an illegal residue on cultivated crops or processed food.

D. Equipment shall be cleaned in a manner that no residues remain that will cause injury to land, humans, desirable plants or animals when making subsequent application of pesticides.

E. A uniform mixture shall be maintained in the equipment at all times while applying pesticides.

F. Pesticides that remain in spray equipment after a job is completed, and for which no further legal use is intended, shall be disposed of in a manner and location that would not cause unreasonable adverse effects on the environment. Pesticides from any equipment shall not be dumped along public highways, into streams, or at any location that would cause unreasonable adverse effects on the environment.

G. Bait boxes and watering stations placed by commercial applicators, non-commercial applicators, and public applicators shall be legibly marked with the business name of the commercial applicator or name of the public agency; the brand name or common name or chemical name of the pesticide or the active ingredient(s); the EPA registration number; and current [~~the~~] phone number of the New Mexico poison control center in Albuquerque, New Mexico [~~(1-800-432-6866)~~].

H. In food handling establishments rodenticides shall be placed in bait boxes or watering stations marked with the information required in Subsection G of 21.17.50.11 NMAC.

I. Service containers shall have affixed to them a legible label with the common name of the active ingredient(s) or the brand name of pesticide contained therein.

J. Securing pesticides and equipment on service vehicles: any container or portable application equipment containing pesticides or pesticide residues shall not be left unattended on a service vehicle unless the container or equipment is in a locked compartment or secured in such a manner so as to render it inaccessible to an unauthorized person.

[7/1/1997; 21.17.50.11 NMAC - Rn, 21 NMAC 17.50.11, 11/30/2005]

21.17.50.12 PROTECTIVE EQUIPMENT: All licensed certified applicators shall be required to make available protective equipment properly decontaminated and in proper working order, and advise their employees of its use to meet the safety requirements of the pesticide labeling.

[7/1/1997; 21.17.50.12 NMAC - Rn, 21 NMAC 17.50.12, 11/30/2005]

21.17.50.13 APPLICATION OF PESTICIDES:

A. A licensed certified applicator shall apply only those pesticides registered for use in New Mexico under his license category(s). Any person applying pesticides shall follow directions, rates and precautions stated on the approved label and labeling. Application or use of a pesticide in a manner inconsistent with the directions on the approved label and labeling shall constitute an illegal use of the pesticide. Restricted-use pesticides shall be applied only by licensed certified applicators or persons under their direct supervision.

B. If a commercial pesticide applicator uses a liability insurance policy as proof of financial responsibility, the applicator shall not apply pesticides exempted in the policy.

[7/1/1997; 21.17.50.13 NMAC - Rn, 21 NMAC 17.50.13, 11/30/2005; A, 3/14/2008]

21.17.50.14 CHANGE OF BUSINESS STATUS:

A. Any person issued a license under the Pesticide Control Act shall within 10 days notify the director in writing of any change of:

(1) employment;

(2) ownership of the firm;

(3) the business firm name, address or any pertinent data on his application;

(4) licensed employees.

B. Licenses issued under the New Mexico Pesticide Control Act are nontransferable.

[7/1/1997; 21.17.50.14 NMAC - Rn, 21 NMAC 17.50.14, 11/30/2005]

21.17.50.15 DISPLAY AND STORAGE OF PESTICIDES:

A. Pesticides intended for distribution or sale shall be displayed or stored within an enclosed building or fenced area and shall not be displayed on sidewalks, parking lots or similar open areas.

B. Pesticides shall be stored in a manner that will reasonably insure that human foods, pet foods, drugs, animal feeds, commercial fertilizers, seeds or clothing will not be contaminated.

C. Pesticides in leaking, broken, corroded or otherwise damaged containers or with damaged or obscured labels, shall not be displayed or offered for sale.

[7/1/1997; 21.17.50.15 NMAC - Rn, 21 NMAC 17.50.15, 11/30/2005]

21.17.50.16 IDENTIFICATION OF VEHICLES:

A. All service vehicles used by a commercial applicator for distributing pesticides or devices shall be marked with:

(1) name of the firm;

(2) commercial applicator's license number.

B. All letters and numerals shall be of bold lettering at least one and one-half (1-1/2) inches high with a contrasting color as background. Markings shall be visible on both the right and left side of the service vehicle.

[7/1/1997; 21.17.50.16 NMAC - Rn, 21 NMAC 17.50.16, 11/30/2005]

21.17.50.17 PESTICIDE DEALERS:

A. Each applicant for a pesticide dealer license for outlets within New Mexico shall provide adequate facilities for the storage and distribution of restricted-use pesticides.

B. Each pesticide dealer shall keep a record of the sale of all restricted-use pesticides. Information to be recorded shall include:

(1) name and license number of the certified applicator;

(2) date of sale;

(3) brand name of the pesticide product and its EPA registration number;

(4) quantity of restricted-use pesticide sold.

C. A pesticide dealer license shall be, in addition to any other license or permit, required by law for offering or supplying technical advice, supervision or aid or making a recommendation to the user of highly toxic pesticides, restricted use pesticides, or both, by a dealer or his employees.

D. It shall be unlawful for a pesticide dealer to knowingly sell any restricted-use pesticide to any person who is not a licensed certified applicator, provided individuals under the direct supervision of a certified applicator may receive and transport restricted-use pesticides for a certified applicator.

[7/1/1997; 21.17.50.17 NMAC - Rn, 21 NMAC 17.50.17, 11/30/2005]

21.17.50.18 LICENSE APPLICATION AND EXAMINATION: CERTIFICATION AND LICENSING:

A. The applicant may elect to be examined in one or more of the classifications of pest control shown on the application. The examination fee, if applicable, shall be paid prior to administering any examination. If the applicant fails to pass any required examination, he may request, to take such failed examination at another date provided an additional examination fee, if applicable, is paid. A grade of 70 shall be passing on all examinations.

B. If an applicant has not completed all license requirements within 60 days from the date of the original application, then said applicant will be subject to the fees and requirements of a new applicant.

C. The director shall not consider any license application by any individual during the effective period of the license suspension or revocation of any license issued under the Pesticide Control Act.

[7/1/1997; 21.17.50.18 NMAC - Rn, 21 NMAC 17.50.18, 11/30/2005; A, 3/14/2008]

21.17.50.19 REVIEW OF CERTIFICATION AND LICENSES: The director may review any certification, license, or permit to determine if there are grounds for denial, suspension, or revocation action. A review shall be warranted in the case of:

A. violation of some provision of the Pesticide Control Act or regulations promulgated thereunder;

B. criminal conviction under Section 14(b) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended;

C. a final order imposing civil penalty under Section 14(a) of amended FIFRA;

D. certification obtained by cheating on an examination or providing false information about attendance or completion of required training or continuing education;

E. a license is obtained or utilized for reasons other than the intended purpose of allowing purchase or use of pesticides as required under the New Mexico Pesticide Control Act or regulations promulgated thereunder.

[7/1/1997; 21.17.50.19 NMAC - Rn, 21 NMAC 17.50.19, 11/30/2005; A, 3/14/2008]

21.17.50.20 OPERATOR/TECHNICIAN TRAINING PERMITS: A new employee of a licensed commercial applicator may work up to 60 calendar days under a operator/technician training permit provided another commercial applicator or technician licensed in New Mexico at least 6 months is present on the application site. Prior to expiration of the operator/technician training permit, permittees shall take the required examination(s). The permit shall be issued on the request of a licensed commercial applicator. The operator/technician training permit can not be extended.

[7/1/1997; 21.17.50.20 NMAC - Rn, 21 NMAC 17.50.20, 11/30/2005; A, 3/14/2008]

21.17.50.21 PROOF OF FINANCIAL RESPONSIBILITY:

A. A commercial applicator license shall not be issued until the applicant has furnished proof of financial responsibility acceptable to the director. This requirement may be satisfied by:

(1) a certificate of liability insurance signed by an authorized insurance representative; or

(2) a certified copy of a liability insurance policy; or

(3) a surety bond.

B. Proof of financial responsibility by any means other than a certified copy of the policy shall be provided by the issuing company on forms provided by or approved by the director.

C. Proof of financial responsibility shall be clearly conditioned to cover liability resulting from the handling, storage, disposal, application, use or misuse of any pesticide.

D. The director shall be notified in writing by the issuing company 10 days prior to any reduction or cancellation of insurance coverage.

E. The insurer or surplus line broker shall be authorized to do business in New Mexico.

[7/1/1997; 21.17.50.21 NMAC - Rn, 21 NMAC 17.50.21, 11/30/2005]

21.17.50.22 MINIMUM COVERAGE REQUIREMENTS:

A. Surety bond -- $100,000.

B. Liability insurance:

(1) Aircraft.

(a) Bodily injury -- $25,000 each occurrence, $50,000 aggregate.

(b) Property damage -- $50,000 each occurrence.

(c) Single limit bodily injury and property damage -- $100,000.

(2) Ground or manual.

(a) Bodily injury -- $10,000 each occurrence -- $25,000 aggregate.

(b) Property damage -- $25,000 each occurrence.

(c) Single limit bodily injury and property damage -- $50,000.

(3) Maximum amount of deductible (if applicable) -- $1,000.

[7/1/1997; 21.17.50.22 NMAC - Rn, 21 NMAC 17.50.22, 11/30/2005]

21.17.50.23 STORAGE AND DISPOSAL OF PESTICIDES AND PESTICIDE WASTES:

A. Pesticide waste and pesticides intended for use by commercial pesticide applicators shall be stored in enclosed, secured areas and shall be posted with warning signs in English and Spanish.

B. Pesticide wastes, provided they are not also hazardous pesticide wastes, shall be disposed of in an approved sanitary landfill.

C. Hazardous pesticide waste shall be disposed of in a permitted hazardous waste disposal site or in a designated area of an approved sanitary landfill under the supervision of the operator; provided, the department shall have the power to disallow disposal in an approved sanitary landfill if the hazardous pesticide waste is determined to be of such a nature that disposal should only be in a permitted hazardous waste disposal site.

D. Waste pesticide containers shall be crushed or rendered non-serviceable and disposed of in an approved sanitary landfill.

E. Rinsings and waste waters from the cleaning of pesticide apparatuses which can reasonably be expected to contain pesticide contaminants shall be contained in the cleanup area and not allowed to contaminate water or neighboring land.

F. Waste pesticides from livestock dipping vats shall be placed in evaporation ponds so as to avoid contamination of any surface or ground waters.

G. Pesticide waste or waste pesticide containers shall not be disposed of by open dumping, open burning, or water dumping in the state of New Mexico.

H. No pesticide waste shall be disposed of in any sewer or storm drain.

I. No pesticide waste or waste pesticide containers shall be disposed of in a manner inconsistent with its label or labeling.

[7/1/1997; 21.17.50.23 NMAC - Rn, 21 NMAC 17.50.23, 11/30/2005]

21.17.50.24 VARIANCE:

A. The director may grant a variance from any provision of 21.17.50.23 NMAC under special circumstances, provided such variance does not violate other state or federal laws.

B. A request for a variance shall be made to the director in writing and shall contain such information as the department deems necessary.

[7/1/1997; 21.17.50.24 NMAC - Rn, 21 NMAC 17.50.24, 11/30/2005]

21.17.50.25 FEES:

A. The annual registration fee for each pesticide or device registered shall be one hundred and fifty dollars ($150) [~~($100.00)~~].

B. The annual pesticide dealer license fee for each location or outlet within the state, or if there is no outlet within the state, for the principal out-of-state location or outlet, shall be [~~seventy-five dollars ($75.00)~~] one hundred dollars ($100).

C. The annual pest management consultant license fee shall be [~~seventy-five dollars ($75.00)~~] one hudred dollars ($100).

D. The annual commercial applicator license fee shall be [~~seventy-five dollars ($75.00)~~] one hundred dollars ($100).

E. The annual operator/agricultural pilot/serviceman license fee shall be [~~fifty dollars ($50.00)~~] seventy-five dollars ($75.00).

F. The annual non-commercial applicator license fee shall be [~~seventy-five dollars ($75.00)~~] one hundred dollars ($100).

G. The private applicator certification fee, or renewal thereof, shall be [~~fifteen dollars ($15.00)~~] twenty-five dollars ($25.00).

H. The fee for each additional inspection required to certify a unit of aircraft, ground or manual equipment that fails to pass inspection shall be twenty-five dollars ($25.00).

I. The examination fee for each examination needed to qualify the applicant as a pest management consultant, commercial applicator, non-commercial applicator or operator/agricultural pilot/serviceman shall be [~~ten dollars ($10.00)~~] twenty dollars ($20.00) per examination.

[7/1/1997; 21.17.50.25 NMAC - Rn & A, 21 NMAC 17.50.25, 11/30/2005, A, 11/15/2010]

HISTORY OF 21.17.50 NMAC:

Pre-NMAC History: The material in this part was derived from that previously filed with the State Records Center and Archives under:

NMDA Rule 67-2, Pesticide Regulations, Regulatory Order No. 1, filed 6/12/1967.
NMDA Rule 68-1, Pesticide Regulations, Regulatory Order No. 1, Amended, filed 6/12/1967.
NMDA Rule 70-1, Pesticide Regulations, Regulatory Order No. 1, Section 3, filed 3/4/1970.
NMDA Rule 70-2, Pesticide Regulations, Regulatory Order No. 2, filed 3/4/1970.
NMDA Rule 70-3, Pesticide Regulations, Regulatory Order No. 1, filed 12/24/1970.

NMDA Rule 71-4, Pesticide Regulations, Regulatory Order No. 2, filed 12/15/1971.
NMDA Rule 72-2, Pesticide Regulations, Regulatory Order No. 3, filed 3/6/1972.
NMDA Rule 73-8, Pesticide Regulations, Regulatory Order No. 1, filed 9/13/1973.
NMDA Rule 74-5, Pesticide Regulations, Regulatory Order No. 2, filed 7/10/1974.
NMDA Rule 75-5, Pesticide Regulations, Regulatory Order No. 3, filed 9/15/1975.
NMDA Rule 78-3, Regulatory Order No. 4, Storage/Disposal of Pesticides, filed 9/21/1978.
NMDA Rule 79-2, Regulatory Order No. 5, Definitions, Licensing, Equipment Inspections, Record Keeping of Pesticides by Regulated Applicators, filed 11/21/1979.
NMDA Rule 79-4, Regulatory Order No. 7, Establishes Financial Responsibility for Commercial Applicators, filed 11/21/1979.
NMDA Rule 79-5, Regulatory Order No. 8, Establishes Fee for Pesticide Registration and Licenses, filed 11/21/1979.
NMDA Rule 81-2, Regulatory Order No. 10, Establishes Fee for Pesticide Registration and Licenses, filed 5/21/1981.
NMDA Rule 85-4, Fees for Pesticide Registrations and Licenses, filed 8/7/1985.
NMDA Rule 88-2, Fees for Pesticide Registrations and Licenses, filed 3/23/1988.

History of Repealed Material: [RESERVED]

Final Amendment in Context

TITLE 21 AGRICULTURE AND RANCHING
CHAPTER 17 PEST, DISEASE, AND WEED CONTROL
PART 50 PESTICIDES

21.17.50.1 ISSUING AGENCY: New Mexico State University, New Mexico Department of Agriculture
[7/1/1997; 21.17.50.1 NMAC - Rn, 21 NMAC 17.50.1, 11/30/2005; A, 5/29/2009]
[MSC 3189, Box 30005, Las Cruces, New Mexico 88003-8005, Telephone No. (575) 646-3007.]

21.17.50.2 SCOPE: Part 50 shall apply to all persons regulated under the Pesticide Control Act, including private applicators, commercial applicators, non-commercial applicators, public applicators, pest management consultants, pesticide dealers and pesticide manufacturers, and to all activities relating to the distribution and use of pesticides.
[7/1/1997; 21.17.50.2 NMAC - Rn, 21 NMAC 17.50.2, 11/30/2005]

21.17.50.3 STATUTORY AUTHORITY: Granted to the board of regents of New Mexico state university under the New Mexico Pesticide Control Act, Chapter 76, Article 4, Sections 1 through 39, NMSA 1978 Compilation.
[7/1/1997; 21.17.50.3 NMAC - Rn, 21 NMAC 17.50.3, 11/30/2005]

21.17.50.4 DURATION: Permanent.
[7/1/1997; 21.17.50.4 NMAC - Rn, 21 NMAC 17.50.4, 11/30/2005]

21.17.50.5 EFFECTIVE DATE: October 15, 2025, unless a later date is cited in the history note at the end of a section.
[7/1/1997; 21.17.50.5 NMAC - Rn, 21 NMAC 17.50.5, 11/30/2005]

21.17.50.6 OBJECTIVE: The objective of Part 50 of Chapter 17 is to set criteria for the use of pesticides in New Mexico, including the licensing and certification of pesticide applicators, record keeping, equipment inspection, fees, storage and disposal of pesticides.
[7/1/1997; 21.17.50.6 NMAC - Rn, 21 NMAC 17.50.6, 11/30/2005]

21.17.50.7 DEFINITIONS:

A. **"Active ingredient"** means any ingredient which will prevent, destroy, repel, control or mitigate a pest or which will act as a regulator, defoliant or desiccant.

B. **"Aircraft"** means any fixed-wing aerial equipment or helicopter used to apply pesticides.

C. **"Bait"** means an edible material containing a pesticide attractive to a pest.

D. **"Certified applicator"** means any person who has complied with the certification requirements established by the department to use or supervise the use of any pesticide covered by a valid license issued by the department.

E. **"Competent"** means properly qualified to perform functions associated with pesticide application and/or use, the degree of capability required being directly related to the nature of the activity and the associated responsibility.

F. **"Defoliant"** means any substance or mixture of substances intended for causing the leaves or foliage to drop from a plant, with or without causing abscission.

G. **"Desiccant"** means any substance or mixture of substances intended for artificially accelerating the drying of plant tissue.

H. **"Direct supervision"** means verifiable instruction to a competent person as follows:

(1) detailed guidance for applying and/or using the pesticide properly; and

(2) provisions for contacting the certified applicator in the event he is needed; or

(3) actual physical presence of a certified applicator when required by the label.

I. **"Disposal"** means to abandon, deposit, inter, or otherwise discard of waste as a final action after its use has been achieved or a use is no longer intended.

J. **"Fungus"** means any non-chlorophyll-bearing thallophyte (that is, any non-chlorophyll-bearing plant of a lower order than mosses and liverworts) as, for example, rust, smut, mildew, mold and yeast, except those on or in processed food, beverages, or pharmaceuticals.

K. **"Ground equipment"** means any equipment used to supply pesticides that is operated on the ground and is self-propelled, or is mounted, drawn, or transported by a tractor, truck or other vehicle, and that is:

(1) gravity fed;

(2) mechanically driven by chain, gears or belts; or

(3) obtains power or pressure from a power-take-off or engine.

L. **"Hazardous pesticide waste"** means any pesticide waste in a concentration or quantity, or a waste pesticide container which the board declares to be hazardous to the public health and safety, domestic livestock or wildlife or property.

M. **"Illegal residue"** means the amount of pesticide remaining in or on food or feed crops and crop by-products, or in meat, meat by-products, or in the fat or milk of animals in excess of tolerances established by the U.S. environmental protection agency (EPA).

N. **"Inert ingredient"** means any ingredient which has no active properties.

O. **"Manual equipment"** means any pressurized or electrically operated equipment (excluding hand-sized pressurized containers containing pesticides) used to apply pesticides that is carried or drawn as a complete unit by the person who applies the pesticide.

P. **"Open burning"** means the combustion of pesticide waste in any fashion other than by incineration in an incinerator approved and permitted by the New Mexico environment department and designed for that waste.

Q. **"Open dumping"** means the placing of pesticide waste in a land site other than a sanitary landfill as defined herein.

R. **"Operator technician"** means any person who uses any pesticide as an employee of a commercial applicator.

S. **"Permit"** means a written certificate of authority issued by the department to use or apply pesticides.

T. **"Pest"** means any living organism injurious to other living organisms (except man and viruses, bacteria, or other microorganisms in or on other living organisms other than plants) that is a vector of a disease, or is a parasite on another organism and includes, but is not limited to, organisms in the phyla, Platyhelminthes (flatworms, flukes, tapeworms), Nemathelminthes (roundworms), Mollusca (snails), Annelida (earthworms), Arthropoda (centipedes, millipedes, spiders, mites, ticks, insects) and Chordata (fish, amphibians, reptiles, birds, mammals, excluding man).

U. **"Pest control operator"** means a commercial applicator certified in one or more of the license classification(s) 7A, 7B, 7C, or 7D of Paragraphs (10) through (13) of Subsection B of 21.17.50.8 NMAC.

V. **"Pesticide waste"** means any active or inert ingredient, or any combination thereof, of a labeled pesticide in either its packaged concentration or diluted for use which is intended for disposal. The term "pesticide waste" does not include any pesticide packaged in a form suitable for use in the household, or for agricultural use by a farmer or rancher.

W. **"Protective equipment"** means clothing, respirators, goggles or other equipment or materials used to shield an applicator against unintended exposure to pesticides.

X. **"Public pest management consultant"** means any individual who is employed by a governmental agency or municipality and who offers or supplies technical advice or makes recommendations to a user of restricted-use pesticides.

Y. **"Sanitary landfill"** means a land site for the disposal of wastes as specified under the environmental improvement board's solid waste management regulations in such a manner so as to preclude hazards to public health and safety, domestic livestock or wildlife, and loss of property by utilizing the principles of engineering to confine the wastes to the smallest practical area and to cover with soil.

Z. **"Service container"** means any container utilized to hold, store or transport a pesticide concentrate or a pesticide use-dilution preparation other than 1) the original labeled container provided by the manufacturer or 2) the application equipment. Containers used for waste pesticides are not deemed to be service containers.

AA. **"Service vehicle"** means any vehicle used to transport pesticide application equipment, or use-dilution preparation to the application site.

BB. **"Use-dilution preparation"** means a pesticide preparation which is mixed with a diluent and at a rate specified on the label or labeling which produces the concentration of the pesticide provided on the registered label or labeling.

CC. **"Waste pesticide container"** means any container intended for disposal which formerly held pesticides.

DD. **"Water dumping"** means the disposal of pesticide waste in or on lakes, ponds, rivers, sewers, arroyos or any watercourse, except properly designed and constructed manmade facilities approved by the New Mexico environmental improvement division.

EE. **"Weed"** means any plant which grows where not wanted.

[7/1/1997; 21.17.50.7 NMAC - Rn, 21 NMAC 17.50.7, 11/30/2005; A, 3/14/2008]

21.17.50.8 LICENSE CATEGORIES:

A. This section delineates the license categories and the scope of operations which may be performed under each category. These license categories represent the certification examinations taken by commercial, public and non-commercial applicators, pest management consultants and public pest management consultants.

B. License category and code number:

(1) 1A -- Agricultural pest control -- includes the control of insects, mites, plant, diseases, nematodes, and the use of soil fumigants, on agronomic crops.

(2) 1B -- Agricultural weed control -- includes the control of undesirable plants that compete with agricultural crops for water and plant nutrients and includes the use of desiccants, fumigants and defoliants.

(3) 1C -- Animal pest control -- includes spraying, dusting, dipping, or administering pesticides internally to control pests such as lice, mites, bots, fleas and flies on pets and livestock or treatment of places where animals are confined.

(4) 2-- Forest pest control -- includes the application of pesticides in forests, forest nurseries and forest seed producing areas.

(5) 3A -- Ornamental and turf pest control: insecticides and fungicides -- includes the control of insect and disease pests in the maintenance and production of ornamental trees, shrubs, flowers and turf.

(6) 3B -- Ornamental and turf pest control: herbicides -- includes the control of undesirable vegetation in the maintenance and production of ornamental trees, shrubs, flowers and turf.

(7) 4 -- Seed treatment -- includes the treatment of seeds to control insects, plant diseases and other pests.

(8) 5 -- Aquatic pest control -- includes the application of a pesticide to standing or running water to control algae, undesirable fish and other aquatic organisms, excluding public health pest control.

(9) 6 -- Right-of-way pest control -- includes the control of vegetation along public roads, electric powerlines, pipelines, railway rights-of-way, around oil well, storage areas, airports and similar areas.

(10) 7A -- Structural pest control -- includes the control of household pests, fabric pests and stored product pest.

(11) 7B -- Vertebrate animal control -- includes the control of rodents, birds, bats and predators of wildlife and domestic animals.

(12) 7C -- Fumigation -- includes the use of gases such as methyl bromide, hydrogen cyanide and phosphine to control pests in structures, railroad cars, stored grain and similar areas.

(13) 7D -- Wood destroying pest control -- includes the control of termites, carpenter ants, wood-boring or tunneling beetles, fungi and other organisms which attack lumber in structures or sawed lumber.

(14) 8 -- Public health pest control -- includes the control of mosquitoes, flies, fleas and other vectors that transmit human or animal diseases.

(15) 9 -- Regulatory pest control -- includes state, federal or other governmental employees who control regulated and/or quarantined pests.

(16) 10 -- Demonstration and research pest control -- includes:

(a) individuals who demonstrate to the public the proper use of restricted-use pesticides; or

(b) who conduct field research with pesticides.

(17) 11 -- Other -- to be assigned by the director.

[7/1/1997; 21.17.50.8 NMAC - Rn, 21 NMAC 17.50.8, 11/30/2005; A, 3/14/2008]

21.17.50.9 EXPIRATION DATE OF LICENSES: The annual registration of pesticides and any licenses or certifications provided for in the Pesticide Control Act shall expire on the dates indicated in this section unless it has been revoked or suspended prior thereto by the director.

A. The annual pesticide or device registration shall expire on January 31 following issuance.

B. The annual pesticide dealer license shall expire on January 31 following issuance.

C. The annual pest management consultant license shall expire on January 31 following issuance.

D. The annual commercial applicator license shall expire on January 31 following issuance.

E. The annual operator/technician license shall expire on January 31 following issuance.

F. The annual non-commercial applicator license shall expire on January 31 following issuance.

G. The annual public applicator license shall expire on Janaury 31 following issuance.

H. The annual public pest management consultant license shall expire on January 31 following issuance.

I. The private applicator certification shall expire on January 31 five years following the year of issuance.

[7/1/1997; 21.17.50.9 NMAC - Rn, 21 NMAC 17.50.9, 11/30/2005; A, 3/14/2008]

21.17.50.10 RECORDS:

A. Each commercial applicator, non-commercial applicator and public applicator shall keep records for pesticides applied by them or persons under their direct supervision which shall include the following:

(1) name of the person for whom the pesticide was applied;

(2) target pest(s) and crop or site;

(3) year, month, day, and time the pesticide was applied;

(4) brand name or common name of the pesticide and U.S. environmental protection agency registration number(s) of the pesticide(s);

(5) direction and estimated velocity of the wind and the temperature at the application site at the time the pesticide was applied; this requirement shall not apply to application of baits in bait stations or pesticide applications in or immediately adjacent to structures;

(6) concentration of the pesticide(s) applied; example: pounds, ounces or pints of pesticide formulation per gallon applied;

(7) volume of use-dilution preparation applied, if applied in categories IA, IB, 2, 3A, 3B, 5, 6, 7D and 8 as defined in Section 8;

(8) location of the land or city address to which pesticide was applied;

(9) if applicable, all aircraft identification numbers;

(10) name and address of the business or agency and the name of the individual making the application.

B. Pesticide application records shall be completed and available to the department within 24 hours after the pesticide is applied.

C. Pesticide application records shall be kept for a period of two years from the date of the application of any pesticide. Upon request, in writing, the department shall be furnished with a copy of these records.

D. Upon written request, the customer shall be provided with a record of each application of pesticide applied to his land which includes all information given under Subsection A of 21.17.50.10 NMAC.

E. Holders of private applicator licenses for M-44 sodium cyanide capsules shall submit to the director by September 15, their field records on the use of the M-44 capsules for the preceding period of September 1 through August 31.

[7/1/1997; 21.17.50.10 NMAC - Rn, 21 NMAC 17.50.10, 11/30/2005]

21.17.50.11 INSPECTION AND CARE OF EQUIPMENT:

A. Equipment used for applying pesticides by a commercial applicator shall be kept in good mechanical condition. Parts that show signs of wear or malfunction shall be replaced to prevent leakage and to assure uniform dispersal of the pesticide. Equipment, where applicable, shall be calibrated accurately to dispense the prescribed amount of pesticide. Hoses or parts not suitable or not intended for use on spray equipment shall not be used.

B. Equipment to be licensed shall be inspected for, but not limited to, the following:

(1) nozzle condition and function;

(2) suitable type of hose;

(3) tank condition;

(4) hose and pipe connections and condition;

(5) proper functioning of pressure regulators, if equipped;

(6) proper functioning of emergency dump valve;

(7) proper functioning of pump;

(8) decal or license plate affixed to the equipment.

C. When the same equipment is used to apply different types of pesticides, it shall be cleaned thoroughly if:

(1) an insecticide is used following the use of a herbicide or defoliant; or

(2) residue from material used previously is not compatible with other pesticides to be used; or

(3) a pesticide has been used that would cause an illegal residue on cultivated crops or processed food.

D. Equipment shall be cleaned in a manner that no residues remain that will cause injury to land, humans, desirable plants or animals when making subsequent application of pesticides.

E. A uniform mixture shall be maintained in the equipment at all times while applying pesticides.

F. Pesticides that remain in spray equipment after a job is completed, and for which no further legal use is intended, shall be disposed of in a manner and location that would not cause unreasonable adverse effects on the environment. Pesticides from any equipment shall not be dumped along public highways, into streams, or at any location that would cause unreasonable adverse effects on the environment.

G. Bait boxes and watering stations placed by commercial applicators, non-commercial applicators, and public applicators shall be legibly marked with the business name of the commercial applicator or name of the public agency; the brand name or common name or chemical name of the pesticide or the active ingredient(s); the EPA registration number; and current phone number of the New Mexico poison control center in Albuquerque, New Mexico.

H. In food handling establishments rodenticides shall be placed in bait boxes or watering stations marked with the information required in Subsection G of 21.17.50.11 NMAC.

I. Service containers shall have affixed to them a legible label with the common name of the active ingredient(s) or the brand name of pesticide contained therein.

J. Securing pesticides and equipment on service vehicles: any container or portable application equipment containing pesticides or pesticide residues shall not be left unattended on a service vehicle unless the container or equipment is in a locked compartment or secured in such a manner so as to render it inaccessible to an unauthorized person.

[7/1/1997; 21.17.50.11 NMAC - Rn, 21 NMAC 17.50.11, 11/30/2005]

21.17.50.12 PROTECTIVE EQUIPMENT: All licensed certified applicators shall be required to make available protective equipment properly decontaminated and in proper working order, and advise their employees of its use to meet the safety requirements of the pesticide labeling.

[7/1/1997; 21.17.50.12 NMAC - Rn, 21 NMAC 17.50.12, 11/30/2005]

21.17.50.13 APPLICATION OF PESTICIDES:

A. A licensed certified applicator shall apply only those pesticides registered for use in New Mexico under his license category(s). Any person applying pesticides shall follow directions, rates and precautions stated on the approved label and labeling. Application or use of a pesticide in a manner inconsistent with the directions on the approved label and labeling shall constitute an illegal use of the pesticide. Restricted-use pesticides shall be applied only by licensed certified applicators or persons under their direct supervision.

B. If a commercial pesticide applicator uses a liability insurance policy as proof of financial responsibility, the applicator shall not apply pesticides exempted in the policy.

[7/1/1997; 21.17.50.13 NMAC - Rn, 21 NMAC 17.50.13, 11/30/2005; A, 3/14/2008]

21.17.50.14 CHANGE OF BUSINESS STATUS:

A. Any person issued a license under the Pesticide Control Act shall within 10 days notify the director in writing of any change of:

(1) employment;

(2) ownership of the firm;

(3) the business firm name, address or any pertinent data on his application;

(4) licensed employees.

B. Licenses issued under the New Mexico Pesticide Control Act are nontransferable.

[7/1/1997; 21.17.50.14 NMAC - Rn, 21 NMAC 17.50.14, 11/30/2005]

21.17.50.15 DISPLAY AND STORAGE OF PESTICIDES:

A. Pesticides intended for distribution or sale shall be displayed or stored within an enclosed building or fenced area and shall not be displayed on sidewalks, parking lots or similar open areas.

B. Pesticides shall be stored in a manner that will reasonably insure that human foods, pet foods, drugs, animal feeds, commercial fertilizers, seeds or clothing will not be contaminated.

C. Pesticides in leaking, broken, corroded or otherwise damaged containers or with damaged or obscured labels, shall not be displayed or offered for sale.

[7/1/1997; 21.17.50.15 NMAC - Rn, 21 NMAC 17.50.15, 11/30/2005]

21.17.50.16 IDENTIFICATION OF VEHICLES:

A. All service vehicles used by a commercial applicator for distributing pesticides or devices shall be marked with:

(1) name of the firm;

(2) commercial applicator's license number.

B. All letters and numerals shall be of bold lettering at least one and one-half (1-1/2) inches high with a contrasting color as background. Markings shall be visible on both the right and left side of the service vehicle.

[7/1/1997; 21.17.50.16 NMAC - Rn, 21 NMAC 17.50.16, 11/30/2005]

21.17.50.17 PESTICIDE DEALERS:

A. Each applicant for a pesticide dealer license for outlets within New Mexico shall provide adequate facilities for the storage and distribution of restricted-use pesticides.

B. Each pesticide dealer shall keep a record of the sale of all restricted-use pesticides. Information to be recorded shall include:

(1) name and license number of the certified applicator;

(2) date of sale;

(3) brand name of the pesticide product and its EPA registration number;

(4) quantity of restricted-use pesticide sold.

C. A pesticide dealer license shall be, in addition to any other license or permit, required by law for offering or supplying technical advice, supervision or aid or making a recommendation to the user of highly toxic pesticides, restricted use pesticides, or both, by a dealer or his employees.

D. It shall be unlawful for a pesticide dealer to knowingly sell any restricted-use pesticide to any person who is not a licensed certified applicator, provided individuals under the direct supervision of a certified applicator may receive and transport restricted-use pesticides for a certified applicator.

[7/1/1997; 21.17.50.17 NMAC - Rn, 21 NMAC 17.50.17, 11/30/2005]

21.17.50.18 LICENSE APPLICATION AND EXAMINATION: CERTIFICATION AND LICENSING:

A. The applicant may elect to be examined in one or more of the classifications of pest control shown on the application. The examination fee, if applicable, shall be paid prior to administering any examination. If the applicant fails to pass any required examination, he may request, to take such failed examination at another date provided an additional examination fee, if applicable, is paid. A grade of 70 shall be passing on all examinations.

B. If an applicant has not completed all license requirements within 60 days from the date of the original application, then said applicant will be subject to the fees and requirements of a new applicant.

C. The director shall not consider any license application by any individual during the effective period of the license suspension or revocation of any license issued under the Pesticide Control Act.

[7/1/1997; 21.17.50.18 NMAC - Rn, 21 NMAC 17.50.18, 11/30/2005; A, 3/14/2008]

21.17.50.19 REVIEW OF CERTIFICATION AND LICENSES: The director may review any certification, license, or permit to determine if there are grounds for denial, suspension, or revocation action. A review shall be warranted in the case of:

A. violation of some provision of the Pesticide Control Act or regulations promulgated thereunder;

B. criminal conviction under Section 14(b) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended;

C. a final order imposing civil penalty under Section 14(a) of amended FIFRA;

D. certification obtained by cheating on an examination or providing false information about attendance or completion of required training or continuing education;

E. a license is obtained or utilized for reasons other than the intended purpose of allowing purchase or use of pesticides as required under the New Mexico Pesticide Control Act or regulations promulgated thereunder.

[7/1/1997; 21.17.50.19 NMAC - Rn, 21 NMAC 17.50.19, 11/30/2005; A, 3/14/2008]

21.17.50.20 OPERATOR/TECHNICIAN TRAINING PERMITS: A new employee of a licensed commercial applicator may work up to 60 calendar days under a operator/technician training permit provided another commercial applicator or technician licensed in New Mexico at least 6 months is present on the application site. Prior to expiration of the operator/technician training permit, permittees shall take the required examination(s). The permit shall be issued on the request of a licensed commercial applicator. The operator/technician training permit can not be extended.
[7/1/1997; 21.17.50.20 NMAC - Rn, 21 NMAC 17.50.20, 11/30/2005; A, 3/14/2008]

21.17.50.21 PROOF OF FINANCIAL RESPONSIBILITY:

A. A commercial applicator license shall not be issued until the applicant has furnished proof of financial responsibility acceptable to the director. This requirement may be satisfied by:

(1) a certificate of liability insurance signed by an authorized insurance representative; or

(2) a certified copy of a liability insurance policy; or

(3) a surety bond.

B. Proof of financial responsibility by any means other than a certified copy of the policy shall be provided by the issuing company on forms provided by or approved by the director.

C. Proof of financial responsibility shall be clearly conditioned to cover liability resulting from the handling, storage, disposal, application, use or misuse of any pesticide.

D. The director shall be notified in writing by the issuing company 10 days prior to any reduction or cancellation of insurance coverage.

E. The insurer or surplus line broker shall be authorized to do business in New Mexico.
[7/1/1997; 21.17.50.21 NMAC - Rn, 21 NMAC 17.50.21, 11/30/2005]

21.17.50.22 MINIMUM COVERAGE REQUIREMENTS:

A. Surety bond -- $100,000.

B. Liability insurance:

(1) Aircraft.

(a) Bodily injury -- $25,000 each occurrence, $50,000 aggregate.

(b) Property damage -- $50,000 each occurrence.

(c) Single limit bodily injury and property damage -- $100,000.

(2) Ground or manual.

(a) Bodily injury -- $10,000 each occurrence -- $25,000 aggregate.

(b) Property damage -- $25,000 each occurrence.

(c) Single limit bodily injury and property damage -- $50,000.

(3) Maximum amount of deductible (if applicable) -- $1,000.
[7/1/1997; 21.17.50.22 NMAC - Rn, 21 NMAC 17.50.22, 11/30/2005]

21.17.50.23 STORAGE AND DISPOSAL OF PESTICIDES AND PESTICIDE WASTES:

A. Pesticide waste and pesticides intended for use by commercial pesticide applicators shall be stored in enclosed, secured areas and shall be posted with warning signs in English and Spanish.

B. Pesticide wastes, provided they are not also hazardous pesticide wastes, shall be disposed of in an approved sanitary landfill.

C. Hazardous pesticide waste shall be disposed of in a permitted hazardous waste disposal site or in a designated area of an approved sanitary landfill under the supervision of the operator; provided, the department shall have the power to disallow disposal in an approved sanitary landfill if the hazardous pesticide waste is determined to be of such a nature that disposal should only be in a permitted hazardous waste disposal site.

D. Waste pesticide containers shall be crushed or rendered non-serviceable and disposed of in an approved sanitary landfill.

E. Rinsings and waste waters from the cleaning of pesticide apparatuses which can reasonably be expected to contain pesticide contaminants shall be contained in the cleanup area and not allowed to contaminate water or neighboring land.

F. Waste pesticides from livestock dipping vats shall be placed in evaporation ponds so as to avoid contamination of any surface or ground waters.

G. Pesticide waste or waste pesticide containers shall not be disposed of by open dumping, open burning, or water dumping in the state of New Mexico.

H. No pesticide waste shall be disposed of in any sewer or storm drain.

I. No pesticide waste or waste pesticide containers shall be disposed of in a manner inconsistent with its label or labeling.

[7/1/1997; 21.17.50.23 NMAC - Rn, 21 NMAC 17.50.23, 11/30/2005]

21.17.50.24 VARIANCE:

A. The director may grant a variance from any provision of 21.17.50.23 NMAC under special circumstances, provided such variance does not violate other state or federal laws.

B. A request for a variance shall be made to the director in writing and shall contain such information as the department deems necessary.

[7/1/1997; 21.17.50.24 NMAC - Rn, 21 NMAC 17.50.24, 11/30/2005]

21.17.50.25 FEES:

A. The annual registration fee for each pesticide or device registered shall be one hundred and fifty dollars ($150.00).

B. The annual pesticide dealer license fee for each location or outlet within the state, or if there is no outlet within the state, for the principal out-of-state location or outlet, shall be one hundred dollars ($100.00).

C. The annual pest management consultant license fee shall be one hundred dollars ($100.00).

D. The annual commercial applicator license fee shall be one hundred dollars ($100.00).

E. The annual operator/agricultural pilot/serviceman license fee shall be seventy five dollars ($75.00).

F. The annual non-commercial applicator license fee shall be one hundred dollars ($100.00).

G. The private applicator certification fee, or renewal thereof, shall be twenty-five dollars ($25.00).

H. The fee for each additional inspection required to certify a unit of aircraft, ground or manual equipment that fails to pass inspection shall be twenty-five dollars ($25.00).

I. The examination fee for each examination needed to qualify the applicant as a pest management consultant, commercial applicator, non-commercial applicator or operator/agricultural pilot/serviceman shall be twenty dollars ($20.00) per examination.

[7/1/1997; 21.17.50.25 NMAC - Rn & A, 21 NMAC 17.50.25, 11/30/2005, A, 11/15/2010]

HISTORY OF 21.17.50 NMAC:

Pre-NMAC History: The material in this part was derived from that previously filed with the State Records Center and Archives under:

NMDA Rule 67-2, Pesticide Regulations, Regulatory Order No. 1, filed 6/12/1967.
NMDA Rule 68-1, Pesticide Regulations, Regulatory Order No. 1, Amended, filed 6/12/1967.
NMDA Rule 70-1, Pesticide Regulations, Regulatory Order No. 1, Section 3, filed 3/4/1970.
NMDA Rule 70-2, Pesticide Regulations, Regulatory Order No. 2, filed 3/4/1970.
NMDA Rule 70-3, Pesticide Regulations, Regulatory Order No. 1, filed 12/24/1970.
NMDA Rule 71-4, Pesticide Regulations, Regulatory Order No. 2, filed 12/15/1971.
NMDA Rule 72-2, Pesticide Regulations, Regulatory Order No. 3, filed 3/6/1972.
NMDA Rule 73-8, Pesticide Regulations, Regulatory Order No. 1, filed 9/13/1973.
NMDA Rule 74-5, Pesticide Regulations, Regulatory Order No. 2, filed 7/10/1974.
NMDA Rule 75-5, Pesticide Regulations, Regulatory Order No. 3, filed 9/15/1975.
NMDA Rule 78-3, Regulatory Order No. 4, Storage/Disposal of Pesticides, filed 9/21/1978.
NMDA Rule 79-2, Regulatory Order No. 5, Definitions, Licensing, Equipment Inspections, Record Keeping of Pesticides by Regulated Applicators, filed 11/21/1979.
NMDA Rule 79-4, Regulatory Order No. 7, Establishes Financial Responsibility for Commercial Applicators, filed 11/21/1979.
NMDA Rule 79-5, Regulatory Order No. 8, Establishes Fee for Pesticide Registration and Licenses, filed 11/21/1979.
NMDA Rule 81-2, Regulatory Order No. 10, Establishes Fee for Pesticide Registration and Licenses, filed 5/21/1981.
NMDA Rule 85-4, Fees for Pesticide Registrations and Licenses, filed 8/7/1985.
NMDA Rule 88-2, Fees for Pesticide Registrations and Licenses, filed 3/23/1988.

History of Repealed Material: [RESERVED]

Hearing Officer Recommendation

NEW MEXICO DEPARTMENT OF AGRICULTURE
Office of the Director/Secretary
MSC 3189
New Mexico State University
P.O. Box 30005
Las Cruces, NM 88003-8005
Phone: (575) 649-0505

August 22, 2025

MEMORANDUM

TO: Director/Secretary Jeff M. Witte

FROM: Les Owen, Deputy Director – Hearing Officer

SUBJECT: Hearing Officer's Report – RE: New Mexico Department of Agriculture Hearings on Proposed Repeal and Replacement of the Pesticide Rule, Title 21, Chapter 17, Part 50 of the New Mexico Administrative Code (21.17.50 NMAC)

BACKGROUND INFORMATION

The New Mexico Department of Agriculture (NMDA) held two hearings regarding the proposed repeal and replacement of 21.17.50 NMAC. On Tuesday, July 29, 2025, at 11 a.m. a public video/telephonic and in-person hearing was held at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM 88003. On Thursday, July 31, 2025, at 11 a.m. an in-person hearing was held at the CNM Workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM 87113.

The Rulemaking Notice was published in the New Mexico Register on June 24, 2025. Notice was provided to the Sunshine Portal, in the Santa Fe New Mexican (both English and Spanish), the Albuquerque Journal, The Las Cruces Sun News, and the NMDA website. Notification and the proposed rule were sent to the New Mexico Economic Development's Small Business Regulatory Advisory Commission and to Legislative Council Service. NMDA has not received findings from either. Notice of public hearings was also sent to pesticide licensed individuals and businesses impacted by the amendments; to the Pest Management Association, a state industry organization representing licensed pesticide applicators; and to the Household Consumer Product Association, a national industry organization representing pesticide manufacturers.

The hearing officer provides the following information for consideration by NMDA's director/secretary.

THE RULE and AMENDMENTS TO THE RULE in CONTEXT

TITLE 21 AGRICULTURE AND RANCHING
CHAPTER 17 PEST, DISEASE, AND WEED CONTROL
PART 50 PESTICIDES

21.17.50.1 ISSUING AGENCY: New Mexico State University, New Mexico Department of Agriculture
[7/1/1997; 21.17.50.1 NMAC - Rn, 21 NMAC 17.50.1, 11/30/2005; A, 5/29/2009]
[MSC 3189, Box 30005, Las Cruces, New Mexico 88003-8005, Telephone No. (575) 646-3007.]

21.17.50.2 SCOPE: Part 50 shall apply to all persons regulated under the Pesticide Control Act, including [~~but not limited to~~] private applicators, commercial applicators, non-commercial applicators, public applicators, pest management consultants, pesticide dealers and pesticide manufacturers, and to all activities relating to the distribution and use of pesticides.
[7/1/1997; 21.17.50.2 NMAC - Rn, 21 NMAC 17.50.2, 11/30/2005]

21.17.50.3 STATUTORY AUTHORITY: Granted to the board of regents of New Mexico state university under the New Mexico Pesticide Control Act, Chapter 76, Article 4, Sections 1 through 39, NMSA 1978 Compilation.
[7/1/1997; 21.17.50.3 NMAC - Rn, 21 NMAC 17.50.3, 11/30/2005]

21.17.50.4 DURATION: Permanent.
[7/1/1997; 21.17.50.4 NMAC - Rn, 21 NMAC 17.50.4, 11/30/2005]

21.17.50.5 EFFECTIVE DATE: [~~July 1, 1997~~] October 15, 2025, unless a later date is cited in the history note at the end of a section.
[7/1/1997; 21.17.50.5 NMAC - Rn, 21 NMAC 17.50.5, 11/30/2005]

21.17.50.6 OBJECTIVE: The objective of Part 50 of Chapter 17 is to set criteria for the use of pesticides in New Mexico, including the licensing and certification of pesticide applicators, record keeping, equipment inspection, fees, storage and disposal of pesticides.
[7/1/1997; 21.17.50.6 NMAC - Rn, 21 NMAC 17.50.6, 11/30/2005]

21.17.50.7 DEFINITIONS:

A. **"Active ingredient"** means any ingredient which will prevent, destroy, repel, control or mitigate a pest or which will act as a regulator, defoliant or desiccant.

B. **"Aircraft"** means any fixed-wing aerial equipment or helicopter used to apply pesticides.

[~~**C. "Antidote" means a practical treatment in case of poisoning and includes first-aid treatment.**~~]

[**D**] **C.** **"Bait"** means an edible material containing a pesticide attractive to a pest.

[~~**E. "Beneficial insect" means any insect which, during its life cycle, is an effective pollinator of plants, is a parasite or predator of pests, or is an insect that provides useful products.**~~]

[**F**] **D.** **"Certified applicator"** means any person who has complied with the certification requirements established by the department to use or supervise the use of any pesticide covered by a valid license issued by the department.

[**G**] **E.** **"Competent"** means properly qualified to perform functions associated with pesticide application and/or use, the degree of capability required being directly related to the nature of the activity and the associated responsibility.

[**H**] **F.** **"Defoliant"** means any substance or mixture of substances intended for causing the leaves or foliage to drop from a plant, with or without causing abscission.

[**I**] **G.** **"Desiccant"** means any substance or mixture of substances intended for artificially accelerating the drying of plant tissue.

[**J**] **H.** **"Direct supervision"** means verifiable instruction to a competent person as follows:

(1) detailed guidance for applying and/or using the pesticide properly; and

(2) provisions for contacting the certified applicator in the event he is needed; or

(3) actual physical presence of a certified applicator when required by the label.

[K] I. **"Disposal"** means to abandon, deposit, inter, or otherwise discard of waste as a final action after its use has been achieved or a use is no longer intended.

[L] J. **"Fungus"** means any non-chlorophyll-bearing thallophyte (that is, any non-chlorophyll-bearing plant of a lower order than mosses and liverworts) as, for example, rust, smut, mildew, mold and yeast, except those on or in processed food, beverages, or pharmaceuticals.

[M] K. **"Ground equipment"** means any equipment used to supply pesticides that is operated on the ground and is self-propelled, or is mounted, drawn, or transported by a tractor, truck or other vehicle, and that is:

(1) gravity fed;

(2) mechanically driven by chain, gears or belts; or

(3) obtains power or pressure from a power-take-off or engine.

[N] L. **"Hazardous pesticide waste"** means any pesticide waste in a concentration or quantity, or a waste pesticide container which the board declares to be hazardous to the public health and safety, domestic livestock or wildlife or property.

[O] M. **"Illegal residue"** means the amount of pesticide remaining in or on food or feed crops and crop by-products, or in meat, meat by-products, or in the fat or milk of animals in excess of tolerances established by the U.S. environmental protection agency (EPA).

[P] N. **"Inert ingredient"** means any ingredient which has no active properties.

[Q] O. **"Manual equipment"** means any pressurized or electrically operated equipment (excluding hand-sized pressurized containers containing pesticides) used to apply pesticides that is carried or drawn as a complete unit by the person who applies the pesticide.

[R] P. **"Open burning"** means the combustion of pesticide waste in any fashion other than by incineration in an incinerator approved and permitted by the New Mexico environment department and designed for that waste.

[S] Q. **"Open dumping"** means the placing of pesticide waste in a land site other than a sanitary landfill as defined herein.

[T] R. **"Operator technician"** means any person who uses any pesticide as an employee of a commercial applicator.

[U] S. **"Permit"** means a written certificate of authority issued by the department to use or apply pesticides.

[V] T. **"Pest"** means any living organism injurious to other living organisms (except man and viruses, bacteria, or other microorganisms in or on other living organisms other than plants) that is a vector of a disease, or is a parasite on another organism and includes, but is not limited to, organisms in the phyla, Platyhelminthes (flatworms, flukes, tapeworms), Nemathelminthes (roundworms), Mollusca (snails), Annelida (earthworms), Arthropoda (centipedes, millipedes, spiders, mites, ticks, insects) and Chordata (fish, amphibians, reptiles, birds, mammals, excluding man).

[W] U. **"Pest control operator"** means a commercial applicator certified in one or more of the license classification(s) 7A, 7B, 7C, or 7D of Paragraphs (10) through (13) of Subsection B of 21.17.50.8 NMAC.

[X] V. **"Pesticide waste"** means any active or inert ingredient, or any combination thereof, of a labeled pesticide in either its packaged concentration or diluted for use which is intended for disposal. The term "pesticide waste" does not include any pesticide packaged in a form suitable for use in the household, or for agricultural use by a farmer or rancher.

~~[Y. "Plant regulator" means any substance or mixture of substances, intended, through physiological action, for accelerating or retarding the rate of growth or rate of maturation, or for otherwise altering the behavior of ornamental or crop plants or the produce thereof but shall not include substances to the extent that they are intended as fertilizers, such as plant nutrients, trace elements, nutritional chemicals, plant inoculants or soil amendments.]~~

[Z] W. **"Protective equipment"** means clothing, respirators, goggles or other equipment or materials used to shield an applicator against unintended exposure to pesticides.

[AA] X. **"Public pest management consultant"** means any individual who is employed by a governmental agency or municipality and who offers or supplies technical advice or makes recommendations to a user of restricted-use pesticides.

[BB] Y. **"Sanitary landfill"** means a land site for the disposal of wastes as specified under the environmental improvement board's solid waste management regulations in such a manner so as to preclude hazards to public health and safety, domestic livestock or wildlife, and loss of property by utilizing the principles of engineering to confine the wastes to the smallest practical area and to cover with soil.

[CC] Z. **"Service container"** means any container utilized to hold, store or transport a pesticide concentrate or a pesticide use-dilution preparation other than 1) the original labeled container provided by the manufacturer or 2) the application equipment. Containers used for waste pesticides are not deemed to be service containers.

[DD] AA. **"Service vehicle"** means any vehicle used to transport pesticide application equipment, or use-dilution preparation to the application site.

[EE] BB. **"Use-dilution preparation"** means a pesticide preparation which is mixed with a diluent and at a rate specified on the label or labeling which produces the concentration of the pesticide provided on the registered label or labeling.

[FF] CC. **"Waste pesticide container"** means any container intended for disposal which formerly held pesticides.

[GG] DD. **"Water dumping"** means the disposal of pesticide waste in or on lakes, ponds, rivers, sewers, arroyos or any watercourse, except properly designed and constructed manmade facilities approved by the New Mexico environmental improvement division.

[HH] EE. **"Weed"** means any plant which grows where not wanted.

[7/1/1997; 21.17.50.7 NMAC - Rn, 21 NMAC 17.50.7, 11/30/2005; A, 3/14/2008]

21.17.50.8 LICENSE CATEGORIES:

A. This section delineates the license categories and the scope of operations which may be performed under each category. These license categories represent the certification examinations taken by commercial, public and non-commercial applicators, pest management consultants and public pest management consultants.

B. License category and code number:

(1) IA -- Agricultural pest control -- includes the control of insects, mites, plant, diseases, nematodes, and the use of soil fumigants, on agronomic crops.

(2) IB -- Agricultural weed control -- includes the control of undesirable plants that compete with agricultural crops for water and plant nutrients and includes the use of desiccants, fumigants and defoliants.

(3) IC -- Animal pest control -- includes spraying, dusting, dipping, or administering pesticides internally to control pests such as lice, mites, bots, fleas and flies on pets and livestock or treatment of places where animals are confined.

(4) 2-- Forest pest control -- includes the application of pesticides in forests, forest nurseries and forest seed producing areas.

(5) 3A -- Ornamental and turf pest control: insecticides and fungicides -- includes the control of insect and disease pests in the maintenance and production of ornamental trees, shrubs, flowers and turf.

(6) 3B -- Ornamental and turf pest control: herbicides -- includes the control of undesirable vegetation in the maintenance and production of ornamental trees, shrubs, flowers and turf.

(7) 4 -- Seed treatment -- includes the treatment of seeds to control insects, plant diseases and other pests.

(8) 5 -- Aquatic pest control -- includes the application of a pesticide to standing or running water to control algae, undesirable fish and other aquatic organisms, excluding public health pest control.

(9) 6 -- Right-of-way pest control -- includes the control of vegetation along public roads, electric powerlines, pipelines, railway rights-of-way, around oil well, storage areas, airports and similar areas.

(10) 7A -- Structural pest control -- includes the control of household pests, fabric pests and stored product pest.

(11) 7B -- Vertebrate animal control -- includes the control of rodents, birds, bats and predators of wildlife and domestic animals.

(12) 7C -- Fumigation -- includes the use of gases such as methyl bromide, hydrogen cyanide and phosphine to control pests in structures, railroad cars, stored grain and similar areas.

(13) 7D -- Wood destroying pest control -- includes the control of termites, carpenter ants, wood-boring or tunneling beetles, fungi and other organisms which attack lumber in structures or sawed lumber.

(14) 8 -- Public health pest control -- includes the control of mosquitoes, flies, fleas and other vectors that transmit human or animal diseases.

(15) 9 -- Regulatory pest control -- includes state, federal or other governmental employees who control regulated and/or quarantined pests.

(16) 10 -- Demonstration and research pest control -- includes:

(a) individuals who demonstrate to the public the proper use of restricted-use pesticides; or

(b) who conduct field research with pesticides.

(17) 11 -- Other -- to be assigned by the director.

[7/1/1997; 21.17.50.8 NMAC - Rn, 21 NMAC 17.50.8, 11/30/2005; A, 3/14/2008]

21.17.50.9 EXPIRATION DATE OF LICENSES: The annual registration of pesticides and any licenses or certifications provided for in the Pesticide Control Act shall expire on the dates indicated in this section unless it has been revoked or suspended prior thereto by the director.

A. The annual pesticide or device registration shall expire on [~~December~~] January 31 following issuance.

B. The annual pesticide dealer license shall expire on [~~December~~] January 31 following issuance.

C. The annual pest management consultant license shall expire on [~~December~~] January 31 following issuance.

D. The annual commercial applicator license shall expire on [~~December~~] January 31 following issuance.

E. The annual operator/technician license shall expire on [~~December~~] January 31 following issuance.

F. The annual non-commercial applicator license shall expire on [~~December~~] January 31 following issuance.

G. The annual public applicator license shall expire on [~~December~~] January 31 following issuance.

H. The annual public pest management consultant license shall expire on [~~December~~] January 31 following issuance.

I. The private applicator certification shall expire on [~~December~~] January 31 five years following the [~~date~~] year of issuance.

[7/1/1997; 21.17.50.9 NMAC - Rn, 21 NMAC 17.50.9, 11/30/2005; A, 3/14/2008]

21.17.50.10 RECORDS:

A. Each commercial applicator, non-commercial applicator and public applicator shall keep records for pesticides applied by them or persons under their direct supervision which shall include the following:

(1) name of the person for whom the pesticide was applied;

(2) target pest(s) and crop or site;

(3) year, month, day, and time the pesticide was applied;

(4) brand name or common name of the pesticide and U.S. environmental protection agency registration number(s) of the pesticide(s);

(5) direction and estimated velocity of the wind and the temperature at the application site at the time the pesticide was applied; this requirement shall not apply to application of baits in bait stations or pesticide applications in or immediately adjacent to structures;

(6) concentration of the pesticide(s) applied; example: pounds, ounces or pints of pesticide formulation per gallon applied;

(7) volume of use-dilution preparation applied, if applied in categories 1A, 1B, 2, 3A, 3B, 5, 6, 7D and 8 as defined in Section 8;

(8) location of the land or city address to which pesticide was applied;

(9) if applicable, all aircraft identification numbers;

(10) name and address of the business or agency and the name of the individual making the application.

B. Pesticide application records shall be completed and available to the department within 24 hours after the pesticide is applied.

C. Pesticide application records shall be kept for a period of two years from the date of the application of any pesticide. Upon request, in writing, the department shall be furnished with a copy of these records.

D. Upon written request, the customer shall be provided with a record of each application of pesticide applied to his land which includes all information given under Subsection A of 21.17.50.10 NMAC.

E. Holders of private applicator licenses for M-44 sodium cyanide capsules shall submit to the director by September 15, their field records on the use of the M-44 capsules for the preceding period of September 1 through August 31.

[7/1/1997; 21.17.50.10 NMAC - Rn, 21 NMAC 17.50.10, 11/30/2005]

21.17.50.11 INSPECTION AND CARE OF EQUIPMENT:

A. Equipment used for applying pesticides by a commercial applicator shall be kept in good mechanical condition. Parts that show signs of wear or malfunction shall be replaced to prevent leakage and to assure uniform dispersal of the pesticide. Equipment, where applicable, shall be calibrated accurately to dispense the prescribed amount of pesticide. Hoses or parts not suitable or not intended for use on spray equipment shall not be used.

B. Equipment to be licensed shall be inspected for, but not limited to, the following:

(1) nozzle condition and function;

(2) suitable type of hose;

(3) tank condition;

(4) hose and pipe connections and condition;

(5) proper functioning of pressure regulators, if equipped;

(6) proper functioning of emergency dump valve;

(7) proper functioning of pump;

(8) decal or license plate affixed to the equipment.

C. When the same equipment is used to apply different types of pesticides, it shall be cleaned thoroughly if:

(1) an insecticide is used following the use of a herbicide or defoliant; or

(2) residue from material used previously is not compatible with other pesticides to be used; or

(3) a pesticide has been used that would cause an illegal residue on cultivated crops or processed food.

D. Equipment shall be cleaned in a manner that no residues remain that will cause injury to land, humans, desirable plants or animals when making subsequent application of pesticides.

E. A uniform mixture shall be maintained in the equipment at all times while applying pesticides.

F. Pesticides that remain in spray equipment after a job is completed, and for which no further legal use is intended, shall be disposed of in a manner and location that would not cause unreasonable adverse effects on the environment. Pesticides from any equipment shall not be dumped along public highways, into streams, or at any location that would cause unreasonable adverse effects on the environment.

G. Bait boxes and watering stations placed by commercial applicators, non-commercial applicators, and public applicators shall be legibly marked with the business name of the commercial applicator or name of the public agency; the brand name or common name or chemical name of the pesticide or the active ingredient(s); the EPA registration number; and current ~~[the]~~ phone number of the New Mexico poison control center in Albuquerque, New Mexico ~~[(1-800-432-6866)]~~.

H. In food handling establishments rodenticides shall be placed in bait boxes or watering stations marked with the information required in Subsection G of 21.17.50.11 NMAC.

I. Service containers shall have affixed to them a legible label with the common name of the active ingredient(s) or the brand name of pesticide contained therein.

J. Securing pesticides and equipment on service vehicles: any container or portable application equipment containing pesticides or pesticide residues shall not be left unattended on a service vehicle unless the container or equipment is in a locked compartment or secured in such a manner so as to render it inaccessible to an unauthorized person.

[7/1/1997; 21.17.50.11 NMAC - Rn, 21 NMAC 17.50.11, 11/30/2005]

21.17.50.12 PROTECTIVE EQUIPMENT: All licensed certified applicators shall be required to make available protective equipment properly decontaminated and in proper working order, and advise their employees of its use to meet the safety requirements of the pesticide labeling.

[7/1/1997; 21.17.50.12 NMAC - Rn, 21 NMAC 17.50.12, 11/30/2005]

21.17.50.13 APPLICATION OF PESTICIDES:

A. A licensed certified applicator shall apply only those pesticides registered for use in New Mexico under his license category(s). Any person applying pesticides shall follow directions, rates and precautions stated on the approved label and labeling. Application or use of a pesticide in a manner inconsistent with the directions on the

approved label and labeling shall constitute an illegal use of the pesticide. Restricted-use pesticides shall be applied only by licensed certified applicators or persons under their direct supervision.

B. If a commercial pesticide applicator uses a liability insurance policy as proof of financial responsibility, the applicator shall not apply pesticides exempted in the policy.

[7/1/1997; 21.17.50.13 NMAC - Rn, 21 NMAC 17.50.13, 11/30/2005; A, 3/14/2008]

21.17.50.14 CHANGE OF BUSINESS STATUS:

A. Any person issued a license under the Pesticide Control Act shall within 10 days notify the director in writing of any change of:

(1) employment;

(2) ownership of the firm;

(3) the business firm name, address or any pertinent data on his application;

(4) licensed employees.

B. Licenses issued under the New Mexico Pesticide Control Act are nontransferable.

[7/1/1997; 21.17.50.14 NMAC - Rn, 21 NMAC 17.50.14, 11/30/2005]

21.17.50.15 DISPLAY AND STORAGE OF PESTICIDES:

A. Pesticides intended for distribution or sale shall be displayed or stored within an enclosed building or fenced area and shall not be displayed on sidewalks, parking lots or similar open areas.

B. Pesticides shall be stored in a manner that will reasonably insure that human foods, pet foods, drugs, animal feeds, commercial fertilizers, seeds or clothing will not be contaminated.

C. Pesticides in leaking, broken, corroded or otherwise damaged containers or with damaged or obscured labels, shall not be displayed or offered for sale.

[7/1/1997; 21.17.50.15 NMAC - Rn, 21 NMAC 17.50.15, 11/30/2005]

21.17.50.16 IDENTIFICATION OF VEHICLES:

A. All service vehicles used by a commercial applicator for distributing pesticides or devices shall be marked with:

(1) name of the firm;

(2) commercial applicator's license number.

B. All letters and numerals shall be of bold lettering at least one and one-half (1-1/2) inches high with a contrasting color as background. Markings shall be visible on both the right and left side of the service vehicle.

[7/1/1997; 21.17.50.16 NMAC - Rn, 21 NMAC 17.50.16, 11/30/2005]

21.17.50.17 PESTICIDE DEALERS:

A. Each applicant for a pesticide dealer license for outlets within New Mexico shall provide adequate facilities for the storage and distribution of restricted-use pesticides.

B. Each pesticide dealer shall keep a record of the sale of all restricted-use pesticides. Information to be recorded shall include:

(1) name and license number of the certified applicator;

(2) date of sale;

(3) brand name of the pesticide product and its EPA registration number;

(4) quantity of restricted-use pesticide sold.

C. A pesticide dealer license shall be, in addition to any other license or permit, required by law for offering or supplying technical advice, supervision or aid or making a recommendation to the user of highly toxic pesticides, restricted use pesticides, or both, by a dealer or his employees.

D. It shall be unlawful for a pesticide dealer to knowingly sell any restricted-use pesticide to any person who is not a licensed certified applicator, provided individuals under the direct supervision of a certified applicator may receive and transport restricted-use pesticides for a certified applicator.

[7/1/1997; 21.17.50.17 NMAC - Rn, 21 NMAC 17.50.17, 11/30/2005]

21.17.50.18 LICENSE APPLICATION AND EXAMINATION: CERTIFICATION AND LICENSING:

A. The applicant may elect to be examined in one or more of the classifications of pest control shown on the application. The examination fee, if applicable, shall be paid prior to administering any examination. If the

applicant fails to pass any required examination, he may request, to take such failed examination at another date provided an additional examination fee, if applicable, is paid. A grade of 70 shall be passing on all examinations.

B. If an applicant has not completed all license requirements within 60 days from the date of the original application, then said applicant will be subject to the fees and requirements of a new applicant.

C. The director shall not consider any license application by any individual during the effective period of the license suspension or revocation of any license issued under the Pesticide Control Act.

[7/1/1997; 21.17.50.18 NMAC - Rn, 21 NMAC 17.50.18, 11/30/2005; A, 3/14/2008]

21.17.50.19 REVIEW OF CERTIFICATION AND LICENSES: The director may review any certification, license, or permit to determine if there are grounds for denial, suspension, or revocation action. A review shall be warranted in the case of:

A. violation of some provision of the Pesticide Control Act or regulations promulgated thereunder;

B. criminal conviction under Section 14(b) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended;

C. a final order imposing civil penalty under Section 14(a) of amended FIFRA;

D. certification obtained by cheating on an examination or providing false information about attendance or completion of required training or continuing education;

E. a license is obtained or utilized for reasons other than the intended purpose of allowing purchase or use of pesticides as required under the New Mexico Pesticide Control Act or regulations promulgated thereunder.

[7/1/1997; 21.17.50.19 NMAC - Rn, 21 NMAC 17.50.19, 11/30/2005; A, 3/14/2008]

21.17.50.20 OPERATOR/TECHNICIAN TRAINING PERMITS: A new employee of a licensed commercial applicator may work up to 60 calendar days under a operator/technician training permit provided another commercial applicator or technician licensed in New Mexico at least 6 months is present on the application site. Prior to expiration of the operator/technician training permit, permittees shall take the required examination(s). The permit shall be issued on the request of a licensed commercial applicator. The operator/technician training permit can not be extended.

[7/1/1997; 21.17.50.20 NMAC - Rn, 21 NMAC 17.50.20, 11/30/2005; A, 3/14/2008]

21.17.50.21 PROOF OF FINANCIAL RESPONSIBILITY:

A. A commercial applicator license shall not be issued until the applicant has furnished proof of financial responsibility acceptable to the director. This requirement may be satisfied by:

- **(1)** a certificate of liability insurance signed by an authorized insurance representative; or
- **(2)** a certified copy of a liability insurance policy; or
- **(3)** a surety bond.

B. Proof of financial responsibility by any means other than a certified copy of the policy shall be provided by the issuing company on forms provided by or approved by the director.

C. Proof of financial responsibility shall be clearly conditioned to cover liability resulting from the handling, storage, disposal, application, use or misuse of any pesticide.

D. The director shall be notified in writing by the issuing company 10 days prior to any reduction or cancellation of insurance coverage.

E. The insurer or surplus line broker shall be authorized to do business in New Mexico.

[7/1/1997; 21.17.50.21 NMAC - Rn, 21 NMAC 17.50.21, 11/30/2005]

21.17.50.22 MINIMUM COVERAGE REQUIREMENTS:

A. Surety bond -- $100,000.

B. Liability insurance:

- **(1)** Aircraft.
  - **(a)** Bodily injury -- $25,000 each occurrence, $50,000 aggregate.
  - **(b)** Property damage -- $50,000 each occurrence.
  - **(c)** Single limit bodily injury and property damage -- $100,000.
- **(2)** Ground or manual.
  - **(a)** Bodily injury -- $10,000 each occurrence -- $25,000 aggregate.
  - **(b)** Property damage -- $25,000 each occurrence.
  - **(c)** Single limit bodily injury and property damage -- $50,000.

(3) Maximum amount of deductible (if applicable) -- $1,000.
[7/1/1997; 21.17.50.22 NMAC - Rn, 21 NMAC 17.50.22, 11/30/2005]

21.17.50.23 STORAGE AND DISPOSAL OF PESTICIDES AND PESTICIDE WASTES:

A. Pesticide waste and pesticides intended for use by commercial pesticide applicators shall be stored in enclosed, secured areas and shall be posted with warning signs in English and Spanish.

B. Pesticide wastes, provided they are not also hazardous pesticide wastes, shall be disposed of in an approved sanitary landfill.

C. Hazardous pesticide waste shall be disposed of in a permitted hazardous waste disposal site or in a designated area of an approved sanitary landfill under the supervision of the operator; provided, the department shall have the power to disallow disposal in an approved sanitary landfill if the hazardous pesticide waste is determined to be of such a nature that disposal should only be in a permitted hazardous waste disposal site.

D. Waste pesticide containers shall be crushed or rendered non-serviceable and disposed of in an approved sanitary landfill.

E. Rinsings and waste waters from the cleaning of pesticide apparatuses which can reasonably be expected to contain pesticide contaminants shall be contained in the cleanup area and not allowed to contaminate water or neighboring land.

F. Waste pesticides from livestock dipping vats shall be placed in evaporation ponds so as to avoid contamination of any surface or ground waters.

G. Pesticide waste or waste pesticide containers shall not be disposed of by open dumping, open burning, or water dumping in the state of New Mexico.

H. No pesticide waste shall be disposed of in any sewer or storm drain.

I. No pesticide waste or waste pesticide containers shall be disposed of in a manner inconsistent with its label or labeling.
[7/1/1997; 21.17.50.23 NMAC - Rn, 21 NMAC 17.50.23, 11/30/2005]

21.17.50.24 VARIANCE:

A. The director may grant a variance from any provision of 21.17.50.23 NMAC under special circumstances, provided such variance does not violate other state or federal laws.

B. A request for a variance shall be made to the director in writing and shall contain such information as the department deems necessary.
[7/1/1997; 21.17.50.24 NMAC - Rn, 21 NMAC 17.50.24, 11/30/2005]

21.17.50.25 FEES:

A. The annual registration fee for each pesticide or device registered shall be one hundred and fifty dollars ($150) [~~($100.00)~~].

B. The annual pesticide dealer license fee for each location or outlet within the state, or if there is no outlet within the state, for the principal out-of-state location or outlet, shall be [~~seventy-five dollars ($75.00)~~] one hundred dollars ($100).

C. The annual pest management consultant license fee shall be [~~seventy-five dollars ($75.00)~~] one hudred dollars ($100).

D. The annual commercial applicator license fee shall be [~~seventy-five dollars ($75.00)~~] one hundred dollars ($100).

E. The annual operator/agricultural pilot/serviceman license fee shall be [~~fifty dollars ($50.00)~~] seventy-five dollars ($75.00).

F. The annual non-commercial applicator license fee shall be [~~seventy-five dollars ($75.00)~~] one hundred dollars ($100).

G. The private applicator certification fee, or renewal thereof, shall be [~~fifteen dollars ($15.00)~~] twenty-five dollars ($25.00).

H. The fee for each additional inspection required to certify a unit of aircraft, ground or manual equipment that fails to pass inspection shall be twenty-five dollars ($25.00).

I. The examination fee for each examination needed to qualify the applicant as a pest management consultant, commercial applicator, non-commercial applicator or operator/agricultural pilot/serviceman shall be [~~ten dollars ($10.00)~~] twenty dollars ($20.00) per examination.
[7/1/1997; 21.17.50.25 NMAC - Rn & A, 21 NMAC 17.50.25, 11/30/2005, A, 11/15/2010]

HISTORY OF 21.17.50 NMAC:
Pre-NMAC History: The material in this part was derived from that previously filed with the State Records Center and Archives under:
NMDA Rule 67-2, Pesticide Regulations, Regulatory Order No. 1, filed 6/12/1967.
NMDA Rule 68-1, Pesticide Regulations, Regulatory Order No. 1, Amended, filed 6/12/1967.
NMDA Rule 70-1, Pesticide Regulations, Regulatory Order No. 1, Section 3, filed 3/4/1970.
NMDA Rule 70-2, Pesticide Regulations, Regulatory Order No. 2, filed 3/4/1970.
NMDA Rule 70-3, Pesticide Regulations, Regulatory Order No. 1, filed 12/24/1970.
NMDA Rule 71-4, Pesticide Regulations, Regulatory Order No. 2, filed 12/15/1971.
NMDA Rule 72-2, Pesticide Regulations, Regulatory Order No. 3, filed 3/6/1972.
NMDA Rule 73-8, Pesticide Regulations, Regulatory Order No. 1, filed 9/13/1973.
NMDA Rule 74-5, Pesticide Regulations, Regulatory Order No. 2, filed 7/10/1974.
NMDA Rule 75-5, Pesticide Regulations, Regulatory Order No. 3, filed 9/15/1975.
NMDA Rule 78-3, Regulatory Order No. 4, Storage/Disposal of Pesticides, filed 9/21/1978.
NMDA Rule 79-2, Regulatory Order No. 5, Definitions, Licensing, Equipment Inspections, Record Keeping of Pesticides by Regulated Applicators, filed 11/21/1979.
NMDA Rule 79-4, Regulatory Order No. 7, Establishes Financial Responsibility for Commercial Applicators, filed 11/21/1979.
NMDA Rule 79-5, Regulatory Order No. 8, Establishes Fee for Pesticide Registration and Licenses, filed 11/21/1979.
NMDA Rule 81-2, Regulatory Order No. 10, Establishes Fee for Pesticide Registration and Licenses, filed 5/21/1981.
NMDA Rule 85-4, Fees for Pesticide Registrations and Licenses, filed 8/7/1985.
NMDA Rule 88-2, Fees for Pesticide Registrations and Licenses, filed 3/23/1988.

History of Repealed Material: [RESERVED]

PUBLIC COMMENT

NMDA received sixteen written public comments via the online submission form and email, and three stakeholders provided verbal comment during the July 29, 2025, hearing regarding the proposed repeal and replacement of 21.17.50 NMAC.

The fifteen comments received prior to the hearings stated opposition to the change in expiration date from December 31 to January 31, citing concerns of potential loss of Continuing Education Units. A representative comment is provided below, and the full text of all written comments is included in the Exhibits.

Name: Logan McGarrah
Email: logan.mcgarrah@corteva.com
Comment: I am opposed to changing the renewal dates for the licenses. The proposed changes will interfere with the traditional CEU earning opportunities that occur during meetings in January. I would like the renewal date to remain December 31st.

Additional outreach to stakeholders was conducted prior to the hearings, and the explanation below regarding licensees' concerns was posted on the New Mexico Department of Agriculture website and emailed to license holders.

Continuing Education Units and the Proposed Change to License Expiration Dates

NMDA is aware of concerns related to Continuing Education Units (CEUs) and the proposed expiration date change to Pesticide Applicator licenses.

The upcoming license renewal cycle would be a transition period, and we would need to verify that CEU courses attended by some licensees are applied to the license year they are in and which one they would qualify to renew for (2026 or 2027). Beyond the first January 31st expiration, the system NMDA uses would automatically assign CEUs for the next license year. CEU and renewal paperwork are valid and processed based on the postmark or email date and not on the date received by NMDA. The postmark and email date must be before or up to an expiration date to be valid.

Scenario 1: 2026 and 2027 potential impact
I already attended a CEU course in 2025 to renew my license for 2026.
Will my 2025 CEUs count only for renewal up until January 31, 2026?
Answer: Yes
What if I then:
Attend a CEU course in January of 2026, will I receive credit to renew my license for 2027?
Answer: Yes

Scenario 2: 2026 and 2027 potential impact
I have not attended a CEU course in 2025 to renew my license for 2026.
Can I attend a CEU course in January of 2026 to renew my license for 2026?
Answer: Yes
Will these CEUs count for renewal in 2027.
Answer: No, you will need to attend a class between February 2026 and January 31st 2027 for that renewal period.

For this initial transition period, either scenario benefits a licensee and CEU course sponsor. With licensees accustomed to December 31st expiration, another month available to obtain CEUs will result in an increase in course participation in January.

Note: There is no change to the double fee period for those licenses that have a fee associated with them. Double fees apply for renewal 30 days after an expiration date. CEUs however can only be obtained up to the expiration date of a license.

The extensive outreach by Pesticide Program staff was effective. Three stakeholders provided verbal comments during the July 29, 2025, hearing expressing support for the proposed changes. A transcription of Logan McGarrah's verbal comments is provided below, and other verbal comments are available in the hearing transcript, Exhibit #.

Logan McGarrah, immediate past president of the New Mexico Crop Production Association. On behalf of our membership, I would like to state for the record, we did initially have some concerns with the date changing from December 31st to January 31st. I would also like the

record to reflect that Assistant Director Baca has been very accommodating to us and helped us work through all those problems and we are now in support of the changes.

The final written comment received on July 31, 2025, provided on the following page, expresses support for all proposed changes to the Pesticide Rule.

HEARING OFFICER'S CONCLUSION

This memorandum serves as a summary of the hearings conducted on July 29 and 31, 2025. The information is presented for your review and to assist you in formulating a recommendation to the New Mexico State University Board of Regents regarding the adoption of the proposed repeal and replacement of the NMDA's Pesticide Rule, Title 21, Chapter 17, Part 50 of the New Mexico Administrative Code.

The age of the Pesticide Rule required a repeal and replacement process to address updates to style and format in conjunction with the proposed amendments. Principal proposed rule amendments remove three unwarranted definitions (Subsections C, E and Y of 21.17.50.7 NMAC); revises expiration dates for pesticide registration and pesticide applicator licenses from December 31 to January 31 (Subsections A et. seq. of 21.17.50.9 NMAC); updates 15-year-old annual licensing fees for pesticide dealers, pest management consultants, commercial applicators, non-commercial applicators, pesticide operators and private applicators (Subsection B through G of 21.17.50.25 NMAC); and updates the 2010 pesticide registration and examination fees (Subsection A and I of 21.17.50.25 NMAC).

While there was initial opposition to the proposed change in pesticide license expiration date, stakeholder groups including the New Mexico Crop Production Association, New Mexico Pest Management Association, and Household & Commercial Products Association expressed support for the proposed changes to 21.17.50 NMAC after NMDA Pesticide Program staff explained how the changes would be implemented and allayed their concerns. My recommendation is that the proposed repeal and replacement of 21.17.50 NMAC be adopted without changes.

HOUSEHOLD & COMMERCIAL PRODUCTS ASSOCIATION

Innovative Products For Home. Work. Life.

July 31, 2025
Brad Lewis, Division Director, Agricultural and Environmental Services
New Mexico Department of Agriculture
Office of the Director
MSC 3189, PO Box 30005
1050 Stewart Street
Las Cruces, NM 88003-8005
Submitted via email to comments@nmda.nmsu.edu

Re: Proposed Rulemaking to NMAC 21.17.50

Dear Director Lewis,

On behalf of the Household & Commercial Products Association[1] (HCPA) and its members, we want to convey our comments on the New Mexico Department of Agriculture's (NMDA) proposed rule to repeal and replace Title 21, Chapter 17, Part 50 of the New Mexico Pest, Disease and Weed Control regulation pertaining to Pesticides.

HCPA appreciates the change of the expiration date from December 31 to January 31. This appears to be a practical solution to having expiration dates coincide with the holiday season. In most cases, this would have minimal impact, as renewals are often submitted well in advance of the expiration date; however, it does provide a better opportunity for a registrant to contact NM staff with questions.

HCPA appreciates the adjustment of the annual registration fee from $100 to $150 for each registered device or pesticide. We agree that it is essential for NMDA to have sufficient funds to cover the costs of services, inspections, and licensing, while maintaining a level of service that is essential to the business community. The timely completion of registrations and renewals is crucial to business operations, and delays can have significant operational and financial consequences. HCPA requests that the increase in registration and renewal fees be matched with a commitment to timely and predictable processing, and that the increased fees remain within the NMDA.

With that goal in mind, HCPA encourages NMDA to publicly communicate typical timelines and processing goals for NMDA. For example, Washington State and

[1] HCPA is the premier trade association representing the interests of companies engaged in the manufacture, formulation, distribution and sale of more than $180 billion annually in the U.S. of familiar consumer products that help household and institutional customers create cleaner and healthier environments. HCPA member companies employ hundreds of thousands of people globally. HCPA represents products including disinfectants that kill germs in homes, hospitals and restaurants; air fresheners, room deodorizers, and candles that eliminate odors; pest management products for pets, home, lawn, and garden; cleaning products and polishes for use throughout the home and institutions; products used to protect and improve the performance and appearance of automobiles; aerosol products and a host of other products used every day.

1625 I Street NW, Suite 700, Washington, DC 20006 | 202-872-8110 | www.theHCPA.org

California regularly maintain and update their performance metrics.[2] This information would assist both registrants and NMDA while fostering predictability in the registration and renewal process.

HCPA appreciates the opportunity to provide feedback and would be happy to address any follow-up questions.

Sincerely,

Steven Bennett, Ph.D.
Executive Vice President, Scientific & Regulatory Affairs

[2] Washington State Department of Agriculture:
https://agr.wa.gov/departments/pesticides-and-fertilizers/pesticides/pesticide-registration/product-registration/registration-timelines
California Department of Pesticide Regulation:
Pesticide Registration Program Annual Processing Timelines
https://www.cdpr.ca.gov/wp-content/uploads/2025/04/ca_notice_2025-06.pdf

Hearing Transcript- for July 29, 2025

21.17.50 PESTICIDE RULE REPEAL AND REPLACEMENT RULEMAKING HEARING

Moderated by Les Owen

Tuesday, July 29, 2025

11:00 a.m.

Gerald Thomas Hall Auditorium, New Mexico State University

940 College Drive (Room 194)

Las Cruces, NM 88003

Reported by: Ryan Auten

JOB NO: 7452797

PROCEEDINGS

MR. OWEN: Good morning. At this time, we'll start the hearing That addresses the proposed repeal and replacement of the Pesticide Rule, Title 21, Chapter 17, Part 50 of the New Mexico Administrative Code.

My name is Les Owen, and I am Deputy Director with the New Mexico Department of Agriculture. Today, I will be officiating this hearing.

Please make sure that you have signed in for the record and that your cell phone is off or silenced. Thank you.

Copies of the proposed amendments to the Pesticide Rule were made available in strikethrough version and in clean copy form as you walked in.

If you require copies, please hold your hand up and they will provide be provided to you. For our virtual participants, electronic copies are available on the department's website at nmdeptag.nmsu.edu.

The day and date is Tuesday, July 29, 2025, and the time is 11:00 a.m. This hearing is being held in person and virtually in New Mexico State

University's Gerald Thomas Hall Auditorium, located at nine 40 College Drive, Las Cruces, New Mexico. This is the published date, time, and location for this hearing.

This hearing is being recorded, and either a transcript of today's hearing or the video recording will be available from the department's webpage.

Following a summary of the proposed primary amendments, the public will be provided an opportunity to provide testimony regarding the proposed rule.

Mr. Baca will now provide a summary of the public notices, primary proposed amendments to the Pesticide Rule, and any related information.

MR. BACA: Good morning. I'm Steve Baca, an Assistant Director with the New Mexico Department of Agriculture.

The Pesticide Rule was promulgated under the authority of the Pesticide Act to address the specifics that regulate the registration of pesticides, licensing of specific pesticide applicators, record keeping, storage and disposal of pesticides, fee structure, and other related activities.

Public notices for this hearing were published as follows, and in accordance with state law; June 24, 2025, in the New Mexico Register; June 24, 2025, in the Albuquerque Journal; June 24, 2025, in the Santa Fe New Mexican in Spanish and English; and June 25, 2025, in the Las Cruces Sun News.

Hearing notices were also posted in the New Mexico Sunshine Portal at the New Mexico Department of Agriculture District Station in Albuquerque and non-New Mexico Department of Agriculture's website in Spanish and English.

Copies of the proposed rule were made available at the New Mexico Department of Agriculture, Las Cruces main office and Lab building, New Mexico Department of Agriculture Veterinary Diagnostic Services Lab in Albuquerque, New Mexico Department of Agriculture Peanut Grading Station in Portales, and on the department's website.

Notification and the proposed rule were sent to the New Mexico Economic Development Small Business Regulatory Advisory Commission and to the Legislative Council Service. As of today, New Mexico Department of Agriculture has not received findings from either.

Notice of public hearings were also

sent to pesticide licensed individuals and businesses impacted by the amendments; to the Pest Management Association, a state industry organization representing licensed pesticide applicators; and to the Household Consumer Product Association, a national industry organization representing pesticide manufacturers.

Although the amendments are relatively few, the age of the Pesticide Rule required a repeal and replacement process to address updates to style and format and in conjunction with the New Mexico Department of Agriculture's proposed amendments.

Primary proposed changes to the existing Pesticide Rule include, change in expiration dates of annual licenses from December 31st to January 31st and an increase in fees related to pesticide product registrations and licenses.

Comments received to date were primarily directed at concerns related to the change in expiration dates and the possible loss of a Continuing Education Units.

The change in expiration date was made to address relicensing issues that may occur during the winter holiday break when New Mexico Department of Agriculture staff are provided time off and are unable

to return calls and help licensees within a one- or two-day period. New Mexico Department of Agriculture staff have made policy changes that will allow for a transition year to ensure no licensee will lose Continuing Education Units.

Adjustments to the Continuing Education Units tracking system will also be made to ensure credits taken in January are applied either to the current or future licensing year to ensure a best benefit for the licensee. An explanation regarding licensees' concerns was posted on the New Mexico Department of Agriculture website and emailed to license holders.

Pesticide product registration fees are proposed to increase from $100 to $150 per product. Product registration fees in other states range from $100 to $2,300 per product.

The majority of license -- of pesticide licenses are issued to commercial applicators. This fee is proposed to increase from $75 to $100 per license. Both Colorado and Texas have a similar fee structure to New Mexico's with their commercial pesticide applicator license fees established at $350 and $125, respectively.

Increased fee revenue will be used to

address mandated staff salary increases, to replace reduction in EPA grants and expected reductions in USDA grants, and to address increased operational costs associated as a result of reductions in USDA state staff and EPA changes in Continuing Education Units. Fees were last adjusted in 2010.

MR. OWEN: Thank you, Mr. Baca.

New Mexico Department of Agriculture has received written comments prior to this hearing from the following: Logan McGarrah, Emily Johnson, Jasmine Labine, Steve Kittrell, Bart Goetz, Keith Settle, Kelby Riley, Ottis Leach, William Cox, Russ Perkins, Ross Goetz, Joseph Ogden, Trent Murphree, Michael Ronquillo, and Greg Alpers.

We will now open the floor for comments. Please begin by stating your name and affiliation for the record. Please restrict your comments to the proposed content of the rule.

Please raise your hand and -- and wait until I call on you. At this time, we will be in accepted comments. Yes, sir.

PODIUM/OPEN FORUM: Logan McGarrah, immediate past president of the New Mexico Crop Production Association. On behalf of our membership, I would like to state for the record, we did initially

have some concerns with the date changing from December 31st to January 31st. I would also like the record to reflect that Assistant Director Baca has been very accommodating to us and helped us work through all those problems and we are now in support of the changes.

MR. OWEN: Thank you.

PODIUM/OPEN FORUM: Hold on. Wait a minute. My name's Terri Cates. I'm here on behalf of New Mexico Pest Management Association, and our association is in favor of all the changes as we think that this will greatly benefit our industry as well as our association.

MR. OWEN: Yes, sir.

PODIUM/OPEN FORUM: Russ Perkins with New Mexico Crop Production Association as well. I am responsible for the CEUs that we gather at our meeting typically in January. I would echo Logan's comments in favor of the change.

Steve was able to explain some things to us as far as my concern was over the CEUs and the timeframe between when our meeting ended and the new proposed date and everything, but it appears that that's been taken care of and a -- a process in place because of that ten-day time frame.

So we're happy with where we are.

MR. OWEN: Thank you.

Okay. We will now begin to accept comments from our virtual participants. Please use the raise your hand function and I will call on you.

Okay. Is there anyone else that would wish to provide comment? Seeing none, we will close the public oral comment period for this hearing.

Written comments will be accepted until 5:00 p.m., Thursday, July 31, 2025. All public comments will be presented to the Secretary/Director of the New Mexico Department of Agriculture, Mr. Jeff Witte, and will be submitted for consideration to the New Mexico State University Board of Regents.

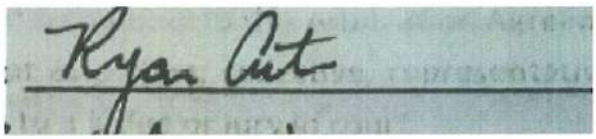
Submitted comments, and either a transcript of today's hearing and/or the recording will be available from the New Mexico Department of Agriculture's webpage.

Thank you all for participating. We will close the hearing at 11:10.

(Whereupon, the meeting concluded at 11:10 a.m.)

CERTIFICATE

I, RYAN AUTEN, the officer before whom the foregoing proceedings were taken, do hereby certify that any witness(es) in the foregoing proceedings, prior to testifying, were duly sworn; that the proceedings were recorded by me and thereafter reduced to typewriting by a qualified transcriptionist; that said digital audio recording of said proceedings are a true and accurate record to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.



RYAN AUTEN

Notary Public in and for the

State of New Mexico

CERTIFICATE OF TRANSCRIBER

I, VENUS COLE, do hereby certify that this transcript was prepared from the digital audio recording of the foregoing proceeding, that said transcript is a true and accurate record of the proceedings to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.



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Hearing Transcript- for July 31, 2025

New Mexico Department of Agriculture

Pesticide Rule Rulemaking Hearing

Moderated by Les Owen, Deputy Director

Thursday, July 31, 2025

10:59 a.m.

Central New Mexico Community College Workforce Training Center

5600 Eagle Rock Avenue Northeast

Albuquerque, NM 87113

Reported by: James Cogswell

JOB NO: 7452800

A P P E A R A N C E S

List of Attendees:

Les Owen, Deputy Director, New Mexico Department of Agriculture

Steve Baca, Assistant Division Director, New Mexico Department of Agriculture

Katie Laney, Assistant Division Director, New Mexico Department of Agriculture

Uriel Fuentes, Assistant Division Director, New Mexico Department of Agriculture

Vanessa Fisher, New Mexico Department of Agriculture

Candie Sweetser, New Mexico Department of Agriculture

Bradley Lewis, New Mexico Department of Agriculture

PROCEEDINGS

MR. OWEN: Good morning. At this time, we will start the hearing that addresses the proposed repeal and replacement of the Pesticide rule, Title 21, Chapter 17, Part 50 of the New Mexico Administrative Code.

My name is Les Owen, and I am deputy director with the New Mexico Department of Agriculture. Today I will be officiating this hearing. Please make sure that you have signed in for the record and that your cell phone is off or silenced. Thank you.

Copies of the proposed amendments to the Pesticide rule were made available in strikethrough version and in clean copy form as you walked in. If you require copies, please hold your hand up and they will be provided to you.

The day and date is Thursday, July 31, 2025, and the time is 11 a.m. This hearing is being held in person at the Central New Mexico Community College Workforce Training Center in Albuquerque, New Mexico, at 5600 Eagle Rock Avenue Northeast. This is the published date, time, and location for this hearing.

A transcript of today's hearing will be

available from the department's webpage. Following a summary of the proposed primary amendments, the public will be provided an opportunity to provide testimony regarding the proposed rule.

Mr. Baca will now provide a summary of the public notices, primary proposed amendments to the Pesticide rule, and any related information.

MR. BACA: Good morning. I am Steve Baca, an assistant division director with the New Mexico Department of Agriculture. Pesticide rule is promulgated under the authority of the Pesticide Act to address the specifics that regulate the registration of pesticides, licensing of specific pesticide applicators, record keeping, storage and disposal of pesticides, fee structure, and other pesticide-related activities.

Public notices for this hearing were published as follows in accordance with state law: June 24, 2025, in the New Mexico Register; June 24, 2025, in the Albuquerque Journal; June 24, 2025, in the Santa Fe New Mexican in Spanish and English; and June 25, 2025, in the Las Cruces Sun News.

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New Mexico Department of Agriculture's website in Spanish and English.

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Notification and the proposed rule were sent to the New Mexico Economic Development Small Business Regulatory Advisory Commission and to Legislative Council Service. As of today, New Mexico Department of Agriculture has not received findings from either.

Notice of public hearings were also sent to pesticide licensed individuals and businesses impacted by the amendments; to the Pest Management Association, the state industry organization representing licensed pesticide applicators; and to the Household Consumer Product Association [sic], a national industry organization representing pesticide manufacturers.

Although the amendments are relatively few, the age of the Pesticide rule required a repeal

and replacement process to address updates to style and format in conjunction with New Mexico Department of Agriculture's proposed amendments. Primary proposed changes to the existing Pesticide rule include change in expiration dates of annual licenses from December 31st to January 31st and an increase in fees related to pesticide product registrations and licenses.

Comments received to date were primarily directed at concerns related to the change in the expiration date and the possible loss for continuing education units. The change in expiration date was made to address relicensing issues that may occur during the winter holiday break when New Mexico Department of Agriculture staff are provided time off and are unable to return calls and help licensees with a -- within a one- or two-day period.

New Mexico Department of Agriculture staff have made policy changes that will allow for a transition year to ensure no licensee will lose continuing education units. Adjustments to the continuing education units tracking system will also be made to ensure credits taken in January are applied either to the current or future licensing year to ensure a best benefit for the licensee. An

explanation regarding licensees concerns was posted on the New Mexico Department of Agriculture website and emailed to license holders.

Pesticide product registration fees are proposed to increase from 100 to 150 dollars per product. Product registration fees in other states range from $100 to $2300 per product. The majority of pesticide licenses are both -- are issued to license to commercial applicators. This fee is proposed to increase from $75 to $100 per license. Both Colorado and Texas have similar fee structure to New Mexico's with their commercial pesticide applicator license fees established at $350 and $125 respectively.

Increased -- increased fee revenue will be used to address mandated staff salary increases, replace reduction in EPA grants and expected reductions in USDA grants, and increased operational costs associated as a result of reductions in USDA state staff and EPA changes in continuing education units. Fees were last adjusted in 2010.

MR. OWEN: Thank you, Mr. Baca.

New Mexico Department of Agriculture has received written comments prior to this hearing from the following: Logan McGarrah, Emily Johnson, Jasmine Labine, Steve Kittrell, Bart Goetz, Keith

Settle, Kelby Riley, Otis Leach, William Cox, Russ Perkins, Ross Goetz, Joseph Ogden, Trent Murphree, Michael Ronquillo, Greg Alpers, and Steven Bennett on behalf of the Household & Commercial Products Association.

We will now open the floor for comments. Please begin by stating your name and affiliation for the record. Please restrict your comments to the proposed content of the rule. Please raise your hand and I will call on you. At this time, we will begin accepting comments.

Is there anyone wishing to comment? Seeing none, we will close the comment period for this hearing. Written comments will be accepted until 5 p.m. Thursday, July 31, 2025. All public comments will be presented to the secretary/director of New Mexico Department of Agriculture, Mr. Jeff Witte, and will be submitted for consideration to the New Mexico State University Board of Regents.

Submitted comments and either a transcript of today's hearing and/or the recording will be available from New Mexico Department of Agriculture's webpage.

Thank you all for participating. We will close this hearing at 11:06 a.m.

(Whereupon, at 11:06 a.m., the proceeding was concluded.)

CERTIFICATE

I, JAMES COGSWELL, the officer before whom the foregoing proceedings were taken, do hereby certify that any witness(es) in the foregoing proceedings, prior to testifying, were duly sworn; that the proceedings were recorded by me and thereafter reduced to typewriting by a qualified transcriptionist; that said digital audio recording of said proceedings are a true and accurate record to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

August 14, 2025



JAMES COGSWELL
Notary Public in and for the
State of New Mexico

CERTIFICATE OF TRANSCRIBER

I, RACHEL HUFF, do hereby certify that this transcript was prepared from the digital audio recording of the foregoing proceeding, that said transcript is a true and accurate record of the proceedings to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

August 14, 2025

Rachel L. Huff

RACHEL HUFF

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Exhibits

NOTICE OF PROPOSED RULEMAKING

NOTICE IS HEREBY GIVEN that the New Mexico Department of Agriculture (NMDA), proposes to repeal and replace 21.17.50 NMAC, PEST, DISEASE AND WEED CONTROL.

PURPOSE AND SUMMARY OF THE PROPOSED RULES:

Primary proposed amendments to the current Pesticide rule language removes unwarranted definitions; amends licensing and registration expiration dates to ease the re-registration efforts during the winter holiday season; and updates outdated fee schedules that support pesticide related services and statute mandated licensing and pesticide registration activities.

The current Pesticide rule does not comply with current style and formatting requirements and is therefore required to follow the repeal and replacement process rather than the amendment process. Subsection C of 1.24.11.9 NMAC states "When an agency amends a part that was not filed in the current style and format, it shall reformat the entire part (or use the reformatting done by the records center) and officially adopt the current style and formatting requirements in conjunction with the amendment." Style and formatting changes to the Pesticide rule in its entirety are included in the proposed amendments.

Principal proposed rule amendments remove three unwarranted definitions (Subsections C, E and Y of 21.17.50.7 NMAC); revises expiration dates for pesticide registration and pesticide applicator licenses from December 31 to January 31 (Subsections A et. seq. of 21.17.50.9 NMAC); updates 15-year old annual licensing fees for pesticide dealers, pest management consultants, commercial applicators, non-commercial applicators, pesticide operators and private applicators (Subsection B through G of 21.17.50.25 NMAC); and updates the 2010 pesticide registration, and examination fees (Subsection A and I of 21.17.50.25 NMAC).

STATUTORY AUTHORITY: Granted to the Board of Regents of New Mexico State University under the New Mexico Pesticide Control Act, Chapter 76, Article 4, Sections 1 through 39, NMSA 1978 Compilation.

Copies of the Notice of Proposed Rulemaking and proposed rules (including any technical information) are available by electronic download from the New Mexico Department of Agriculture website (https://www.nmda.nmsu.edu) and at agency district and field offices.

Tuesday, July 29 2025 at 11:00 am NMDA will host a public video/telephonic and in-person hearing at Gerald Thomas Hall Auditorium (Rm 194), New Mexico State University, located at 940 College Drive in Las Cruces, NM, 88003.

Join via Video for Tuesday, July 29, 2025, 11:00 am hearing:
Meeting URL: https://nmsu.zoom.us/j/83992662632
Meeting ID: 777 178 7960
Passcode: 328151
Or
Join via Phone for Tuesday, July 29, 2025, 11:00 am hearing:
+1 669 900 6833 or +1 719 359 4580
Meeting ID: 777 178 7960
Passcode: 328151

Thursday, July 31 2025 at 11:00 am NMDA will host a public in-person hearing at the CNM workforce Training Center located at 5600 Eagle Rock Ave, NE in Albuquerque, NM, 87113.

Oral comments will be accepted at the hearing from members of the public and any interested parties. Written comments will be accepted until 5:00pm on July 31, 2025. Comments may be submitted via email to comments@nmda.nmsu.edu or may be filed by sending original copies to:

New Mexico Department of Agriculture, Office of Director

MSC 3189, PO Box 30005, 1050 Stewart Street, Las Cruces, NM 88003-8005

Only signed statements, proposals or comments will be accepted. Scanned or electronic signatures conforming to federal and state court requirements will be accepted with the understanding that if there is any dispute regarding a signature, NMDA reserves the right to require that original signatures be provided to verify the electronic or facsimile signature.

SPECIAL NEEDS: If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing or meeting, pleases contact NMDA at (575) 646-3702 at least one week prior to the meeting or as soon as possible.

The Director will consider all oral comments and will review all timely submitted written comments and responses.

AVISO DE PROPUESTA DE NORMATIVA

POR EL PRESENTE SE COMUNICA que el Departamento de Agricultura de Nuevo México (NMDA) propone derogar y reemplazar la norma 21.17.50 NMAC, CONTROL DE PLAGAS, ENFERMEDADES Y MALEZAS.

PROPÓSITO Y RESUMEN DE LAS NORMATIVAS PROPUESTAS:

Las principales enmiendas propuestas a la norma actual sobre pesticidas eliminan definiciones innecesarias; modifican las fechas de vencimiento de las licencias y registros para facilitar la renovación de registros durante la temporada navideña; y actualizan las tarifas obsoletas que financian los servicios relacionados con pesticidas y las actividades de licencias y registro de pesticidas exigidas por la ley.

La norma actual sobre pesticidas no cumple con los requisitos de estilo y formato actuales y, por lo tanto, debe seguir el proceso de derogación y reemplazo en lugar del proceso de enmienda. La subsección C del 1.24.11.9 NMAC establece: "Cuando una agencia modifique una parte que no se presentó según el estilo y formato vigentes, deberá reformatear la parte completa (o utilizar el reformateo realizado por el centro de registros) y adoptar oficialmente los requisitos de estilo y formato vigentes junto con la enmienda." Los cambios de estilo y formato a la norma de pesticidas en su totalidad se incluyen en las enmiendas propuestas.

Las principales enmiendas propuestas a la norma eliminan tres definiciones injustificadas (subsecciones C, E e Y del 21.17.50.7 NMAC); revisan las fechas de vencimiento del registro de pesticidas y las licencias de aplicación de pesticidas del 31 de diciembre al 31 de enero (subsecciones A y siguientes del 21.17.50.9 NMAC); Se actualizan las tarifas anuales de licencia vigentes durante 15 años para distribuidores de pesticidas, consultores de manejo de plagas, aplicadores comerciales, aplicadores no comerciales, operadores de pesticidas y aplicadores privados (Subsecciones B a G del 21.17.50.25 NMAC); y se actualizan las tarifas de registro y examen de pesticidas de 2010 (Subsecciones A e I del 21.17.50.25 NMAC).

AUTORIDAD ESTATUTARIA: Otorgada a la Junta de Regentes de la Universidad Estatal de Nuevo México en virtud de la Ley de Control de Pesticidas de Nuevo México, Capítulo 76, Artículo 4, Secciones 1 a 39, Compilación de la NMSA de 1978.

Se pueden descargar copias del Aviso de Propuesta de Normativa y de las normas propuestas (incluida cualquier información técnica) del sitio web del Departamento de Agricultura de Nuevo México (https://nmdeptag.nmsu.edu/) y de las oficinas de distrito y de campo de la agencia.

El martes 29 de julio de 2025 a las 11:00 a.m., el NMDA celebrará una audiencia pública, tanto por videoconferencia como por teléfono, y en persona, en el Auditorio Gerald Thomas Hall (Sala 194) de la Universidad Estatal de Nuevo México, ubicado en College Drive 940, Las Cruces, NM 88003.

Para unirse por videoconferencia a la audiencia del martes 29 de julio de 2025 a las 11:00 a.m.:
URL de la reunión: https://nmsu.zoom.us/j/83992662632
ID de la reunión: 777 178 7960
Código de acceso: 328151
O
Para unirse por teléfono a la audiencia del martes 29 de julio de 2025 a las 11:00 a.m.:
+1 669 900 6833 o +1 719 359 4580
ID de la reunión: 777 178 7960
Código de acceso: 328151

El jueves 31 de julio de 2025 a las 11:00 a.m., el NMDA celebrará una audiencia pública presencial en el Centro de Capacitación Laboral de CNM, ubicado en 5600 Eagle Rock Ave, NE Albuquerque, NM 87113.

Se aceptarán comentarios orales del público y de cualquier parte interesada. Se aceptarán comentarios escritos hasta las 5:00 p.m. del 31 de julio de 2025. Los comentarios pueden enviarse por correo electrónico a comments@nmda.nmsu.edu o enviar copias originales a:

New Mexico Department of Agriculture, Office of Director
MSC 3189, P.O. Box 30005, 1050 Stewart Street, Las Cruces, NM 88003-8005

Solo se aceptarán declaraciones, propuestas o comentarios firmados. Se aceptarán firmas escaneadas o electrónicas que cumplan con los requisitos de los tribunales federales y estatales, en el entendido de que, en caso de disputa con respecto a una firma, el NMDA se reserva el derecho de exigir la presentación de firmas originales para verificar la firma electrónica o facsímil.

NECESIDADES ESPECIALES: Si usted es una persona con discapacidad que necesita un lector, amplificador, intérprete de lenguaje de señas cualificado o cualquier otro tipo de ayuda o servicio auxiliar para asistir o participar en la audiencia o reunión, comuníquese con el NMDA al (575) 646-3702 al menos una semana antes de la reunión o lo antes posible.

El Director considerará todos los comentarios orales y revisará todos los comentarios y respuestas escritos presentados oportunamente.

Exhibit 3

ARTICLE 4 Pesticide Control

Statute - Pesticides
Chapter 76
Article 4
Sections 1-39

76-4-1. Title.
ANNOTATIONS
76-4-2. Enforcing agency.
ANNOTATIONS
76-4-3. Definitions.
ANNOTATIONS
76-4-4. Misbranded.
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76-4-5. Prohibited acts.
ANNOTATIONS
76-4-6. Registration.
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76-4-7. Experimental use permits.
76-4-8. Refusal to register; cancellation; suspension.
ANNOTATIONS
76-4-9. Department to administer and enforce act; board to adopt regulations; scope of regulations.
ANNOTATIONS
76-4-9.1. State preemption.
ANNOTATIONS
76-4-10. Sampling and examination of pesticides or devices; residue analysis.
ANNOTATIONS
76-4-11. "Stop sale, use or removal" order.
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76-4-12. Judicial action after "stop sale, use or removal" order.
ANNOTATIONS
76-4-13. Pesticide dealer license.
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76-4-14. Pest management consultant.
76-4-15. Public pest management consultant.
76-4-16. Examinations for pest management consultant license.
76-4-17. Commercial pesticide applicator license.
ANNOTATIONS
76-4-18. Operator license.
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76-4-19. Application of act to governmental entities; public applicator's license required.

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76-4-20. Private applicators.
76-4-20.1. Noncommercial applicator license.
ANNOTATIONS
76-4-21. Expiration date of licenses.
ANNOTATIONS
76-4-22. Fees.
ANNOTATIONS
76-4-23. Grounds for denial, suspension or revocation of license, permit or certification; acts constituting a violation of the Pesticide Control Act.
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76-4-24. Surety bond or insurance required of commercial pesticide applicators.
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76-4-25. Damaged person must file report of loss; contents; time of filing; effect of failure to file.
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76-4-26. Inspection of equipment.
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76-4-28. Farmer or rancher exemption.
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76-4-31. Access to public or private premises.
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76-4-32. Classification of licenses.
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76-4-33. Records.
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76-4-34. Penalties.
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76-4-35. Persons exempted from certain penalties.
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76-4-36. Repealed.
ANNOTATIONS
76-4-37. Publication of information.
ANNOTATIONS
76-4-38. Cooperation.

ANNOTATIONS
76-4-39. Disposition of funds.
ANNOTATIONS

ARTICLE 4
Pesticide Control

76-4-1. Title.

This act [76-4-1 to 76-4-39 (except 76-4-20.1) NMSA 1978] may be cited as the "Pesticide Control Act."

History: 1953 Comp., § 45-25-1, enacted by Laws 1973, ch. 366, § 1.

ANNOTATIONS

Compiler's notes. — Laws 1973, ch. 366, which originally enacted the Pesticide Control Act, is presently compiled as 76-4-1 to 76-4-20, 76-4-21 to 76-4-28, 76-4-30 to 76-4-39 NMSA 1978. Laws 1992, ch. 25, § 1 enacted 76-4-9.1 NMSA 1978 as part of the Pesticide Control Act.

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 55.

Exterminator's tort liability for personal injury or death directly resulting from operations, 29 A.L.R.4th 987.

Anticompetitive covenants: aerial spray dust business, 60 A.L.R.4th 965.

Federal pre-emption of state common-law products liability claims pertaining to pesticides, 101 A.L.R. Fed. 887.

76-4-2. Enforcing agency.

The Pesticide Control Act shall be administered and enforced by the state department of agriculture, under the direction of the board of regents, New Mexico state university.

History: 1953 Comp., § 45-25-2, enacted by Laws 1973, ch. 366, § 2.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture §§ 20, 21.

3 C.J.S. Agriculture §§ 8 to 24.

76-4-3. Definitions.

As used in the Pesticide Control Act:

A. "equipment" means any type of ground, water or aerial equipment, device or contrivance using motorized, mechanical or pressurized power to apply any pesticide on land and anything that may be growing, habitating or stored on or in such land, but does not include any pressurized hand-sized household device used by a homeowner to apply a pesticide or any equipment, device or contrivance of which the person who is applying the pesticide on the person's own land is the source of power or energy in making the pesticide application;

B. "board" means the board of regents of New Mexico state university;

C. "department" means the New Mexico department of agriculture;

D. "device" means any instrument or contrivance other than a firearm that is intended for trapping, destroying, repelling or mitigating any pest or any other form of plant or animal life, other than humans and other than bacteria, viruses or other microorganisms on or in any living thing other than plants, but does not include equipment used for the application of pesticides when sold separately therefrom, or traps used to control predators or rodents or sterilization using dry heat or steam;

E. "distribute" means to offer for sale, hold for sale, sell, barter or supply in this state;

F. "environment" includes water, air and land and all plants and every living thing in water, in air and on land and the existing interrelationships;

G. "insect" means any of the numerous small invertebrate animals belonging principally to the class insecta, including beetles, bugs, bees, flies, and to other allied classes of arthropods, including spiders, mites, ticks, millipedes, centipedes and sowbugs;

H. "ingredient statement" means a statement that contains the name and percentage of each ingredient of any pesticide that is intended for one of the purposes under Paragraphs (1) through (4) of Subsection N of this section, and the total percentage of all ingredients in the pesticide not for one of those purposes. If the pesticide contains arsenic in any form, the ingredient statement shall contain a statement of the percentages of total and water-soluble arsenic, calculated as elemental arsenic;

I. "label" means the written, printed or graphic matter on or attached to the pesticide or device or any of its containers or wrappers;

J. "labeling" means all labels and all other written, printed or graphic matter accompanying the pesticide or device at any time; or to which reference is made on the label or in literature accompanying the pesticide or device, except to current official publications of the department, the United States environmental protection agency, United States departments of agriculture, the interior and health and human services, state agricultural universities and other similar federal or state institutions or agencies authorized by law to conduct research in the field of pesticides;

K. "land" means all land and water areas, including air space, and all living things and all structures, buildings, contrivances and machinery appurtenant thereto or situated thereon, fixed or mobile, including any used for transportation;

L. "person" has the extended meaning ascribed to it in Subsection E of Section 12-2A-3 NMSA 1978;

M. "pest" means any living organism injurious to other living organisms, except humans, viruses, bacteria

or other microorganisms in or on other living organisms other than plants, that the board by rule declares to be a pest;

N. "pesticide" means any substance or mixture of substances intended for:

(1) preventing, destroying, repelling or mitigating any pest;

(2) causing the leaves or foliage to drop from a plant, with or without causing abscission;

(3) artificially accelerating the drying of plant tissue; or

(4) accelerating or retarding the rate of growth or rate of maturation, or for otherwise altering the behavior, of ornamental or crop plants or the produce thereof, through physiological action, but not including substances that are intended as plant nutrients, trace elements, nutritional chemicals, plant inoculants or soil amendments;

O. "pesticide dealer" means any person who distributes highly toxic pesticides, restricted use pesticides or both, which pesticides are restricted by rule to distribution only by licensed pesticide dealers;

P. "pest management consultant" means any individual who offers or supplies technical advice or makes recommendations to the user of highly toxic pesticides, restricted use pesticides or both, which pesticides are restricted by rule to distribution only by licensed pesticide dealers;

Q. "registrant" means a person who has registered any pesticide pursuant to the provisions of the Pesticide Control Act;

R. "restricted use pesticide" means any pesticide or device designated by the board as requiring specific restrictions to prevent unreasonable adverse effects on the environment, including humans, beneficial insect predators and parasites, pollinating insects, animals, crops, wildlife and lands but excluding the pests the pesticide or device is intended to prevent, destroy, control or mitigate;

S. "unreasonable adverse effects on the environment" means an unreasonable risk to humans or the environment, taking into account the economic, social and environmental costs and benefits of the use of any pesticide;

T. "noncommercial applicator" means a person who uses or demonstrates restricted use pesticides and does not qualify as a private applicator and is not required to have a commercial applicator's license;

U. "private applicator" means a certified applicator who uses or supervises the use of any pesticide that is classified for restricted use for purposes of producing any agricultural commodity on property owned or rented by the certified applicator or the certified applicator's employer or on the property of another person if applied without compensation other than trading of personal services between producers of agricultural commodities;

V. "public applicator" means a certified applicator who as an employee of a federal, state, county or municipal agency or municipal corporation uses any pesticide that is classified for restricted use or any general use pesticide, when applied to sites or under conditions identified by rule promulgated by the board; and

W. "commercial applicator" means a certified applicator, whether or not the certified applicator is a private applicator with respect to some uses, who for compensation uses or supervises the use of any pesticide for any purpose on any property other than as provided by Sections 76-4-19 and 76-4-20.1 NMSA 1978.

History: 1953 Comp., § 45-25-3, enacted by Laws 1973, ch. 366, § 3; 1979, ch. 394, § 1; 2009, ch. 101, § 1; 2009, ch. 109, § 1.

ANNOTATIONS

The 2009 amendment, effective June 19, 2009, in Subsection L, changed the reference from Section 12-2-2 NMSA 1978 to Section 12-2A-3 NMSA 1978; in Subsection V, after "restricted use", deleted "only by certified applicators or persons under their direct supervision" and added the remainder of the sentence; and in Subsection W, added the reference to Section 76-4-19 NMSA 1978.

Laws 2009, ch. 101, § 1 and Laws 2009, ch. 109, § 1 enacted identical amendments to this section. The section was set out as amended by Laws 2009, ch. 109, § 1. *See* 12-1-8 NMSA 1978.

76-4-4. Misbranded.

A pesticide or device is misbranded if:

A. its labeling bears any statement, design or graphic representation relative thereto or to its ingredients which is false or misleading;

B. it is contained in a package or other container or wrapping which does not conform to the standards established by the board;

C. it is an imitation of or is distributed under the name of another pesticide or device;

D. any word, statement or other information, required by the Pesticide Control Act or regulations adopted thereunder to appear on the label or labeling, is not prominently placed thereon with such conspicuousness (as compared with other words, statements, designs or graphic matter in the labeling), and in such terms as to render it likely to be read and understood by the ordinary individual under customary conditions of purchase and use;

E. the labeling accompanying it does not contain directions for use which are necessary for effecting the purpose for which the product was intended and if complied with, together with any requirements imposed by the Pesticide Control Act and regulations adopted by the board, are adequate to prevent injury to plants and animals including man, and protect against any unreasonable adverse effects on the environment;

F. the labeling bears any reference to registration under the provisions of the Pesticide Control Act unless such reference is required by regulations adopted pursuant to the Pesticide Control Act;

G. the label does not bear:

(1) the name and address of the producer, registrant or person for whom produced;

(2) the name, brand or trademark under which the pesticide is distributed;

(3) an ingredient statement on that part of the immediate container and on the outside container or wrapper, if there be one through which the ingredient statement on the immediate container cannot be clearly read, of the retail package which is presented or displayed under customary conditions of purchase. However,

the department may permit the ingredient statement to appear prominently on some other part of the container, if the size or form of the container makes it impracticable to place the ingredient statement on the part which is presented or displayed under customary conditions of purchase;

(4) directions for use and a warning or caution statement which are necessary and which, if complied with, would be adequate for the protection of health and protection against injury to plants and animals including man and protection against any unreasonable adverse effects on the environment;

(5) the net weight or measure of the contents;

(6) the registration number assigned the pesticide and the registration number of the person formulating the pesticide by the United States environmental protection agency; and

(7) a statement of the use classification under which the product is registered, if required by federal or state regulations;

H. the pesticide contains any substance or substances in quantities highly toxic to man, as determined by the board unless the label bears, in addition to any other matter required by the Pesticide Control Act:

(1) the skull and crossbones or any other symbol required for registration by the United States environmental protection agency;

(2) the word "POISON" prominently printed in red on a background of distinctly contrasting color; and

(3) a statement of an antidote or practical treatment in case of poisoning by the pesticide;

I. the pesticide container does not bear a label or if the label does not contain all the information required by the Pesticide Control Act and the regulations adopted pursuant to the act, or both;

J. the label for a spray adjuvant fails to state the type or function of the functioning agents; or

K. the label is not printed in English and Spanish, as prescribed by the United States environmental protection agency and by regulations of the board.

History: 1953 Comp., § 45-25-4, enacted by Laws 1973, ch. 366, § 4.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 55.

76-4-5. Prohibited acts.

A. It is unlawful for any person to distribute within the state, to deliver for transportation or transport in intrastate commerce, or between points within this state through any point outside this state, or use any of the following:

(1) any pesticide which has not been registered in accordance with the Pesticide Control Act or

regulations adopted pursuant to that act;

(2) any pesticide if any of the claims made for it or any of the directions for its use or other labeling differs from the representations made in connection with its registration, or if the composition as represented in connection with its registration, differs. However, at the discretion of the department, a change in the labeling of a pesticide except changes in the ingredient statement may be made within a registration period without requiring reregistration of the product if the change will not have unreasonable adverse effects on the environment;

(3) any pesticide, unless it is in the unbroken immediate container of the registrant or manufacturer and there is affixed to the container, and to the outside container or wrapper of the retail package, if there is one through which the required information on the immediate container cannot be clearly read, a label bearing information required in the Pesticide Control Act and the regulations adopted pursuant to that act;

(4) any pesticide which has not been colored or discolored as required by the Pesticide Control Act;

(5) any pesticide which does not meet the professed standard of quantity or quality, as expressed on the labeling under which it is sold, or in which any substance has been substituted wholly or in part for the pesticide, or if any valuable constituent has been wholly or in part abstracted or if any contaminated is misbranded or is present in an amount determined by the department to be a hazard;

(6) any device which is misbranded; or

(7) any pesticide in containers violating regulations adopted pursuant to the Pesticide Control Act, or pesticides found in damaged containers which constituted a hazard to the environment.

B. It is unlawful:

(1) to distribute a restricted use pesticide to any person who is required by law or regulations promulgated pursuant to the Pesticide Control Act to have a permit to use or purchase restricted use pesticides, unless the person or his agent, to whom sale or delivery is made, has a valid permit to use or purchase the kind and quantity of the restricted use pesticide. However, subject to conditions established by the department, such permit may be obtained from any person designated by the department immediately prior to distribution;

(2) for any person to detach, alter, deface or destroy, wholly or in part, any label or labeling provided for in the Pesticide Control Act or regulations adopted pursuant to that act, or to add any substance to, or take any substance from, a pesticide in a manner that may defeat the purpose of the Pesticide Control Act or the regulations adopted thereunder;

(3) for any person to use or cause to be used any restricted use pesticide contrary to directions on the label or to regulations of the board if those regulation differ from or further restrict the labeling;

(4) for any person to use for his own advantage or to reveal, other than to the department, or to the courts of the state in response to a subpoena, or to physicians, or in emergencies to pharmacists and other qualified persons for use in the preparation of a practical treatment including first aid, in case of poisoning, any information relative to formulas of products acquired by authority of the Pesticide Control Act;

(5) for any person to handle, transport, store, display, distribute or use pesticides in such a manner as to endanger man and his environment or to endanger food, feed or any other products that may be transported, stored, displayed or distributed with such pesticides; or

(6) for any person to dispose of, discard or store any pesticides or pesticide containers in a manner that may cause injury to humans, vegetation, crops, livestock, wildlife, pollinating insects or to pollute any water supply or waterway.

History: 1953 Comp., § 45-25-5, enacted by Laws 1973, ch. 366, § 5.

ANNOTATIONS

Cross references. — For penalties, *see* 76-4-34 NMSA 1978.

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture §§ 42, 50, 51.

3 C.J.S. Agriculture § 87.

76-4-6. Registration.

A. Each pesticide or device that is distributed within the state or delivered for transportation or transported in intrastate commerce or between points within this state through any point outside this state shall be registered with the department subject to the provisions of the Pesticide Control Act. However, the registration is not required if a pesticide is shipped from one plant or warehouse operated by the same person and used solely at such plant or warehouse as a constituent part to make a pesticide which is registered under the provisions of the Pesticide Control Act.

B. The applicant for registration shall file a statement with the board which includes:

(1) the name and address of the applicant and the name and address of the person whose name will appear on the label, if other than the applicant's;

(2) the name of the pesticide or device;

(3) other necessary information required for completion of the application for registration form;

(4) a complete copy of the labeling accompanying the pesticide or device and a statement of all claims including the directions and precautions for use; and

(5) the use classification of the pesticide, if required by federal or state regulations.

C. The department when it deems it necessary in the administration of the Pesticide Control Act, may require the submission of the complete formula of any pesticide including all ingredients which will prevent, destroy, repel, control or mitigate pests, or which will act as a plant regulator, defoliant, desiccant or those which act as a functioning agent in a spray adjuvant, and all ingredients which do not perform these functions

D. The department may require a full description of the tests made and the results thereof upon which the claims are based on any pesticide, device or on any pesticide or device on which restrictions are being considered. In the case of renewal of registration, the applicant shall be required to furnish only information which is different from that furnished when the pesticide was registered or reregistered during the previous license year.

E. The board may prescribe other necessary information by regulation.

F. The applicant desiring to register a pesticide or device shall pay an annual prescribed registration fee for each pesticide or device registered.

G. Any registration approved by the department and in effect on December 31 of the year for which a renewal application has been made and the proper fee paid, shall continue in full force and effect until the department notifies the applicant that the registration has been renewed or denied in accord with the provisions of the Pesticide Control Act. Forms for reregistration shall be mailed to registrants at least thirty days prior to the due date.

H. If it appears to the department that the composition of the pesticide warrants the proposed claims for it and if the pesticide or device and its labeling and other material submitted comply with the requirements of the Pesticide Control Act, the department shall register the pesticide or device.

I. All federal, state and county agencies or municipalities shall register all pesticides or devices distributed by them but shall not be required to pay the registration fee.

History: 1953 comp., § 45-25-6, enacted by Laws 1973, ch. 366, § 6.

ANNOTATIONS

Law reviews. — For article, "An Administrative Procedure Act For New Mexico," see 8 Nat. Resources J. 114 (1968).

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 42.

3 C.J.S. Agriculture §§ 95, 97.

76-4-7. Experimental use permits.

A. No person shall conduct field tests using a pesticide not registered with the department or a registered pesticide for a use not previously approved in the registration without first having obtained an experimental use permit from the department.

B. Any person may apply to the department for an experimental use permit for a pesticide. The department may issue an experimental use permit if it determines that the applicant needs the permit in order to accumulate information necessary to register a pesticide. The department may refuse to issue an experimental use permit if it determines that issuance of such permit is not warranted or that the pesticide use to be made under the proposed terms and conditions may cause unreasonable adverse effects on the environment.

C. Use of a pesticide under an experimental use permit shall be under the supervision of the department and shall be subject to the terms and conditions and be for the period of time prescribed by the department in the permit.

D. The department may revoke any experimental use permit at any time, if it finds that the terms or conditions of the permit are being violated, or that its terms and conditions are inadequate to avoid unreasonable adverse effects on the environment.

History: 1953 Comp., § 45-25-7, enacted by Laws 1973, ch. 366, § 7; 1979, ch. 394, § 2.

76-4-8. Refusal to register; cancellation; suspension.

A. If it does not appear to the department that the pesticide or device warrants the proposed claims or if the pesticide or device and its labeling and other required material do not comply with the provisions of the Pesticide Control Act or regulations adopted thereunder, the department shall notify the applicant of the manner in which the pesticide, device, labeling or other required material fails to comply with the provisions of the Pesticide Control Act and permit the applicant to make the necessary corrections. If, upon receipt of such notice, the applicant does not make the required changes, the department may refuse to register the pesticide or device.

B. The department may, when it determines that a pesticide or device or its labeling does not comply with the provisions of the Pesticide Control Act or the regulations adopted thereunder, cancel the registration of a pesticide or device.

C. The department shall, when it determines that a situation exists in which the continued use of a pesticide during the time required for cancellation under the Pesticide Control Act would likely result in unreasonable adverse effects on the environment, suspend on their own motion, the registration or a pesticide or device.

History: 1953 Comp., § 45-25-8, enacted by Laws 1973, ch. 366, § 8.

ANNOTATIONS

Cross references. — For stop sale, use or removal order, *see* 76-4-11 NMSA 1978.

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 42.

3 C.J.S. Agriculture §§ 98, 100.

76-4-9. Department to administer and enforce act; board to adopt regulations; scope of regulations.

The department shall administer and enforce the provisions of the Pesticide Control Act and regulations promulgated by the board.

A. The board may after notice and public hearing adopt regulations for carrying out the purpose and provisions of the Pesticide Control Act, including regulations providing for:

(1) declaring as a pest any form of plant or animal life or virus, other than man and other than bacteria, viruses and other microorganisms on or in living man or other living animals, which is injurious to health or the environment;

(2) designating certain pesticides to be highly toxic to any animal including man;

(3) determining standards for identifying pesticides by color, taste, odor or form;

(4) the collection and examination of devices or samples of pesticides for analysis;

(5) requiring pesticide applicators to notify land owners of property adjoining the property to be treated, or in the immediate vicinity thereof, of a proposed application of a pesticide, if such a notice is necessary to carry out the purpose of the Pesticide Control Act; and for a hearing before the director of the department of any objecting owner of property adjoining the property to be treated before the application of the pesticide;

(6) the safe handling, transportation, storage, display, distribution, use and disposal of pesticides and their containers;

(7) establishing standards with respect to the package, container or wrapping in which a pesticide is distributed;

(8) restricting or prohibiting the use of certain types of containers or packages for specific pesticides. These restrictions may apply to type of construction, strength and size or any combination thereof to alleviate danger of spillage, breakage, misuse or any other hazard to the public;

(9) procedures for making pesticide recommendation;

(10) adopting a list of restricted use pesticides for the state or for designated areas within the state;

(11) regulating the time and conditions of distribution, sale or use of the restricted use pesticides;

(12) requiring all persons issued licenses to offer technical advice, to sell or to use restricted use pesticides to maintain records as prescribed by the department;

(13) certification of private applicators;

(14) label requirements of all pesticides required to be registered under provisions of the Pesticide Control Act;

(15) regulating the labeling of devices;

(16) procedures and techniques to be used in sampling land, including agricultural products that are to be consumed by man or animals for pesticide residues;

(17) classifying pesticides for general use, restricted use or both;

(18) prescribing methods to be used in the application of pesticides where the department finds that such regulations are necessary to carry out the purpose and intent of the Pesticide Control Act. Such regulations may relate to the time, manner, methods, materials and amounts and concentrations in connection with the application of the pesticides and may restrict or prohibit use of pesticides in designated areas during specified periods of time and shall encompass all reasonable factors which the department deems necessary to prevent damage or injury by drift or misapplication to plants, including forage plants, or adjacent or nearby lands; wildlife in the adjoining or nearby areas; fish and other aquatic life in waters in reasonable proximity to the area to be treated; and humans, animals or beneficial insects. In issuing such regulations, the board shall give consideration to pertinent research findings and recommendations of other agencies of the state, the federal government or other reliable sources;

(19) requiring any pesticide use dilution to be colored or discolored if it determines that such requirement is feasible and is necessary for the protection of health and the environment;

(20) establishing good pesticide use and handling practices for commercial pesticide applicators;

(21) establishing requirements for supervision of servicemen of structural pest control applicators; and

(22) regulating false or misleading advertisement in the sales or use of pesticides and devices.

B. The board shall adopt regulations that are consistent with regulations of the New Mexico environmenta improvement board, the New Mexico water quality control commission and the laws administered by the regulations of the United States environmental protection agency.

C. The department is authorized to specify the quantities and concentrations of restricted use pesticides that may be applied.

History: 1953 Comp., § 45-25-9, enacted by Laws 1973, ch. 366, § 9; 1979, ch. 394, § 3.

ANNOTATIONS

Law reviews. — For article, "Constitutional Limitations on the Exercise of Judicial Functions by Administrative Agencies," see 7 Nat. Resources J. 599 (1967).

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture §§ 20, 21.

3 C.J.S. Agriculture § 96.

76-4-9.1. State preemption.

Except as otherwise authorized in the Pesticide Control Act, no city, county or other political subdivision of the state and no home rule municipality shall adopt or continue in effect any ordinance, rule, regulation or statute regarding the registration, labeling, distribution, sale, handling, use, application, transportation or disposal of pesticides.

History: Laws 1992, ch. 25, § 1.

ANNOTATIONS

Effective dates. — Laws 1992, ch. 25 contained no effective date provision, but, pursuant to N.M. Const., art IV, § 23, was effective on May 20, 1992.

76-4-10. Sampling and examination of pesticides or devices; residue analysis.

A. The sampling and examination of pesticides or devices shall be made under the direction of the department for the purpose of determining if they comply with the requirements of the Pesticide Control Act.

B. The sampling of land, including agricultural products that are to be consumed by man or animals, may be made by the department to determine if pesticide residues are present that will cause unreasonable adverse effects on the environment or if the residues exceed the tolerance established by the United States environmental protection agency, New Mexico environmental improvement agency [department of environment] or restrictions established by other federal or state regulatory agencies.

History: 1953 Comp., § 45-25-10, enacted by Laws 1973, ch. 366, § 10.

ANNOTATIONS

Bracketed material. — The bracketed material was inserted by the compiler and is not part of the law.

The environmental improvement agency was abolished by Laws 1977, ch. 253, § 5. Section 4 of that act established the health and environment department, consisting of several divisions, including the environmental improvement division. Section 14 of that act provided that all references in law to the agency shall be construed to be references to the environmental improvement division. Laws 1991, ch. 25, § 4 established the department of environment and provided that all references to the environmental improvement division of the health and environment department shall be construed to mean the department of environment.

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 53.

3 C.J.S. Agriculture § 99.

76-4-11. "Stop sale, use or removal" order.

When the department has reasonable cause to believe a pesticide or device is being distributed, used, stored or transported in violation of any of the provisions of the Pesticide Control Act or regulations adopted pursuant thereto, the department may issue and serve a written "stop sale, use or removal" order upon the owner or custodian of the pesticide or device. If the owner or custodian is not available to receive the order, the department may attach the order to the pesticide or device and notify the registrant. The pesticide or device shall not be distributed, used or removed until the provisions of the Pesticide Control Act have been complied with and the pesticide or device has been released in writing under conditions specified by the department or the alleged violation has been otherwise disposed of as provided in the Pesticide Control Act by a court of competent jurisdiction.

History: 1953 Comp., § 45-25-11, enacted by Laws 1973, ch. 366, § 11.

ANNOTATIONS

Cross references. — For judicial action after stop sale, use or removal order, *see* 76-4-12 NMSA 1978.

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 42.

76-4-12. Judicial action after "stop sale, use or removal" order.

A. After service of a "stop sale, use or removal" order is made upon any person, that person or the registrant or the department may file an action in a court of competent jurisdiction, in the county in which a violation of the Pesticide Control Act or regulations adopted thereunder is alleged to have occurred, for an adjudication of the alleged violation. The court in such action may issue temporary or permanent injunctions, mandatory or restraining, and such intermediate orders as it deems necessary or advisable. The court may order condemnation of any pesticide or device that does not meet the requirements of the Pesticide Control Act or regulations adopted thereunder.

B. If the pesticide or device is condemned, it shall, after entry of decree, be disposed of by destruction or sale as the court directs. However, the pesticide or device shall not be sold contrary to the provisions of the Pesticide Control Act or regulations adopted thereunder. Upon payment of the costs of the condemnation proceedings and the execution and delivery of a bond as prescribed by the court to assure the pesticide or device shall not be sold or disposed of contrary to the provisions of the Pesticide Control Act or regulations adopted pursuant thereto, the court may direct that the pesticide or device be delivered to the owner thereof for relabeling, reprocessing or otherwise bringing the product into compliance.

C. When a decree of condemnation is entered against the pesticide or device, court costs, fees, storage and other proper expenses shall be awarded against the person, if any, appearing as claimant of the pesticide or device.

History: 1953 Comp., § 45-25-12, enacted by Laws 1973, ch. 366, § 12.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 42.

3 C.J.S. Agriculture § 100.

76-4-13. Pesticide dealer license.

A. It is unlawful for any person to act in the capacity of a pesticide dealer, or advertise as, or assume to act as a pesticide dealer at any time without first having obtained an annual license from the department. A license shall be required for each location or outlet located within this state from which pesticides are distributed. Any manufacturer, registrant or distributor who has no pesticide dealer outlet licensed within this state and who distributes pesticides directly into this state shall obtain a pesticide dealer license for his principal out-of-state location or outlet.

B. Application for a license shall be accompanied by the prescribed annual license fee and shall be on a form provided by the department. The application shall include:

(1) the full name and title of the person applying for the license;

(2) the address of each outlet to be licensed;

(3) the principal business address of the applicant;

(4) the name of a person domiciled in this state authorized to receive and accept service of summons and legal notices of all kinds for the applicant; and

(5) any other necessary information prescribed by the department.

C. Provisions of this section shall not apply to a licensed pesticide applicator who sells pesticides only as an integral part of his pesticide application service when the pesticides are dispensed only through an apparatus used for such pesticide application, or any federal, state or county agency, or municipality which provides pesticides only for its own programs.

D. Each pesticide dealer shall be responsible for the acts of each individual employed by him in the solicitation and sale of pesticides and all claims and recommendations for the use of pesticides. The dealer license shall be subject to denial, suspension or revocation after a hearing for any violation of the Pesticide Control Act or regulations adopted thereunder, whether committed by the dealer or by an officer, agent or employee of the dealer.

History: 1953 Comp., § 45-25-13, enacted by Laws 1973, ch. 366, § 13.

ANNOTATIONS

Cross references. — For grounds for denial, suspension or revocation of license, *see* 76-4-23 NMSA 1978.

76-4-14. Pest management consultant.

No individual shall perform services as a pest management consultant without first obtaining from the department an annual license. Application for a license shall be on a form provided by the department and shall be accompanied by the prescribed fee. Licensed pesticide applicators and operators and employees of federal, state and county agencies, or municipalities, when acting in their official capacities, shall be exempt from this licensing provision.

History: 1953 Comp., § 45-25-14, enacted by Laws 1973, ch. 366, § 14.

76-4-15. Public pest management consultant.

A "public pest management consultant" means any individual who is employed by a governmental agency or municipality to act as a pest management consultant. No person shall act as a public pest management consultant without first obtaining an annual nonfee license from the department. Application for a license shall be on a form provided by the department. The nonfee license shall be valid only when the consultant is acting in that capacity as an employee of his governmental employer. Federal and state employees whose principal responsibilities are in pesticide research shall be exempt from this licensing provision while acting in their official capacities.

History: 1953 Comp., § 45-25-15, enacted by Laws 1973, ch. 366, § 15.

76-4-16. Examinations for pest management consultant license.

The department shall require each applicant for a pest management consultant license or a public pest management consultant license to demonstrate the applicant's knowledge of pesticide laws and regulations, pesticide hazards and the safe distribution, use, application and disposal of pesticides by satisfactorily passing a written examination for the classification for which he has applied, prior to issuing his license. The prescribed examination fee shall be paid for the initial examination and other examinations needed to qualify the applicant to perform services as a pest management consultant. The public pest management consultant shall not be required to pay the examination fee and an examination shall be administered upon request.

History: 1953 Comp., § 45-25-16, enacted by Laws 1973, ch. 366, § 16.

76-4-17. Commercial pesticide applicator license.

A. It is unlawful for any person to engage in the business of applying pesticides at any time to land not owned or occupied by him without a commercial pesticide applicator license issued by the department. The commercial pesticide applicator shall pay an annual prescribed fee for each license issued. Should any apparatus fail to pass inspection making it necessary for an additional inspection to be made, the department shall require a prescribed inspection fee. In addition to the required inspection, additional inspections may be made to determine if equipment is properly calibrated and maintained in conformance with the Pesticide Control Act and regulations adopted pursuant thereto.

B. Application for a license shall be on a form provided by the department.

C. The department shall not issue a commercial pesticide applicator license until the applicant has passed an examination to demonstrate his knowledge of how to apply pesticides under the classification or classifications he has applied for, and his knowledge of the nature and effect of pesticides he may apply. The department shall charge the prescribed examination fee for the initial examination and other examinations needed to qualify the applicant to apply pesticides.

D. The department shall renew any applicant's license under the classification for which the applicant is certified; provided that the applicant's license is not under a suspension or revocation order and he has met the provisions of the Pesticide Control Act.

E. The department shall not issue a commercial applicator license if it has been determined that:

(1) the applicant has been convicted within the last five years of a felony involving fraud;

(2) the applicant has had revoked within the last two years a previous license authorized by the Pesticide Control Act;

(3) the applicant has been unable to satisfactorily fulfill the certification requirements; or

(4) [the applicant] has had any pesticide application or a license denied, revoked or suspended in any state in the last five years.

F. All applicants for a commercial applicator license shall meet at least one of the following requirements prior to being issued a license and shall file proof of compliance as specified by the department:

(1) documentation of two years of pesticide application experience in the category or related category for which application is being made; or

(2) documentation of one year of pesticide application experience in the category or related category for which application is being made and not less than twenty college credit hours in biological or agricultural sciences.

History: 1953 Comp., § 45-25-17, enacted by Laws 1973, ch. 366, § 17; 1979, ch. 394 § 4.

ANNOTATIONS

Bracketed material. — The bracketed material was inserted by the compiler and it is not part of the law.

Cross references. — For inspection of apparatus, *see* 76-4-26 NMSA 1978.

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 C.J.S. Agriculture § 101.

76-4-18. Operator license.

A. It is unlawful for any individual to act as an employee of a commercial pesticide applicator and apply pesticides without having obtained an operator license from the department.

B. The department shall issue an operator license when the applicant has passed an examination to demonstrate his ability to apply pesticides safely and effectively with the type of apparatus and in the classification for which he has applied. The department shall charge the prescribed examination fee for each examination administered.

C. The provisions of this section shall not apply to any individual who is a licensed commercial pesticide applicator.

History: 1953 Comp., § 45-25-18, enacted by Laws 1973, ch. 366, § 18; 1979, ch. 394, § 5.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 C.J.S. Agriculture § 101.

76-4-19. Application of act to governmental entities; public applicator's license required.

A. A public applicator shall be subject to the provisions of the Pesticide Control Act and rules adopted pursuant to that act.

B. Public applicators shall be subject to examinations or other licensing provisions as provided in the Pesticide Control Act or by rule promulgated by the board. The department shall issue a limited license without fee to the public applicator who has qualified for the license. The public applicator license shall be valid only when the applicator is acting as an applicator applying pesticides used by federal, state, county or municipal agencies or municipal corporations. Government research personnel shall be exempt from this licensing requirement only when applying general use pesticides to experimental plots.

History: 1953 Comp., § 45-25-19, enacted by Laws 1973, ch. 366, § 19; 1979, ch. 394, § 6; 2009, ch. 101, § 2; 2009, ch. 109, § 2.

ANNOTATIONS

The 2009 amendment, effective June 19, 2009, in Subsection A, at the beginning of the sentence, deleted "All state agencies, federal agencies and municipal corporations or any other governmental agency", added "A public applicator"; and at the end of the sentence, deleted "thereunder concerning the application of pesticides unless exempt under other sections of the Pesticide Control Act"; and added "pursuant that act"; in Subsection B, after "Public applicators", deleted "for agencies listed in this section"; after "examinations", added "or other licensing provisions"; added "or by rule promulgated by the board; after "applicator applying", deleted "or supervising application of restricted use"; and after "pesticides used by", deleted "such entities"; and added "federal, state, county or municipal agencies or municipal corporations".

Laws 2009, ch. 101, § 2 and Laws 2009, ch. 109, § 2 enacted identical amendments to this section. The section was set out as amended by Laws 2009, ch. 109, § 2. *See* 12-1-8 NMSA 1978.

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 43.

3 C.J.S. Agriculture § 101.

76-4-20. Private applicators.

A. No private applicator shall use a restricted use pesticide without first complying with the certification requirements determined by the department as necessary to prevent unreasonable adverse effects on the environment, including injury to the applicator or other persons.

B. In determining these certification requirements, the board shall take into consideration standards of the United States environmental protection agency. Certification requirements for a private applicator to be certified to use restricted use pesticides may include but shall not be limited to the following:

(1) the applicant shall acknowledge that he understands and will abide by the label precautions by signing a dealer's pesticide register. The register shall include the name and address of the private applicator and other information as prescribed by the department. The dealer shall keep a record of all restricted use pesticides distributed to a private applicator;

(2) the applicant shall obtain a user permit prior to purchase and use of the pesticide. The department may issue restricted use pesticide permits to private applicators who have documented the crops, location and acreage on the permit for the seasonal or temporary period for which their permit is issued. User permits shall only be issued for registered or experimental uses and shall be subject to other limitations as specified by the department. The limitations may include limiting the areas of use, the timing or method of application and limiting the amount of the pesticide to that needed to cover the acreage to be treated;

(3) the applicant shall be required to pass a written examination demonstrating his competency with respect to the use and handling of the pesticide or pesticides covered by his certification prior to purchase and use of the product; and

(4) the applicant shall be required to obtain approval from the department for each application

involving a specific risk to the environment. The applicant shall submit to the department an application form for a special review permit. The application shall include detailed information on the intended use, the responsible person in charge and the equipment and conditions under which the pesticide application is to be made. The department in reviewing the application for a special review permit may require additional restrictions such as on-site inspection or supervision.

C. The department shall charge the prescribed fee for each certification.

D. If a private applicator does not qualify, the department shall inform the applicant in writing.

E. Private applicator certification shall be valid for a period of not less than three years, established by the board.

History: 1953 Comp., § 45-25-20, enacted by Laws 1973, ch. 366, § 20; 1979, ch. 394, § 7.

76-4-20.1. Noncommercial applicator license.

A. A noncommercial applicator shall not use a restricted use or state restricted use pesticide without having a valid current noncommercial applicator license issued by the department for the license use categories and subcategories in which the pesticide application is made.

B. Application for an original or renewal license shall be on a form prescribed by the department. An annual prescribed fee shall be charged for each noncommercial applicator license issued.

C. The department shall not issue a noncommercial applicator license until the applicant has passed a written certification examination to demonstrate to the department the applicant's knowledge of how to apply pesticides under the classifications for which the applicant has applied and the applicant's knowledge of the nature and effect of pesticides the applicant may apply under such classifications.

D. The department shall renew any applicant's license under the classification for which the applicant is certified; provided that the applicant's license is not under a suspension or revocation order and the applicant has complied with the provisions of the Pesticide Control Act.

E. Nothing in this section shall imply the right to apply pesticides for hire without first having obtained a commercial applicator license.

History: Laws 1979, ch. 394, § 8; 2009, ch. 101, § 3; 2009, ch. 109, § 3.

ANNOTATIONS

The 2009 amendment, effective June 19, 2009, in Subsection A, at the beginning of the sentence, deleted the phrase "Any person who is not a private applicator, commercial applicator or public applicator, except a person working under their direct supervision" and added the phrase "A noncommercial applicator".

Laws 2009, ch. 101, § 3 and Laws 2009, ch. 109, § 3 enacted identical amendments to this section. The section was set out as amended by Laws 2009, ch. 109, § 3. *See* 12-1-8 NMSA 1978.

76-4-21. Expiration date of licenses.

The board shall set by regulation the expiration date for the annual pesticide registration or any license provided for in the Pesticide Control Act.

History: 1953 Comp., § 45-25-21, enacted by Laws 1973, ch. 366, § 21; 1979, ch. 394, § 9.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 C.J.S. Agriculture § 101.

76-4-22. Fees.

A. Fees for the registration of pesticides, the various licenses, inspection of apparatuses and examination of applicants required by the Pesticide Control Act shall be set by the board not to exceed the amount authorized below:

(1) annual registration fee for eachpesticide or device registered, not more than $150;

(2) annual pesticide dealer license for each location or outlet within the state or, if there is no outlet in the state, for the principal out-of-state location or outlet, not more than $100;

(3) annual pest management consultant license, not more than $100;

(4) annual commercial pesticide applicator license, not more than $100;

(5) annual operator license, not more than $75.00;

(6) annual noncommercial applicator license, not more than $100;

(7) private applicator certification or renewal, not more than $25.00;

(8) additional inspection required to certify each unit of aircraft, ground or manual equipment that fails to pass inspection, not more than $25.00; and

(9) examination fee for each examination needed to qualify the applicant as a pest management consultant, commercial pesticide applicator, noncommercial applicator or operator or any combination thereof, not more than $20.00.

B. If the application for the renewal of a pesticide registration or any annual license provided for in the Pesticide Control Act is not filed prior to the expiration date of the prior registration or license, the fee for renewal of registration or license shall be double the amount specified in this section and shall be paid by the applicant before the renewal registration or license is issued. Any person holding a current valid license may renew the license for the next year without taking an examination unless the department determines that additional knowledge relating to the classification for which the applicant has applied makes a new examination necessary. However, if the license is not renewed within thirty days after expiration, the licensee shall be required to take new certification examinations.

History: 1953 Comp., § 45-25-22, enacted by Laws 1973, ch. 366, § 22; 1979, ch. 394, § 10; 2005, ch. 200, § 1.

ANNOTATIONS

The 2005 amendment, effective June 17, 2005, increased the registration fees in Subsection A(1) through (7) and (9).

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 C.J.S. Agriculture § 95.

76-4-23. Grounds for denial, suspension or revocation of license, permit or certification; acts constituting a violation of the Pesticide Control Act.

A. The department may deny application for any license, permit or certification or may suspend any license, permit or certification when it has reason to believe that the applicant for or the holder of such license, permit or certification has violated any of the provisions of Subsection B of this section.

B. It is a violation of the Pesticide Control Act for any person to:

(1) make a false or fraudulent claim through any media which misrepresents the effect of material or methods to be used;

(2) make a pesticide recommendation or to use a pesticide in a manner inconsistent with the labeling;

(3) apply known ineffective or improper materials;

(4) operate faulty or unsafe apparatus;

(5) operate in a faulty, careless or negligent manner;

(6) refuse or, after notice, neglect to comply with the provisions of the Pesticide Control Act or the rules and regulations adopted pursuant thereto;

(7) refuse or neglect to keep and maintain the records or to make reports when and as required by the Pesticide Control Act or rules and regulations adopted pursuant thereto;

(8) make false or fraudulent records, invoices or reports;

(9) engage in the business of applying a pesticide on the land of another without having a licensed applicator or operator in direct "on-the-job" supervision;

(10) use fraud or misrepresentation in making an application for a license or renewal of a license;

(11) refuse or neglect to comply with any limitation or restriction on or in a duly issued license or permit;

(12) aid or abet a licensed or an unlicensed person to evade any provision of the Pesticide Control Act, conspire with a licensed or an unlicensed person to evade the provisions of the Pesticide Control Act or

allow one's license to be used by an unlicensed person;

(13) make false or misleading statements during or after an inspection concerning any infestation or infection of pests found on land;

(14) impersonate any state, county or city inspector or official;

(15) perform the type of pest control under the conditions and in the locality in which he operates or has operated, whether or not he has previously passed an examination, when not qualified;

(16) use, or supervise the use of, a pesticide which is restricted to use by certified applicators when not qualified as a certified applicator; or

(17) make pesticide recommendations or apply pesticides without having the proper certification or license.

C. Any person who has had a license, permit or certification denied, suspended or revoked by the department may request a hearing before the department. The request for a hearing shall be made within fifteen days of receipt of a certified letter notifying him of the department's action.

History: 1953 Comp., § 45-25-23, enacted by Laws 1973, ch. 366, § 23; 1979, ch. 394, § 11.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 C.J.S. Agriculture § 20.

Liability of termite or other pest control or inspection contractor for work or representations, 32 A.L.R.4th 682.

76-4-24. Surety bond or insurance required of commercial pesticide applicators.

The department shall not issue a commercial pesticide applicator license until the applicant has furnished evidence of financial responsibility with the department consisting either of a surety bond or a liability insurance policy or certification thereof, protecting persons who may suffer legal damages as a result of the operations of the applicant. However, the surety bond or liability insurance policy need not apply to damages or injury to land being worked upon by the applicant. The department shall not accept a surety bond or liability insurance policy except from authorized insurers or surplus line brokers authorized to do business in the state.

A. The amount of the surety bond or liability insurance as provided for in this section shall be set by the board. The surety bond or liability insurance shall be maintained, at a sum not less than that specified by the board, at all times during the license period. The department shall be notified ten days prior to any reduction made at the request of the applicant or cancellation of the surety bond or liability insurance by the surety or insurer. The department may accept a liability insurance policy or surety bond in the proper sum which has a deductible clause in an amount prescribed by the board. If the applicant has not satisfied the requirements of the deductible amount in any prior legal claim, such deductible clause shall not be accepted by the department unless the applicant furnishes the department with a surety bond or liability insurance which shall satisfy the amount of the deductible pertaining to all claims that may arise in his application of pesticides.

B. The applicator license shall, whenever the surety bond or insurance policy of the licensee is reduced below the requirements of the Pesticide Control Act and regulations adopted pursuant thereto, be automatically suspended until the surety bond or insurance policy again meets these requirements. The department may retrieve the license plates or decal of the licensee during the period of automatic suspension and return them only when the licensee has furnished the department with written proof that he is again in compliance.

C. Nothing in the Pesticide Control Act shall be construed to relieve any person from liability for any damage to the person or lands of another caused by the use of pesticides, even though such use conforms to the rules and regulations of the board.

History: 1953 Comp., § 45-25-24, enacted by Laws 1973, ch. 366, § 24.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 C.J.S. Agriculture § 101.

76-4-25. Damaged person must file report of loss; contents; time of filing; effect of failure to file.

A. Any person suffering a loss or damage resulting from the use or application by others of any pesticide shall file with the department a verified report of loss setting forth, so far as known to the claimant, the following:

(1) the name and address of the claimant;

(2) the type of land alleged to be injured or damaged;

(3) the name of the person applying the pesticide and allegedly responsible;

(4) the name of the owner or occupant of the property for whom the pesticide application was made; and

(5) additional information as requested by the department.

B. The report must be filed within sixty days from the time that the loss or damage becomes known to the claimant. If a growing crop is alleged to have been damaged, the report must be filed prior to harvest of fifty percent of that crop, unless the loss or damage was not then known. The department may prepare a form to be furnished to persons making a report of alleged damages. This form shall contain other requirements as the department deems necessary. The department may, upon receipt of the alleged damage report, notify the licensee and the owner or lessee of the land or other person who may be charged with the responsibility, of the damages claimed, and furnish copies of the statements as may be requested. The department shall inspect damages whenever possible, and when they determine that the complaint has sufficient merit, they shall make the information available to the person claiming damage and to the person who is alleged to have caused the damage.

C. The filing of a report or the failure to file a report need not be alleged in any complaint which might be filed in a court of law, and the failure to file the report shall not be considered any bar to the maintenance of

any action.

D. The failure to file the report shall not be a violation of this act. However, if the person failing to file the report is the only one injured from the use or application of a pesticide by others, the department may, when in the public interest, refuse to hold a hearing for the denial, suspension or revocation of a license or permit issued under the Pesticide Control Act until the report is filed.

E. Where damage is alleged to have occurred, the claimant shall permit the department, the licensee and his representatives, such as bondsman or insurer, to observe and examine the lands or nontarget organism alleged to have been damaged. Failure of the claimant to permit the observation and examination of the damaged lands shall automatically bar the claim against the licensee.

History: 1953 Comp., § 45-25-25, enacted by Laws 1973, ch. 366, § 25.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 47.

Infliction of emotional distress: toxic exposure, 6 A.L.R.5th 162.

3 C.J.S. Agriculture § 86.

76-4-26. Inspection of equipment.

A. The department shall provide for an annual inspection of any equipment used for the application of pesticides by a commercial pesticide applicator and may require repairs or other changes before the equipment is used to apply pesticides. A list of requirements that the equipment shall meet shall be provided by the department.

B. Any piece of equipment which fails inspection shall have affixed to it an out-of-order seal. The equipment shall not be put back into service until it has passed reinspection and the out-of-order seal is removed by the department. A prescribed inspection fee shall be charged for each reinspection.

History: 1953 Comp., § 45-25-26, enacted by Laws 1973, ch. 366, § 26; 1979, ch. 394, § 12.

76-4-27. License plates or decals for apparatus.

Each licensed apparatus shall be identified by a license plate or decal furnished by the department, at no cost to the licensee. The license plate or decal shall be affixed in a location and manner upon the application apparatus as prescribed by the department.

History: 1953 Comp., § 45-25-27, enacted by Laws 1973, ch. 366, § 27.

76-4-28. Farmer or rancher exemption.

Except for the use of restricted use pesticides the provisions of the Pesticide Control Act relating to licenses and requirements for their issuance shall not apply to any farmer or rancher owner of a ground or manual apparatus applying pesticides for himself or his farmer or rancher neighbors, when he:

A. operates farm or ranch property and operates and maintains pesticide application equipment primarily for his own use;

B. is not regularly engaged in the business of applying pesticides for hire amounting to a principal or regular occupation and he does not publicly solicit business as a pesticide applicator; or

C. operates his pesticide application equipment only in the vicinity of his own property and for the accommodation of his neighbors.

History: 1953 Comp., § 45-25-28, enacted by Laws 1973, ch. 366, § 28.

ANNOTATIONS

76-4-29. Repealed.

ANNOTATIONS

Repeals. — Laws 1979, ch. 394, § 15, repealed 76-4-29 NMSA 1978, as enacted by Laws 1973, ch. 366, § 29, relating to the exemption of landscape gardeners from the provisions of the Pesticide Control Act.

76-4-30. Discarding and storing of pesticides and pesticide containers.

No person shall discard, transport or distribute any pesticide or pesticide container in a manner that may cause injury to humans, vegetation, crops, livestock, wildlife or beneficial insects or pollute any waterway.

History: 1953 Comp., § 45-25-30, enacted by Laws 1973, ch. 366, § 30.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture § 42.

76-4-31. Access to public or private premises.

A. For the purpose of carrying out the provisions of the Pesticide Control Act, the department is authorized upon presentation of proper identification and with consent of the owner or by court order, to enter any public or private premises, in order to:

(1) inspect any apparatus subject to the Pesticide Control Act and the premises on which the

apparatus is kept or stored;

(2) inspect lands actually or reported to be exposed to pesticides;

(3) inspect storage or disposal areas;

(4) inspect or investigate complaints of injury to humans or land;

(5) sample pesticides being applied or to be applied; or

(6) sample land, including agricultural products, for pesticide residues.

B. If it appears that a pesticide apparatus or device fails to comply with the provisions of the Pesticide Control Act or regulations adopted thereunder, and if the department contemplates instituting proceedings against any person, the department shall cause notice to be given to the person. Any person so notified shall be given an opportunity to present his views, either orally or in writing, with regard to the contemplated proceedings. If thereafter, in the opinion of the department, it appears that the provisions of the Pesticide Control Act or regulations adopted thereunder have been violated by the person, the department shall refer a copy of the results of the analysis or the examination of the pesticide apparatus or device to the district attorney for the county in which the violation occurred. It is the duty of the district attorney to whom any violation of the Pesticide Control Act is reported to cause appropriate proceedings to be instituted and prosecute in a court of competent jurisdiction without delay.

C. Nothing in the Pesticide Control Act shall be construed as requiring the department to report, for prosecution or the institution of condemnation proceedings, minor violations of the Pesticide Control Act when the department believes that the public interest will be best served by a notice of warning in writing.

D. Should the department be denied access to any land where access was sought for the purposes set forth in the Pesticide Control Act, they may apply to any court of competent jurisdiction for a search warrant for the purpose requested.

History: 1953 Comp., § 45-25-31, enacted by Laws 1973, ch. 366, § 31.

ANNOTATIONS

Cross references. — For inspection of apparatus, *see* 76-4-26 NMSA 1978.

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture §§ 42, 50.

3 C.J.S. Agriculture § 83.

76-4-32. Classification of licenses.

A. The department may classify licenses to be issued under the Pesticide Control Act. Such classifications may include recommending pesticides to be used in or on land, including but not limited to agricultural crops, ornamentals, structures and noncrop land or to treat regulated products or equipment. If the licensee has a classified license, he shall be limited to practicing within such classification. Each classification shall be subject to separate testing procedures and requirements. No person shall be required

to pay an additional license fee if he desires to be licensed in one or all of the license classifications.

B. The department may classify pesticide applicator and operator licenses to be issued under the Pesticide Control Act. the classifications may include, but not be limited to pest control operations, fumigators, ornamental or agricultural pesticide applicators or right-of-way pesticide applicators. Separate classifications may be specified for ground, aerial or manual methods used by any licensee to apply pesticides or to the use of pesticides to control pests. Each classification shall be subject to separate testing procedures and requirements. No person shall be required to pay an additional license fee if the person desires to be licensed in one or all of the license classifications.

History: 1953 Comp., § 45-25-32, enacted by Laws 1973, ch. 366, § 32.

ANNOTATIONS

76-4-33. Records.

A. Any person issued a license or permit under the provisions of the Pesticide Control Act shall keep such records as required by regulation of the board.

B. Commercial pesticide applicators licensed under the provisions of the Pesticide Control Act shall keep such records as prescribed by regulation of the board.

C. The department shall have access to the records at any reasonable time to copy or make copies of the records for the purpose of carrying out the provisions of the Pesticide Control Act. Unless required for the enforcement of the Pesticide Control Act, the information shall be confidential and, if summarized, shall not identify any individual person.

History: 1953 Comp., § 45-25-33, enacted by Laws 1973, ch. 366, § 33.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 C.J.S. Agriculture § 95.

76-4-34. Penalties.

A. Any person violating any provision or requirement of the Pesticide Control Act or regulations adopted by the board pursuant to that act is guilty of a petty misdemeanor.

B. In addition to any other penalties imposed by the Pesticide Control Act, any person who willfully or repeatedly violates any provision of that act may be assessed by the court a civil penalty not to exceed one thousand dollars ($1,000) for each violation.

C. The board may bring an action to enjoin the violation or threatened violation of any provision of the Pesticide Control Act or any regulation made pursuant thereto in a court of competent jurisdiction of the county in which the violation occurs or is about to occur.

D. The department, acting as a law enforcement officer, is authorized to file a criminal complaint in a magistrate court for violations of the Pesticide Control Act or regulations adopted pursuant thereto and shall not be required to pay the docket fee.

History: 1953 Comp., § 45-25-34, enacted by Laws 1973, ch. 366, § 34; 1979, ch. 394, § 13.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture §§ 42, 50, 51.

3 C.J.S. Agriculture § 7.

76-4-35. Persons exempted from certain penalties.

A. The penalties provided for violations of Paragraphs (1) through (5) of Subsection A of Section 5 [76-4-5 NMSA 1978] of the Pesticide Control Act shall not apply to:

(1) any carrier while lawfully engaged in transporting a pesticide within this state, if such carrier shall, upon request, permit the department to copy all records showing the transactions in and movement of the pesticides or devices;

(2) public officials of this state and the federal government while engaged in the performance of their official duties in administering state or federal pesticide laws or regulations or while engaged in pesticide research; or

(3) the manufacturer or shipper of a pesticide for experimental use only by or under the supervision of an agency of this state or of the federal government authorized by law to conduct research in the field of pesticides if the manufacturer or shipper holds a valid experimental use permit issued by the department and by the United States environmental protection agency.

B. No pesticide or device shall be deemed in violation of the Pesticide Control Act when intended solely for export to a foreign country and when prepared or packed according to the specifications or directions of the purchaser. If not so exported, all the provisions of the Pesticide Control Act and regulations adopted thereunder shall apply.

History: 1953 Comp., § 45-25-35, enacted by Laws 1973, ch. 366, § 35.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture §§ 21, 66.

3 C.J.S. Agriculture § 53.

76-4-36. Repealed.

History: 1953 Comp., § 45-25-36, enacted by Laws 1973, ch. 366, § 36; 1977, ch. 253, § 49; 1978, ch. 39, § 1; 1979, ch. 394, § 14; 1983, ch. 296, § 29; repealed Laws 2005, ch. 235, § 1.

ANNOTATIONS

Repeals. — Laws 2005, ch. 235, § 1 repealed 76-4-36 NMSA 1978, as enacted by Laws 1973, ch. 366, § 36, relating to the pesticide advisory board, effective June 17, 2005. For provisions of former section, *see* the 2004 NMSA 1978 on *NMOneSource.com*.

76-4-37. Publication of information.

The department may publish, in the form it deems proper, results of products analyzed, based on official samples as compared with the guaranteed analysis and information concerning the distribution and use of pesticides. Individual distribution and use information shall not be a public record. The department may also publish results of samples analyzed for pesticide residues.

History: 1953 Comp., § 45-25-37, enacted by Laws 1973, ch. 366, § 37.

ANNOTATIONS

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 C.J.S. Agriculture § 95.

76-4-38. Cooperation.

The department may cooperate, receive grants-in-aid and enter into cooperative agreements with any agency of the federal government, of this state or its subdivisions, or with any agency of another state, in order to:

A. secure uniformity of regulations;

B. enter into cooperative agreements with the United States environmental protection agency to register pesticides under the authority of the Pesticide Control Act and the federal Environmental Pesticide Control Act;

C. cooperate in the enforcement of the federal Environmental Pesticide Control Act and regulations through the use of state or federal personnel and facilities or both and to implement cooperative enforcement programs including but not limited to the registration of pesticides, collection and analysis of pesticides and devices, inspection of storage facilities and certification of applicators;

D. enter into contracts with other agencies including federal agencies for the purpose of training pesticide dealers, pesticide management consultants, pesticide applicators or operators;

E. publish information and conduct short courses on the storage, transportation, distribution, application, use, registration and disposal of pesticides and devices and environmental implications thereof;

F. enter into contracts for either monitoring pesticides, or analyzing land, including agricultural products that will be consumed by any living organism other than plants, for pesticide residues, or both;

G. prepare and submit a state plan to meet federal certification standards including issuing experimental use permits; and

H. regulate pesticide applicators and operators.

History: 1953 Comp., § 45-25-38, enacted by Laws 1973, ch. 366, § 38.

ANNOTATIONS

Cross references. — For the federal Environmental Pesticide Control Act, *see* 7 U.S.C. § 136 et seq.

Am. Jur. 2d, A.L.R. and C.J.S. references. — 3 Am. Jur. 2d Agriculture §§ 22 to 37, 43.

3 C.J.S. Agriculture §§ 25 to 56.

76-4-39. Disposition of funds.

All moneys received by the department under the provisions of the Pesticide Control Act shall be expended for the purpose of carrying out the provisions of the Pesticide Control Act.

History: 1953 Comp., § 45-25-39, enacted by Laws 1973, ch. 366, § 39.

ANNOTATIONS

Severability. — Laws 1973, ch. 366, § 43, provided for the severability of the act if any part or application thereof is held invalid.

Comments

NIDA

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Friday, June 27, 2025 9:47 AM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Logan McGarrah
Email	logan.mcgarrah@corteva.com
Please input your comments below:	I am opposed to changing the renewal dates for the licenses. The proposed changes will interfere with the traditional CEU earning opportunities that occur during meetings in January. I would like the renewal date to remain December 31st.

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Thursday, July 3, 2025 6:50 PM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Emily Johnson
Email	emily.johnson@simplot.com
Please input your comments below.	I am opposed to changing the license renewal date to January 31st, as this will interfere with the traditional timing of CEU classes. If under the new rule, CEU's earned in January could potentially count towards two separate license periods, I would like that language to be incorporated into the new rule.

COMMENTS FOR PESTICIDES RULEMAKING:

-------SEE FOLLOWING COMMENTS-------

COMMENTS RECEIVED FROM:

1. Logan McGarrah
2. Emily Johnson
3. Jasmin LaBine
4. Steve Kittrell
5. Bart Goetz
6. Keith Settle
7. Kelby Riley
8. Ottis Leach
9. William Cox
10. Russ Perkins
11. Ross Goetz
12. Joseph Ogden
13. Bart Goetz
14. Trent Murphree
15. Michael Ronquillo
16. Greg Alpers

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Wednesday, July 9, 2025 2:37 PM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Jasmin LaBine
Email	jasmin.labine@nutrien.com
Please input your comments below:	I am opposed to changing the license renewal date to January 31st, as this will interfere with the traditional timing of CEU classes. If under the new rule, CEU's earned in January could potentially count towards two separate license periods

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Wednesday, July 9, 2025 5:42 PM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Steve Kittrell
Email	kittrells@helenaagri.com
Please input your comments below:	I am opposed to changing the license renewal date from December 31 to January 31. This will just add confusion to CEU earners that go to meetings in January to earn New Mexico CEUs for pesticide renewal license in that year. In January, each year, New Mexico hay Association, New Mexico crop production association, NM cotton growers, and New Mexico aerial applicators all conduct their meetings for their members to get CEU's for their license renewal. These meetings were set up with the calendar year ending for license renewal, and have been in place For many many years. Evidently the NMDA gives everyone off in December, and that is the main purpose for changing the date, that is not a very good reason in my opinion.

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Thursday, July 10, 2025 1:40 PM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed

Jotform

NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Bart Goetz
Email	pvcropadvisors@hotmail.com

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Friday, July 18, 2025 10:21 AM
To: NMDA, Comments
Subject: Pesticides - Comment



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Keith Settle
Email	keithsettle@hotmail.com
Please input your comments below:	I am absolutely opposed to changing the dates from December 31st to January31st. The dates have been set for decades and for those of us who have been licensing for decades want to keep it that way!

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Monday, July 21, 2025 12:34 PM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Kelby Riley
Email	kelby.riley@syngenta.com
Please input your comments below.	I am opposed to changing the license renewal date to January 31st, as this will interfere with the traditional timing of CEU classes. If under the new rule, CEU's earned in January could potentially count towards two separate license periods, I would like that language to be incorporated into the new rule.

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Monday, July 21, 2025 4:43 PM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Ottis Leach
Email	orl@suddenlink.net
Please input your comments below:	I strongly disagree with this legislation, if CEU's are are given in 2026 for 2025, tha just doesn't make sense.

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Monday, July 21, 2025 9:57 PM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	William Cox
Email	coxco1980@gmail.com
Please input your comments below:	I am opposed to changing the license date from December 31st to January31st. This change is totally unnecessary and will only serve to add another layer of confusion to process that has worked reasonably well for many years. January is "meeting month". We attend the meetings, get our CEU's and are set for the year. Surely NMDA can figure out how to close out the year on December 31st and issue the licenses in a timely manner. You give us hoops to jump through, you give yourselves a raise (at our expense) and now you want to move the hoops? Seems pretty unnecessary to me.

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Tuesday, July 22, 2025 7:39 AM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Russ Perkins
Email	russ.perkins@bayer.com
Please input your comments below:	I am opposed to changing the license renewal date to January 31st. Numerous Ag related organizations have traditionally held their meetings in January, giving their members opportunities to earn NMDA CEU credits early in the new year. Changing the dates has the potential to cause serious problems. I would prefer that the renewal dates stay as they are. If under the new rule, CEU's earned in January could potentially count towards two separate license periods, I would like that language to be incorporated into the new rule.

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Thursday, July 24, 2025 8:25 AM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Ross Goetz
Email	ross.goetz@nutrien.com
Please input your comments below:	I am opposed to changing the license renewal date to January 31st, as this will interfere with the traditional timing of CEU classes.

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Thursday, July 24, 2025 9:04 AM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Joseph Ogden
Email	j-ogden2010@hotmail.com
Please input your comments below:	I am opposed to changing the license renewal date to January 31st, as this will interfere with the traditional timing of CEU classes. If under the new rule, CEU's earned in January could potentially count towards two separate license periods. This would cause issues for all involved.

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Thursday, July 24, 2025 1:48 PM
To: NMDA, Comments
Subject: Pesticides - Comment



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Bart Goetz
Email	pvcropadvisors@hotmail.com
Please input your comments below:	I am opposed to the rule change for license renewal dates on January 31st. I try to go to meetings In January to get my CEUs. This time frame seems to short and I see problems going forward. I would suggest picking another date maybe November 31st.

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Thursday, July 24, 2025 5:46 PM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Trent Murphree
Email	trent.allen.murphree@basf.com
Please input your comments below	I am opposed to changing the license renewal date to January 31st, as this will interfere with the traditional timing of CEU classes. If under the new rule, CEU's earned in January could potentially count towards two separate license periods, I would like that language to be incorporated into the new rule.

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Friday, July 25, 2025 1:44 PM
To: NMDA, Comments
Subject: Pesticides - Comment

Follow Up Flag: Follow up
Flag Status: Completed

NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Michael Ronquillo
Email	ronquillom@helenaagri.com
Please input your comments below:	Opposed to change of license renewal date to January 31. I believe it will negatively affect attendance of organizations that support New Mexico agriculture.

Fisher, Vanessa

From: Jotform <noreply@jotform.com>
Sent: Sunday, July 27, 2025 5:25 PM
To: NMDA, Comments
Subject: Pesticides - Comment



NMDA Rulemaking Comments

Which rule would you like to submit a comment for?	Pesticides
Name	Greg Alpers
Email	alpersgreg@gmail.com
Please input your comments below:	I am opposed to this change. This rule disrupts long established procedures that have served well. A change that can cause people to either have to many CEU's or not enough and to be totally confused about what counts and what does not count. I suggest leaving the Rule as is or change the date from Dec 31st to the 15th of December. This will fit Ag applicators better. It would also fit your leave policy of being closed the last two weeks of the year to follow University guidelines.

Fisher, Vanessa

From: Steven D. Bennett <sbennett@thehcpa.org>
Sent: Thursday, July 31, 2025 3:59 AM
To: NMDA, Comments
Subject: HCPA Comments on the Proposed Rulemaking and Fee Update to NMAC 21.17.50
Attachments: HCPA Comments NM Proposed Rulemaking and Fee Update.pdf

Director Lewis,

Please accept the attached comments on behalf of the Household & Commercial Products Association on the proposed Rulemaking to NMAC 21.17.50.

Do not hesitate to reach out with any questions or clarifications.

Steven Bennett, Ph.D.
Executive Vice President, Scientific & Regulatory Affairs
Pest Management Products Division Staff Executive
HCPA Consumer Product Ingredients Dictionary
1625 Eye Street NW, Suite 700, Washington, DC 20006
Direct: 202-833-7330
Mobile: 443-752-2822

HOUSEHOLD COMMERCIAL PRODUCTS ASSOCIATION
Innovative Products For Home. Work. Life.

CONFIDENTIALITY NOTICE: This e-mail message (including any attachments or hyperlinks) contains strictly confidential information from the Household & Commercial Products Association (HCPA) and is solely intended for the named recipient(s). This e-mail may contain information that is confidential or otherwise protected from disclosure. If you are not the intended recipient, any use, dissemination, distribution or copying of this communication is prohibited and may be unlawful.

HOUSEHOLD & COMMERCIAL PRODUCTS ASSOCIATION

Innovative Products For **Home. Work. Life.**

July 31, 2025
Brad Lewis, Division Director, Agricultural and Environmental Services
New Mexico Department of Agriculture
Office of the Director
MSC 3189, PO Box 30005
1050 Stewart Street
Las Cruces, NM 88003-8005
Submitted via email to comments@nmda.nmsu.edu

Re: Proposed Rulemaking to NMAC 21.17.50

Dear Director Lewis,

On behalf of the Household & Commercial Products Association[1] (HCPA) and its members, we want to convey our comments on the New Mexico Department of Agriculture's (NMDA) proposed rule to repeal and replace Title 21, Chapter 17, Part 50 of the New Mexico Pest, Disease and Weed Control regulation pertaining to Pesticides.

HCPA appreciates the change of the expiration date from December 31 to January 31. This appears to be a practical solution to having expiration dates coincide with the holiday season. In most cases, this would have minimal impact, as renewals are often submitted well in advance of the expiration date; however, it does provide a better opportunity for a registrant to contact NM staff with questions.

HCPA appreciates the adjustment of the annual registration fee from $100 to $150 for each registered device or pesticide. We agree that it is essential for NMDA to have sufficient funds to cover the costs of services, inspections, and licensing, while maintaining a level of service that is essential to the business community. The timely completion of registrations and renewals is crucial to business operations, and delays can have significant operational and financial consequences. HCPA requests that the increase in registration and renewal fees be matched with a commitment to timely and predictable processing, and that the increased fees remain within the NMDA.

With that goal in mind, HCPA encourages NMDA to publicly communicate typical timelines and processing goals for NMDA. For example, Washington State and

[1] HCPA is the premier trade association representing the interests of companies engaged in the manufacture, formulation, distribution and sale of more than $180 billion annually in the U.S. of familiar consumer products that help household and institutional customers create cleaner and healthier environments. HCPA member companies employ hundreds of thousands of people globally. HCPA represents products including disinfectants that kill germs in homes, hospitals and restaurants; air fresheners, room deodorizers, and candles that eliminate odors; pest management products for pets, home, lawn, and garden; cleaning products and polishes for use throughout the home and institutions; products used to protect and improve the performance and appearance of automobiles; aerosol products and a host of other products used every day.

California regularly maintain and update their performance metrics.[2] This information would assist both registrants and NMDA while fostering predictability in the registration and renewal process.

HCPA appreciates the opportunity to provide feedback and would be happy to address any follow-up questions.

Sincerely,

Steven Bennett, Ph.D.
Executive Vice President, Scientific & Regulatory Affairs

[2] Washington State Department of Agriculture:
https://agr.wa.gov/departments/pesticides-and-fertilizers/pesticides/pesticide-registration/product-registration/registration-timelines
California Department of Pesticide Regulation:
Pesticide Registration Program Annual Processing Timelines
https://www.cdpr.ca.gov/wp-content/uploads/2025/04/ca_notice_2025-06.pdf

Sign-In Sheet

PESTICIDE RULE HEARING

NEW MEXICO DEPARTMENT OF AGRICULTURE SIGN-IN SHEET

LAS CRUCES, NM

JULY 29, 2025

	NAME	AFFILIATION
1	Russ Perkins	NMCPA
2	Logan McGarrah	NMCPA
3	Alan Fehm	Custom Applicator
4	Teri Cates	NMPMA
5	Dixie Mussow	NMCPA
6	Michael Rongville	Helena Agri
7	MADDY MERTIMER	NMDA
8		
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16		
17		
18		

PESTICIDES RULE HEARING

NEW MEXICO DEPARTMENT OF AGRICULTURE

ALBUQUERQUE, NM

JULY 31, 2025

	NAME	AFFILIATION	EMAIL
1	– NO ATTENDEES –		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # F-13

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By:
Amm Devasthali
Chairwoman, Board of Regents

Agenda Item:

Long Term Retention Incentive Arrangement Resolution

Requested Action of the Board of Regents:

Approval of the Long Term Retention Incentive Arrangement Resolution as presented.

Executive Summary:

In accordance with Article 4.02 of the Employment Agreement By and Between the Regents of New Mexico State University and Dr. Valerio Ferme, this resolution formalizes the terms of a long-term retention incentive (LTI).

As per his existing employment agreement, Dr. Ferme is eligible for an annual cash retention incentive of up to $50,000 for each calendar year from 2025 through 2029. The resolution clarifies that Dr. Ferme will earn each annual payment upon the satisfactory completion of his performance goals, specifically with a rating of "meets expectations" or higher.

All earned payments will be held and paid out in a single, lump-sum cash payment on or after January 1, 2030. This final payment is contingent on Dr. Ferme's continued employment with the university through that date.

References:

Please see the attached resolution and employment agreement.

Prior Approvals:

N/A

Resolution No. 2025-03

NEW MEXICO STATE UNIVERSITY BOARD OF REGENTS

RESOLUTION

WHEREAS, on October 25, 2024, the Board of Regents of New Mexico State University ("Regents") entered into an Employment Agreement with Dr. Valerio Ferme, the President of New Mexico State University (the Employment Agreement); and

WHEREAS, a provision in said Employment Agreement, titled “Long-Term Retention Incentive,” requires the Regents to design and implement a long-term retention incentive arrangement (LTI Arrangement) for Dr. Ferme; and

WHEREAS, under the Employment Agreement, the LTI Arrangement is to be developed in good faith consultation with Dr. Ferme as soon as commercially practicable after the Start Date; and

WHEREAS, the Employment Agreement provides that the LTI Arrangement will provide for an annual cash retention incentive of up to $50,000 for each of the calendar years 2025 through 2029 (the LTI Payment), based on the achievement of NMSU and/or individual performance objectives; and

WHEREAS, according to the Employment Agreement, any such incentives awarded will be earned and paid in a single cash lump sum on the first regular NMSU payroll date coinciding with or following January 1, 2030, contingent upon Dr. Ferme's continued employment with NMSU and compliance with the Employment Agreement through January 1, 2030;

NOW THEREFORE, BE IT RESOLVED in official session of the Board of Regents of New Mexico State University, that Dr. Ferme will earn the LTI Payment for each year under the Employment Agreement upon the satisfactory completion of all of Dr. Ferme’s annual performance evaluation goals with a rating of “meets expectations” or above for the calendar year, and subject to Dr. Ferme’s continued employment with NMSU through January 1, 2030. All LTI Payments earned shall be paid in a single cash lump sum on the first regular NMSU payroll date coinciding with or following January 1, 2030.

RESOLVED, this fifteenth day of September 2025, in Las Cruces, New Mexico.

_____

Ammu Devasthali
Board of Regents Chair

PRESIDENT EMPLOYMENT AGREEMENT BY AND

BETWEEN

THE REGENTS OF NEW MEXICO STATE UNIVERSITY AND

DR. VALERIO FERME

PRESIDENT EMPLOYMENT AGREEMENT
BY AND BETWEEN
THE REGENTS OF NEW MEXICO STATE UNIVERSITY
AND
DR. VALERIO FERME

This President Employment Agreement ("Agreement") is made and entered into by and between the **Regents of the New Mexico State University** ("Regents") and **Dr. Valerio Ferme** ("Dr. Ferme").

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

ARTICLE I
APPOINTMENT AS PRESIDENT

1.01 Appointment. Commencing November 18, 2024 ("Start Date"), Dr. Ferme will be employed by the New Mexico State University System ("NMSU") pursuant to the terms of this Agreement. Effective January 1, 2025 ("Appointment Date"), contingent on Dr. Ferme's continued employment with NMSU and compliance with this Agreement through such date, the Regents appoint and authorize Dr. Ferme to serve as President of NMSU. For the purpose of this Agreement, "NMSU" is defined to include all activities and operations of the Constitutionally defined state institution of higher education identified by law as New Mexico State University, including the university based in Las Cruces, New Mexico (NMSU University), NMSU Global, and the three community colleges based in Alamogordo, Doña Ana, and Grants, but excluding the New Mexico Department of Agriculture which is independently managed by a Director who is appointed by and reports to the Board of Regents ("Board"). As President, Dr. Ferme will serve as NMSU's chief executive officer in accordance with the policies, rules and regulations promulgated under the authority of the Regents. Dr. Ferme hereby accepts such appointment and agrees to serve as President of NMSU under the terms and conditions of this Agreement.

1.02 Onboarding Period. Between the Start Date and the Appointment Date, Dr. Ferme will perform onboarding duties under the direction of the Regents of NMSU as President Designate in accordance with the policies, rules and regulations promulgated under the authority of the Regents.

ARTICLE II
DUTIES

2.01 Reporting. Dr. Ferme will report directly to the Regents and will serve under the supervision and subject to the direction of the Regents.

2.02 Duties and Responsibilities. Dr. Ferme agrees that he will, at all times, faithfully, industriously, and with the best use of his experience, ability, and talent perform the duties of President. Dr. Ferme will perform all the duties required as President in accordance with

this Agreement, the directives of the Regents, the Regents Policy Manual, the regulations, policies, and procedures of NMSU, and all applicable federal and state laws, regulations, and rules. Dr. Ferme will devote the required professional time, attention, and energy to the business of NMSU, and will not, during the term of this Agreement, engage in any other business or professional activity, except as expressly allowed herein or subsequently approved by the Regents. Dr. Ferme in his capacity as President will be responsible for the oversight of the operations and activities of NMSU. The President will not be responsible for the operation of the New Mexico Department of Agriculture which is governed by the Regents and receives administrative support from NMSU.

The Duties of the President include, but are not limited to:

2.02.1 Leading NMSU to academic excellence, and enhancing the scholarship of teaching research and public service;

2.02.2 Fundraising; donor development; governmental relations; public, private, corporate and alumni relations;

2.02.3 Development of public-private partnerships for the benefit of NMSU, and the responsible development of projects designed to maintain the value of NMSU's portfolio of real estate and water assets for future generations while increasing the revenue generated by those resources;

2.02.4 Long-term visionary strategic planning in conjunction with the Regents, and strategic budgetary responsibilities;

2.02.5 Elevating the accomplishments, prominence, national and international recognition, and prestige of NMSU;

2.02.6 Ensuring that strategic priorities and investments drive quantitative improvements in recruitment, retention, graduation, student employment, alumni giving, and research in order to better accomplish NMSU's core land-grant, Hispanic serving mission;

2.02.7 Enhancement of NMSU's stature and success through research awards, public recognition, and identifiable relevant contributions to regional and state-wide economic development;

2.02.8 Oversee and provide strategic leadership for Division I Intercollegiate Athletics programs at NMSU, including direct involvement in athletic conference decisions and program compliance under NCAA regulations.

2.03 Professional Activities. Dr. Ferme is encouraged to participate in local, regional, state, national, and international efforts aimed at promoting and improving public higher education and public higher education administration. Dr. Ferme may provide advice or consultation to, and may receive compensation from, entities other than NMSU, provided that such activities: (a) are approved in advance by the Regents; (b) do not fall within his

duties as President of NMSU; (c) do not interfere with the performance of his official duties and obligations to NMSU; (d) do not create a conflict of interest with respect to his official NMSU duties; (e) are in compliance with all other applicable laws, rules of the Regents, and NMSU regulations and policies concerning ethics or conflicts of interest; (f) do not involve the improper use of NMSU resources, time, materials, or facilities; (g) are reported, if required by law, to governmental ethics bodies; and (h) are reported to the Regents annually, including an accounting of all outside compensation received. Advance approval of the Regents will be deemed given unless, within 2 weeks of receiving written notification of such proposed activities, the Chair of the Board notifies Dr. Ferme that the item will be placed on the agenda of a future Regent's meeting for consideration. Any such approval may be revoked by the Regents at any time. Dr. Ferme's first disclosure of such professional activities is attached as Exhibit A to this Agreement and approved concurrently with the ratification of this Agreement.

ARTICLE III
TERM

3.01 Term. The "Term" of this Agreement will commence on the Start Date, and terminate January 1, 2030, subject to any early termination as provided in this Agreement and subject to any renewals and extensions. The effective date of any termination of Dr. Ferme's employment under this Agreement for any reason is hereinafter referred to as the "Termination Date".

3.02 Annual Evaluation. The Regents will conduct an annual evaluation ("Annual Evaluation") of Dr. Ferme's performance during the 90-day period following the end of each fiscal year of NMSU (each, a "Fiscal Year"). This Annual Evaluation, based on annual and multi-annual performance goals, will replace any other annual performance evaluations regularly conducted pursuant to NMSU policy or rules. Additional interim performance assessments may be conducted by the Regents. Evaluations will be documented and any finding of unsatisfactory performance in the Annual Evaluation will be stated explicitly in the written documentation.

3.03 Renewal and Extension of Agreement. The Term of this Agreement may be renewed and extended at any time but only by written agreement signed by authorized representatives of both parties, subject to any approvals that must be obtained in accordance with applicable law or policy.

3.04 Tenure Appointment. Upon his appointment as President, Dr. Ferme will be granted a tenured faculty appointment at the rank of full professor in the Department of English in the College of Arts & Sciences. In the event that Dr. Ferme is removed from the position of President pursuant to Section 5.03.1 or 5.03.7 (and, in the case of removal pursuant to Section 5.03.1, the Regents agree in their sole discretion to permit Dr. Ferme to exercise the retreat right described in this sentence), Dr. Ferme may retreat to a regular nine-month or twelve-month faculty position at a salary that is commensurate to the highest rate of pay afforded to tenured full professors of NMSU, in the same discipline and academic department (and, for the avoidance of doubt, Dr. Ferme will not be eligible to earn or receive any further compensation or benefits described in Article IV below, including,

without limitation, any payments under the LTI Arrangement, as defined below). Should Dr. Ferme retreat to a faculty position pursuant to this Agreement, he will be provided an opportunity for a one-year sabbatical commencing at the inception of such retreat appointment, during which Dr. Ferme will continue to receive the salary determined in accordance with the preceding sentence, and upon the conclusion of which Dr. Ferme will return to his faculty duties; provided that such sabbatical will end, and Dr. Ferme will not be permitted to return to his faculty duties, if Dr. Ferme commences other employment during such sabbatical. This opportunity to retreat to a tenured faculty appointment may not be exercised, and this grant of tenure is null and void, in the event that Dr. Ferme's employment under this Agreement is terminated pursuant to Sections 5.03.1 (subject to the discretion of the Regents to permit a retreat as set forth above) through 5.03.6.

ARTICLE IV
COMPENSATION

4.01 Annual Base Salary. During the Term, Dr. Ferme will be paid an annual base salary of six hundred thousand and No/100 Dollars ($600,000.00), prorated for any partial year ("Annual Base Salary"). This amount will be paid in twice monthly installments through the NMSU's payroll system during the Term, subject to withholdings as may be required by applicable law.

4.02 Long-Term Retention Incentive. As soon as commercially practicable after the Start Date, the Regents will, in good faith consultation with Dr. Ferme, design and implement a long-term retention incentive arrangement ("LTI Arrangement") for Dr. Ferme which will provide, among other things, that, for each of calendar years 2025 through 2029, NMSU may, in its discretion, award Dr. Ferme an annual cash retention incentive in an amount up to $50,000 based on achievement of NMSU and/or individual performance objectives set forth in such LTI Arrangement, and that any such incentives awarded to Dr. Ferme will be earned by and paid to Dr. Ferme in one cash lump sum on the first regular NMSU payroll date coinciding with or following January 1, 2030, contingent on Dr. Ferme's continued employment with NMSU and compliance with this Agreement through January 1, 2030. The LTI Arrangement will be subject to all of the terms and conditions (including as to earning and forfeiture) set forth in such arrangement's governing documents, once adopted by the Regents, and, in the event of any inconsistency between this Agreement and the LTI Arrangement documents relating to the long-term retention incentive described in this paragraph, the LTI Arrangement documents will control.

4.03 Employee Benefits. During the Term, Dr. Ferme and his family will be eligible to participate in those benefits that are provided to employees and their families with full time administrative appointments with NMSU, in accordance with and subject to the terms and conditions of such benefits, as may be amended or altered in the future. Specific benefits as described in this section may change from time to time as mandated by the State of New Mexico or as may be determined by the Regents. Participation in a New Mexico Educational Retirement Board (ERB) Plan is a condition of employment and all employees are required to contribute to a retirement account each month through wage withholding as provided by state law and NMSU policy.

4.04 Business Expenses. During the Term, Dr. Ferme will be provided with an office operating budget for business purposes that is comparable in amount to that provided to similar executive offices at NMSU. Additionally, during the Term, Dr. Ferme will be entitled to reimbursement or stipends, consistent with current practices within NMSU, as necessary to provide the following items for NMSU business related purposes: cellular and wireless communication devices; a computer; broadband internet access at his residence; memberships in national and state academic and relevant professional associations, organizations, committees; and any other communications or technology devices or software deemed to be reasonably necessary for the accomplishment of his duties and responsibilities ("Business Expenses"). Reimbursement of the Business Expenses will be subject to the relevant procurement, business procedures and relevant financial guidelines of NMSU.

4.05 Travel. Dr. Ferme will be reimbursed for reasonable and appropriate transportation, lodging, meal, and incidental expenses incurred during the Term for travel associated with official NMSU business in accordance with the NMSU' s standard business procedures, except as otherwise provided in this Agreement. In circumstances where air travel time exceeds 2 hours in a one-leg trip, or 4 hours in a two-leg trip, Dr. Ferme will be reimbursed for business class fare for international and domestic flights.

In addition, Dr. Ferme may also be reimbursed for reasonable and appropriate transportation, lodging, meal and incidental expenses incurred by his spouse for the spouse's travel associated with official NMSU business, where the spouse's attendance is necessary and expected. Spousal reimbursements will be limited to the amounts allowed to employees under NMSU's standard business procedures. Dr. Ferme acknowledges that certain spousal travel reimbursements, if any, may be a benefit taxable to Dr. Ferme under applicable tax laws.

4.06 Club Memberships. During the Term, Dr. Ferme may be provided a membership in a private social club, with the choice of club, the type of membership, and club spending limits subject to approval by the Regents. Such membership will be for the purpose of entertaining individuals who support or may support NMSU. The membership may also be used for personal purposes; however, all charges incurred for personal purposes will be paid by Dr. Ferme. It is understood and agreed that Dr. Ferme will not be provided membership at any club that engages in discriminatory practices that would otherwise violate state or federal law if practiced by a private business.

4.07 Moving Expense Reimbursement. Dr. Ferme will be provided with a one-time relocation reimbursement in an amount not to exceed $22,000, contingent on Dr. Ferme's continued employment with NMSU through the reimbursement date. Receipts for reimbursement must be submitted to the NMSU business office within sixty days of completion of the move to be eligible for reimbursement. Expenses eligible for reimbursement will be determined in accordance with the university's policies and business procedures manual.

4.08 Housing Benefit. Dr. Ferme will reside in the official University Center and Residence on Tortugas Trail at no cost for the duration of his employment with NMSU as

President. In the event of Dr. Ferme's death during the Term, any family member(s) that legally resided with Dr. Ferme at the time of his death will be permitted to remain at such residence for a reasonable grace period to be determined by NMSU to permit such family member(s) to find alternative housing accommodations.

4.09 Tax Liabilities. The compensation payable pursuant to this Agreement will be subject to reduction by all applicable withholding or deductions (such as social security and other federal and state taxes) as may be required pursuant to law, government regulations or court order. Dr. Ferme will be responsible for any and all personal income tax liability incurred as a result of any compensation or other benefits provided to him by NMSU. Dr. Ferme is advised to consult his own tax advisor regarding the taxation of all compensation and benefits hereunder, such as moving expenses, social club memberships, automobile and housing benefits, and reimbursement of expenses including spouse travel expense reimbursement. The Regents will report compensation and benefits as taxable income when it determines, in its discretion, that such reporting is required by law.

ARTICLE V
DISCIPLINARY ACTION AND TERMINATION

5.01 Right to Suspend. If there is sufficient reason to believe that, or upon initiation of an investigation to determine whether, Dr. Ferme is or was involved in conduct constituting "Just Cause" to terminate Dr. Ferme's employment under this Agreement, the Regents may, in its sole and absolute judgment and discretion and in addition to any other right under this Agreement, suspend Dr. Ferme, with or without pay, pending a final decision concerning the matter. At the conclusion of a suspension without pay, should Dr. Ferme be reinstated to the position of President without any resulting discipline, payment of his Annual Base Salary, from the date of suspension, will be restored.

5.02 Right to Discipline. The Regents reserves the right to discipline Dr. Ferme for Just Cause. Discipline may include reprimand, temporary suspension with or without pay, or any other sanction up to and including termination of employment under this Agreement. Prior to disciplining Dr. Ferme for Just Cause, the Regents will provide Dr. Ferme with notice of the allegations constituting cause and Dr. Ferme will be provided an opportunity to meet with the Regents to respond to the allegations. The Regents' determination thereafter will be final and subject to no additional administrative review or appeal.

5.03 Termination. Dr. Ferme's employment under this Agreement may be terminated before expiration of its Term upon any of the following events:

5.03.1 **Mutual Agreement.** Mutual written agreement of the parties.

5.03.2 **Resignation.** Resignation by Dr. Ferme; provided, however, that Dr. Ferme must give the Regents at least six (6) months advance written notice of his resignation, unless a shorter period of notice is mutually agreed upon in writing.

Dr. Ferme acknowledges that, should he voluntarily resign or abandon his employment with NMSU, without such advance notice, the failure to provide the advance notice will result in harm to NMSU and its operations. Accordingly, in

the event the President voluntarily resigns or abandons his employment with NMSU, because the actual harm and damage caused to NMSU cannot be accurately determined, the parties agree that within 30 days after his resignation or abandonment of his duties as President, Dr. Ferme will pay to the Regents as liquidated damages a sum equal to six months of his then current Annual Base Salary.

5.03.3 **Mental or physical incapacity.** Upon the determination by the Regents of mental or physical incapacity of Dr. Ferme, which renders him, with or without reasonable accommodation, incapable of properly performing the full-time duties required under this Agreement. If the Regents believe that, because of mental or physical incapacity, Dr. Ferme is unable to perform the essential functions of his position, it may, but is not obligated to, require Dr. Ferme to submit to a medical examination, either physical or mental, by a physician licensed to practice medicine in New Mexico and selected by the Regents, in order to report to and assist the Regents in determining whether Dr. Ferme is mentally or physically incapacitated such that he cannot perform the essential functions of his job, and if so, whether there is a reasonable accommodation that would enable Dr. Ferme to perform the essential functions of his position. Such examination and report will be at NMSU's expense. If the Regents determine, in their sole discretion and by a majority vote, that Dr. Ferme is mentally or physically incapacitated and is, therefore, incapable of properly performing the essential functions of his position under this Agreement, and that there is not a reasonable accommodation that can be made to enable Dr. Ferme to perform the essential function of his position, then Dr. Ferme's employment under this Agreement may be terminated. Dr. Ferme will receive oral or written notice of such potential action and upon written request to the Regents, will have an opportunity for an informal appeal, in executive session, to discuss the basis for the proposed action and to respond. The Regents' determination thereafter will be final and subject to no additional administrative review or appeal.

5.03.4 **Death.** This Agreement will terminate automatically upon Dr. Ferme's death.

5.03.5 **Just Cause.** The Regents may terminate Dr. Ferme's appointment and employment under this Agreement at any time for Just Cause. For purposes of this Agreement, "Just Cause" will include, but will not be limited to:

(1) Dr. Ferme's theft, dishonesty, fraud, embezzlement, willful misconduct, breach of fiduciary duty or material falsification of any documents or records of NMSU or its affiliates;

(2) Dr. Ferme's failure to abide by NMSU's code of conduct or other policies (including policies relating to confidentiality and workplace conduct and any drug, alcohol, or chemical substance abuse policy) made available to Dr. Ferme;

(3) Dr. Ferme's unauthorized use, misappropriation, destruction or diversion of any tangible or intangible asset or corporate opportunity of NMSU or its

affiliates (including Dr. Ferme's improper use or disclosure of NMSU's or its affiliates' confidential or proprietary information);

(4) any misconduct, moral turpitude, gross negligence or malfeasance of Dr. Ferme that has or could be expected to have a material detrimental effect on NMSU's or its affiliates' reputation or business;

(5) Dr. Ferme's negligent or willful failure to perform Dr. Ferme's assigned duties for NMSU or directives or orders of the Regents;

(6) Dr. Ferme's indictment for, conviction of (including any plea of guilty or nolo contendere), or imposition of unadjudicated probation for, any felony or any other criminal act involving fraud, dishonesty, misappropriation or moral turpitude, or that materially and permanently impairs Dr. Ferme's ability to perform Dr. Ferme's duties with NMSU, or Dr. Ferme's commission of any act or omission that could reasonably be expected to result in any indictment, conviction or imposition described in this sentence;

(7) commission by Dr. Ferme of an act of personal dishonesty which involves personal material profit in connection with his employment with NMSU;

(8) Dr. Ferme's willful failure to cooperate with NMSU or its affiliates and its legal counsel in connection with any investigation or other legal or similar proceeding involving NMSU or its affiliates; or

(9) an act by Dr. Ferme or by Dr. Ferme's spouse which causes substantial discredit or embarrassment to NMSU or its affiliates or which otherwise negatively impacts the reputation of NMSU or its affiliates.

(10) any material breach by Dr. Ferme of this Agreement or any other agreement between Dr. Ferme and NMSU or its affiliates.

The Regents' determination that "Just Cause" exists will be final and subject to no additional administrative review or appeal.

5.03.6 **Unsatisfactory Performance.** The Regents may elect to terminate Dr. Ferme's employment under this Agreement following a second consecutive unsatisfactory Annual Evaluation, provided pursuant to Section 3.02 of this Agreement, as determined by the Regents, in their sole discretion.

5.03.7 **Termination at the Discretion of the Regents**. The Regents will have the right to immediately terminate Dr. Ferme's employment under this Agreement at any time as they may determine, in their discretion, to be in the best interests of NMSU. For the avoidance of doubt, a termination under this Section 5.03.7 does not include any termination described in Sections 5.03.1 through 5.03.6 hereof.

5.04 Compensation upon Termination.

5.04.1 **Accrued Benefits**. If Dr. Ferme's employment under this Agreement ends for any reason, Dr. Ferme (or, as applicable, his estate) will receive the following (collectively, the "Accrued Benefits"): (1) any earned and unpaid Annual Base Salary through the Termination Date (paid within sixty calendar days following the Termination Date, or on such earlier date as may be required by applicable law); (2) subject to Article IV above and applicable NMSU policies and regulations, any unreimbursed eligible expenses otherwise due through the Termination Date; (3) the value of any accrued but unused leave through the Termination Date in accordance with state law and NMSU's regulations and policies; and (4) any accrued vested benefits (including any COBRA coverage continuation rights) under any NMSU employee benefit plan, paid or provided subject to and in accordance with the terms of such plan.

5.04.2 **Severance**.

(1) In the event Dr. Ferme's employment under this Agreement is terminated pursuant to Section 5.03.3 (mental or physical incapacity), Dr. Ferme (or, as applicable, his estate) will be eligible to receive, in addition to the Accrued Benefits, and contingent upon Dr. Ferme's satisfaction of the "Release Condition" (as defined below), severance in an amount equal to his Annual Base Salary (as in effect on the Termination Date) for the shorter of 6 months or the then-remaining portion of the Term, less all required deductions and withholdings, which will be paid to Dr. Ferme in one lump sum in cash within seventy five (75) days after the Termination Date.

(2) In the event Dr. Ferme's employment under this Agreement is terminated pursuant to Section 5.03.7 (termination at the discretion of the Regents), Dr. Ferme will be eligible to receive, in addition to the Accrued Benefits, and contingent upon Dr. Ferme's satisfaction of the Release Condition, severance in the form of continued payment of his Annual Base Salary (as in effect on the Termination Date) in equal periodic installments on NMSU's regular payroll dates (not less frequently than monthly) for the shorter of 12 months following the Termination Date or the then-remaining portion of the Term, less all required deductions and withholdings, contingent on Dr. Ferme's remaining in a tenured faculty position under Section 3.04 and providing continued substantial services to NMSU through each installment payment date, and provided that the first such installment will be paid on NMSU's first regularly scheduled pay period next following the sixtieth (60^{th}) day after the Termination Date and will include payment of any installments that were otherwise due prior thereto.

5.04.3 **No Other Obligations**. NMSU will have no other obligation for further damages, compensation or other amounts beyond the payments and benefits expressly described in this Section 5.04.

5.04.4 **Release Condition**. For purposes of this Agreement, "Release Condition" means that Dr. Ferme must, on or after the Termination Date, timely execute and deliver to the Regents a separation agreement including a general release of claims against NMSU, the Regents, and their respective affiliates, in a form then provided by the

Regents, and such release must become effective and irrevocable according to its terms no later than sixty (60) calendar days following the Termination Date, and only so long as Dr. Ferme has not revoked or breached any of the provisions of such release and does not subsequently breach any such provisions.

5.05 Return of Property. Dr. Ferme acknowledges that all memoranda, records, reports, manuals, handbooks, drawings, blueprints, books, papers, letters, formulas, contracts, catalogs, and other documentation (whether in draft or final form), and any and all other documents furnished to Dr. Ferme by NMSU or otherwise acquired or developed by him in connection with his employment with NMSU (collectively "Recipient Materials") will at all times be NMSU's property. On the expiration date or within fourteen (14) days of an earlier termination of his employment under this Agreement, Dr. Ferme will return any Recipient Materials which are in his possession, custody, or control, including Recipient Materials retained by Dr. Ferme in his office, automobile, or home. Additionally, on the expiration date or within fourteen (14) days of the earlier termination of his employment under this Agreement, Dr. Ferme agrees to return any equipment or other tangible property provided by NMSU or by the NMSU Foundation, Inc. for his use during his employment, including, but not limited to, the equipment purchased under Section 4.04 above, any desktop or laptop computers, printers, monitors, cellular telephones, pagers, personal communication devices, credit cards, access cards, security cards, and keys which are in his possession, custody, or control. Further, on the expiration date or within 30 days after earlier termination of this Agreement, Dr. Ferme agrees to vacate and return to NMSU any NMSU owned residence that he occupies, in the same condition in which it was delivered to him, normal wear and tear excepted.

ARTICLE VI
CONFIDENTIAL INFORMATION

6.01 Protection of Confidential Information. Dr. Ferme recognizes and acknowledges that the Regents or NMSU may provide him with access to information of a confidential nature to enable him to perform his duties and responsibilities hereunder. Dr. Ferme agrees that, except as may be required: (a) by the duties and responsibilities of his position; (b) by a lawful order of a court of competent jurisdiction; (c) in the event of litigation regarding this Agreement; or (d) to the extent that he has express authorization from the Regents, he will keep confidential indefinitely all confidential information concerning the Regents and NMSU which was acquired by or disclosed to his during the course of his employment with NMSU, and not to disclose the same, either directly or indirectly, to any other person, firm, or business entity, or to use it in any way except for the benefit of the Regents and NMSU or in the performance of the duties and responsibilities assigned to him. For purposes of this Agreement, the term "confidential information" means all non-public information or data relating to NMSU which Dr. Ferme has learned or will learn during the course of his employment with NMSU, whether or not a trade secret within the meaning of applicable law, or any other data or proprietary information or documents pertaining to the Regents and NMSU which Dr. Ferme is told or reasonably ought to know the Regents or NMSU regards as proprietary or confidential. Nothing in this Agreement or this confidentiality provision shall preclude, prohibit, or otherwise limit in any way Dr. Ferme's rights and abilities to contact, communicate with or report unlawful conduct, or provide

documents to federal, state, or local officials for investigation or participate in any whistleblower program administered by such agencies.

ARTICLE VII
MISCELLANEOUS

7.01 Amendment. This Agreement may not be modified or amended except by a written agreement duly executed by Dr. Ferme and approved by the Regents in an open public meeting.

7.02 Code Sections 409A and 457(f). Although the Regents do not guarantee the tax treatment of any payment or benefits hereunder, it is intended that payments and benefits under this Agreement be exempt from, or comply with, Section 409A of the Internal Revenue Code of 1986, as amended (the "Code"), and the regulations and guidance promulgated thereunder (collectively, "Section 409A") and Section 457(f) of the Code and the regulations and guidance promulgated thereunder (collectively, "Section 457(f)"), and, accordingly, to the maximum extent permitted, this Agreement shall be interpreted in a manner consistent therewith. For purposes of Section 409A and Section 457(f), Dr. Ferme's right to receive installment payments pursuant to this Agreement shall be treated as a right to receive a series of separate payments and, accordingly, each installment payment will at all times be considered a separate and distinct payment. Whenever a payment hereunder specifies a payment period with reference to a number of days, the actual date of payment within the specified period shall be within the sole discretion of NMSU. Notwithstanding the foregoing, the Regents do not guarantee any particular tax result, and in no event whatsoever will the Regents, NMSU, or their respective affiliates, officers, directors, employees, counsel or other service providers, be liable for any tax, interest or penalty that may be imposed on Dr. Ferme by Section 409A or Section 457(f) or damages for failing to comply with Section 409A or Section 457(f).

7.03 Charitable Donation. The Board will coordinate with the NMSU Foundation the initial transfer of $10,200 into the Aggie Cupboard account and subsequent annual transfers of matching charitable contributions during the Term to other NMSU charitable causes selected by Dr. Ferme and his spouse. Dr. Ferme commits to make an initial gift to the NMSU Foundation of $10,200 dedicated to the Aggie Cupboard and to make subsequent annual charitable contributions during the Term to other NMSU charitable causes selected by Dr. Ferme and his spouse.

7.04 Notice. Any notice that is required or may be given under the terms of this Agreement must be delivered both to the parties' official NMSU email addresses and by either courier or regular mail to the addresses indicated below the signatures on this document. Each party's designated address for notification purposes may be changed at any time by giving notice to the other party in accordance with this Section.

7.05 Parties Bound. Dr. Ferme and NMSU acknowledge that each has had an opportunity to consult with his or its respective attorneys or advisors concerning the meaning, import, and legal significance of this Agreement, and each has read this Agreement, as signified by their signatures hereto, and are voluntarily executing same after the opportunity to have

received advice of counsel or advisors for the purposes and consideration herein expressed.

7.06 Severability. The terms of this Agreement are severable such that if any term or provision is declared by a court of competent jurisdiction to be illegal, void, or unenforceable, the remainder of the provisions will continue to be valid and enforceable.

7.07 Default. Should either party default in the performance of his or their obligations, the non-defaulting party will be entitled to reasonable attorneys' fees and costs incurred in connection with any dispute or lawsuit arising out of such default. Any disputes between the parties will be resolved in the District Court of the State of New Mexico in Doña Ana County.

7.08 Waiver. No waiver by either party of any default or breach of this Agreement will be deemed a waiver of any other default or breach of the same or any other term or condition of this Agreement. No delay or failure to enforce any provision of this Agreement will constitute a waiver or limitation of any rights enforceable under this Agreement.

7.09 Non-Assignable. This Employment is not assignable but will be binding upon the heirs, administrators, personal representatives, successors, and assigns of both parties.

7.10 Governing Law. The validity, interpretation, construction and performance of this Agreement will be governed by and construed in accordance with the substantive laws of the State of New Mexico, without giving effect to the principles of conflict of laws of such State.

7.11 Entire Agreement. This Employment constitutes the entire understanding of the parties hereto concerning the employment between Dr. Ferme and the Regents and supersedes any and all prior or contemporaneous agreements, whether written or oral, between the parties. The parties agree that neither of them has made any representation with respect to the subject matter of this Agreement, except such representations as are specifically set forth herein. The parties acknowledge that they have relied upon their own judgment in entering into this Agreement.

7.12 Ratification by the Regents. This Agreement is subject to final approval by the Regents and will only become legally binding upon NMSU with a majority vote for the ratification at an open public meeting of the Regents. Upon such ratification, this Agreement be deemed effective as of the date in which the final signature was placed upon this document as indicated below.

[Signature page follows.]

As evidence of their agreement to the terms set forth above, the Parties have placed their signature on this Agreement on the date indicated below.

Regents of the
New Mexico State University

By: Ammu Devasthali, Chair

Date: 10/25/24

Valerio Ferme, Ph.D.

Valerio Ferme, Ph.D

Date: 21-Oct-2024

NOTIFICATIONS:	NOTIFICATIONS:
Email: regents@nmsu.edu Regular Mail: NMSU Board of Regents c/o University General Counsel PO Box 30001, MSC 3UGC Hadley Hall, Room 132 2850 Weddell Road Las Cruces, NM 88003	Email: vferme@msn.com Regular Mail: Dr. Valerio Ferme 558 Empress Avenue, Cincinnati, OH 45226

Valerio Ferme President Contract Final

Final Audit Report 2024-10-21

Created:	2024-10-21
By:	Adam Cavotta (cavotta@nmsu.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAlFgkOSRWhl6tmXvMfgYYLGkugbLax64d

"Valerio Ferme President Contract Final" History

Document created by Adam Cavotta (cavotta@nmsu.edu)
2024-10-21 - 7:19:39 PM GMT- IP address: 128.123.183.40

Document emailed to vferme@msn.com for signature
2024-10-21 - 7:20:14 PM GMT

Email viewed by vferme@msn.com
2024-10-21 - 7:50:39 PM GMT- IP address: 129.137.96.4

Signer vferme@msn.com entered name at signing as Valerio C Ferme
2024-10-21 - 7:51:51 PM GMT- IP address: 129.137.96.4

Document e-signed by Valerio C Ferme (vferme@msn.com)
Signature Date: 2024-10-21 - 7:51:53 PM GMT - Time Source: server- IP address: 129.137.96.4

Agreement completed.
2024-10-21 - 7:51:53 PM GMT

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # F-14

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By:

Lisa Henderson,
Chief General Counsel

Agenda Item:

Memorandum of Understanding – AFSCME and NMSU

Requested Action of the Board of Regents:

Approval of Memorandum of Understanding between AFSCME Local 2393 and NMSU

Executive Summary:

The current Collective Bargaining Agreement between AFSCME Local 2393 and the Regents of NMSU included a provision to negotiate a successor agreement prior to the end date of June 30, 2025. Instead, AFSCME has requested an extension to the current Agreement for a 3-year period, ending June 30, 2028. A memorandum of understanding has been prepared and signed by the AFSCME President.

There are 3 additional changes to the CBA:

1) Replacing the insurance premium distribution table to reflect the current table,
2) Changing the references of NMSU HRS – ELR to NMSU HRS – OPR, and
3) Changing the references of NMSU Chancellor to NMSU President.

References:

See attached document.

Prior Approvals:
N/A

Agenda Item Approved By:

Each office may determine required signatures (if any). All items should be routed through the President's Office, University General Counsel, or the Secretary of NMDA as appropriate.

Lisa Henderson

Lisa Henderson, Chief General Counsel

9-3-25

Date

Memorandum of Understanding
Between
New Mexico State University
And
AFSCME Local 2393

WHEREAS, AFSCME Local 2393 NMSU (Union) and the Regents of New Mexico State University (NMSU) entered into an Agreement (Agreement) commencing August 25, 2022 through and including June 30, 2025; and

WHEREAS, the Union and NMSU wish to modify and extend the Agreement as set forth in this Memorandum of Understanding; and

WHEREAS, the Union and NMSU acknowledge that this Memorandum of Understanding will become effective only upon ratification by the Regents of New Mexico State University.

NOW, THEREFORE, the Union and NMSU agree to the following:

1. That Article 7 (Duration), Section 1 (Term of Agreement) of the Agreement is modified to extendthe term for an additional three years through June 30, 2028. All benefits and rights under the Agreement will continue through June 30, 2028. The provisions and deadlines set forth in Article 7 (Duration), Section 2 (Renewal) will be calculated from the new expiration date of June 30, 2028.
2. That Article 20 – (Insurance Benefits), Section 1 (Insurance Plans), C. (NMSU contributions), distribution table be replaced by the current table below, which became effective effective July 1, 2025:

Annual Salary	NMSU %	Employee %
<57,200	82	18
$57,200 - $83,200	70	30
>$83,200	60	40

3. All references to "NMSU HRS-ELR" will change to "NMSU HRS-OPR".
4. All references to the NMSU Chancellor will change to the NMSU President.

In evidence of their agreement to the above terms of this Memorandum of Understanding, the parties have set their signatures below.

AFSCME Local 2393

Yvonne Mendoza

President, Yvonne Mendoza

Date: 8/22/2025

Regents of New Mexico State University

President, Valerio Ferme

Date:

This Memorandum of Understanding was ratified by the Regents of New Mexico State University in open meeting on September 15, 2025.

Date

Chair, Ammu Devasthali
Regents of New Mexico State University

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # F-15

☐ Action Item
☒ Consent Item
☐ Informational Item

Presented By: Lisa Henderson

Lisa Henderson, J.D.
General Counsel

Agenda Item:

Declining the request for NMSU to donate acreage located in Las Cruces on the east campus to the New Mexico Farm and Ranch Heritage Museum (the Museum)

Requested Action of the Board of Regents:

Decline the request for donation of 47 acres on the east campus to the Museum

Executive Summary:

In a letter dated April 15, 2025, the Chair of the Board of the Museum requested NMSU to transfer title to approximately 47 acres of NMSU land on which the Museum is situated on the east campus. This acreage is ground leased for purposes of the Museum pursuant to Section 18-11-4(B) NMSA 1978.

References:

Farm and Ranch Request.pdf

Prior Approvals:

On June 12, 2025, the Regents Real Estate Committee voted to recommend that the Regents of New Mexico State University decline the donation request.

Agenda Item Approved By:

University General Counsel

Lisa Henderson
Lisa Henderson
University General Counsel

9-5-25
Date

Docusign Envelope ID: 67216303-E3D4-4E64-830E-60571BF125AD

DEPARTMENT OF CULTURAL AFFAIRS
STATE OF NEW MEXICO

MICHELLE LUJAN GRISHAM
GOVERNOR

DEBRA GARCIA Y GRIEGO
CABINET SECRETARY

April 15, 2025

Regents of New Mexico State University
Hadley Hall
2850 N. Weddell Drive
Las Cruces, NM 88003

Re: **New Mexico Farm & Ranch Heritage Museum**
4100 Dripping Springs Rd, Las Cruces, NM

Dear Chair Devasthali and Regents:

I am writing on behalf of the Board of the New Mexico Farm & Ranch Heritage Museum to respectfully request that the Regents transfer ownership of the land on which the Museum is located to the Board.

The Museum is located in Las Cruces and is one of sixteen state museums and historic sites operated by the New Mexico Department of Cultural Affairs (DCA) per state statute. The Museum was constructed over twenty years ago on approximately 47 acres of land that is leased by the Board from NMSU. This leased land is a portion of a much larger parcel of land (726.30 acres) that was granted to NMSU in 1991 at no cost via a US government land patent.

The Museum is one of the most popular and heavily visited museums in the state's system. The Museum hosts over 30,000 visitors and users annually and has been successfully operated by DCA and overseen by the Board for over two decades. The existing lease provides that should NMSU ever take back the Museum land, the University is required to pay the Museum the fair market value of all buildings on the property. Since this scenario is highly unlikely, the Board feels it would be beneficial to both the University and the Museum to transfer title to the land.

Per §18-11-7 NMSA 1978, the Board is the state entity designated to hold title to Museum property and to acquire real property for Museum use. There is recent precedence for such land transfer. In 2021, the Regents transferred the land on which the New Mexico Museum of Space History is located in Alamogordo to the DCA. Following that transfer, the Farm & Ranch Heritage Museum became the only state museum or historic site that is not situated on Board-owned land as required by statute.

Docusign Envelope ID: 67216303-E3D4-4E64-830E-60571BF125AD

The US patent conditions for the subject property state that "*[t]he land shall be used for the purposes of promoting directly or indirectly educational, scientific, and research activities...*". Clearly, the Museum's educational and research activities comply with this patent condition. However, should the Regents transfer the land to the Board, a deed for the land should, similar to the recent Museum of Space History deed, contain a reversionary clause returning ownership to NMSU if the educational and research activities at the Museum cease. A draft deed containing this reversionary clause is provided for your review.

Thank you for your kind consideration of this request. Feel free to contact me through DCA Cabinet Secretary Debra Garcia y Griego at *debra.garciagriego@dca.nm.gov* if you have any questions.

Respectfully,

Signed by:
Bob Mayberry
FE871A212C9C4A2...
Bob Mayberry
Board Chair

enc: Draft Quit Claim Deed
cc: Debra Garcia y Griego, DCA Cabinet Secretary
Matthew O'Reilly, P.E., DCA Director of Real Estate
Steve Loring, Interim Director – NM Farm & Ranch Heritage Museum
Scott Eschenbrenner

Docusign Envelope ID: 67216303-E3D4-4E64-830E-60571BF125AD

QUITCLAIM DEED

STATE OF NEW MEXICO)
) ss
COUNTY OF DOÑA ANA)

KNOW ALL PERSONS BY THESE PRESENTS:

The **REGENTS OF NEW MEXICO STATE UNIVERSITY** (Grantor) does hereby RELEASE AND FOREVER QUITCLAIM unto the **BOARD OF THE FARM AND RANCH HERITAGE MUSEUM** (Grantee), whose address is **c/o New Mexico Department of Cultural Affairs, 407 Galisteo St., Bataan Memorial Bldg., Suite 260, Santa Fe, New Mexico 87501**, all of Grantor's right, title, interest and claim to that certain parcel of land, including all improvements, situated in Doña Ana County, New Mexico and more particularly described as follows:

A tract of land lying and being situate in the City of Las Cruces, Doña Ana County, New Mexico, being Lot 5 and part of Lot 6 of Section 22, T.23S., R.2E., N.M.P.M. of the U.S.G.L.O. Surveys, and more particularly described as follows, to wit:

BEGINNING at an iron rod set on the North Section line of Section 22, T.23S., R.2E., N.M.P.M. of the U.S.G.L.O. Surveys for the Northeast corner of the tract herein described; whence a concrete monument found marking the Section comer common to Sections 14, 15, 22 and 23, T .23S., R.2E.; also being the Northeast comer of Lot 5 of said Section 22, T .23S., R.2E. bears N.89°58'30"E., a distance of 100.00 feet;

THENCE from the point of beginning, leaving the North Section line of Section 22, S.00°01'00"E., 1,529.21 feet to an iron rod set on the North line of Dripping Springs Road for the Southeast comer of this tract;

THENCE along the North line of Dripping Springs Road, the following seven courses and distances: S.59 °01 '38"W., 92.25 feet to an iron rod set;

THENCE S.59°00'42"W., 98.07 feet to an iron rod set;

THENCE S.61°34'48"W., 99.15 feet to an iron rod set;

THENCE S.66°36'00"W., 96.42 feet to an iron rod set;

THENCE S.71 °39'31"W., 96.25 feet to an iron rod set;

THENCE S.77°16'33"W., 93.59 feet to an iron rod set;

THENCE S.83°28'25"W., 15.68 feet to an iron rod set for the Southwest comer of this tract;

THENCE N.36°40'40"W., 4.15 feet to an iron rod set;

THENCE along the Doña Ana Colony Grant Line the following four courses and distances: N.36°45'45"W., 172.91 feet to an iron pipe found;

THENCE N.36°32'32"W., 1,243.15 feet to an iron rod found;

THENCE N.37°07'10"W., 351.24 feet to an iron rod found; identical to the Southeast corner of Telshor Hills Subdivision Unit 6;

THENCE N.36°28'36"W., 427.61 feet to an iron rod set on the North line of Section 22, T.23S., R.2E., for the Northwest corner of this tract and the Northwest corner of said Lot 5;

Docusign Envelope ID: 67216303-E3D4-4E64-830E-60571BF125AD

THENCE along the North line of Section 22, N.89°58'30"E., 1,848.98 feet to the point of beginning, containing 47.1505 acres of land, more or less, as shown on a Plat of Survey entitled "PLAT OF SURVEY ON A 47.1505 ACRE TRACT BEING PART OF LOT 5 & PART OF LOT 6 OF SECTION 22, T.23S., R.2E., N.M.P.M. OF THE U.S.G.L.O. SURVEYS, EAST OF LAS CRUCES, DOÑA ANA COUNTY, NEW MEXICO" dated 11/29/94, prepared by Jorge Moy, NMPLS# 5939 (the "Real Property").

To have and to hold all of Grantor's right, title and interest in and to the above-described Real Property to Grantee, Grantee's administrators, executors, successors, and assigns forever; so that neither Grantor nor Grantor's administrators, executors, successors, and assigns will have, claim or demand any right or title to the Real Property or any part thereof. The Real Property remains subject to a reversionary interest of the US Bureau of Land Management should the Real Property cease to be used for an educational purpose.

EXECUTED as of the _____ day of _____, 2025.

By: _____

STATE OF NEW MEXICO)
) ss
COUNTY OF DOÑA ANA)

This Quitclaim Deed as acknowledged before me this _____ day of _____, 2025, by _____, Grantor.

_____
Notary Public in and for
The State of New Mexico

My Commission Expires:

_____

After Recording Return to:
NM Department of Cultural Affairs, 407 Galisteo St., Bataan Memorial Bldg., Suite 260, Santa Fe, New Mexico 87501, Attn: Director of Real Estate

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # G-1

☒ Action Item

☐ Consent Item

☐ Informational Item

Presented By:

Richie Roberts, Ph.D.
Department Head, Agricultural and Extension Education

Agenda Item:

Human Dimensions of Agriculture (Education, Extension, Communication, & Innovation) – Doctor of Philosophy

Requested Action of the Board of Regents:

Approval of the Human Dimensions of Agriculture (Education, Extension, Communication, & Innovation) – Doctor of Philosophy program proposal as presented.

Executive Summary:

The Human Dimensions of Agriculture are the social sciences found in the discipline of agriculture which consist of education, extension, communications, and innovation. The list of social sciences could incorporate agricultural business, human relations, youth development, agricultural leadership, agricultural organization administration, and agricultural service occupations to name a few. Human Dimensions of Agriculture encompasses all aspects of agriculture involving person to person interaction.

NMSU has had historical interest in providing advanced graduate training in the agricultural sciences in the STEM disciplines. Momentum behind the current proposal coincided with NMSU LEADS 2025 strategic plan development. LEADS 2025 identifies PhD degrees and research expenditures in Humanities and Social Sciences as playing key roles in elevating the status of the institution and thereby the opportunities for its graduates.

The proposed Doctor of Philosophy in Human Dimensions of Agriculture is administered by the Department of Agricultural and Extension Education (AXED). It has options of a concentration in education, extension, communications, innovation or other approved social science discipline in agriculture. All options would require the same basic core research courses to develop the program with adequate rigor and the same dissertation format. The Doctor of Philosophy Degree (Ph.D.) degree is a research-oriented degree. The program of study developed by the candidate and their committee chair builds on the previous undergraduate and graduate courses completed by the candidate.

The program objectives of the PhD in the Human Dimensions of Agriculture (HDA) are aligned with preparing students for mid-career advancement and senior level program and project administration in State Departments of Agriculture, the Cooperative Extension Service, the

United States Department of Agriculture or any other agricultural agency dealing with public policy and agriculture. The Ph.D. program is designed to attract students from underrepresented minorities.

References:

See attached presentation, proposal, and supplemental materials.

Prior Approvals:

The Human Dimensions of Agriculture (Education, Extension, Communication, & Innovation) – Doctor of Philosophy proposal was previously presented to and approved by the Board of Regents on May 29, 2024. New Mexico Higher Education returned the proposal for edits/changes. The proposal has achieved prior approvals (PIM approval path) including:
Student Records (Gabrielle Martinez) – 4-16-2025
ACES Dean (Don Conner) – 4-16-2025
Graduate Dean (Ranjit Koodali) – 4-16-2025
UPAC (Joe Lakey) – 4-24-2025
Provost (James McAteer) – 4-25-2025
President (Marissa Yniguez) – 5-14-2025

BE BOLD. Shape the Future.
New Mexico State University
aces.nmsu.edu

Department of Agricultural & Extension Education (AXED)

Proposal for a Ph.D. in the Human Dimensions of Agriculture

Drs. Richie Roberts, William Norris, Kristopher Rankin, Madison Dyment, LaJoy Spears, Barbara Chamberlain, Bobby Torres, Rolando Flores Galarza

Changes to the Proposal

- Much of the language in the proposal was updated to take a data-driven approach that demonstrates the **impact** that this program could have on the state of **New Mexico** and the broader region
- Changed the program's **CIP Code** from Agricultural Education (13.1301 – 13.1301) to Agricultural and Extension Education (01.0801)
- Resolved contradictions for **required course credits**
- Added new text to demonstrate the **required research** for Ph.D. students in this program. We also provided **examples of research topics** that students would likely pursue through their dissertation research
- We clarified that this program would have **two distinct pathways**: (1) full-time students, and (2) online professional students
- We adopted a **hybrid online format** for this Ph.D. program rather than a 100% online program

What are the Human Dimensions of Agriculture (HDA)?

- Incorporates agricultural education, communications, Extension, leadership, government research, with the focus on **social sciences**
- HDA is a **hybrid online program** that encompasses all aspects of agriculture involving person-to-person interaction
- Will be **research-intensive**
- Focus on serving **New Mexico residents**
- Two types of students: (1) **full time**, and (2) **online professionals**



Career Outlook for PhDs in HDA (NAAE, 2022)

- Academic careers
- Research for government and regulatory agencies
- Cooperative Extension Service
- Nonprofit organizations
- Industry and private sector
- Research consulting
- Research institutions
- International agricultural development

Potential Income for Graduates

- Competitive with other social science degrees
- The median starting salary for professionals with a PhD working in the HDA is **$82,000**

No Comparable Programs at Cost

- No comparable program in NM
- Comparable programs at institutions are substantially more expensive in Western U.S.

Institution	Cost Per Credit Hour	Difference to NMSU
NMSU (Resident)	$348.76	N/A
NMSU (Global)	$444.40	N/A
Texas Tech University	$800.00	+$451.24/+355.60
Oregon State University	$893.00	+$544.24/+448.60



Importance to New Mexico

- **21 New Mexico residents** currently on the waitlist for the HDA Ph.D. once approved
- **Four potential students** who work on **Native American reservations** in New Mexico
- **Sustainable and value-added agriculture** is one of the nine targeted industries the state has identified as a potential growth opportunity
- **Stakeholders in NM** have strongly expressed the need for this program
- Each student's **dissertation research** will support solutions to agricultural issues in New Mexico and beyond
- **Strong collaboration with ACES departments** of AEAB, FCS, the School of HRTM, and the School of Teacher Preparation, Administration, and Leadership in the College of HEST
- **Faculty recruitment** and **retention** competitive with other R1 institutions
- **Oregon** is the only state in the Western Interstate Commission for Higher Education (WICHE) with a PhD program, but it is **resident-only** and at **capacity**

Enrollment and Graduation Projections

Student Type	Year 1	Year 2	Year 3	Year 4	Year 5
New Full-Time Students	2	0	1	1	1
Continuing Full-Time Students	0	2	2	3	3
Graduating Full Time Students	0	0	0	2	1
New Online Professional Students	3	5	4	4	4
Continuing Online Professional Students	0	3	7	8	7
Graduating Online Professional Students	0	0	0	3	4

*New Full-Time Students based on available assistantships, three have been provided by the College of ACES and NMSU Graduate School to start the program

**Online Professional Students will be admitted on a bi-annual basis as a cohort

Projected Benefits

- Attract **New Mexico Ph.D. students**
- **Ph.D. student training opportunities** in undergraduate teaching
  - Leveraging training to increase flexibility in current faculty teaching
- Ph.D. student **grant/fellowship opportunities**
  - Increasing undergraduate training in research
- **Faculty grant opportunities**
  - Indirect cost recovery from larger grants to support Ph.D. students
- **Recruitment** and **retention** of faculty in NM
- Professionals employed by **NMSU's Cooperative Extension Service (CES)** and **Agricultural Experiment Stations (AES)** could earn doctoral degree **without having to leave the state**

Projected Costs

- **No** additional FTE faculty positions needed for the program
- **No** additional library resources needed for the program
- **No** additional facilities, equipment, and technological resources
- **Graduate assistantships** needed to support the program
- **Adjunct Professors** for release time for faculty from undergraduate teaching and graduate student research if needed
- **Research costs**

Faculty Resources



- **Faculty Resources**
  - 4 Faculty (Research/Instruction)
  - 2 Faculty (Administration/Teaching)
  - 1 Faculty (Extension/Research)

  - Strong national and international collaborations

  - **Strong Research Potential**
    - Grants Awarded 2024: **$800K/FTE**
    - Faculty with Ph.D. students
    - Quality peer reviewed publications: **5.9/FTE**

Letters of Support

- New Mexico Cooperative Extension
- New Mexico Department of Agriculture
- New Mexico Agricultural Education and FFA
- NMSU Graduate School
- NMSU Global Campus
- Dine College
- ENMU Department of Agriculture, Food Science, and Kinesiology
- National Association of Agricultural Educators
- Oregon State University
- New Mexico Agricultural Leadership Program
- NMSU College of ACES
- NMSU Science Center at Farmington



Dr. Richie Roberts



Dr. Madison Dyment



Dr. LaJoy Spears



Dr. William Norris



Dr. Kris Rankin



Dr. Barbara Chamberlin



Dr. Bobby Torres



Dr. Rolando Flores Galarza

Thank You

NM STATE

Richie Roberts
roberts3@nmsu.edu
575-646-2095

ACES Graduate Faculty to Serve on HDA PhD Committees

Hybrid Online Format



- A hybrid online program in which students engage in regular **research preparation** sessions
- Students will **travel to the NMSU campus one weekend per semester**
- Potential weekend, **face-to-face research sessions** include:
  - Doctoral committee formation
  - Dissertation topic selection
  - Research methods bootcamp
  - Data collection and analysis

Research in the Human Dimensions of Agriculture

- Enables students to conduct their studies in **real-world contexts** and **beyond the university's boundaries**
- Students can **continue to live in rural New Mexico communities** through hybrid online educational offerings
- This approach will be instrumental in addressing the **brain drain phenomenon** (Cowen et al., 2019)
- Example research topics:
  - Public attitudes regarding water conservation
  - Human use of drones to address water scarcity in New Mexico
  - Lack of access to food in rural and underserved New Mexico communities
  - Factors that persuade or deter youth from entering the agricultural industry in New Mexico

New Mexico Resident HDA Ph.D. Waiting List (*N* = 21)



Gary Aycock · 1st
Supervisor of Agricultural Education & State FFA



Brandon Francis · 2nd
Associate Research Scientist at NMSU Agricultural Science Center @ Farmington



Marshal Wilson · 2nd
Director of Biosecurity at New Mexico Department of Agriculture



Christina Wilson She/Her · 2nd
Student Program Professional



Christina Turner
Cooperative Extension Service at New Mexico State University



Russell Walter He/Him · 1st
New Mexico FFA Executive Secretary

Program of Study for PhD students with a Master's Degree = 54 Hours

Disciplinary Courses (15 Hours)

AXED 5110 Management of Change, Diffusion, and Adoption of Innovations
AXED 5150 Strategic Communications Campaigns and Evaluation
AXED 5165 History and Philosophy of AXED
AXED 5320 Risk and Crisis Communications in AXED
AXED 5170 Keys for Agricultural and Rural Development

Research and Statistics (15 Hours)

AXED 5510 Research Methods
AXED 5515 Data Collection and Analysis
EDUC 6440 Qualitative Research I
EDUC 6420 Evaluation of Quantitative Research in Education
EDUC 6230 Research in Praxis: Qualitative Research II

Graduate Electives/Research (6 Hours determined with the student's graduate committee) may include advanced statistical analysis methodologies or advanced study in quantitative and/or qualitative research methodologies. Listed courses are examples)

AXED 5996 Special Topics
ACOM 5115 Global Issues in Agricultural Communications and Marketing

Dissertation (18 Hours)

AXED 7000 Doctoral Dissertation

Program Learning Outcomes

Outcome #1: Use meaningful and relevant social science literature to better understand research questions in the Human Dimensions of Agriculture

Outcome #2: Critically evaluate the social science literature to construct arguments which further understanding of research in the Human Dimensions of Agriculture.

Outcome #3: Demonstrate capability by completing a minimum of 10 outside-of-course experiences in the various human dimensions of agriculture including, but not limited to, education, extension, communications, innovation, and research

Outcome #4: Establish competency by satisfactorily completing a comprehensive written/oral examination

Outcome #5: Validate expertise by satisfactorily finishing and defending a dissertation that demonstrates original and independent scholarship

Admission to the HDA PhD

- A **master's degree** in an appropriate field from an accredited university (54 credits for completion)
- An acceptable grade point average in undergraduate and graduate studies (a **graduate GPA of 3.00**)
- **Three years** of professional experience



Projected Income to NMSU

- Resident Students **$348.76/credit**
- Global Students **$444.40/credit**
- Non-assistantship students average **six credits/semester**
- Graduate assistantship students average **nine credits/semester**



Other Associated Costs

- **Adjunct Professors** for faculty release time from undergraduate courses
- Assistant Professors **$1,287/credit taught**
- Associate Professors **$1,829/credit taught**
- Professors **$2,175/credit taught**
- Funding provided by AXED and/or the College of ACES and/or NMSU Global Campus (3-hour adjunct taught course $3,861 to $6,525)
- **Research Costs**
- Paid through funded grants
- Currently, departmental research grant funds at **+$4 million**

Graduate Assistantships Costs to Support the Program (Per Year)

	FTE	Hours	Salary	Tuition
Annual	0.5	20	$29,116	$6,246

- The department has secured commitments from the NMSU Graduate School for **two assistantships** and the College of ACES for **one assistantship**
- Other support will come from **grants**. Two currently funded USDA NIFA grants provide graduate student funding for doctoral students
- If approved, **all future grant proposals** will include doctoral assistantship funding and associated tuition scholarship costs

982: HUMAN DIMENSIONS OF AGRICULTURE (EDUCATION, EXTENSION, COMMUNICATION, & INNOVATION) - DOCTOR OF PHILOSOPHY

In Workflow

1. Student Records Office - Programs (gdmart@nmsu.edu)
2. AG Academic Dean (rmt@nmsu.edu; lizhartm@nmsu.edu)
3. Graduate Dean (rkoodali@nmsu.edu)
4. UPAC - Chair (jlakey@nmsu.edu)
5. Provost (lnr@nmsu.edu; mcateer@nmsu.edu; cecimh@nmsu.edu)
6. President (jbannist@nmsu.edu; myniguez@nmsu.edu; ferm4363@nmsu.edu)
7. Board of Regents (cavotta@nmsu.edu)
8. Graduate School - Council of Deans (rkoodali@nmsu.edu)
9. Student Records Office - HED (gdmart@nmsu.edu)
10. Student Records Office - CIP (gdmart@nmsu.edu)
11. MA HLC (cecimh@nmsu.edu)
12. Student Records Office (gdmart@nmsu.edu)

Approval Path

1. Mon, 03 Jul 2023 15:15:00 GMT
   Gabrielle Martinez (gdmart): Approved for Student Records Office - Programs
2. Fri, 14 Jul 2023 17:42:03 GMT
   deconner: Approved for AG Academic Dean
3. Fri, 14 Jul 2023 20:50:19 GMT
   Carol Flinchbaugh (cflinch): Approved for Graduate Dean
4. Fri, 15 Sep 2023 22:20:17 GMT
   Joe Lakey (jlakey): Rollback to Initiator
5. Tue, 24 Oct 2023 15:05:23 GMT
   Gabrielle Martinez (gdmart): Approved for Student Records Office - Programs
6. Tue, 05 Dec 2023 22:18:00 GMT
   deconner: Approved for AG Academic Dean
7. Wed, 06 Dec 2023 00:35:13 GMT
   Carol Flinchbaugh (cflinch): Approved for Graduate Dean
8. Wed, 21 Feb 2024 15:08:04 GMT
   Gabrielle Martinez (gdmart): Rollback to Initiator
9. Fri, 23 Feb 2024 16:40:50 GMT
   Gabrielle Martinez (gdmart): Approved for Student Records Office - Programs
10. Tue, 27 Feb 2024 19:08:04 GMT
    deconner: Approved for AG Academic Dean
11. Tue, 27 Feb 2024 23:42:51 GMT
    Ranjit Koodali (rkoodali): Approved for Graduate Dean
12. Tue, 05 Mar 2024 17:19:03 GMT
    Joe Lakey (jlakey): Approved for UPAC - Chair
13. Wed, 27 Mar 2024 02:40:10 GMT
    James Mcateer (mcateer): Approved for Provost
14. Wed, 27 Mar 2024 19:59:54 GMT
    leslie86: Approved for President
15. Mon, 08 Jul 2024 13:51:26 GMT
    Adam Cavotta (cavotta): Approved for Board of Regents
16. Mon, 08 Jul 2024 16:27:14 GMT
    Ranjit Koodali (rkoodali): Approved for Graduate School - Council of Deans
17. Thu, 11 Jul 2024 16:12:45 GMT
    Gabrielle Martinez (gdmart): Rollback to Graduate School - Council of Deans for Student Records Office - HED
18. Tue, 17 Sep 2024 21:42:35 GMT
    Gabrielle Martinez (gdmart): Approved for Graduate School - Council of Deans
19. Thu, 02 Jan 2025 16:01:56 GMT
    Gabrielle Martinez (gdmart): Rollback to Initiator

20. Wed, 16 Apr 2025 18:00:01 GMT
    Gabrielle Martinez (gdmart): Approved for Student Records Office - Programs
21. Wed, 16 Apr 2025 19:41:28 GMT
    deconner: Approved for AG Academic Dean
22. Wed, 16 Apr 2025 23:52:43 GMT
    Ranjit Koodali (rkoodali): Approved for Graduate Dean
23. Thu, 24 Apr 2025 19:05:00 GMT
    Joe Lakey (jlakey): Approved for UPAC - Chair
24. Fri, 25 Apr 2025 15:07:33 GMT
    James Mcateer (mcateer): Approved for Provost
25. Wed, 14 May 2025 16:06:33 GMT
    Marissa Yniguez (myniguez): Approved for President

New Program Proposal

Date Submitted: Wed, 16 Apr 2025 17:49:36 GMT

Viewing: 982 : Human Dimensions of Agriculture (Education, Extension, Communication, & Innovation) - Doctor of Philosophy

Last edit: Thu, 17 Apr 2025 17:31:30 GMT

Changes proposed by: Richie Roberts (roberts3)

Submission Information

The Degree Type will factor into the level and the submissions that must occur for HED and HLC.
• Community College Types: Applied Associate Degree, Associate Degree, Certificate, Concentration
• Main/Global Campus Undergrad Types: Bachelor's Degree, Concentration, Minor
• Main/Global Campus Graduate Types: Master's Degree, Doctoral Degree, Certificate, Concentration, Minor

Degree Type

Doctoral Degree

The Degree Title dropdown has all existing degree titles in Banner, if you do not see the one you are looking for you will select "Other" then in the New Degree Title box you will type out the official title of the degree (as you would want it to appear on a students record, transcript, and/or diploma).

Degree Title

Doctor of Philosophy

Academic Level

Graduate

The Catalog Title will be what is displayed in the catalog page. The standard format is Major (Concentration) - Degree Title. (I.e., Mathematics (Secondary Education) - Bachelor of Science. Note: If there is no concentration you would just list the Major - Degree.

Catalog Title

Human Dimensions of Agriculture (Education, Extension, Communication, & Innovation) - Doctor of Philosophy

College

Agricult/Consumer/Environ Sci

Campus

Main Campus

Department

Ag Extension Education

Effective Catalog

2026-2027

If opting for a Global program, specify "Global Campus" under campus type. You must have a Program Proposal on file with Global Campus prior to submission of a new Global program. Contact Global Campus for more information.

Program Teaching Modality

Online
Traditional-Face to Face

CIP Code

010801 - Agricultural and Extension Education Services.

Normal or typical length of time for students to complete the program (in years)

4

Curriculum Information

Program Learning Outcomes

	Learning Outcomes
Outcome 1	Use meaningful and relevant research literature to better understand and research questions in the Human Dimensions of Agriculture
Outcome 2	Critically evaluate social science research to construct arguments which further understanding of research in the Human Dimensions of Agriculture
Outcome 3	Demonstrate capability by completing a minimum of five outside-of-course experiences in the various human dimensions of agriculture including, but not limited to, education, extension, communications, innovation, and research (outside of course experiences include activities that will enhance the student's career objectives such as research conferences, internships, grant writing, youth leadership conventions, college teaching, etc.
Outcome 4	Establish competency by satisfactorily completing a comprehensive written/oral examination
Outcome 5	Validate expertise by satisfactorily finishing and defending a dissertation that demonstrates original and independent scholarship

List of academic departments/units and or institutions involved in the delivery of courses

Department/Unit
Agricultural and Extension Education
Animal and Range Science
School of Teacher Preparation, Administration, and Leadership

The Course Requirements, need to be in the standard format for the catalog because this piece of the form will be imported directly onto the catalog page. See the Student Records Website for a guide. The total number of credits at the bottom of the course list will be the "official" total for the degree. Please make sure it adds up correctly.

Course Requirements

Prefix	Title	Credits
Disciplinary Courses (15 Hours)		
AXED 5110	Management of Change, Diffusion, and Adoption of Innovations	3
AXED 5150	Strategic Communications Campaigns and Evaluation	3
AXED 5165	History and Philosophy of Agricultural and Extension Education	3
AXED 5320	Risk and Crisis Communications in Agricultural, Consumer, and Environmental Sciences	3
AXED 5170	Keys for Agricultural and Rural Development	3
Research and Statistics (15 Hours)		
AXED 5510	Research Methods	3
AXED 5515	Data Collection and Analysis	3
EDUC 6440	Qualitative Research I	3
EDUC 6420	Evaluation of Quantitative Research in Education	3
EDUC 6230	Research in Praxis: Qualitative Research II	3
Graduate Electives/Research (6 Hours determined with the student's graduate committee and may include advanced statistical analysis methodologies or advanced study in quantitative and/or qualitative research methodologies. Listed courses are examples)		**6**
AXED 5996	Special Topics	3
ACOM 5115	Global Issues in Agricultural Communications and Marketing	3
Dissertation (18 Hours)		
AXED 7000	Doctoral Dissertation	18
Total Credits		**54**

The Road Map, need to be in the standard format for the catalog because this piece of the form will be imported directly onto the catalog page. See the Student Records Website for a guide. All courses and the total number of credits at the bottom of the roadmap should match the Course Requirements list.

Road Map

Full-Time, Traditional Student Roadmap

First Year		
Semester 1		**Credits**
AXED 5510	Research Methods	3
AXED 5150	Strategic Communications Campaigns and Evaluation	3
	Credits	**6**
Semester 2		
AXED 5515	Data Collection and Analysis	3
EDUC 6440	Qualitative Research I	3
	Credits	**6**
Semester 3		
AXED 5320	Risk and Crisis Communications in Agricultural, Consumer, and Environmental Sciences	3
EDUC 6420	Evaluation of Quantitative Research in Education	3
	Credits	**6**
Second Year		
Semester 1		
AXED 5996	Special Topics	3
AXED 5165	History and Philosophy of Agricultural and Extension Education	3
	Credits	**6**
Semester 2		
EDUC 6230	Research in Praxis: Qualitative Research II	3
ACOM 5115	Global Issues in Agricultural Communications and Marketing	3
	Credits	**6**
Semester 3		
AXED 5170	Keys for Agricultural and Rural Development	3
AXED 5110	Management of Change, Diffusion, and Adoption of Innovations	3
	Credits	**6**
Third Year		
Semester 1		
ANSC 700	Doctoral Dissertation	6
	Credits	**6**
Semester 2		
ANSC 700	Doctoral Dissertation	6
	Credits	**6**
Semester 3		
ANSC 700	Doctoral Dissertation	6
	Credits	**6**
	Total Credits	**54**

Part-Time, Online Professional Students Roadmap

First Year		
Semester 1		**Credits**
AXED 5510	Research Methods	3
AXED 5150	Strategic Communications Campaigns and Evaluation	3
	Credits	**6**
Semester 2		
AXED 5515	Data Collection and Analysis	3
EDUC 6440	Qualitative Research I	3
	Credits	**6**
Semester 3		
EDUC 6420	Evaluation of Quantitative Research in Education	3
AXED 5320	Risk and Crisis Communications in Agricultural, Consumer, and Environmental Sciences	3
	Credits	**6**

Second Year		
Semester 1		
AXED 5996	Special Topics	3
AXED 5165	History and Philosophy of Agricultural and Extension Education	3
	Credits	**6**
Semester 2		
ACOM 5115	Global Issues in Agricultural Communications and Marketing	3
EDUC 6230	Research in Praxis: Qualitative Research II	3
	Credits	**6**
Semester 3		
AXED 5170	Keys for Agricultural and Rural Development	3
AXED 5110	Management of Change, Diffusion, and Adoption of Innovations	3
	Credits	**6**
Third Year		
Semester 1		
ANSC 700	Doctoral Dissertation	3
	Credits	**3**
Semester 2		
ANSC 700	Doctoral Dissertation	3
	Credits	**3**
Semester 3		
ANSC 700	Doctoral Dissertation	3
	Credits	**3**
Fourth Year		
Semester 1		
ANSC 700	Doctoral Dissertation	3
	Credits	**3**
Semester 2		
ANSC 700	Doctoral Dissertation	3
	Credits	**3**
Semester 3		
ANSC 700	Doctoral Dissertation	3
	Credits	**3**
	Total Credits	**54**

The admission requirements are needed if the program has a specialized admission process that exceeds the campus requirements for either the Undergraduate or Graduate admission standards.
• For graduate programs, the Graduate School asks for the following information (Provide a summary of the documents and specific information each student will need to provide to be considered for the program): Description, Statement of Purpose/Letter of Interest; Specialty Letter of Interest; Resume; Writing Sample; GRE; GMAT; Special Questions (if yes, what questions need to be answered); Letters of Recommendation (how many are required); NMSU Faculty Representative (if yes, how many); Foreign Language; WES Evaluation; Special License or Verifications (what license/verification)

Admission Requirements

- A master's degree in an appropriate field from an accredited university.
- An acceptable grade point average in undergraduate and graduate studies (a graduate GPA of at least 3.0 for enrollment in a Doctoral Program).
- Professional experience within the discipline to be studied such as a focus on extension, education, or communication is desirable.
- Three letters of recommendation from academic or professional sources.
- Letter of intent describing the applicant’s goals for academic and professional development.

Does this program lead to licensure, yes or no?

No

Is credit for prior learning built into the program, if yes explain?

This degree program requires a minimum of 36 credits of graduate coursework along with the development of a dissertation (18 credits) beyond a master's degree for a total of 54 credits post-master's degree.

Faculty Members Employed to Teach in the Program

Existing Personnel

Richie Roberts, Ph.D.

FTE

1

Course load and courses they will teach in the proposed program

AXED 5110, Management of Change, Diffusion, and Adoption of Innovations
AXED 5996 Special Topics
AXED 7000 Doctoral Dissertation

Courses taught in other programs currently offered

AXED 1110, AXED 4230, AXED 4710, AXED 5165, AXED 5110

Description of academic qualifications

Doctor of Philosophy, Agricultural Education, 2017, Oklahoma State University
Dissertation: Agricultural Teacher Educators' Beliefs and Intentions Regarding Service-Learning

Master of Science, Agricultural Education, 2014, Oklahoma State University
Thesis: The Impact of Participation in the National FFA Days of Service on Students' Motivations, Value, and Decision to Participate in Service-Learning

Bachelor of Science Degree, Agricultural Education, 2009, Oklahoma State University

Prior instructional responsibility and other experiences relevant to assigned courses

Jan 2025 to present Department Head and Professor
Department of Agricultural and Extension Education
College of Agriculture, Consumer, and Environmental Sciences
New Mexico State University, Las Cruces, NM

August 2022-2024 Associate Professor
College of Agricultural Sciences and Natural Resources
Louisiana State University, Baton Rouge, LA

2018-2022 Assistant Professor, Agricultural Education
Department of Agricultural Education & Communications
Louisiana State University, Baton Rouge, LA

2017-2018 Assistant Professor, Agricultural Education
Department of Agribusiness, Applied Economics, and Agriscience Education
North Carolina A&T State University, Greensboro, NC

For graduate programs, document scholarship and research capability

65 refereed journal articles
152 refereed papers and posters in conference proceedings

Englin, J., Roberts, R., Stair, K. S., & Burnett, M. F. (2025). Emerging trends for middle school agricultural education in the United States: A scoping review. Journal of Agricultural Education, 66(1), Article 6. https://doi.org/10.5032/jae.v66i1.2783

Englin, J., Roberts, R., Stair, K. S., & Burnett, M. F. (2025). Self-regulated learning in middle school agricultural education: Teachers' perspectives on facilitating quality student learning for supervised agricultural experiences. Journal of Agricultural Education, 66(1), Article 15. https://doi.org/10.5032/jae.v66i1.2782

Figland Cook, W. L., Blackburn, J. B., Roberts, R., & Burnett, M. F. (2025).
Investigating the effects of cognitive style on course motivation for students enrolled in a team-based learning formatted introductory agricultural mechanics course at Louisiana State University. Journal of Agricultural Education, 66(1), Article 9. https://doi.org/10.5032/jae.v66i1.2784

Figland Cook, W. L., Englin, J., Roberts, R., & Stair, K. S. (2025). Toward globally competent teaching: A one-year retrospect on agriscience teachers' changes in perspective after an international experience. Journal of Agricultural Education, 66(1), Article 14. https://doi.org/10.5032/jae.v66i1.2780

Ramage, R., Roberts, R., Stair, K. S., & Blackburn, J. J. (2025). Secondary agricultural education instructors' perceived importance and ability when accommodating students with special needs. Journal of Agricultural Education, 66(1), Article 10. https://doi.org/10.5032/jae.v66i1.133

Spillman-Decell, A., Roberts, R., Stair, K. S., Burnett, M. F. (2025). Sucessful programming for the recruitment of underrepresented student populations in agriculture: A case study of a diversity initiative at an 1862 land-grant university. Journal of Agricultural Education, 66(1), Article 5. https://doi.org/10.5032/jae.v66i1.2785

Funded Grants and Contracts $28,640,606.00
New Mexico State University

Roberts, R. & Rankin, K. (2021-2026) Young Agri-Scientists: Connecting diverse students to each other and FANH careers through experiential learning in mentored research and science communication. USDA NIFA Hispanic-Serving Institutions –Funded $975,314.00.

Douthat., T., Xue, G. Z., Kameshwar, S., Penn, J., Mukhopadhyay, J., Capra Ribeiro, F., Harmon, B., Roberts, R., Pace, N., Diagle, M. T., Fannin, J., Blakeman, H., Lam, N., Smiley, K., Birch, T., Fortenberry, B., Stair, K.S., Franks, M. (2024). Advancing precision agriculture to address risk and resilience: The Louisiana Social, Environmental, and Economic Resilience (LA-SEER) Center, Louisiana State University's Provost Fund for Innovation in Research – Big Idea Grant Program, $250,000.00.

DiBenedetto, C., Ferand, N., McKim, A., Myers, B. E., Roberts, R., & Diaz, J. (2023). Immersive professional development experiences for agriscience teachers to explore the floriculture industry. National Institute for Food and Agriculture (NIFA), Agricultural and Food Research Initiative (AFRI) Education and Workforce Development Grant Program, $497,707.00

For doctoral programs, document faculty experience in directing student research

Thesis Committees/Chaired: 21
Dissertation Committees: 36
Dissertation Committees Chaired: 24

Existing Personnel

Kristopher Rankin, Ph.D.

FTE

1

Course load and courses they will teach in the proposed program

AXED 5510 Research Methods
AXED 5515 Data Collection and Analysis
AXED 7000 Doctoral Dissertation

Courses taught in other programs currently offered

AXED 105, AXED 331

Description of academic qualifications

Doctor of Philosophy, Agricultural Education, Oklahoma State University – Stillwater, OK, May 2024

Master of Science, Agricultural Education, Oklahoma State University – Stillwater, OK, May 2021

Bachelor of Science, Agricultural Education, University of Missouri – Columbia, MO , May 2015

Prior instructional responsibility and other experiences relevant to assigned courses

Assistant Professor, New Mexico State University, 07/01/2024 – present (9 month: 75% Teaching / 25% Research)

For graduate programs, document scholarship and research capability

Journal Articles (Career; N = 5 published) (n = 1, In Press) (n = 2, In Review)

Rankin III, K. R. L., Eck, C. J., Coleman, B. M., Marsh, K. N., Smith, N. A. (in press). The needs of Oklahoma school-based agricultural education teachers related to teaching agriculture, food and natural resources topics. Advancements in Agricultural Development, 6(1), 82-95. https://doi.org/10.37433/aad.v6i1.523

Eck, C. J., Rankin III, K. R. L., Marsh, K. N., Sewell, E.A., Best, R., Coleman, B. M., Robinson, J. S. (2024). The impact of a weeklong STEM immersion curriculum experience in school-based agricultural education. Journal of Agricultural Education, 65(4), 112-126. https://doi.org/10.5032/jae.v65i4.2766

Rankin III, K. R. L. & Edwards, M. C. (2024). A historical review of course requirements in agricultural mechanics for agricultural education, Teacher education undergraduates at nine 1862 land-grant universities. Journal of Research in Technical Careers, 8(2), 69-86. https://doi.org/10.9741/2578-2118.1136

Eck, C. J., Rankin III, K., & Robinson, J. S. (2023). Purposeful STEM integration in school-based agricultural education programs. Journal of Research in Technical Careers, 7(2), 57–74. https://digitalscholarship.unlv.edu/jrtc/vol7/iss2/

Marsh, K. N., Rankin III, K. R. L., Eck, C. J., & Smith, N. A. (2023). Determining the needs of school-based agricultural education teachers in Oklahoma. Journal of Southern Agricultural Education Research, 73. http://jsaer.org/2023/09/12/determining-the-needs-of-school-based-agricultural-education-teachers-in-oklahoma/

Grants Received:

Roberts, R. & Rankin, K. (2025-2026) Young Agri-Scientists: Connecting diverse students to each other and FANH careers through experiential learning in mentored research and science communication. USDA NIFA Hispanic-Serving Institutions –Funded $975,314.00.

Rankin III, K. R. L. (2021). Funding for new OHV small gas engines for the teaching of related curriculum in teacher preparation courses. Briggs & Stratton, $11,987.92

For doctoral programs, document faculty experience in directing student research

· Thesis Chaired: 1
· Thesis Committee: 3

Existing Personnel

Shannon Norris-Parrish, PhD

FTE

1

Course load and courses they will teach in the proposed program

AXED 5150 Strategic Communications Campaigns and Evaluation
ACOM 5115 Global Issues in Agricultural Communications and Marketing
AXED 7000 Doctoral Dissertation

Courses taught in other programs currently offered

ACOM 1130, ACOM 3115, ACOM 4115, ACOM 5115, AXED 5150

Description of academic qualifications

Ph.D. 2020
Texas A&M University, Agricultural Leadership, Education, and Communications
Certificates: Advanced Research Methodology; Homeland Security
Dissertation: “Enabling the enablers: Developing USASOC curricular and training support for agricultural assessment in conflict zones”

M.S. 2015
Oklahoma State University, Agricultural Communications
Thesis: “Mentorship and servant leadership: Perceptions of first-year college students”

B.S. 2013
New Mexico State University, Agricultural and Extension Education
Minor: Animal Science

Prior instructional responsibility and other experiences relevant to assigned courses

Assistant Professor August 2020–Present
New Mexico State University, Department of Agricultural and Extension Education, Las Cruces, NM
Duties:
• Design, develop, and deliver agricultural communications courses, focused in writing, for undergraduate and graduate students.
• Advise graduate students in focus areas of agricultural communications, education, and extension, as well as youth development and food security.
• Research effective communication modalities for science communication.

• Collaborate with community leaders and stakeholders to develop alumni and supporter relations to the department and collegeGraduate Research/Teaching Assistant August 2017–

August 2020 Texas A&M University, College of Agriculture and Life Sciences, College Station, TX

For graduate programs, document scholarship and research capability

Summary of Publications and Scholarly Work:
Refereed Journal Articles 5
Scientific Abstracts in Refereed Journals 19
Scientific/Technical Reports 6
International Refereed Conference
Proceedings/ Presentations 9
National Refereed Conference
Proceedings/Presentations 6
Regional Refereed Conference
Proceedings/Presentations 15
Peer-Reviewed Poster Presentations 33

Murphrey, T. P., Richburg, A. W., Leggette, H. R., Norris-Parish, S. L., & Parrella, J. A. (Submitted). Ready, set, communicate: Measuring usability of instructional modules designed to improve communications skills of students studying ajacgricultural sciences. Journal of Applied Communications, 107(2), 1–28. https://doi.org/10.4148/1051-0834.2478

Baker, C., Parrella, J., Norris, S. L., Leggette, H. R., & Walther, D. (2021). Learning to improvise, not criticize: Using improvisation techniques to enhance students' ability to engage in civil discourse about science. Communication Teacher. https://doi.org/10.1080/17404622.2021.1988668

Norris, S. L., Leggette, H. R., Murphrey, T. P., Richburg, A., & Bush, M.** (2020). Science communication: Context-specific reusable learning modules for strengthening students' communications skills. NACTA Journal, Teaching Tip.
https://www.nactateachers.org/images/TeachingTips/TT_2020-0248.pdf
Note: Awarded the 2021 NACTA Bob Gough Teaching Tip Award.

11 Total Funded Grants $41,744,960

Mast, N. L., et al. (PD), Löest, C., & Norris-Parish, S. L. (2023–2028). LEADING Hispanics to federal agency employment (LEADING: Leading and Enhancing Agricultural Development In the Next Generation). USDA-NIFA, NEXTGEN Program (USDA-NIFA-ARPAED-009362). Funded $20,000,000.00.
Role: Co-principal investigator leading educational component of the project.

Lamba, J., Ghimire, R., Zhang, J., & Norris-Parish, S. L. (2023–2027). Developing effective adaptation strategies to enhance the resilience of farmers under changing climate. National Science Foundation (NSF 22-633). Funded $10,000,000.00.
Role: Key personnel leading educational component of the project.

Robinson, C., Norris, S. L., Brewer, C., & Hustedde, R. (2022). Appreciative inquiry and community capital summit: Creating a shared vision of a resilient food system.
USDA-NIFA, Agriculture and Food Research Initiative Competitive Grants Program, Conference Grant. Funded $50,000.00.
Role: Co-principal investigator. Coordinate involvement with agricultural stakeholders.

For doctoral programs, document faculty experience in directing student research

• Thesis:
o Chair: 7 students
o Committee Member: 8 students
• Non-Thesis – Creative Component:
o Chair: 9 students
o Committee Member: 5 students
• TOTAL:
o Chair: 16 students
o Committee Member: 13 students

Existing Personnel

John William Norris, PhD

FTE

1

Course load and courses they will teach in the proposed program

AXED 5165 History and Philosophy of Agricultural and Extension Education
AXED 5170 Keys for Agricultural and Rural Development
AXED 7000 Doctoral Dissertation

Courses taught in other programs currently offered

AXED 2110, AXED 4215/5215, AXED 5155, AXED 5165, AXED 5170

Description of academic qualifications

Auburn University; Auburn, AL | Graduate Certificate: Educational Leadership; 2021
GPA: 4.00

Mississippi State University; Starkville, MS | Doctor of Philosophy (Ph.D.); Agricultural Science; 2021
GPA: 3.78; Program Concentration: Agricultural and Extension Education
Dissertation Topic: Perceptions of Career and Technical Education Administrators on STEM and Employability Skills Integration into School-Based Agricultural Education.

Auburn University; Auburn, AL | Education Specialist (Ed.S.): Adult Education; 2018
GPA: 3.67

Auburn University; Auburn, AL | Master of Education (M.Ed.): Agriscience Education; 2017
GPA: 4.00

Auburn University; Auburn, AL | Bachelor of Science (B.S.): Agriscience Education; 2016
GPA: 3.80; Summa Cum Laude; Dean's List – Spring 2015; Summer 2015; Summer 2016

Central Alabama Community College; Alexander City, AL | Associate in Science (A.S.); 2016
GPA: 3.37; Academic Scholar; Dean's List – Spring 2014

Prior instructional responsibility and other experiences relevant to assigned courses

New Mexico State University- Assistant Professor; Las Cruces, NM | 2022 – Present
Appointment: 75% Teaching, 12.5% Research, 12.5% Extension

Wetumpka High School- Agriscience Instructor; Wetumpka, AL | 2018 - 2022

For graduate programs, document scholarship and research capability

12 Peer-Referred Journal Articles
Norris, W., Hanagriff, R., Edgar, D., & Swortzel, K. (2025). Professional rededication to SAE: Describing SAE implementation in the United States. Journal of Agricultural Education, 66(1), Article 7. https://doi.org/10.5032/jae.v66i1.2895

Norris, W., Norris-Parish, S., & Greene-Lippard, P. (2025). Rising above the suffering: Assessing agricultural educators with traumatic situations involvement in supporting students with adverse childhood experiences. Journal of Agricultural Education, 66(1), Article 47. https://doi.org/10.5032/jae.v66i1.2930

Norris, W., Spears, L., & Fraze, S. (2025). Agricultural education for all: Importance and ability of agricultural educators to integrate special education competencies into professional practice. Journal of Agricultural Education, 66(1), Article 31. https://doi.org/10.5032/jae.v66i1.2835

3 Funded Grants at New Mexico State University (Total Funding: $1,490,000).

PI, (2024). Agricultural Science Teacher Industry-Aligned Education and Development (AGRI-TED). ($490,000). (Funded).

Co-PI, (2024). New Beginnings for Navajo Nation Students, for $500,000. (Funded).

Co-PI, (2024). ADPROS: Animal Disease Preparedness and Response Training for Law Enforcement Officers and Emergency Stakeholders, $500,000.

For doctoral programs, document faculty experience in directing student research

1 Dissertation Committee

23 Thesis Committee Chair
14 Non-Thesis Committees

Existing Personnel

Robert Torres Jr., Ph.D.

FTE

.25

Course load and courses they will teach in the proposed program

AXED 7000 Doctoral Dissertation

Courses taught in other programs currently offered

Associate Dean and Director of Academic Programs

Description of academic qualifications

"Doctor of Philosophy - The Ohio State University, Columbus, 1993 Major: Agricultural Education
Minor: Teacher Education and Research & Statistics
Dissertation: The Cognitive Ability and Learning Style of Students Enrolled in the College of Agriculture at The Ohio State University
Master of Science - New Mexico State University, Las Cruces, 1987 Major: Agricultural and Extension Education
Areas of Study: Agricultural Economics
Bachelor of Science - New Mexico State University, Las Cruces, 1986 Major: Agricultural and Extension Education"

Prior instructional responsibility and other experiences relevant to assigned courses

Professor and Associate Dean and Director of Academic Program, New Mexico State University, June 2025-present

Professor & Neely Family Endowed Professor for Excellence in Agriculture and Life Sciences, Department of Agricultural Education, Technology & Innovation (AETI), College of Agriculture, Life and Environmental Sciences (CALES), University of Arizona (UA), Tucson, July 2023 – Present.

Professor and Director of Graduate Studies, Department of Agricultural Education, College of Agriculture, Food and Natural Resources, University of Missouri-Columbia, July 2007 - June 2010. Appointment: 50% Instruction; 25% Research; 25% Service.

Associate Professor and Director of Undergraduate Studies, Department of Agricultural Education, College of Agriculture, Food and Natural Resources, University of Missouri-Columbia, 2002- 2007.

Associate Professor, New Mexico State University, Las Cruces
Department of Agricultural and Extension Education, July 1999 to June 2002.

Assistant Professor, New Mexico State University, Las Cruces
Department of Agricultural and Extension Education, July 1993 to June 1999.

For graduate programs, document scholarship and research capability

Refereed Journal Articles: Published 120

Mars, M.M., Bogden, A., & Torres, R.M. (2024). The influence of entrepreneurial leadership education on shaping the entrepreneurial mindset of students. Entrepreneurship Education, 7:67–85. https://doi.org/10.1007/s41959-024-00112-x"

Foerster, T.A., Mars, M.M., Torres, R.M., Sias, P.M. (2021). Human-wildlife conflict mitigation and the self-efficacy of wildlife professionals in non-formal education and outreach. Journal of Human Dimensions of Wildlife. https://doi.org/10.1080/10871209.2021.1910881"

Jeffers-Sample, A., Mars, M. M., Rice, A. M., & Torres, R. M. (2018). Examining the Entrepreneurial Leadership Proclivities of Extension Educators. Journal of Extension, 56(6 Article 6FEA4). https://tigerprints.clemson.edu/joe/vol56/iss6/25"

Mars, M. M., & Torres, R. M. (2018). Developing collegiate student proclivities to entrepreneurial leadership. Journal of Leadership Education, 17(4), 110–129. https://journalofleadershiped.org/jole_articles/developing-collegiate-student-proclivities-to-entrepreneurial-leadership

DeKoker, T., Mars, M. M., Torres, R. M., & Quist, T. M. (2018). Wild greens knowledge and consumption: A qualitative exploration of human agency in the Southern Arizona food system. Food, Culture & Society: An International Journal of Multidisciplinary Research, 21(3), 331–

349. https://doi.org/10.1080/15528014.2018.1451040"

GRANTSMANSHIP AND PROGRAMMATIC SUPPORT (prior to experiment station appointment)
Funded Proposals: ($4,528,548.00)

Co-PI, ALEC Agricultural and Science Communication Postdoctoral Research Associate. Funded by CAES Experiment Station (2 years). Total project funds $150,000.

Co-PI, ALEC Community Diagnostics + Social Impact (CD+SI) Toolkit Postdoctoral Research Associate. Funded by CAES Experiment Station (2 years). Total project funds $150,000.

PI, ALEC Recruitment Enhancement. Funded by UGA Graduate School (Spring 2019). Total project funds $1,000.

PI, ALEC Graduate Student Accepted Student Day. Funded by UGA Seal the Deal Grant Program (Spring 2019). Total project funds $1,000.

For doctoral programs, document faculty experience in directing student research

UNDERGRADUATE RESEARCH (UA Honors Program)
Committee Chaired: Total of 3 (Career)
Committee: Total of 1 (Career)

GRADUATE RESEARCH
Graduate Committee Chaired: Total of 18 (Career)
M.S. – Thesis (13)
M.S. – Non-Thesis (5)

Committee Member: Total of 21 (Career)
Ph.D. – Dissertation Committee (2)
M.S. – Thesis Committee (11)
M.S. – Non-Thesis (8)

Existing Personnel

Lacey Roberts-Hill, Ph.D.

FTE

1

Course load and courses they will teach in the proposed program

AXED 5320 Risk and Crisis Communications in Agricultural, Consumer, and Environmental Sciences
AXED 5996 Special Topics
AXED 7000 Doctoral Dissertation
ANSC 700 Doctoral Dissertation

Courses taught in other programs currently offered

ACOM 1120, ACOM 2120, ACOM 3125, ACOM 4130, ACOM 4120, ACOM 5320

Description of academic qualifications

Texas A&M University: Ph.D. in Agricultural Leadership, Education, and Communications Graduation: Aug 2020
Certificate: Nonprofit Management, The Bush School of Government
Dissertation Title: Picturing Development: Visualizing International Agricultural Development and Communication

Oklahoma State University: M.S. in International Agriculture Graduation: Dec 2016
Creative Component: 2016 Sam Noble Foundation Scholar: Watoto Fellowship in Uganda

West Texas A&M University: B.S. in Agricultural Media and Communications Graduation: Aug 2013 Minor: Agricultural Business and Economics

Prior instructional responsibility and other experiences relevant to assigned courses

Assistant Professor; Department of Agricultural and Extension Education
Aug 2020-Present
New Mexico State University

Freelance Photographer and Graphic Design Aug 2011-Present
Las Cruces, NM

Instructor, School of Human Sciences Aug 2020-Aug 2021
Mississippi State University

Graduate Research Assistant Aug 2017-Aug 2020
Texas A&M University; Department of Agricultural Leadership, Education and Communication

USAID Higher Education Virtual Student Federal Service Intern Sept 2018-May 2018
Washington, D.C.

For graduate programs, document scholarship and research capability

PEER-REVIEWED ARTICLES AND ABSTRACTS 4 total
Roberts-Hill, L., Roberts, R., & Roberts, T. G. (In press). A Journey to a global scholar identity: An autoethnography of agricultural and extension faculty's experiences. Journal of International Agricultural and Extension Education.
Redwine, T., McKim, B., Roberts, L., & Rogers, T., (2018). Eye-tracking: A biometric tool for measuring visual literacy in agricultural communications students. Journal of Agricultural Education. (In Review).
Walter, G., Roberts, L., & Rutherford, T., (2019). So You Want to be a Faculty Member: Preparing Doctoral Students to Lead Graduate Courses. [Special Supplement: Abstracts]. NACTA Journal 63(1), 24.
Redwine, T., Roberts, L., & Spence, J., (2019) Trusting the Tech: Using Eye-Tracking as a Teaching Tool. [Special Supplement: Abstracts]. NACTA Journal 63(1), 61.

CONFERENCE PROCEEDINGS & ABSTRACTS 19 total

GRANTS
Saucier, R., Reynolds, C., Victoria, M., Hainline, M., Roberts, L., Aschenbrener, M. (2022) Southwest Agriculture and Food Safety and Security Eudcation: Preparing Future Leadership for a Safe and Secure U.S. Food System. $6,514,705.37 (Not Funded)

Edgar, D., Norris, S., Hill, N., Fraze, S., Lombard, K., Mesbah, A., Bittner, L., Trueblood, C., Dean, T. (2022) Impacting Career Engagement in Agricultural, Consumer, and Environmental Sciences. $613,590.00 (Funded) Roberts-Hill, L. (Collaborator) Completing communication activities after the departure of co-author, Hill, N.

Graves, J., Roberts, L., McCubbins, A. (2022). International Agricultural Education Fellowship-Guatemala. USDA, Foreign Agricultural Service: International Agricultural Education Fellowship Program. $504,551.00 (Not funded)

Fraze, S., Hill, N. (2021) Young Agri-Scientists: Connecting diverse students to each other and FANH careers through experiential learning in mentored research and science communication. USDA NIFA Hispanic-Serving Institutions. $999,935.00 (Funded) Roberts-Hill, L. (Co-Project Implementor) Recruitment and educational material development and dissemination after the departure of co-author, Hill, N.

Existing Personnel

Allen A. Malone, Ed.D.

FTE

.25

Course load and courses they will teach in the proposed program

AXED 7000 Doctoral Dissertation
Will manage the Student Experience Plans

Courses taught in other programs currently offered

Serves as Associate Director Cooperative Extension Service

Description of academic qualifications

2010 Doctorate of Education (Ed.D.)
Texas A&M University & Texas Tech University
Doctorate of Agricultural Education & Leadership

1993 Master of Science
Prairie View A&M University
Agricultural Economics

1990 Bachelor of Science
Prairie View A&M University
Agricultural Economics

Prior instructional responsibility and other experiences relevant to assigned courses

Oct. 2017 – Dec. 2022 1890 Extension Administrator/Director,
Alabama Cooperative Extension System
Alabama A&M University

June 2014 – Sept. 2017 County Extension Director – Harris County,
Texas A&M AgriLife Extension Service
Texas A&M University

August 2012 – June 2014 County Extension Agent – Harris County, Agriculture & Natural Resources
Texas A&M AgriLife Extension Service
Texas A&M University

Oct. 2010 – July 2012 County Extension Agent – Fort Bend County, Agriculture & Natural Resources
Texas A&M AgriLife Extension Service
P a g e | 3
Texas A&M University

For graduate programs, document scholarship and research capability

2021 More in Our Cities: The Urban Difference Report 2020, Allen A. Malone, Wendi Williams, Shannon Schoeneweiss; Alabama A&M University UNP-2184

2020 More in Our Cities: The Urban Difference Report 2019, Allen A. Malone, Wendi Williams, Shannon Schoeneweiss; Alabama A&M University UNP-2175

2019 More in Our Cities: The Urban Difference Report 2018, Allen A. Malone, Wendi Williams, Shannon Schoeneweiss; Alabama A&M University UNP-2155

2018 More in Our Cities: The Urban Difference Report 2017, Allen A. Malone, Wendi Williams, Shannon Schoeneweiss; Alabama A&M University UNP-2133

2010 The Effectiveness of Leadership Development Programs on Small Farm Producers, Allen A. Malone, Doctoral Dissertation at Texas A&M University and Texas Tech University

2017 – Present Extension Funding
Served as the Principal Investigator (PI) on USDA-NIFA Section 1444 (1890 Extension) funding of $2.8 million annually, this funding has grown by 13% since 2017. USDA-NIFA also provides Facilities Funding for which I served as PI on 4 awards totaling approximately $ 14 million. I also provide oversight for $ 1.3 million in SNAP-ED and EFNEP funding. The state of Alabama provided annual funding to support programming activities of approximately $4.3 million each year. This funding has grown 10.2% in my brief tenure as Extension Administrator in Alabama. Prior to my arrival the Extension program at AAMU had not received an increase in its appropriation in the previous 6 fiscal year funding cycles.

2020 – Present EXCITE Funding Activity 1 & Activity 2 Provided Agency leadership for a 2-phase funding proposal from the Centers for Disease Control and the Cooperative Extension Section of APLU. The grant was designed to provide outreach education to communities experiencing hesitancy related to the COVID-19 vaccination. Total funding for the 2 activities equates to about $250,000 in shared funding with Auburn University.

For doctoral programs, document faculty experience in directing student research

Has not had the opportunity to direct student research as an Extension Administrator

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Existing Personnel

LaJoy R. Spears, Ph.D.

FTE

1

Course load and courses they will teach in the proposed program

AXED 7000 Doctoral Dissertation

Courses taught in other programs currently offered

Dr. Spears is the Evaluation Specialist for the Cooperative Extension

Description of academic qualifications

Iowa State University, Ames, IA, 2011
Ph.D., Agricultural Education and Studies
Curriculum and Instructional Technology

University of Tennessee, Knoxville, TN, 2004
M.S., Agricultural and Extension Education

University of Tennessee, Knoxville, TN, 2001
B.S., Agricultural Economics and Business

Prior instructional responsibility and other experiences relevant to assigned courses

2019-Present Evaluation Specialist, Cooperative Extension Service Assistant Professor, Department of Agricultural and Extension Education
College of Agricultural, Consumer, and Environmental Sciences New Mexico State University

2017-2019 Assistant Professor, Evaluation Specialist
Family Life and Youth Development College of Natural and Applied Sciences University of Guam

2014-2016 Director, Minnesota Youth Institute
Coordinator, Youth Development and Community Engagement College of Food, Agricultural, and Natural Resource Sciences University of Minnesota

2008-2010 Program Coordinator, Agricultural Diversity Programs College of Agriculture and Life Sciences
Iowa State University

2007-2008 Instructional Development, Brenton Center for Agricultural Instruction and Technology Transfer
College of Agriculture and Life Sciences Iowa State University

2006-2008 Interim Distance Education Coordinator, Professor College of Agriculture, Cooperative Extension Service Tennessee State University

2004-2006 Extension Agent, 4-H Youth Development
University of Extension, Institute of Agriculture University of Tennessee

For graduate programs, document scholarship and research capability

PUBLICATIONS & PRESENTATIONS
Ulery, A., Smith Muise, A., Carroll, K., Chamberlin, B., White, L., Martinez, P., Spears, L.,
Gleason, J. (2020). Impact of multimedia learning tools in agricultural science classes. NaturalScience Education. 49.https://doi.org/10.1002/nse2.20011.

Koundinya, V., Siegelin, S., Spears, L., Norris, A., Ghimire, N., Sanders, C., Elgeberi, N., &
Mary Halbleib. (2023, April 26-29). Strategies to Face the Challenges of Evaluation Capacity Building When Working with Extension Professionals Not Trained in Evaluation. Association forInternational Agricultural and Extension Education, Guelph, Canada.

Elgeberi, N., Ghimire, N., Koundinya, V., Sayama, K., Sanders, C., Norris, A., & Spears, L.
(2022, November 28-December 1). Using a regional evaluation capacity building model to strengthen evaluation practices: Experiences from Western Regional Evaluation Network. [Roundtable discussion]. National Association of Extension Program & Staff Development Professionals, Ft. Lauderdale, FL.

Siegelin, S., Spears, L., Ghimire, N., & Narine, L. (2022, November 7-12). Facing the
challenges of evaluation capacity building when working with Extension Educators not trained inevaluation. [Panel discussion]. American Evaluation Association, New Orleans, LA.

GRANTS
Title: New Mexico Farm and Ranch Stress Assistance Network
Funder: USDA/NIFA 2021-70035-35570
Role: Co-PI Total: $500,000

Title: Expanding IPM Extension and Education in New Mexico
Funder: USDA/NIFA 2021-70006-35765
Role: Co-PI Total: $900,000

For doctoral programs, document faculty experience in directing student research

In addition to assisting grad students with their research, Dr. Spears had two experiences at the University of Minnesota that will be invaluable working with doctoral students in the program.
University of Minnesota
Chapter Advisor, Minorities in Agriculture and Natural Resources and Related Sciences (MANRRS), 2015-2016
Member, College of Food, Agricultural and Natural Resources, Diversity, and Inclusion Committee, 2015-2016

Documentation of department faculty support

AXED Faculty Support of PhD in Human Dimensions of Agriculture.docx

Curriculum Committee Approval

AXED PhD 2023 ACES Curriculum Committee Support Memo.pdf

Gray Associates Data

AXED_Grey's Data_Combined-New.pdf
010801_new_phd_presentation.pdf

NM Higher Education Department

Describe your institution's plan for periodic evaluation of program effectiveness. Include criteria that will be used to determine effectiveness.

The Human Dimensions of Agriculture Ph.D. program will be administered by the NMSU Agricultural and Extension Education (AXED) faculty. The program will encompass the following social science disciplines housed in the NMSU College of Agricultural, Consumer, and Environmental Sciences (ACES): Agricultural Education, Cooperative Extension, Agricultural Communications, Agricultural Leadership, and Family and Consumer Science Education. The AXED faculty will oversee admissions, monitor student progress, and make curricular revisions as needed. They will collaborate with sponsoring and affiliated programs to report program outcomes and statistics required by NMSU for annual departmental reviews and periodic institutional accreditation. This includes negotiating workloads, teaching assignments for participating faculty, and students employed as graduate assistants by the department.

Due to the program's hybrid online delivery model, the primary criteria for evaluating its effectiveness regarding quality will be early career placements or advancements of students who complete the program, research projects with documentation of their impact, and the program's impacts on New Mexico. NMSU collaborates with Gray Associates to quantify the actual costs associated with various programs based on measurable inputs, such as faculty salaries, fractional workloads related to programs, and credit hour production. This system will be employed to assess the cost-effectiveness of these programs compared to other doctoral programs at NMSU. Additionally, other standard metrics applicable to all programs, including retention rates and time to degree, will also be used.

AXED will conduct an extensive three-year review using data on student retention, graduation rates, job placements, and program costs. All students, whether they graduate or withdraw, will be given exit interviews. AXED will continuously evaluate the curriculum by comparing it to peer programs' offerings and staying updated with current trends. At the end of the three-year period, when the first-class graduates, we will conduct an external review with nationally recognized faculty from similar programs. We will then conduct another external review every five years.

The proposed program must meet one or more specified needs within the state or region. Clear and convincing evidence must be provided of the reality and extent of such need.

As agriculture grapples with critical challenges as an industry, it will take human intervention through evidence-based research to address the issues New Mexico faces in the coming years, such as human's influence on drought, access to food and water, and aging agricultural populations (Witte, 2024). By equipping individuals in social science research in agriculture through the Ph.D. in Human Dimensions of Agriculture program at NMSU, the state can enhance its understanding of how human behavior influences the agricultural sector. This knowledge will empower New Mexico to address these challenges through research, potentially leading to positive policy and practical changes for the agricultural industry in the future.

However, federal agencies have identified a shortage of qualified experts capable of addressing such issues, particularly in resource-constrained states like New Mexico (AFRI Education and Workforce Development Program, 2024). The proposed Ph.D. will support Sustainable and Value-Added Agriculture, one of New Mexico's nine economic priority sectors. The Ph.D. program will also complement the agricultural economy through social science research and workforce training. This will primarily be accomplished through students' doctoral dissertations. Students' future research will address critical social science problems in agriculture such as an examination of public attitudes regarding water conservation, the human use of drones to address water scarcity in New Mexico, the lack of access to food in rural and underserved New Mexico communities, and factors that persuade or deter young agriculturalists from entering the industry, which is important due to New Mexico's aging agricultural population.

Consequently, it is crucial to recognize that the social science research conducted for the Ph.D. in the Human Dimensions of Agriculture will not be conducted in a traditional laboratory setting. This Ph.D. program is situated at the intersection of agriculture and human science research, enabling students to conduct their studies in real-world contexts and beyond the university's boundaries. As a result, students will not be required to reside on campus and can continue to live in rural New Mexico communities through online educational offerings. This approach will be instrumental in addressing the brain drain phenomenon occurring in rural spaces by allowing New Mexico residents to remain in their communities while pursuing this degree and continuing to contribute to the local tax base (Cowen et al., 2019).

It is also important to note that the Ph.D. in the Human Dimensions of Agriculture has generated considerable interest within the state of New Mexico. For example, we currently have a waiting list for the program consisting of 21 New Mexico residents, including three professionals from the Navajo Nation and one who teaches on the Mascalero Apache Reservation. The the names of New Mexico residents interested in pursing this Ph.D. program at NMSU along with their professional affiliation can be found as an appendix.

If the program fills a regional workforce need, describe collaboration between your institution and regional employers in the program development.

The Ph.D. in the Human Dimensions of Agriculture (HDA) program aims to fill a state and regional workforce need. Our conversations with regional stakeholders and potential employers (see letters of support), led to the creation of this proposed program. With the knowledge and skills gained through this Ph.D., graduates will be equipped for mid-career advancement and senior-level research-focused careers in agricultural agencies, such as the New Mexico Department of Agriculture, the Cooperative Extension Service, Career and Technical administration in New Mexico public school, state and federal governmental research, and other organizations involved in public policy and agriculture.

Further, in light of the growing emphasis to understand human's influence on agriculture in various educational institutions, public agencies, non-profits, and private firms, graduates from our proposed Ph.D. program will be well-positioned to assist employers in achieving this crucial goal. The research experience gained in this Ph.D. program, drawing from foundations in education, extension, communications, and agricultural innovation, will provide new professionals with the leadership skills and knowledge required to understand the social influence of humans on agriculture in diverse workplace environments, which is essential in the state of New Mexico. For individuals interested in the social sciences of agriculture, this degree can be highly valuable.

Letters of support for this proposal highlight the urgent need for trained social science researchers in agriculture to address these pressing issues. The proposed Ph.D. in Human Dimensions of Agriculture at New Mexico State University (NMSU) aligns with this need by encompassing disciplines such as Agricultural Education, Cooperative Extension, Agricultural Communications, Agricultural Leadership, and Family and Consumer Science Education.
Data gathered by Gray Associates further underscored the significance of this advanced degree. For instance, this program could fill a critical need in New Mexico by preparing individuals for related careers that require a Ph.D. in the social sciences of agriculture. In 2023 alone, New Mexico had nine (9) job openings that necessitated a doctoral-level degree in this field. Since no Ph.D. program currently exists for these disciplines in the state, employers were likely required to hire out-of-state candidates. However, this problem is not limited to New Mexico but also occurs throughout the nation. For example, in the U.S., 60 positions opened that required a social science degree in agricultural and extension education. However, the shortage of doctoral graduates in this field likely prevented employers from meeting this demand.
Our letters of support also support the proposed Ph.D. program and its potential impact of economic development is clearly expressed in the accompanying letters of support from the New Mexico Department of Agriculture, the New Mexico Cooperative Extension Service, the New Mexico Agricultural Leadership program, and the New Mexico State University College of Agricultural, Consumer and Environmental Sciences. Dean Rolando Flores in his letter of support notes how well our proposed program aligns with the university's strategic plan, LEADS 2025, particularly with the aim to "grow research and create activity and to help NMSU attain Carnegie R1 status in research." The program will also be welcomed outside of academia. Dr. Lisa R. Ramirez, director of the Office of Partnerships and Engagement, at the United States Department of Agriculture believes there are hundreds of mid-career USDA personnel who can benefit from this type of program.

This would be a collaborative effort with the New Mexico Cooperative Extension Service, the New Mexico Agricultural Education and FFA Association, the New Mexico Department of Agriculture, and the United States Department of Agriculture. All states in the Western Region of the U.S. which include Arizona, Utah, Colorado, Wyoming, Montana, Idaho, California, Oregon, Washington, Alaska, and Hawaii all have the Cooperative Extension Service, Departments of Agricultural Education/FFA, USDA stations, and Departments of Agriculture, all of which would benefit from a Ph.D. program such as this.

Identify where similar degree programs are offered by other public higher education institutions in New Mexico.

The Ph.D. in the Human Dimensions of Agriculture would be the sole program of its kind in the state of New Mexico. There are only a few programs similar to it at other public or private higher education institutions in the Western United States. One similar program is Texas Tech University because it offers a Ph.D. in Agricultural Communications and Education, but it's not a land-grant institution and lacks the connection to the Cooperative Extension Service that we have at New Mexico State University due to our land-grant status.

Oregon State University (OSU) is the only other university with a similar program in the Western United States. However, OSU only offers an on-campus resident Ph.D. program, and strongly supports the development of New Mexico State University's proposed Ph.D. program. In his letter of support, Dr. Jonathan Velez, the Department Head of Agricultural Education and Agricultural Sciences at OSU, highlighted the need for such a program. Dr. Velez mentioned that during his recent interaction with NMSU faculty, he was delighted to learn about the Department of Agricultural and Extension Education's consideration of an online Ph.D. program. He emphasized that every year, his department faced the challenge of recruiting graduate students who ask, "Can this Ph.D. program be completed online?" There are currently no options where students can continue working while pursuing a Ph.D. in agriculture and extension education; therefore, this program would be novel in its approach and has the potential to greatly serve residents in the state of New Mexico who may reside in rural communities and be place-bound.

Although in-person learning remains crucial for the profession, Dr. Velez also underscored the urgent need to adapt the model to meet the evolving needs of the current industry and extension professions. Many professionals are interested in pursuing a Ph.D. but are unable to leave their jobs for the 3-4 years required for an on-campus degree. OSU has a longstanding reputation as a leader in distance education, and Dr. Velez has witnessed remarkable growth in its undergraduate degree and graduate certificates programs. He believes that there is a strong market for a Ph.D. program and is excited to support NMSU's initiative to establish a distance-based degree program.

If similar programs are offered at other public higher education institutions in New Mexico, provide a rationale for offering an additional program.

Not Applicable

Enrollment and Graduation Projections

Student Type	Year 1	Year 2	Year 3	Year 4	Year 5
New Students	5	5	5	5	5
Continuing Students	0	5	10	10	10
Graduates	0	0	0	5	5

Annual Retention Rate Target (%)

100%

Target 100% Graduation Rate (%)

100%

Target Job Placement Rate (%)

100%

Describe the faculty resources that are needed to initiate the program. Will any additional faculty be needed?

When the program begins, no additional faculty will be necessary, as all classes are currently taught. If approved, we have received a commitment from the graduate school for two Ph.D. assistantships and three Ph.D. assistantships from the College of ACES to assist in initiating the program.

The Department of Agricultural and Extension Education added two Ph.D. faculty members with joint appointments in Family and Consumer Science during the 2023-2024 academic year. One faculty member will specialize in Career and Technical Education Administration, while the other will focus on Artificial Intelligence in Agriculture, particularly in robotics for food processing and drones in agriculture. The New Mexico Cooperative Extension has also proposed a new state specialist position with a 25% teaching appointment. This will add another Ph.D. to our faculty, who will be assigned to work with students in the field of extension education.

Descibe the library and other academic support resources that are needed to initiate the program. What, if any, additional resources will be needed?

New Mexico State University maintains a library on the main campus. We requested David Irvin from the NMSU Library to undertake a collection development project for the Ph.D. in Human Dimensions of Agriculture. We worked with David to identify essential journals and databases that this program will require for student success going forward. The majority of top tier research journals applicable to conducting research in each area of the Human Dimensions of Agriculture are readily available online. Some professional societies will require student membership to access which is very minimal, but many of the journals can be accessed at no cost. NMSU Library is prepared a report in response to the College of ACEs new program proposal for the Ph.D. in the Human Dimensions of Agriculture. This report assesses the Library's ability to support the program. No additional resources are being requested at this time.

The Library Impact Statement for the Ph.D. in the Human Dimensions of Agricultural is attached with letters of support.

Describe the physical facilities of the institution that will be used for the first five years of the program. Will additional space or modifications of existing space be required within the first five years of program operation.

There's no need to modify any of the physical facilities currently used by the Department of Agricultural and Extension Education in the College of Agricultural, Consumer, and Environmental Sciences, which is housed at New Mexico State University.

Describe the institution's equipment and technological resources needed for the first five years of the program? What, if any, additional equipment will be needed?

The only equipment needed will be computer technology for resident resident students which will be provided by the AXED Department.

Describe any other operating resources needed to initiate the program.

Any additional operating resources will be provided by the AXED Department.

Are there existing external facilities that will be used? Have agreements been established to ensure use of the those facilitates?

Non Applicable

Provide a clear analysis of the projected cost of the proposed program and the sources of funding that will support it for the first five years that the program will be offered. Include a discussion how any of the needed resources discussed in your attachment. This should be completed in collaboration with your institution's financial office.

Budget-Information-for-new-PhD proposal in Human Dimensions of Agriculture.pdf

Letters of Support

Gary Aycock Letter of Support.pdf
Jon Boren Letter of Support_AXED Dept.pdf
Jeff Witte Letter of Support New Mexico Dept of Agriculture.pdf
Rolando Flores Letter of Support Phd.pdf
Allen Malone Letter of Support.pdf
Sherry Kollmann Letter of Support.pdf
Kevin Lombard Letter to support AXED PhD Program.pdf
Flinchbaugh Support Letter_ HDA PhD Program.pdf
Bob Mayberry PhD Support Letter.pdf
LIBRARY IMPACT STATEMENT Human Dimensions_6_30_23.pdf
Dine' College Letter of Support.pdf
Oregon State University Letter of Support.pdf
NMSU -- NAAE Support Letter -- 2023 09-14.pdf
ENMU Letter of Support for PhD.pdf

Accreditation

Is the program seeking specialized accreditation?

No

Is specialized accreditation required for licensure or practice in the program?

No

Has the program already obtained the appropriate specialized accreditation? If so, attach a copy of the letter from the agency granting accreditation?

No

If the program has not yet obtained accreditation but has begun the process of seeking or plans to seek specialized accreditation, specify the name of the agency and provide the time-line for completing the process.

Non-Applicable

If the program does not plan to seek specialized accreditation, provide a rational for not-seeking accreditation here. (if there is not a specialized accrediting organization for this program, indicate so as your rationale).

Interdisciplinary PhD programs in the social sciences of agriculture are not accredited.

If the program includes any of the following, explain how it will ensure that student work and levels of knowledge competencies achieved will be comparable to those achieved through traditional formats: (Award credit for prior learning; use of compressed time frames; use of on-line deliver; inclusion of accelerated formats; or other approaches to learning.)

Non-Applicable

Will the program be part of a contractual or consortial arrangement (yes/no, explain)?

No

If the program is planning any involvement by external organizations (other than from accredited higher education institutions) in the key operations as identified below, provide the information as requested.

Type of Involvement	Name of External Organization	Percent of Involvement
Course placement and advising of students	Non-Applicable	0
Design and oversight of curriculum	Non-Applicable	0
Direct instruction and oversight	Non-Applicable	0
Other support for delivery of instruction	Non-Applicable	0
Recruitment and admissions of students	Non-Applicable	0

Briefly describe the planning process for determining the need for this new program, including the role of faculty in the planning and approval process.

NMSU has had historical interest in providing advanced graduate training in the agricultural sciences in the STEM disciplines. Momentum behind the current proposal coincided with NMSU LEADS 2025 Strategic Plan Development. LEADS 2025 identifies Ph.D. degrees and research expenditures in Humanities and Social Sciences as playing key roles in elevating the status of the institution and thereby the opportunities for its graduates. An internal call for Ph.D. proposals was sent out in early 2023 from the College of ACES and the process was begun by Dr. Steve Fraze who was the Department of Head of AXED at the time. A faculty meeting of the AXED faculty was convened to discuss the framework and need for a Ph.D. in the social sciences of agriculture at NMSU. Since then, however, Dr. Richie Roberts was hired in January 2025. Dr. Richie Roberts, the current Department Head of AXED, has a successful track record of establishing Ph.D. programs. For example, during his time at Louisiana State University, he was able to recruit high-quality professionals into the doctoral program, which is now the largest in Agricultural and Extension Education in the U.S. (see attached associated Grey's data), while also placing graduates in high-demand jobs.

A preliminary proposal was presented to the Deans Department Heads Council in March 2023 and received unanimous approval to move forward. The AXED faculty continued the proposal development using the Texas Tech Ph.D. as a model while meeting with several potential stakeholders of the program including the New Mexico Cooperative Extension Service, New Mexico Agricultural Leadership program, the New Mexico Agricultural Education/FFA Association, the New Mexico Department of Agriculture, and the United States Department of Agriculture on the need and potential for such a program. Carol Flinchbaugh, Interim Associate Dean, NMSU Graduate School and Sherry Kollmann, Associate Vice Chancellor, NMSU Digital Learning were both consulted and included in the development of the proposal. All faculty in the AXED Department were supportive of the proposal and approved the final draft when submitted.

Describe the process for assessing and improving student learning in the proposed program.

Ph.D. students in the Human Dimensions of Agriculture program will be evaluated annually for academic and professional progress. Criteria include committee membership and timely completion of coursework. Performance on qualifying, comprehensive, and final oral exams, as well as participation in colloquia, will be used to assess where and how learning outcomes can be improved. These outcomes will be reported through the standard mechanism used by NMSU to assess annual outcomes for all academic programs that lack separate, specialized accreditation. Students will also be required to come to the main NMSU campus in Las Cruces, NM each semester for a Research Preparation seminar. These seminars will allow all students who are completing their Ph.D. online to interact with faculty face-to-face and ensure they are progressing with their research adequately. During these Research Preparation sessions, we will assess student progress toward their degree and offer remediation and additional support, if needed.

Teaching activities (GTA), research activities (GRA), professional conference presentations, publications, and external and internal research awards will be considered as products for which specific target goals can be set. Employment and career advancement will be viewed as broad measures of program quality outcomes, and early career mentorship will be actively sought. Each of these aspects of assessing learning and outcomes will be managed by the AXED faculty. Numerical data that will provide context for the annual formative assessments will include data on each incoming student, such as the number of applicants, acceptances, and matriculations, as well as the cumulative transfer credits accepted for each entering student. Additionally, the level and type of funding provided to each student receiving an assistantship will be included. A summative evaluation of the program will be conducted in year five. Program outcomes will be assessed using the student Ph.D. dissertations and the results of Final Oral Examination.

Describe the process for assessing and improving student persistence and completion, in the new program.

Persistence will be evaluated in-depth annually for the first three years of the program. Students recruited for the program must hold a Master's degree in the same or a related discipline. By the end of their first semester, they will establish their graduate committee. The committee chair and members will provide advising and mentorship each semester, ensuring a steady path to completion. As with any doctoral degree, students will collaborate closely with their graduate committee members.

Students will also meet noncurricular examination requirements required by the NMSU Graduate School which include:

- Ph.D. Qualifying Exam
- Proposal Hearing
- Comprehensive Exam with Advancement to Candidacy
- Final Oral Examination (Dissertation Defense)

The AXED faculty will discuss, at least annually, on a per student basis, the following: (1) the reasons behind a student leaving the program before completing, (2) students who are not making timely progress towards degree completion, and (3) students whose performance is marginal. In cases (2) and (3), specific interventions tailored to the student will be considered.

If any of the institution's accreditation relationship (including other regional, specialized, or national accrediting agencies) are currently under or recommended for a negative status or action (e.g., withdrawal, probation, sanction, warning, show-cause, etc.)

Non-Applicable

If the institution is undergoing or facing substantial monitoring, special review or financial restrictions from the U.S. Department of Education or other federal or state government agencies.

Non-Applicable

If the institution's senior leadership or board membership has experienced substantial resignations or removals in the past year.

NMSU had several leadership changes since 2024. Interim President Jay Gouge retired in May 2024 and interim President Monica Torres was appointed. The current President Valerio Ferme took office in January 2025. In March 2024, Alan Shoho retired as Provost and Lakshmi Reddi was appointed as interim Provost and Chief Academic Officer. A search for the Provost will be conducted in Fall 2025.

If the institution is experiencing financial difficulty through conditions, such as, a currently declared state of exigency, a deficit of 10% or more, a default or failure to make payroll during the past year, or consecutive deficits in the two most recent years.

Non-Applicable

Institution Specific Information Area

Primary target audience for the program (e.g., full#time, part#time, traditional college age, working adults, transfer students, military personnel, or particular ethnic group)

The Ph.D. in the Human Dimensions of Agriculture will serve to both full-time resident students and part-time mid-career working professionals or military personnel who continue to serve while pursuing their advanced degree. Our primary objective is to attract and retain New Mexico residents. For instance, AXED currently collaborates with Dine College on the Navajo Reservation in Northwest New Mexico and Northeast Arizona to provide financial support for faculty and tribal members to pursue advanced degrees. As a Hispanic Serving Institution, we are committed to recruiting Hispanics and other minority groups for this program. Our commitment to New Mexico residents is evident by 21 New Mexico residents who are on the wait list for admittance into the Ph.D. once it is approved.

How does the proposed program align with the department, college and university mission?

NMSU's Strategic Plan is LEADS 2025, is a living document see https://leads2025.nmsu.edu/

LEADS is structured such that each academic college and department is to maintain its own corresponding strategic plans that align with those of the institution.

LEADS 2025 has six major goals, addressing:
1. Enhance Student Success and Social Mobility
2. Elevate Research and Creativity
3. Amplify Extension and Outreach
4. Build a Robust University System.
5. Building an Online Global Campus
6. Build, Elevate, and Strengthen Sustainable Systemwide Equity, Inclusion and Diversity Practices

This proposal aligns with the objectives of Goal 2 (2.1 and 2.3) to enhance the impact of research findings addressing local and global challenges, and 2.2 and 2.4 to intentionally foster research and creativity in the Humanities and Social Sciences, promote international collaboration, and amplify the societal and economic impact of research. The top two current priorities under Goal 2 are to increase non-STEM research expenditures and enhance the number of doctorates awarded in the Humanities and Social Sciences. Currently, the College of ACES offers eight academic departments, with four in the STEM Sciences and four in the social sciences. While there are currently multiple Ph.D. programs in the STEM Sciences, the absence of a Ph.D. program in the social sciences underscores the need for such programs. In line with its commitment to optimizing academic offerings and engaging in high-impact practices (LEADS Goal 1, Objectives 1.2 and 1.4), New Mexico State University is resolute in launching and expanding Ph.D. programs.

Discuss how admissions criteria and strategies will recruit a diverse student body?

The Human Dimensions of Agriculture Ph.D. program aims to attract graduate students seeking a terminal, research degree in the social sciences of agriculture. Unlike traditional disciplinary Ph.D. programs, this program caters to a dual population of resident students and place-bound students through a hybrid online delivery. We believe this dual system fosters a more diverse student body, especially for New Mexico residents who are often place-bound (e.g., Tribal Extension Officers and Agriscience Teachers). Currently,

four professionals who live and work on tribal lands have expressed interest in our Ph.D. program. We anticipate more professionals from similar backgrounds enrolling in this program in the future.

What controls are in place to ensure that the information presented to all constituencies in advertising, brochures, and other communications will be accurate?

One of the duties of the AXED Faculty for the PhD in the Human Dimensions of Agriculture would be to maintain a web page for the program, in collaboration with the NMSU Graduate School, and develop promotional materials that comply with NMSU standards with the help of NMSU Marketing and Communications.

Typically, the students who will be targeted for this program will be seeking mid-career advancement or a career as a university faculty, an administrator in CTE programs in New Mexico school districts, the New Mexico Cooperative Extension Service, or the New Mexico Department of Agriculture. The program equips students with a range of methods, analyses, and content knowledge suitable for working in agriculture and the people who benefit from such. The program's focus areas resonate particularly with Generation Z students who value their social progress and flexibility. Such a programming could also keep New Mexico residents in the state and address the rural brain drain phenomenon.

Currently, New Mexico State University's Ph.D. programs are heavily focused on STEM fields. Students increasingly seek opportunities to pursue a Ph.D. at the same institution after completing a master's degree. Many AXED graduates would likely continue to a Ph.D. at NMSU if such an opportunity were offered. Our goal is to attract a sustainable enrollment of 15 students, with an annual enrollment of five new students. Given that NMSU is one of the original Hispanic Serving Institutions, we believe this fact will be an advantage in recruiting minority and underrepresented populations as well.

Student Records Office Uploads

HLC wants CIP Code information that is currently being offered at both the institutional and degree level for 4-digit and 2-digit CIP codes for all new programs. This information will be provided by the University Student Records office and added to the form during the HED submissions workflow step.

NM Council of Graduate Deans

982 NM Council of Grad Deans Approval.pdf
Letter_Coucil of Grad Deans_PhD_Propsal_Changes.pdf

Historical Documentation

982_PhD_Human_Dimensions_of_Agriculture_Wait List.pdf
Comparison of Degree Completion Timeline for New Full Time Students Versus Online Professional Students.pdf

Reviewer Comments

Joe Lakey (jlakey) (Fri, 15 Sep 2023 22:20:17 GMT): Rollback: Per UPAC 08/17/23, revisions required

Gabrielle Martinez (gdmart) (Wed, 21 Feb 2024 15:08:04 GMT): Rollback: Rollback: UPAC edits requested.

Gabrielle Martinez (gdmart) (Thu, 11 Jul 2024 16:12:45 GMT): Rollback: Please attach the Council of Graduate School Dean approval. Thank you.

Gabrielle Martinez (gdmart) (Thu, 02 Jan 2025 16:01:14 GMT): 12/20/2024-Program not approved by NMHED. Supporting letter from NMHED included.

Gabrielle Martinez (gdmart) (Thu, 02 Jan 2025 16:01:56 GMT): Rollback: Program proposal not approved by NMHED, email sent to department on 12/20/2024 by NMHED. NMHED letter also included in PIM submission.

Key: 982

From: Lacey Roberts-Hill <lnrob@nmsu.edu>
Sent: Wednesday, June 14, 2023 1:11 PM
To: Steven Fraze <sfraze@nmsu.edu>
Subject: AXED PhD Program Support

Good afternoon Dr. Fraze,

I am writing you in support of the proposed PhD program for the Agricultural and Extension Education Department. With no existing PhD program, I find value in creating a program to be housed in our department. There is a need for higher education in the various fields of agriculture including Extension, Agricultural Education, and Agricultural Communications. With this program, we are meeting the needs of various fields around the state. As a proposed hybrid program with courses offered through NMSU's global campus, this degree would also provide opportunities of impact on our nation and world.

I am an existing graduate faculty member; therefore, I am already teaching courses that would be included in the proposed program. These courses are developed for hybrid settings, so there is no additional responsibility for me if this program is created.

I'm excited for this possibility and fully support this proposed program.

Best,

Dr. Roberts-Hill

Lacey Roberts-Hill, Ph.D.

Agricultural Communications | Agricultural and Extension Education
New Mexico State University | P.O. Box 30003 | MSC 3501| Las Cruces, NM 88003-8003
104 GTH | Tel: 575-646-3078 | lnrob@nmsu.edu | https://axed.nmsu.edu/faculty/lacey-roberts.html
- -
BE BOLD. Shape the Future.
New Mexico State University

From: Don Edgar <dedgar@nmsu.edu>
Sent: Friday, June 16, 2023 1:20 PM
To: Steven Fraze <sfraze@nmsu.edu>
Subject: Ph.D. Human Dimensions of Agriculture

Dr. Fraze,

It is with great honor that I write in support of a Ph.D. housed in the Department of Agricultural and Extension Education at NMSU in the ACES college. The Ph.D. in Human Dimensions of Agriculture will fill a great void in post-secondary education in the western United States. This degree program will invoke interest and viability in the academic discipline of Agricultural Education and other similar areas.

Please contact me if you need further information.

Don W. Edgar, Ph.D.
Agricultural & Extension Education, Professor
#112 Gerald Thomas Hall
Las Cruces, NM 88012
https://aces.nmsu.edu/academics/axed/

BE BOLD. Shape the Future.
New Mexico State University

From: Leslie Edgar <ledgar@nmsu.edu>
Sent: Sunday, June 18, 2023 4:17 PM
To: Steven Fraze <sfraze@nmsu.edu>
Subject: PhD in the Human Dimensions of Agriculture

I am writing in support of the PhD in Human Dimensions of Agriculture. This program will allow for the expansion of a social science program to assist ACES and NMSU with our pursuit of return to Carnegie R1 research classification. It will also fill a critical need to provide for doctoral training that is not currently available in the state. Please contact me if I can provide any additional information regarding this important doctoral degree.

I hope this paragraph will work with my contact information below. My CV is attached.

Good luck!
Leslie

Leslie D. Edgar, Ph.D.
Associate Dean of Research and Agricultural Experiment Station Director
College of Agricultural, Consumer, and Environmental Sciences
New Mexico State University
Box 30003, MSC 3BF
Las Cruces, NM 88003-8003
Office: 575-646-1138
Mobile: 479-263-0408
Preferred pronouns: she, her, hers
http://aces.nmsu.edu/aes/



BE BOLD. Shape the Future. Elevate Research and Creativity.

From: Shannon Norris-Parish <norriss@nmsu.edu>
Sent: Monday, June 19, 2023 10:56 AM
To: Steven Fraze <sfraze@nmsu.edu>
Subject: Statement of Support for Human Dimensions of Agriculture - AXED PhD Program

Good morning, Dr. Fraze.

I fully support the proposed, "Human Dimensions of Agriculture (Education, Extension, Communication, & Leadership) – Doctor of Philosophy" program within the Department of Agricultural and Extension Education (AXED). Due to no existing PhD program focusing in these disciplines at New Mexico State University, this program would provide valuable opportunities for students seeking a higher degree in our state and in the Southwest. In addition, this program would meet industry desires and demands by providing valuable educational avenues for this field.

I am an existing graduate faculty member in this department, and I currently teach the courses that are proposed for this program. Because these courses are developed for hybrid settings, there is no additional burden on my workload to adapt the syllabus for PhD students.

Again, I support this proposed PhD program, and I am excited about this opportunity.

Best,
Shannon

Shannon Norris-Parish
Ph.D. | Agricultural Communications | Agricultural and Extension Education

New Mexico State University | P.O. Box 30003 | MSC 3501 | Las Cruces, NM 88003–8003
Tel. 575.590.0030 | norriss@nmsu.edu | https://aces.nmsu.edu/academics/axed/
ORCID: https://orcid.org/0000-0001-6292-1532

From: LaJoy Spears <lrspears@nmsu.edu>
Sent: Friday, June 23, 2023 10:40 AM
To: Steven Fraze <sfraze@nmsu.edu>
Subject: Re: PhD in the Human Dimensions of Agriculture

Dr. Fraze

I am writing in enthusiastic support of the proposed doctoral program for the department of Agricultural and Extension Education.

As part of our commitment to shape students into engaged citizens and leaders, I support our department to integrate engaged scholarship into the curriculum moving forward. The doctoral program in Human Dimensions of Agriculture fits well with the AXED curricular plan and will strengthen course offerings.

As faculty member in the department, I am eager to see new courses that further our curricular goals through innovative teaching and learning methods that connect graduate academics to the many learning opportunities beyond the NMSU community.

I fully support the development of the degree program and its integration into our department course offerings. Our students will be well-served by this degree program as part of their NMSU education. The program addresses student demand, supported by faculty interest and credentials while utilizing financial resources to promote program sustainability. Moreover, the degree program supports ACES and NMSU strategic goals.

LaJoy R. Spears, Ph.D
Assistant Professor, Program Development and Evaluation Specialist
New Mexico State University
College of Agricultural, Consumer, and Environmental Sciences
Cooperative Extension Service
(575) 646-6331 office

From: William Norris <wnorris1@nmsu.edu>
Sent: Thursday, June 22, 2023 12:27 PM
To: Steven Fraze <sfraze@nmsu.edu>
Subject: Letter of Support

June 22nd, 2023

I am writing this letter in support of the proposed Ph.D. in the Human Dimensions of Agriculture at New Mexico State University (NMSU). This program will provide professionals in the areas of Agricultural Education, Agricultural Communications, and Extension the opportunity to pursue a doctoral degree. As a faculty member in the Agricultural and Extension Education (AXED) department at NMSU, I wholeheartedly agree to support this program by serving on doctoral committees, advising students on coursework, guiding students through the dissertation process, and/or any other capacity the program may need to succeed.

Currently, there is not a doctoral program at any institution of higher education in New Mexico that serves professionals in the Agricultural Education, Agricultural Communications, and Extension fields. This degree program would provide a phenomenal opportunity to advance these professionals' educational achievements and career opportunities. In addition, the proposed distance education model would allow the necessary flexibility for the student employed full-time to be successful. This aspect is critical in maintaining the program's utility for the working professional.

Overall, I am in full support of this doctoral program and look forward to working with students to advance their educational and career aspirations in this manner.

Sincerely,

William Norris, Ph.D.
Assistant Professor
College of Agricultural, Consumer and Environmental Sciences
Department of Agricultural and Extension Education
MSC 3501
New Mexico State University
P.O. Box 30003
Las Cruces, NM 88003-8003

Office# 575-646-4539
Cell# 334-531-7762

wnorris1@nmsu.edu

From: Allen Malone <aamalone@nmsu.edu>
Sent: Tuesday, June 27, 2023 8:32 AM
To: Steven Fraze <sfraze@nmsu.edu>
Subject: RE: PhD in Human Dimensions of Agriculture

This letter signifies my support for the doctoral program in the Human Dimensions of Agriculture at New Mexico State University's, College of Agricultural, Consumer and Environmental Sciences (ACES), Department of Agricultural and Extension Education.
The College is a firm believer in the Kaizen Mindset, which centers on the commitment to continuous improvement. The Cooperative Extension Service at New Mexico State University would benefit tremendously from this program. Its existence would afford our extension educators and professionals an opportunity to pursue a terminal degree and advance in their careers.
Serving as a tenured faculty member in the Department of Agricultural and Extension Education as well as the Associate Director for the Cooperative Extension Service affords me the privilege to recognize the value of such a program addition for the university. I proudly support the efforts of my colleagues in their pursuit of the doctoral program in the Human Dimensions of Agriculture.

Allen Malone

College of Agricultural, Consumer
and Environmental Sciences
MSC 3AG
New Mexico State University
P.O. Box 30003
Las Cruces, NM 88003-8003
575-646-3748, fax: 575-646-5975

MEMORANDUM

DATE: June 29, 2023

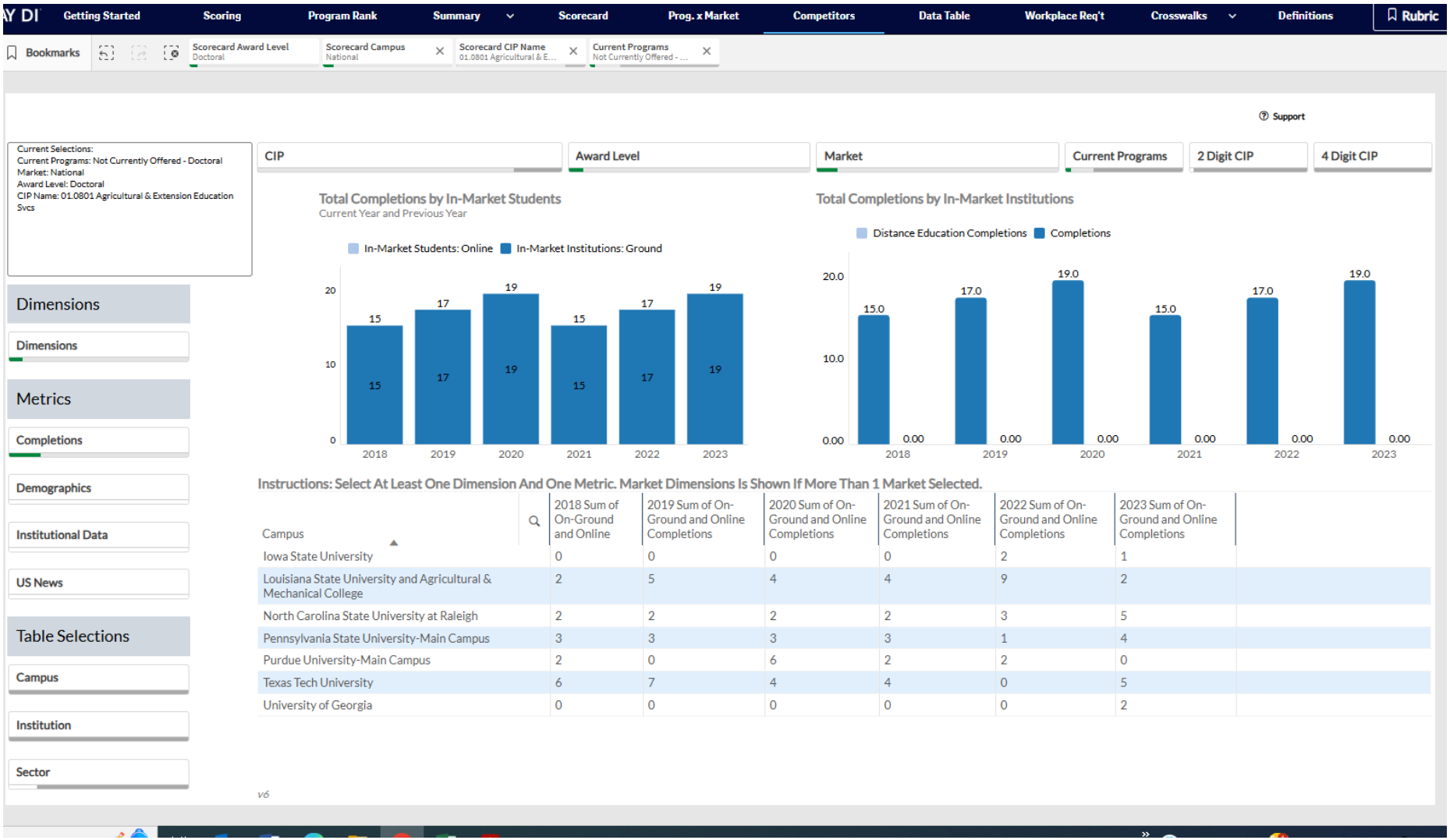
TO: Whom It May Concern

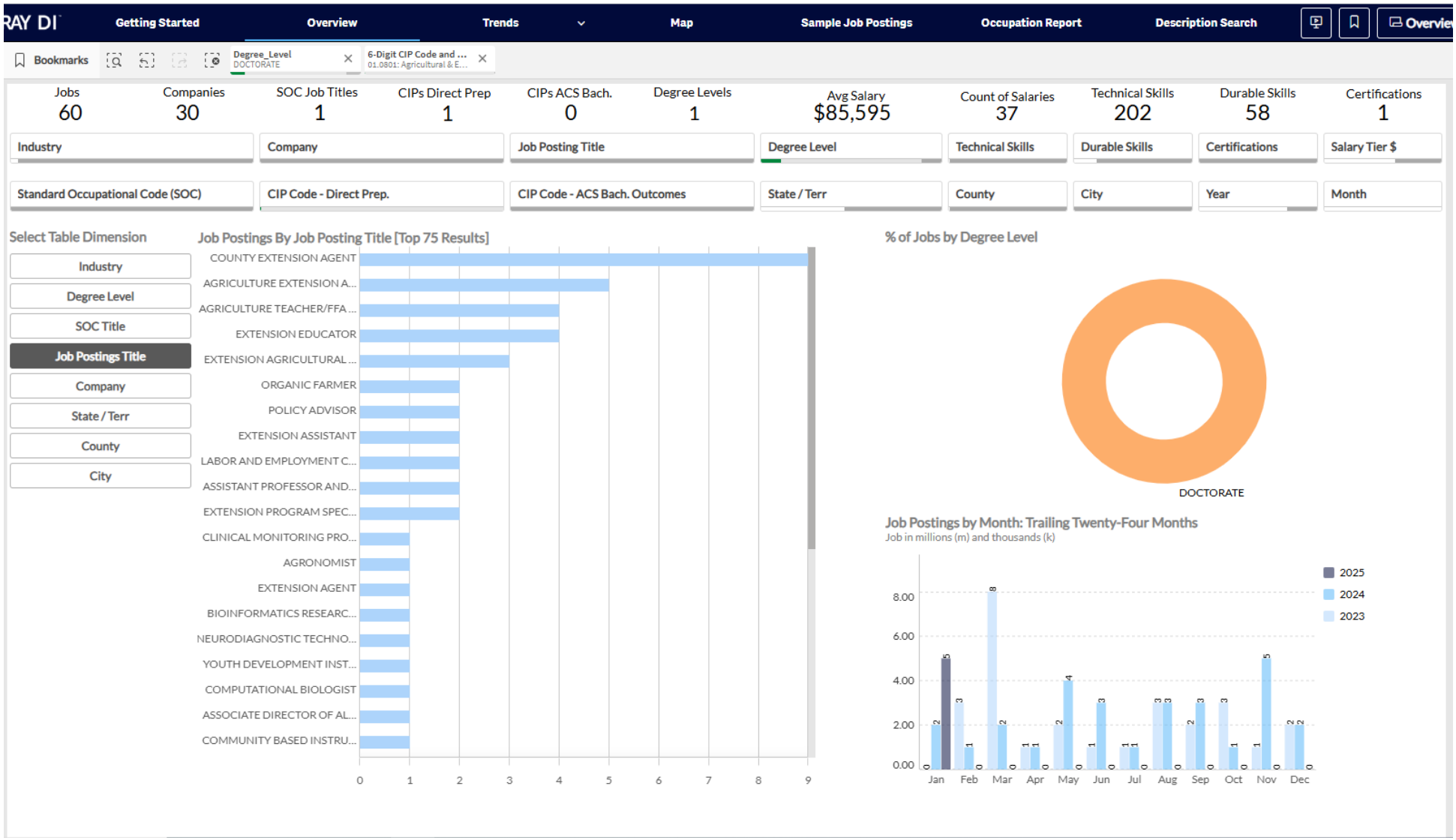
FROM: Dr. Donald E. Conner, Associate Dean and Director of Academic Programs

RE: Support for New PhD Degree Program in Human Dimensions of Agriculture (Education, Extension, Communication, and Innovation)

The Curriculum Committee of the College of Agricultural, Consumer and Environmental Sciences met on July 29, 2023 to discuss the merits of a new doctoral program in the area of Human Dimensions of Agriculture (Education, Extension, Communication, and Innovation). This program proposal has been developed by the Department of Agricultural and Extension Education in the College.

After discussions, the Curriculum Committee unanimously supported this proposal for submission into the NMSU system for full approval. In brief, the Committee feels there is both need and demand for a doctoral program in this area and that this program supports the University's mission and strategic goals. Additionally, the Committee believes needed departmental, College and University resources are available to support this new endeavor. The College of ACES looks forward to the addition of this new degree program to its academic portfolio.


Getting Started
Scoring
Program Rank
Summary
Scorecard
Prog. x Market
Competitors
Data Table
Workplace Req't
Crosswalks
Definitions
Rubric
Bookmarks
Scorecard Award Level
Doctoral
Scorecard Campus
National
Scorecard CIP Name
01.0801 Agricultural & E...
Current Programs
Not Currently Offered - ...
Support
Current Selections:
Current Programs: Not Currently Offered - Doctoral
Market: National
Award Level: Doctoral
CIP Name: 01.0801 Agricultural & Extension Education Svcs
CIP
Award Level
Market
Current Programs
2 Digit CIP
4 Digit CIP
Total Completions by In-Market Students
Current Year and Previous Year
In-Market Students: Online
In-Market Institutions: Ground
Total Completions by In-Market Institutions
Distance Education Completions
Completions
Dimensions
Dimensions
Metrics
Completions
Demographics
Institutional Data
US News
Table Selections
Campus
Institution
Sector
Instructions: Select At Least One Dimension And One Metric. Market Dimensions Is Shown If More Than 1 Market Selected.
Campus
2018 Sum of On-Ground and Online Completions
2019 Sum of On-Ground and Online Completions
2020 Sum of On-Ground and Online Completions
2021 Sum of On-Ground and Online Completions
2022 Sum of On-Ground and Online Completions
2023 Sum of On-Ground and Online Completions
Iowa State University 0 0 0 0 2 1
Louisiana State University and Agricultural & Mechanical College 2 5 4 4 9 2
North Carolina State University at Raleigh 2 2 2 2 3 5
Pennsylvania State University-Main Campus 3 3 3 3 1 4
Purdue University-Main Campus 2 0 6 2 2 0
Texas Tech University 6 7 4 4 0 5
University of Georgia 0 0 0 0 0 2
v6


RAY DI
Getting Started
Overview
Trends
Map
Sample Job Postings
Occupation Report
Description Search
Overvie
Bookmarks
Degree_Level
DOCTORATE
6-Digit CIP Code and ...
01.0801: Agricultural & E...
Jobs
60
Companies
30
SOC Job Titles
1
CIPs Direct Prep
1
CIPs ACS Bach.
0
Degree Levels
1
Avg Salary
$85,595
Count of Salaries
37
Technical Skills
202
Durable Skills
58
Certifications
1
Industry
Company
Job Posting Title
Degree Level
Technical Skills
Durable Skills
Certifications
Salary Tier $
Standard Occupational Code (SOC)
CIP Code - Direct Prep.
CIP Code - ACS Bach. Outcomes
State / Terr
County
City
Year
Month
Select Table Dimension
Industry
Degree Level
SOC Title
Job Postings Title
Company
State / Terr
County
City
Job Postings By Job Posting Title [Top 75 Results]
COUNTY EXTENSION AGENT
AGRICULTURE EXTENSION A...
AGRICULTURE TEACHER/FFA ...
EXTENSION EDUCATOR
EXTENSION AGRICULTURAL ...
ORGANIC FARMER
POLICY ADVISOR
EXTENSION ASSISTANT
LABOR AND EMPLOYMENT C...
ASSISTANT PROFESSOR AND...
EXTENSION PROGRAM SPEC...
CLINICAL MONITORING PRO...
AGRONOMIST
EXTENSION AGENT
BIOINFORMATICS RESEARC...
NEURODIAGNOSTIC TECHNO...
YOUTH DEVELOPMENT INST...
COMPUTATIONAL BIOLOGIST
ASSOCIATE DIRECTOR OF AL...
COMMUNITY BASED INSTRU...
0
1
2
3
4
5
6
7
8
9
% of Jobs by Degree Level
DOCTORATE
Job Postings by Month: Trailing Twenty-Four Months
Job in millions (m) and thousands (k)
2025
2024
2023
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

Bookmarks | 6 Digit CIP Code and ... 01.0801 Agricultural & E... | Gray Award Level Doctor's degree | State 26 of 52

Total Enrollment (Spring 2024)	New Student Enrollment (Spring 2024)	# of Programs	# of Award Levels	# of States/Unknown
132	21	1	1	26

Calendar Year | Academic Year | Term | State | County

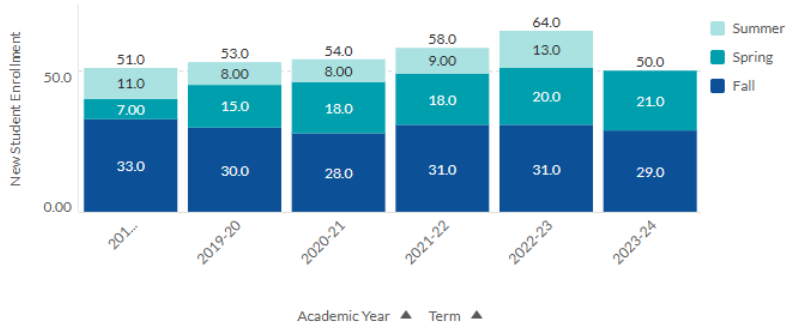
Award Level | 6 Digit CIP Code and Title | 4 Digit CIP Code and Title | 2 Digit CIP Code and Title

Select Chart Metric: Total Enrollment | **New Student Enrollment**

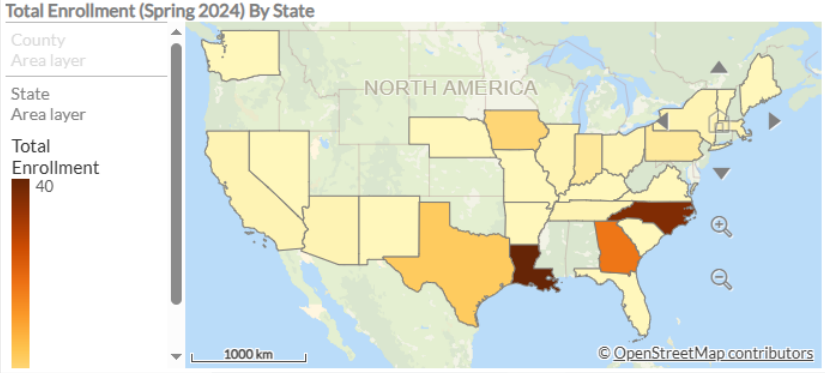
Select Chart Dimension: Award | 2-Digit CIP | 4-Digit CIP | 6-Digit CIP | **State** | County

Select Chart Measure: **Volume** | YoY* Unit Growth | YoY* Growth %

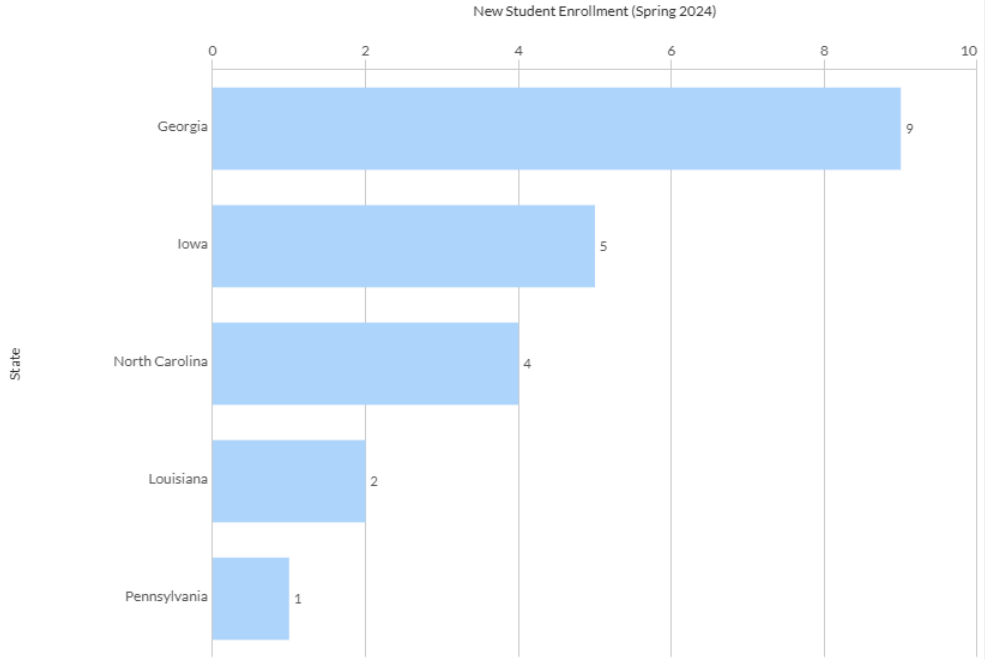
New Student Enrollment by Academic Year and Term



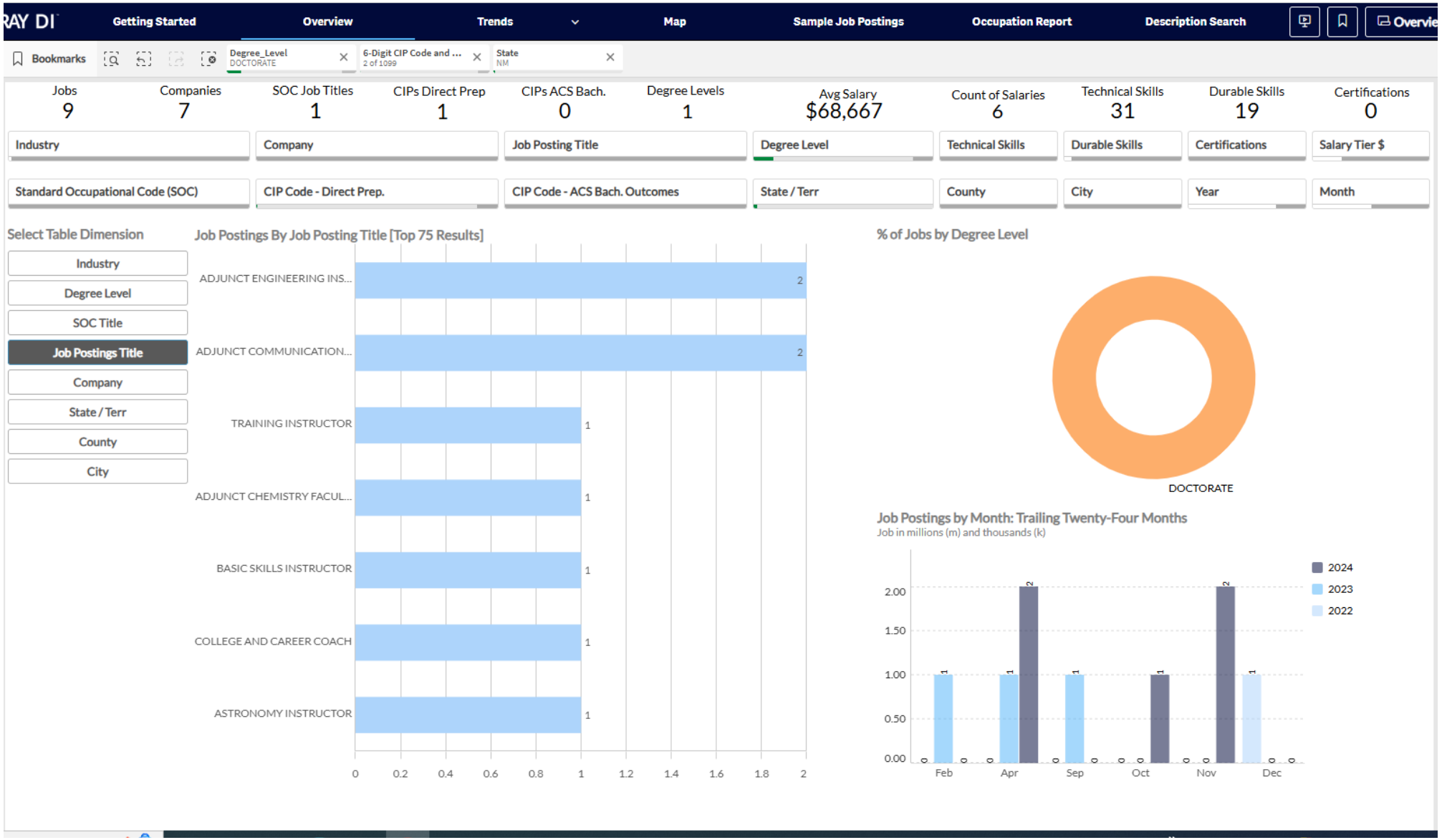
Total Enrollment (Spring 2024) By State



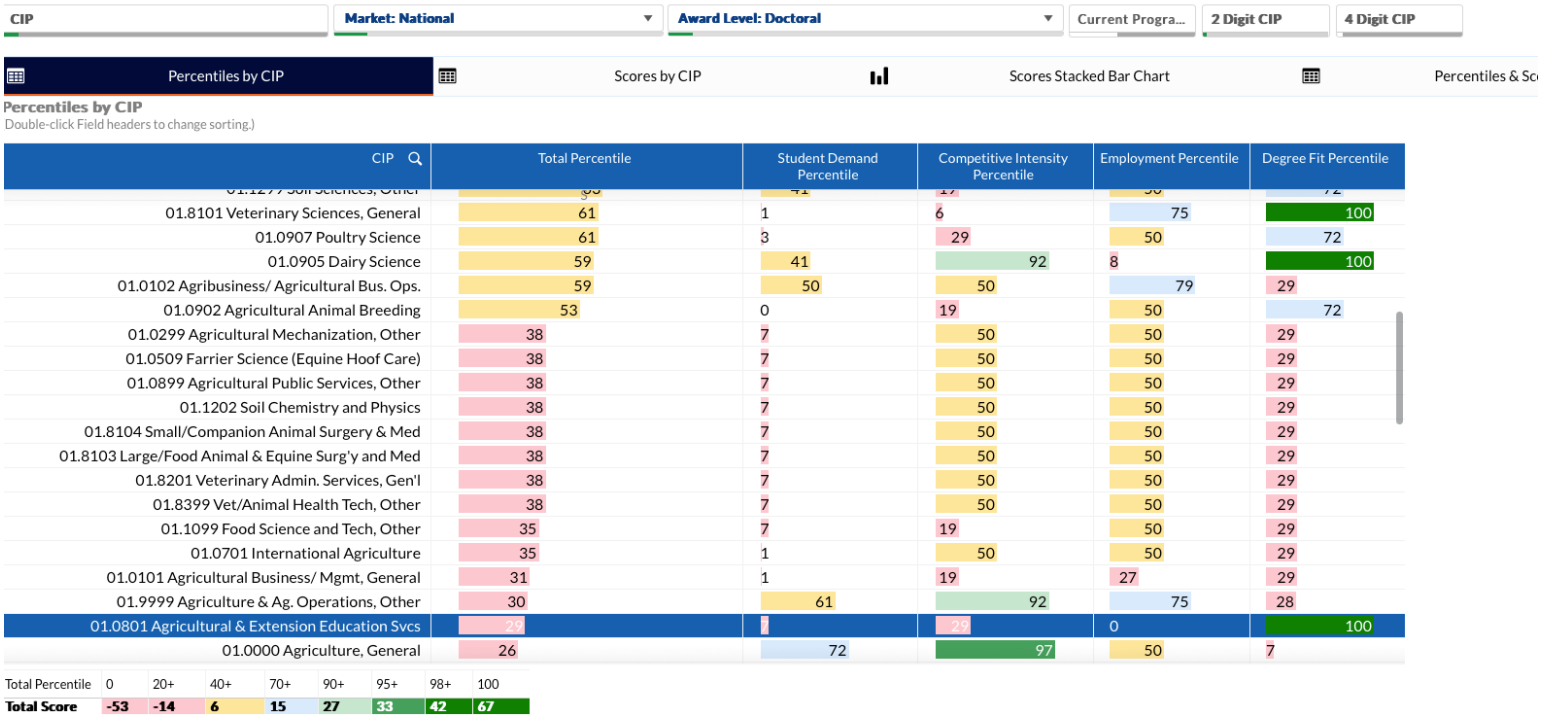
New Student Enrollment By Volume And State



*YoY = Year-over-year


RAY DI
Getting Started
Overview
Trends
Map
Sample Job Postings
Occupation Report
Description Search
Overvie
Bookmarks
Degree_Level
DOCTORATE
6-Digit CIP Code and ...
2 of 1099
State
NM
Jobs
9
Companies
7
SOC Job Titles
1
CIPs Direct Prep
1
CIPs ACS Bach.
0
Degree Levels
1
Avg Salary
$68,667
Count of Salaries
6
Technical Skills
31
Durable Skills
19
Certifications
0
Industry
Company
Job Posting Title
Degree Level
Technical Skills
Durable Skills
Certifications
Salary Tier $
Standard Occupational Code (SOC)
CIP Code - Direct Prep.
CIP Code - ACS Bach. Outcomes
State / Terr
County
City
Year
Month
Select Table Dimension
Industry
Degree Level
SOC Title
Job Postings Title
Company
State / Terr
County
City
Job Postings By Job Posting Title [Top 75 Results]
ADJUNCT ENGINEERING INS...
ADJUNCT COMMUNICATION...
TRAINING INSTRUCTOR
ADJUNCT CHEMISTRY FACUL...
BASIC SKILLS INSTRUCTOR
COLLEGE AND CAREER COACH
ASTRONOMY INSTRUCTOR
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
% of Jobs by Degree Level
DOCTORATE
Job Postings by Month: Trailing Twenty-Four Months
Job in millions (m) and thousands (k)
2024
2023
2022
2.00
1.50
1.00
0.50
0.00
Feb
Apr
Sep
Oct
Nov
Dec

Overview of O1 CIP Programs- National



CIP | Market: National | Award Level: Doctoral | Current Progra... | 2 Digit CIP | 4 Digit CIP

Percentiles by CIP | Scores by CIP | Scores Stacked Bar Chart | Percentiles & Sc

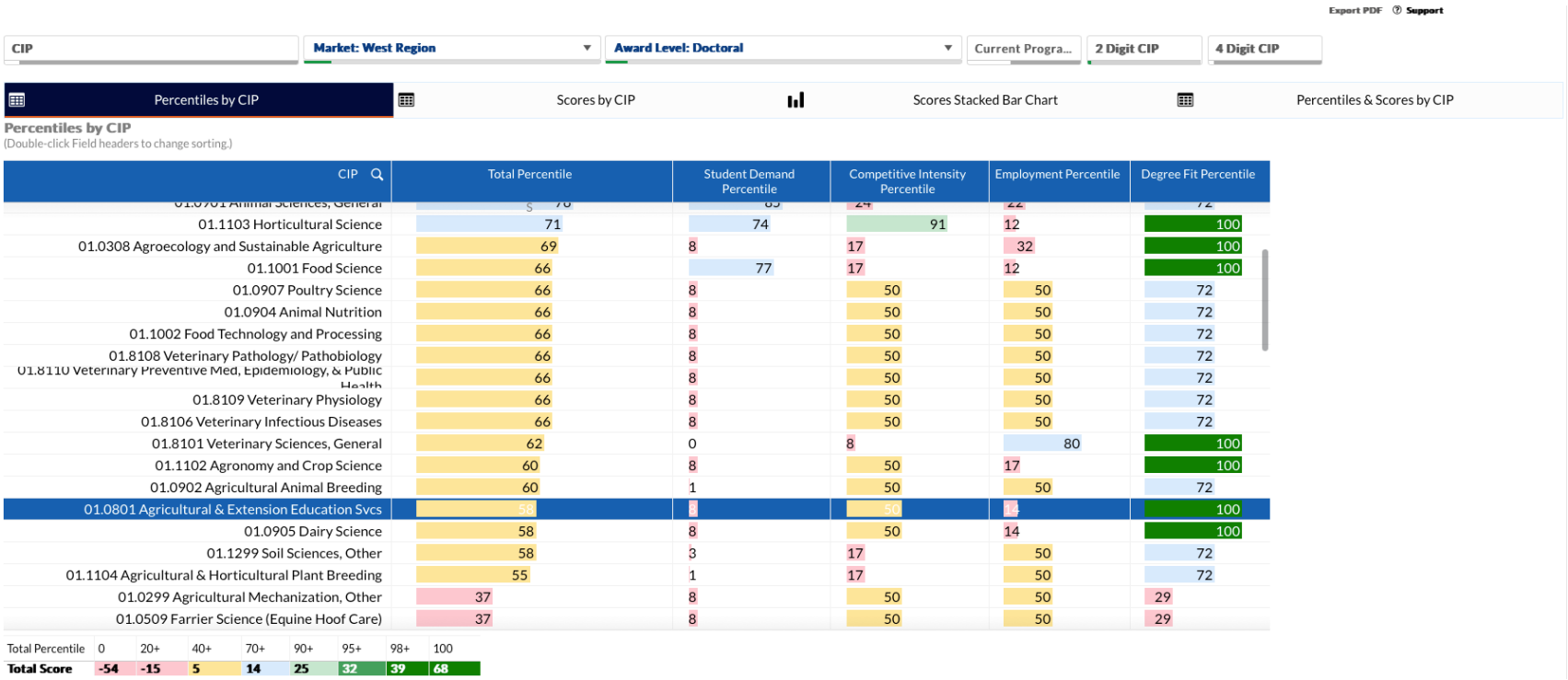
Percentiles by CIP

Double-click Field headers to change sorting.)

CIP	Total Percentile	Student Demand Percentile	Competitive Intensity Percentile	Employment Percentile	Degree Fit Percentile
01.8101 Veterinary Sciences, General	61	1	6	75	100
01.0907 Poultry Science	61	3	29	50	72
01.0905 Dairy Science	59	41	92	8	100
01.0102 Agribusiness/ Agricultural Bus. Ops.	59	50	50	79	29
01.0902 Agricultural Animal Breeding	53	0	19	50	72
01.0299 Agricultural Mechanization, Other	38	7	50	50	29
01.0509 Farrier Science (Equine Hoof Care)	38	7	50	50	29
01.0899 Agricultural Public Services, Other	38	7	50	50	29
01.1202 Soil Chemistry and Physics	38	7	50	50	29
01.8104 Small/Companion Animal Surgery & Med	38	7	50	50	29
01.8103 Large/Food Animal & Equine Surg'y and Med	38	7	50	50	29
01.8201 Veterinary Admin. Services, Gen'l	38	7	50	50	29
01.8399 Vet/Animal Health Tech, Other	38	7	50	50	29
01.1099 Food Science and Tech, Other	35	7	19	50	29
01.0701 International Agriculture	35	1	50	50	29
01.0101 Agricultural Business/ Mgmt, General	31	1	19	27	29
01.9999 Agriculture & Ag. Operations, Other	30	61	92	75	28
01.0801 Agricultural & Extension Education Svcs	28	1	29	0	100
01.0000 Agriculture, General	26	72	97	50	7

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	**-53**	**-14**	**6**	**15**	**27**	**33**	**42**	**67**

Overview of O1 CIP Programs- West



Export PDF Support

CIP | Market: West Region | Award Level: Doctoral | Current Progra... | 2 Digit CIP | 4 Digit CIP

Percentiles by CIP | Scores by CIP | Scores Stacked Bar Chart | Percentiles & Scores by CIP

Percentiles by CIP

(Double-click Field headers to change sorting.)

CIP	Total Percentile	Student Demand Percentile	Competitive Intensity Percentile	Employment Percentile	Degree Fit Percentile
01.0701 Animal Sciences, General	76	85	24	22	72
01.1103 Horticultural Science	71	74	91	12	100
01.0308 Agroecology and Sustainable Agriculture	69	8	17	32	100
01.1001 Food Science	66	77	17	12	100
01.0907 Poultry Science	66	8	50	50	72
01.0904 Animal Nutrition	66	8	50	50	72
01.1002 Food Technology and Processing	66	8	50	50	72
01.8108 Veterinary Pathology/ Pathobiology	66	8	50	50	72
01.8110 Veterinary Preventive Med, Epidemiology, & Public Health	66	8	50	50	72
01.8109 Veterinary Physiology	66	8	50	50	72
01.8106 Veterinary Infectious Diseases	66	8	50	50	72
01.8101 Veterinary Sciences, General	62	0	8	80	100
01.1102 Agronomy and Crop Science	60	8	50	17	100
01.0902 Agricultural Animal Breeding	60	1	50	50	72
01.0801 Agricultural & Extension Education Svcs	58	8	50	14	100
01.0905 Dairy Science	58	8	50	14	100
01.1299 Soil Sciences, Other	58	3	17	50	72
01.1104 Agricultural & Horticultural Plant Breeding	55	1	17	50	72
01.0299 Agricultural Mechanization, Other	37	8	50	50	29
01.0509 Farrier Science (Equine Hoof Care)	37	8	50	50	29

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	**-54**	**-15**	**5**	**14**	**25**	**32**	**39**	**68**

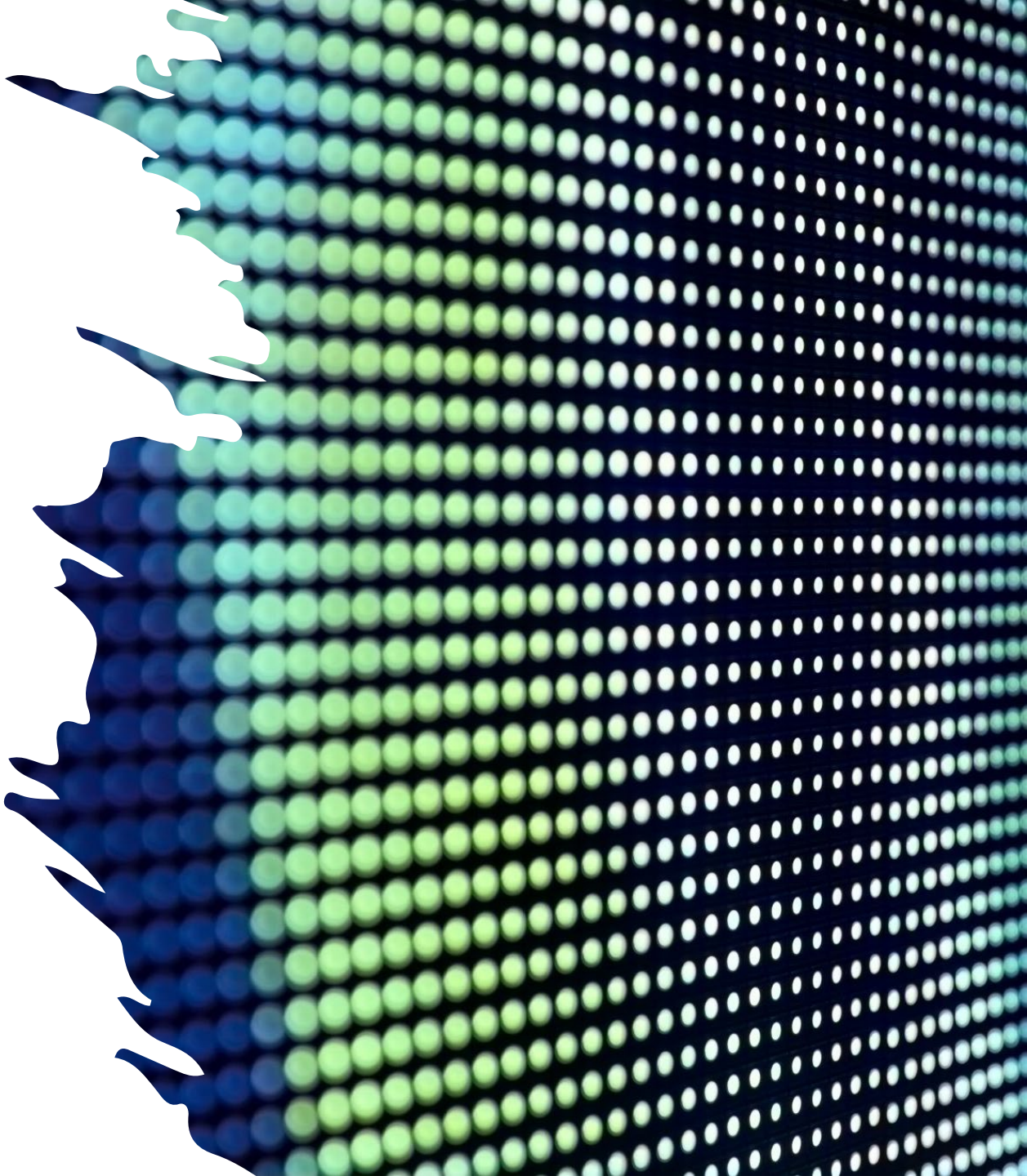
01.0801 Agriculture & Extension Services

- Completion volume is seeing a gradual increase
- Only 5 schools have completions in the USA and No schools in west have seen any completions so far.
- High employment demand in the west. 1 year BLS historic growth is one of the highest at 122%

01.0802 Agriculture Communication/Journalism

- No School is offering this program.
- No completions in the past 5 years.

01.0801, Grays Market Demand Data for New Ph.D Program Human Dimensions of Agriculture



- **Overall Program Ranking**
- **Program Summary**
- **Program Scorecard National, NM Market**
- **Completion Volume**
- **Institutional completions**

Overview of O1 CIP Programs- National

CIP | Award Level: Doctoral | Market: National | Program Group | 2 Digit CIP | 4 Digit CIP

Percentiles by CIP | Scores by CIP | Scores Stacked Bar Chart

Percentiles by CIP

(Double-click Field headers to change sorting.)

CIP	Total Percentile	Student Demand Percentile	Competitive Intensity Percentile	Employment Percentile	Degree Fit Percentile
01.8001 Veterinary Medicine	99	97	98	94	100
01.1102 Agronomy and Crop Science	91	83	90	85	100
01.1001 Food Science	90	94	50	83	100
01.1103 Horticultural Science	85	86	50	79	100
01.8107 Veterinary Micro/ Immunobiology	83	80	65	75	100
01.8101 Veterinary Sciences, General	83	57	77	83	100
01.1199 Plant Sciences, Other	82	83	50	70	100
01.1201 Soil Science and Agronomy, General	82	73	50	79	100
01.8108 Veterinary Pathology/ Pathobiology	82	68	77	75	100
01.1099 Food Science and Tech, Other	82	68	65	79	100
01.0801 Agricultural & Extension Education Svcs	82	57	50	83	100
01.1101 Plant Sciences, General	80	80	50	50	100
01.1299 Soil Sciences, Other	80	68	50	75	100
01.1104 Agricultural & Horticultural Plant Breeding	78	73	34	70	100
01.8106 Veterinary Infectious Diseases	78	50	50	75	100
01.0907 Poultry Science	77	57	50	63	100
01.0902 Agricultural Animal Breeding	76	68	34	63	100

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	**-60**	**-52**	**-17**	**0**	**21**	**32**	**42**	**70**

Overview of O1 CIP Programs- NM

CIP | Award Level: Doctoral | Market: New Mexico | Program Group | 2 Digit CIP | 4 Digit CIP

Percentiles by CIP | Scores by CIP | Scores Stacked Bar Chart

Percentiles by CIP

(Double-click Field headers to change sorting.)

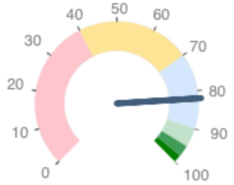
CIP	Total Percentile	Student Demand Percentile	Competitive Intensity Percentile	Employment Percentile	Degree Fit Percentile
01.8001 Veterinary Medicine	97	93	50	98	100
01.1102 Agronomy and Crop Science	93	96	64	79	100
01.0801 Agricultural & Extension Education Svcs	85	50	50	79	100
01.8101 Veterinary Sciences, General	85	50	50	79	100
01.1001 Food Science	82	50	50	70	100
01.1103 Horticultural Science	82	50	50	70	100
01.1201 Soil Science and Agronomy, General	82	50	50	70	100
01.0902 Agricultural Animal Breeding	79	50	50	63	100
01.0904 Animal Nutrition	79	50	50	63	100
01.0907 Poultry Science	79	50	50	63	100
01.1104 Agricultural & Horticultural Plant Breeding	79	50	50	63	100
01.1199 Plant Sciences, Other	79	50	50	63	100
01.1299 Soil Sciences, Other	79	50	50	63	100
01.8102 Comparative & Lab Animal Medicine	79	50	50	63	100
01.8106 Veterinary Infectious Diseases	79	50	50	63	100
01.8107 Veterinary Micro/ Immunobiology	79	50	50	63	100
01.8108 Veterinary Pathology/ Pathobiology	79	50	50	63	100

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	-59	-52	-18	-4	11	21	29	51

01.0801 Program Summary- National

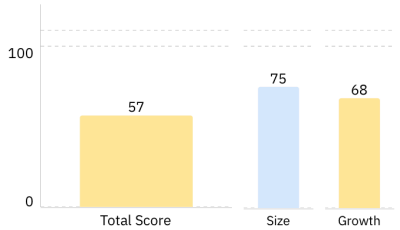
CIP: 01.0801 Agricultural & Extension Education Svcs | Award Level: Doctoral | Market: National | Select Program Group | Export PDF

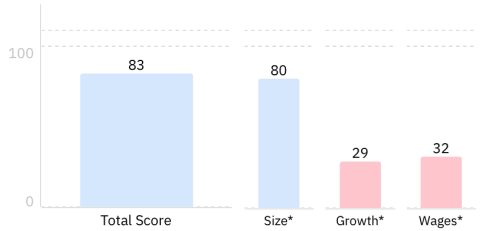
01.0801 Agricultural & Extension Education Svcs

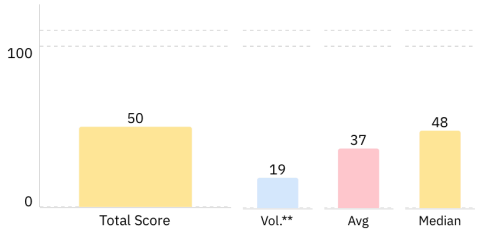


Percentile: 82

Percentile (vs. All IPEDS Programs)







Total Score

Total Score: The combined overall or category score percentile for the selected program.

Student Demand

Size: Number of annual conferred degrees from IPEDS for On-ground Students in Market and Online Students In-Market.

Growth: The year-over-year unit and percentage change in number of completions

Employment

Size: Bureau of Labor Statistics (BLS) estimate of the number of people employed in-market in occupations matched to each academic program based on actual graduate employment within 4 years after program completion

Growth: BLS' 3-year historic growth trends (Compound Annual Growth Rate) in relevant employment

Wages: Weighted-Average median wages for occupations held by program graduates 5 or more years after program completion, regardless of future degree attainment, by geography, as reported by BLS

Competitive Intensity

Volume**: The total number of competitors reporting IPEDS completions located in the market selected.

Avg: Average Completions by Local Institution: Total in-market on-campus completions / local institutions with graduates

Median: Median Completions by Local Institution: Size of 50th-percentile on-campus program in the market

CIP Description:

A program that prepares individuals to provide referral, consulting, technical assistance, and educational services to gardeners, farmers, ranchers, agribusinesses, and other organizations. Includes instruction in basic agricultural sciences, agricultural business operations, pest control, adult education methods, public relations, applicable state laws and regulations, and communication skills.

Award Level	National Completions
Certificate	0%
Associates	1%
Bachelors	39%
Postbaccalaureate Cert.	5%
Masters	49%
Post-masters Certificate	0%
Doctoral	6%

Award Level	BLS Educational Attainment
No College	5%
Some College	8%
Associates	5%
Bachelors	28%
Masters	46%
Doctoral	9%

Degree Fit

Percentile: 0+ | 40+ | 70+ | 90+ | 95+ | 98+

Percentile (Reverse): <02 | 02+ | 05+ | 10+ | 30+ | 60+

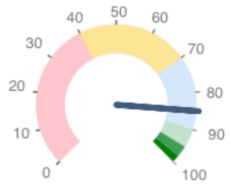
* Direct Prep Employment Metrics. ** Color scale in reverse.

GRAY DI

01.0801 Program Summary- NM

CIP: 01.0801 Agricultural & Extension Education Svcs | Award Level: Doctoral | Market: New Mexico | Select Program Group | Export PDF

01.0801 Agricultural & Extension Education Svcs

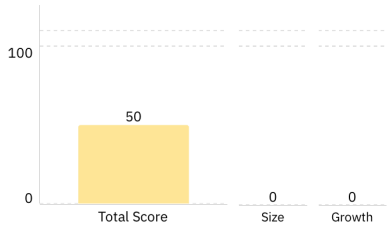


Percentile: 85

Total Score

Total Score: The combined overall or category score percentile for the selected program.

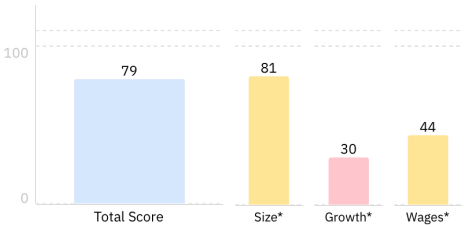
Percentile (vs. All IPEDS Programs)



Student Demand

Size: Number of annual conferred degrees from IPEDS for On-ground Students in Market and Online Students In-Market.

Growth: The year-over-year unit and percentage change in number of completions

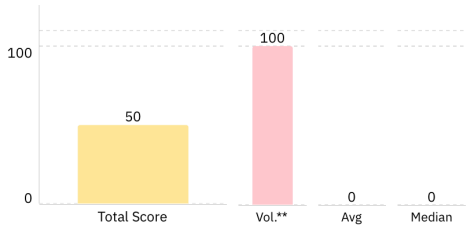


Employment

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Growth: BLS' 3-year historic growth trends (Compound Annual Growth Rate) in relevant employment

Wages: Weighted-Average median wages for occupations held by program graduates 5 or more years after program completion, regardless of future degree attainment, by geography, as reported by BLS



Competitive Intensity

Volume**: The total number of competitors reporting IPEDS completions located in the market selected.

Avg: Average Completions by Local Institution: Total in-market on-campus completions / local institutions with graduates

Median: Median Completions by Local Institution: Size of 50th-percentile on-campus program in the market

CIP Description:

A program that prepares individuals to provide referral, consulting, technical assistance, and educational services to gardeners, farmers, ranchers, agribusinesses, and other organizations. Includes instruction in basic agricultural sciences, agricultural business operations, pest control, adult education methods, public relations, applicable state laws and regulations, and communication skills.

Award Level	National Completions
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Masters	46%
Doctoral	9%

Degree Fit

Percentile: 0+ | 40+ | 70+ | 90+ | 95+ | 98+

Percentile (Reverse): <02 | 02+ | 05+ | 10+ | 30+ | 60+

* Direct Prep Employment Metrics. ** Color scale in reverse.

GRAY DI

01.0801 Scorecard- National

CIP: 01.0801 Agricultural & Extension Education Svcs | Award Level: Doctoral | Market: National | Select Program Group | Export PDF | AI Report | Support | View Definitions

CIP: 01.0801 Agricultural & Extension Education Svcs | **Award Level: Doctoral** | **Market: National** | **Total Score: 11** | **Percentile: 82**

Student Demand
Score: 1 Percentile: 57

Category	Pctl	Criterion	Value	Score
Size		Google Search Volume (12 Months)*	NA	NS
	0	International Page Views (12 Months)	0	NS
	80	New Student Enrollment Volume (12 Mo.)	63	1
	77	On-ground Completions at In-Market Institutions	19	0
	0	Online Completions by In-Market Students	0	0
	75	Sum of On-ground and Online Completions	19	0
Growth		Google Search YoY Change (Units)*	NA	NS
	84	New Student Enrollment Vol. YoY Change (Units)	3	0
	83	Completion Volume YoY Change (Units)	2	0
		Google Search YoY Change (%)*	NA	NS
	63	New Student Enrollment Vol. YoY Change (%)	5%	0
	68	Completion Volume YoY Change (%)	12%	0

Competitive Intensity
Score: 4 Percentile: 50

Category	Pctl	Criterion	Value	Score
Volume of In-Market Competition	19	Campuses with Graduates**	6	4
	6	Campuses with Grads YoY Change (Units)**	1	NS
	100	Institutions with Online In-Market Students**	0	0
In-Market Program Sizes	37	Average Program Completions	3	0
	48	Median Program Completions	3	0
	69	YoY Median Prog. Compl. Change (Units)	0	0
	69	YoY Median Prog. Compl. Change (%)	0	0
In-Market Saturation		Google Search * Cost per Click**	NA	NS
		Google Competition Index**	NA	NS
National Online Competition	100	National Online Institutions (Units)**	0	NS
	0	Nat'l Online % of Institutions	0	NS
	0	Nat'l Online % of Completions	0	NS

* - Google search do not filter by award level.
** - Percentiles are displayed in reverse (100% minus the percentile).
NA - No data available/not currently tracked.
NS - Not Scored in Rubrics (values = 0).
PCTL - Percentile

Employment
Score: 6 Percentile: 83

Category	Pctl	Criterion	Value	Score
Size: Entry Jobs	83	Job Postings Total (12 Months)	45	1
	80	BLS Current Employment	257	0
	77	BLS Annual Job Openings	14	0
Underemployed	98	Underemployed Percent of Graduates**	17%	3
Growth: Entry Jobs	1	BLS 1-Year Historical Growth	0.0%	0
	29	BLS 3-Year Historic Growth (CAGR)	2.9%	0
	95	BLS 10-Year Future Growth (CAGR)	1.4%	1
Saturation: Entry Jobs	88	Job Postings per Graduate	2.4	1
	58	BLS Job Openings per Graduate	0.7	0
Weighted-Avg BLS Wages	12	Entry 25th Percentile	$75,619	0
	32	Post Entry Median	$107,574	0
		Post Entry w/Associates Median	NA	NS
		Post Entry w/Bachelors Median	NA	NS
		Post Entry w/Masters Median	NA	NS
	32	Post Entry w/Doctoral Median	$107,574	NS
National American Community Survey Bachelor's Degree Outcomes*	51	% with Any Graduate Degree*	39%	NS
	60	% with Masters*	29%	NS
	63	% with Doct/Prof Degree*	11%	NS
	91	% Unemp. (Age <30)**	1%	NS
	0	% in Direct Prep Jobs*	0	NS

-- IPEDS Demographics (Not Scored) ----------

Category	Pctl	Criterion	This Program In-Market	All Programs In-Market
IPEDS Gender	32	Female	47%	58%
	67	Male	53%	42%
IPEDS Ethnicity	0	American Indian or Alaska Native	0	0%
	62	Asian	5%	12%
	62	Black or African American	5%	8%
	78	Hispanic or Latino	11%	10%
	0	Native Hawaiian or Other Pacific Islander	0	0%
	66	White	53%	49%
	40	International	16%	12%
	80	Other/Unknown	11%	9%

Degree Fit
Score: 0 Percentile: 100

Category	Pctl	Criterion	Value	Score
Cost Benchmarking		Average Cost per SCH Index**	NA	NS
		Median Cost per SCH Index**	NA	NS

National Completions by Level
Score: 0

National Workforce Ed. Attainment
Score: 0

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)	BLS Educational Attainment
No College				5%
Some College				8%
Certificate	0%	0%	0%	
Associates	1%	1%	1%	5%
Bachelors	39%	39%	24%	28%
Postbaccalaureate Certificate	5%	5%	1%	
Masters	49%	49%	59%	46%
Post-masters Certificate	0%	0%	3%	
Doctoral	6%	6%	11%	9%

CIP Description:
A program that prepares individuals to provide referral, consulting, technical assistance, and educational services to gardeners, farmers, ranchers, agribusinesses, and other organizations. Includes instruction in basic agricultural sciences, agricultural business operations, pest control, adult education methods, public relations, applicable state laws and regulations, and communication skills.

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	-60	-52	-17	0	21	32	42	70

a72430af-8c48-4e10-afc2-da2d8bcb958d PES Markets New Mexico State University

GRAY DI

01.0801 Scorecard - NM

CIP: 01.0801 Agricultural & Extension Education Svcs | Award Level: Doctoral | Market: New Mexico | Select Program Group | Export PDF | AI Report | Support | View Definitions

CIP: 01.0801 Agricultural & Extension Education Svcs | **Award Level: Doctoral** | **Market: New Mexico** | **Total Score: 5** | **Percentile: 85**

Student Demand
Score: 1 Percentile: 50

Category	Pctl	Criterion	Value	Score
Size		Google Search Volume (12 Months)*	NA	NS
	0	International Page Views (12 Months)	0	NS
	0	New Student Enrollment Volume (12 Mo.)	0	0
	0	On-ground Completions at In-Market Institutions	0	0
	0	Online Completions by In-Market Students	0	0
	0	Sum of On-ground and Online Completions	0	0
Growth		Google Search YoY Change (Units)*	NA	NS
	93	New Student Enrollment Vol. YoY Change (Units)	0	1
	50	Completion Volume YoY Change (Units)	0	0
		Google Search YoY Change (%)*	NA	NS
		New Student Enrollment Vol. YoY Change (%)	NA	NS
		Completion Volume YoY Change (%)	NA	NS

Competitive Intensity
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Volume of In-Market Competition	100	Campuses with Graduates**	0	0
	50	Campuses with Grads YoY Change (Units)**	0	NS
	100	Institutions with Online In-Market Students**	0	0
In-Market Program Sizes		Average Program Completions	NA	NS
		Median Program Completions	NA	NS
		YoY Median Prog. Compl. Change (Units)	NA	NS
		YoY Median Prog. Compl. Change (%)	NA	NS
In-Market Saturation		Google Search " Cost per Click**	NA	NS
		Google Competition Index**	NA	NS
National Online Competition	100	National Online Institutions (Units)**	0	NS
	0	Nat'l Online % of Institutions	0	NS
	0	Nat'l Online % of Completions	0	NS

* - Google search do not filter by award level.
** - Percentiles are displayed in reverse (100% minus the percentile).
NA - No data available/not currently tracked.
NS - Not Scored in Rubrics (values = 0).
PCTL - Percentile

Employment
Score: 4 Percentile: 79

Category	Pctl	Criterion	Value	Score
Size: Entry Jobs	0	Job Postings Total (12 Months)	0	0
	81	BLS Current Employment	1	0
	0	BLS Annual Job Openings	0	0
Underemployed	98	Underemployed Percent of Graduates**	17%	3
Growth: Entry Jobs	1	BLS 1-Year Historical Growth	-18.7%	0
	30	BLS 3-Year Historic Growth (CAGR)	-4.8%	0
	97	BLS 10-Year Future Growth (CAGR)	1.2%	1
Saturation: Entry Jobs		Job Postings per Graduate	NA	NS
		BLS Job Openings per Graduate	NA	NS
Weighted-Avg BLS Wages	34	Entry 25th Percentile	$66,197	0
	44	Post Entry Median	$93,401	0
		Post Entry w/Associates Median	NA	NS
		Post Entry w/Bachelors Median	NA	NS
		Post Entry w/Masters Median	NA	NS
	44	Post Entry w/Doctoral Median	$93,401	NS
National American Community Survey Bachelor's Degree Outcomes*	51	% with Any Graduate Degree*	39%	NS
	60	% with Masters*	29%	NS
	63	% with Doct/Prof Degree*	11%	NS
	91	% Unemp. (Age <30)**	1%	NS
	0	% in Direct Prep Jobs*	0	NS

-- IPEDS Demographics (Not Scored) ----------

Category	Pctl	Criterion	This Program In-Market	All Programs In-Market
IPEDS Gender		Female	NA	54%
		Male	NA	46%
IPEDS Ethnicity		American Indian or Alaska Native	NA	0%
		Asian	NA	8%
		Black or African American	NA	4%
		Hispanic or Latino	NA	24%
		Native Hawaiian or Other Pacific Islander	NA	0%
		White	NA	38%
		International	NA	14%
		Other/Unknown	NA	9%

Degree Fit
Score: 0 Percentile: 100

Category	Pctl	Criterion	Value	Score
Cost Benchmarking		Average Cost per SCH Index**	NA	NS
		Median Cost per SCH Index**	NA	NS

National Completions by Level
Score: 0

National Workforce Ed. Attainment
Score: 0

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)	BLS Educational Attainment
No College				5%
Some College				8%
Certificate	0%		0%	
Associates	1%		0%	5%
Bachelors	39%		100%	28%
Postbaccalaureate Certificate	5%		0%	
Masters	49%		0%	46%
Post-masters Certificate	0%		0%	
Doctoral	6%		0%	9%

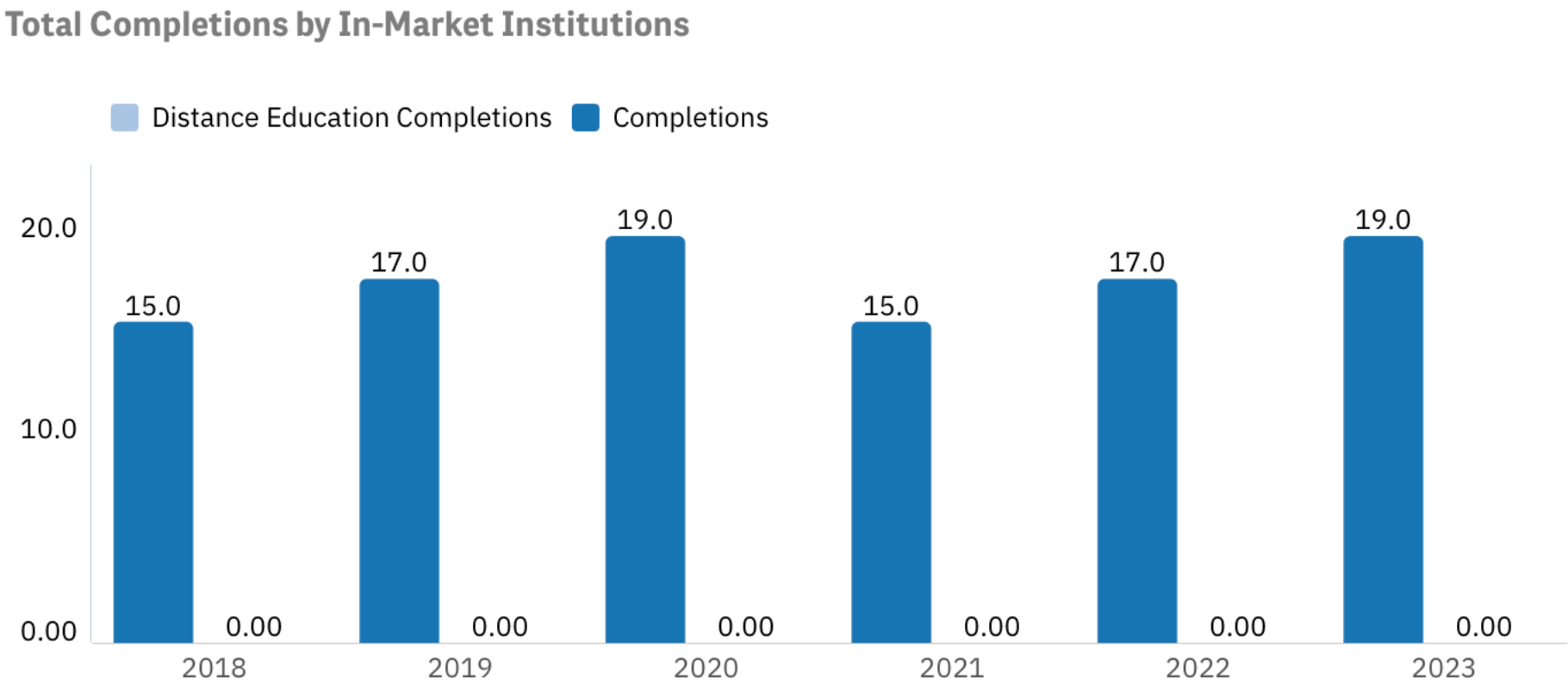
CIP Description:
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Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	-59	-52	-18	-4	11	21	29	51

a72430af-8c48-4e10-afc2-da2d8bcb958d PES Markets New Mexico State University

GRAY DI

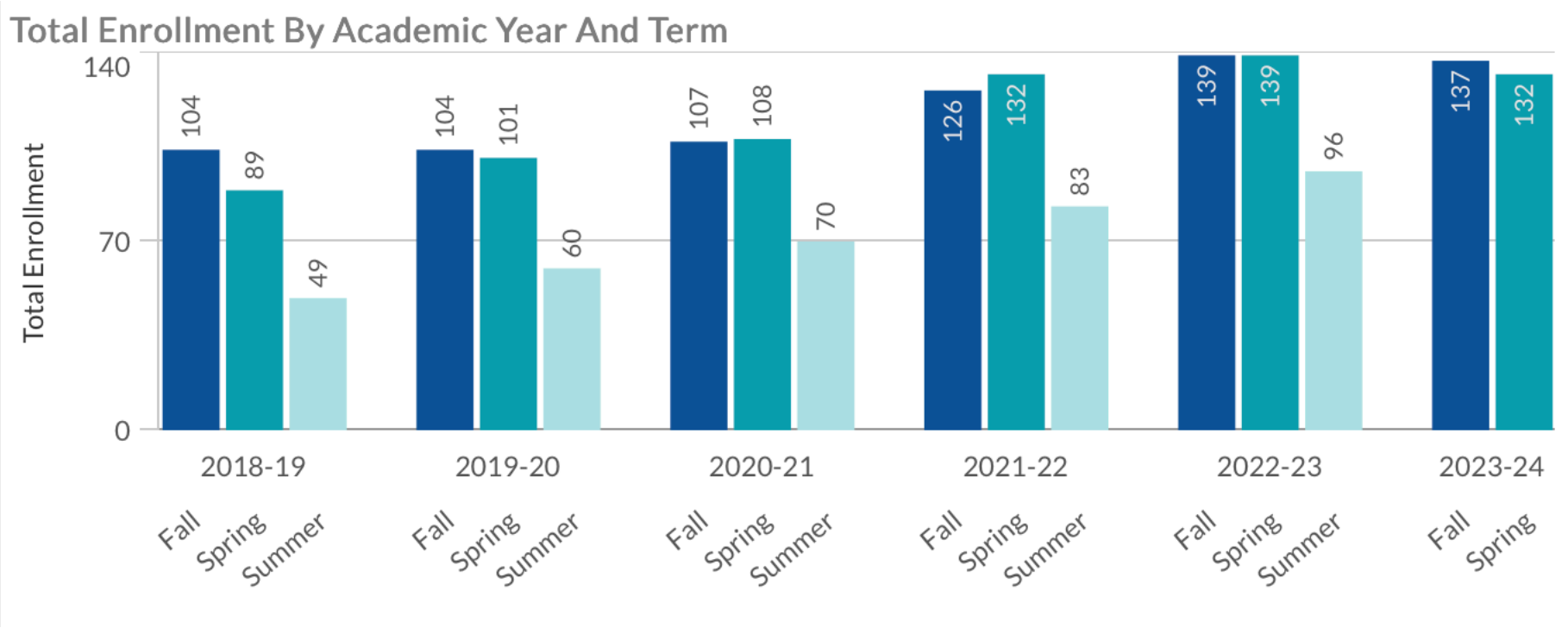
01.0801Completions - National



01.0801Institutional Completions - National

Institution	Award Level	2020 Completions	2021 Completions	2022 Completions	2023 Completions
Iowa State University	Doctoral	0	0	2	1
Louisiana State University System	Doctoral	4	4	9	2
Penn State	Doctoral	3	3	1	4
Purdue University	Doctoral	6	2	2	0
Texas Tech University System	Doctoral	4	4	0	5
University of North Carolina	Doctoral	2	2	3	5
University System of Georgia	Doctoral	0	0	0	2

01.0801 Enrollment- National



Take Aways

01.0801

- Top 3rd Phd program in NM market in 01 CIP code.
- Steady completion trend
- 6 institutions have at least 1 completion every year.
- Steady Enrollment

1 Summary of Costs and Benefits

1.1 Projected Costs

1.1.1 Additional Faculty Needed for the Program

No additional faculty is needed.

1.1.2 Additional Library Resources Needed for the Program

No new library resources are required to support the offering of this program. Library resources are currently available at the NMSU system. The resources are sufficient to support this program.

1.1.3 Additional Facilities, Equipment and Technological Resources

No new equipment is required to support the offering of this program. Equipment currently available at the participating departments within NMSU is sufficient to fully support the launch and initial phases of this program. As the program grows, it is expected that new equipment/funds will be required to ensure new/updated equipment.

1.1.4 New Graduate Assistantships Needed to Support the Program

Dr. Carol Flinchbaugh, Interim Associate Dean of the NMSU Graduate School pledged two PhD graduate assistantships to support the start-up of the program. The College of ACES currently provides three assistantships for Masters' students that will be converted to PhD assistantships when the program commences. We will include doctoral assistantships in future external grants submitted for funding. The AXED department currently have two grants which will support graduate assistantship for doctoral students. Faculty will include doctoral assistantship support in all future grant proposals. Organizations for future proposals include:

USDA-NIFA
USDA-NIFA-AFRI
USDA Hispanic Serving Institutions (HSI)
WSAER (USDA)
National Science Foundation (NSF)
New Mexico Department of Agriculture (NMDA)
Kellogg Foundation

1.2 Projected Benefits

1.2.1 Financial Benefit

The following table illustrates the total revenues in terms of tuition and fees conservatively estimated based on an average enrollment of 9 credit hours per fall and spring semesters based on resident graduate students paying $345.46 per graduate credit hour in tuition.

Program Year	Enrollment	Net Earnings
1	5	$31,091.00
2	10	$62,183.00
3	15	$93,274.00
4	15	$93,274.00
5	15	$93,274.00
5-year Total		$373,096.00

Table 1: Projected enrollment and earnings totals. No additional expenses required to fulfill program objectives and goals as explained in narrative

1.2.2 Benefits to the State of New Mexico

New Mexico or any states in the western region of the U.S. currently do not offer a PhD program in the social sciences of agriculture. This is a challenge for students in the region wishing to pursue graduate degrees in this field beyond the masters' level. The absence of a doctoral degree in the social sciences of agriculture in New Mexico, leaves interested NMSU graduates and New Mexico residents to search for a program out-of-state. The PhD in the Human Dimensions of Agriculture is intended to provide to provide skills and experience to develop individuals ability to work with people and the complexities of agricultural sciences.

There are numerous agricultural agencies who would benefit greatly from this type of program. These benefits our outlined in the letters of support with the following two excerpts used for illustration.

Dr. Jon Boren, Associate Dean and Director of the New Mexico Cooperative Extension Service stated: The Cooperative Extensions Service in New Mexico would benefit greatly from this program as our Cooperative Extension agents are all employed as faculty of NMSU and this would allow for advancement in their Extension careers. As tenured faculty being able to earn a Ph.D., this would benefit both the individual agents and well as the clientele they serve in New Mexico. There is extreme shortage of qualified individuals to move into administrative roles in the Cooperative Extension Service, both in New Mexico and throughout the nation. The supply does not meet the demand. As an example, in a recent search for an Associate Director of Extension at New Mexico State University, we had one qualified candidate to interview. In order to work as a Specialist within the Cooperative Extension Services and provide content expertise at the state level, a doctoral degree in a related field is required.

Jeff Witte, Director-Secretary of the New Mexico Department of Agriculture added: NMSU is well positioned for this type of Ph.D. program and it is needed. New Mexico agriculture is one of the most diverse, not only in what we grow, but in who our producers are. As a state with the second oldest agricultural population in the nation, we will see a transition to the next generation in the future years. This live test bed will be a prime opportunity to train and educate our next generation of educators, researchers and extension specialists to better serve our diverse constituents. The additional education and experience received from the core curriculum will prepare and position NMSU students to appropriately serve our communities.

Dr. Kalynn Baldock, Department Chair of Agriculture, Food Science, and Kinesiology and Eastern New Mexico University in her letter of support: In New Mexico, there is no Ph.D. program for students focused on agricultural education, leadership, communications, and extension.

Students wishing to pursue a higher degree must leave the state of New Mexico. Formally, I was one of these students. Born and raised in New Mexico, I had to find one out of-state when I began searching for doctoral programs. If an option had been available within the state, I would have been able to lessen some of the financial burden of obtaining my doctorate. By having a program here in the state of New Mexico, there is the possibility for more of these students to remain in the state. Having options within the state will help to alleviate some of the cost burden associated with going out of state to obtain a degree.

A successful program would be key to NMSU reaching Carnegie research status of R1. The four goals of NMSU's LEADS 2025 are fundamentally grounded in serving the broader interests of the state of New Mexico. NMSU is uniquely positioned to address issues within the Human Dimensions of Agriculture.

The National Association of Agricultural Educators in a report on the Job Outlook for Individuals with a PhD in Agricultural Education identified eight potential career paths and job outlook considerations:

1. **Academic Careers**: The demand for faculty positions in Agricultural Education can fluctuate, but there is a consistent need for educators and researchers in this field. Competition for tenure-track positions may be high, but opportunities exist in both teaching and research roles.
2. **Extension Education**: Agricultural extension agents and specialists play a crucial role in disseminating research-based information to farmers, ranchers, and the agricultural community. With a PhD, individuals have opportunities to lead extension programs, conduct applied research, and provide training and education to the agricultural workforce.
3. **Government and Regulatory Agencies**: State and federal government agencies often hire individuals with expertise in agricultural education to develop and implement agricultural policies, programs, and regulations.
4. **Nonprofit Organizations**: Nonprofit organizations focused on agriculture, sustainability, and rural development may employ individuals with a PhD in Agricultural education to lead educational initiatives, advocacy efforts, and research projects.
5. **Industry and Private Sector**: Some individuals with a PhD in Agricultural Education work in the private sector particularly in roles related to marketing, communications, and training. Companies involved in agricultural products and services may hire experts to educate employees, clients, and stakeholders.
6. **Consulting**: Another area for agricultural education PhD holders is to work as consultants, offering their expertise to various organizations, including farms, agricultural businesses, and government agencies. Consulting provides opportunities for a diverse range of projects and clients.
7. **Research Institutions**: Research institutions, such as agricultural experiment stations, think tanks, seek experts with advanced degrees to conduct research, analyze data, and publish findings that contribute to the advancement of agricultural knowledge.
8. **International Development**: PhD graduates in Agricultural Education many times pursue careers in international development, working with organizations like USAID to improve agricultural practices and education in developing countries.

All eight of the identified careers paths are applicable in the State of New Mexico, especially in regard to our location on the border and the opportunity for international development with Mexico and Central America.

New Mexico Agricultural Education

Educating Today's Youth for Tomorrow's Agriculture Industry

PO Box 30003, MSC FFA • 3080 S. Espina • Las Cruces, New Mexico • 88003-8003

Phone: (575) 646-3036 • Fax: (575) 646-4285 • Email: nmffa@nmsu.edu

June 9, 2023

To whom it may concern,

This letter signifies my support of the New Mexico State College of Agricultural, Consumer, and Environmental Sciences (ACES) Department of Agricultural and Extension Education's proposed doctoral program in The Human Dimensions of Agriculture.

Agriculture Education is used across a wide range of agricultural industry settings and is constantly changing. Preparing students with the knowledge and skills to help design, maintain, and repair agricultural systems must be a critical component of Agricultural Education programs. Educators must be aware of the college and career opportunities in these areas to better stimulate educational student interest in pursuing these careers in the food, fiber, and protein agriculture industries nationwide. Qualified teachers are needed to successfully lead students through their educational experiences. However, many teachers lack the requisite preparation and resources to prepare students for today's and tomorrow's opportunities. This project will target and serve Agricultural Education educators, particularly those who come from non-traditional, underrepresented minority populations, with engagement in immersive, project-based educational techniques in various occupational fields. The students in this program will undergo high-quality instruction and receive numerous resources to take back to their local communities. The approach outlined in the Human Dimensions of Agriculture program will address essential needs in our country, particularly in helping to combat the educational challenges facing rural New Mexico and America.

As the Supervisor of Agricultural Education and State FFA Advisor for the State of New Mexico, I will support this program by encouraging professionals in the agricultural industry among Agricultural Education teachers and Extension personnel across the United States to reach their maximum outreach potential for their communities. I believe that this program will be valuable, and I will, to the best of my ability, assist the Department of Agricultural and Extension Education in meeting the objectives of this new program in The Human Dimensions of Agriculture. Thank you for your time and consideration of this program.

Sincerely,

Gary Aycock

Supervisor of Agricultural Education and State FFA Advisor

rga@nmsu.edu

College of Agricultural, Consumer
and Environmental Sciences
Cooperative Extension Service
Office of the Associate Dean and Director
MSC 3AE
New Mexico State University
P.O. Box 30003
Las Cruces, NM 88003-8003
575-646-3015, fax: 575-646-7042

June 1, 2023

This letter is written is support of the proposed Ph.D. in the Human Dimensions in Agriculture being proposed by the Department of Agricultural and Extension Education here at NMSU. The Human Dimensions or the Social Sciences of Agriculture include the disciplines of education, Extension, communications, and leadership. Any of these four elements are relative for individuals serving as Cooperative Extension agents.

The Cooperative Extensions Service in New Mexico would benefit greatly from this program as our Cooperative Extension agents are all employed as faculty of NMSU and this would allow for advancement in their Extension careers. As tenured faculty being able to earn a Ph.D., this would benefit both the individual agents and well as the clientele they serve in New Mexico.

There is extreme shortage of qualified individuals to move into administrative roles in the Cooperative Extension Service, both in New Mexico and throughout the nation. The supply does not meet the demand. As an example, in a recent search for an Associate Director of Extension at New Mexico State University, we had one qualified candidate to interview.

As the Director for the New Mexico Cooperative Extension Service in the College of Agricultural, Consumer and Environmental Sciences, I recognize the need for this type of program here in the state of New Mexico and well as across the National Cooperative Extension system. If I can provide more information on the need for the Ph.D. in the Human Dimensions of Agriculture, do not hesitate to contact me.

Sincerely,



Jon Boren
Associate Dean and Director
Cooperative Extension Service

New Mexico State University is an equal opportunity/affirmative action employer and educator.
NMSU and the U.S. Department of Agriculture cooperating.

NEW MEXICO DEPARTMENT OF AGRICULTURE
Office of the Director/Secretary
MSC 3189
New Mexico State University
P.O. Box 30005
Las Cruces, NM 88003-8005
Phone: (575) 646-3007

June 23, 2023

Steven D. Fraze, Ph.D., Department Head, Agricultural and Extension Education
New Mexico State University
P.O. Box 30003
Las Cruces, NM 88003

Dear Dr. Fraze:

I am excited about the proposed Doctor of Philosophy in Human Dimensions of Agriculture (Education, Extension Communication and Innovation) that is being developed by NMSU College of Agriculture, Environmental, and Consumer Sciences. This program will afford professionals the opportunity to develop and enhance their core skill set to improve and serve, not only the agriculture community, but those who may work in the economic sectors supporting all rural communities.

NMSU is well positioned for this type of Ph.D. program and it is needed. New Mexico agriculture is one of the most diverse, not only in what we grow, but in who our producers are. As a state with the second oldest agricultural population in the nation, we will see a transition to the next generation in the future years. This live test bed will be a prime opportunity to train and educate our next generation of educators, researchers and extension specialists to better serve our divers constituents. The additional education and experience received from the core curriculum will prepare and position NMSU students to appropriately serve our communities.

This is an exciting proposal that will establish academic prominence at NMSU in an area that is needed across the nation. I encourage you to support and recommend approval of this program.

Sincerely,

Jeff M. Witte
Director-Secretary
NMDA

College of Agricultural, Consumer and Environmental Sciences
Office of the Dean and Chief Administrative Officer
MSC 3AG
New Mexico State University
P.O. Box 30003
Las Cruces, NM 88003-8003
575-646-3748, fax: 575-646-5975
agdean@nmsu.edu

June 20, 2023

To Whom It May Concern,

I am writing this letter as the Dean of the College of Agricultural, Consumer and Environmental Sciences of NMSU in support of the PhD in the Human Dimensions in Agriculture proposed program developed by the Department of Agricultural & Extension Education. As a Land Grant institution, we are lacking in a graduate program for the social sciences of agriculture. There is currently a severe shortage of individuals within the system holding a doctorate in this area. This includes the Cooperative Extension Service and the United States Department of Agriculture. This shortage extends beyond the borders of New Mexico, especially in the Western region of the United States.

This program will allow for the expansion of a social science program to assist ACES and NMSU with our pursuit of return to Carnegie R1 research classification. It will also fill a critical need to provide doctoral training that is not currently available in the state. The mission of the College of ACES is based on four pillars for Economic and Community Development. The pillars include Food and Fiber Production and Marketing, Water Use and Conservation, Family Development and Health of New Mexicans, and Environmental Stewardship. These pillars are all supported on a Foundation of Education and Training. This program will support the Foundation of the Mission of ACES.

The Department of Agricultural and Extension Education has been completely restructured since January of 2020 with a new department head and a total of eight faculty which includes the Associate Dean for Research and the Associate Director for Extension. This faculty is very engaged and committed to supporting the mission of NMSU, the College of ACES, and the Land Grant System. I believe this program will contribute to all Four Goals of LEADS 2025 to (1) Enhance Student Success and Social Mobility, (2) Elevate Research and Creativity, (3) Amplify Extension and Outreach, and (4) Build a Robust University System.

This proposed program has my full support plus a commitment of a graduate assistantships if approved. This program will not require any funding for faculty or equipment. If I can provide further information on my support of the proposed PhD in the Human Dimensions of Agriculture, please do not hesitate to ask.

Rolando A. Flores Galarza
Dean & Chief Administrative Officer

College of Agricultural, Consumer and Environmental Sciences
Office of the Dean and Chief Administrative Officer
MSC 3AG
New Mexico State University
P.O. Box 30003
Las Cruces, NM 88003-8003
575-646-3748, fax: 575-646-5975
agdean@nmsu.edu

June 20, 2023

NMSU Graduate Program Approvals,

I am writing this letter as the Dean of the College of Agricultural, Consumer and Environmental Sciences of NMSU in support of the PhD in the Human Dimensions in Agriculture proposed program developed by the Department of Agricultural & Extension Education. As a Land Grant institution, we are lacking in a graduate program for the social sciences of agriculture. There is currently a severe shortage of individuals within the system holding a doctorate in this area. This includes the Cooperative Extension Service and the United States Department of Agriculture. This shortage extends beyond the borders of New Mexico, especially in the Western region of the United States.

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This proposed program has my full support plus a commitment of a graduate assistantships if approved. This program will not require any funding for faculty or equipment. If I can provide further information on my support of the proposed PhD in the Human Dimensions of Agriculture, please do not hesitate to ask.

Rolando A. Flores Galarza
Dean & Chief Administrative Officer

College of Agricultural, Consumer
and Environmental Sciences
Cooperative Extension Service
Office of the Associate Dean and Director
MSC 3AE
New Mexico State University
P.O. Box 30003
Las Cruces, NM 88003-8003
575-646-3015, fax: 575-646-7042

June 28, 2023

To whom it may concern,

This letter signifies my support for the doctoral program in the Human Sciences Dimensions of Agriculture at New Mexico State University's, College of Agricultural, Consumer and Environmental Sciences (ACES), Department of Agricultural and Extension Education.

The College is a firm believer in the Kaizen Mindset, which centers on the commitment to continuous improvement. The Cooperative Extension Service at New Mexico State University would benefit tremendously from this program. Its existence would afford our extension educators and professionals an opportunity to pursue a terminal degree and advance in their careers.

Serving as a tenured faculty member in the Department of Agricultural and Extension Education as well as the Associate Director for the Cooperative Extension Service affords me the privilege to recognize the value of such a program addition for the university. I proudly support the efforts of my colleagues in their pursuit of the doctoral program in the Human Dimensions of Agriculture.

Sincerely,

Allen A. Malone, Ed.D.
Associate Director
Cooperative Extension Service
New Mexico State University

New Mexico State University is an equal opportunity/affirmative action employer and educator.
NMSU and the U.S. Department of Agriculture cooperating.

Digital Learning
MSC 3IIQ
New Mexico State University
P.O. Box 30001
Las Cruces, NM 88003-8001
575-646-1650

June 28, 2023

Subject: NMSU Global Campus Letter of Support for Human Dimensions of Agriculture (Education, Extension, Communication & Innovation)

To Whom It May Concern:

I am writing on behalf of NMSU Global Campus to express our full support for the design, development, and implementation of this new program, Human Dimensions of Agriculture. This includes any funding that may be necessary to develop, revise, or deliver associated online courses throughout the duration of this program.

NMSU Global Campus recognizes the growing importance of fostering experts within the multidimensional field of Agriculture. To ensure the seamless delivery of the developed program, NMSU Global Campus is fully committed to maintaining the required infrastructure. We understand the significance of providing a robust framework to support the transmission of knowledge effectively. By leveraging our existing resources and expertise, we will work in collaboration with the College of Agricultural, Consumer, and Environmental Sciences (ACES).

In summary, NMSU Global Campus enthusiastically supports the development of this program. We firmly believe that by working together, we can ensure the delivery of a high-quality online program. We look forward to collaborating and advancing the field of agriculture.

Should you require any additional information, please do not hesitate to contact me at kollmann@nmsu.edu. We are excited about the potential of this program.

Sincerely,

Sherry Kollmann, PhD
Associate Vice Chancellor, Digital Learning

College of Agricultural, Consumer
and Environmental Sciences
Agricultural Experiment Station
Agricultural Science Center at Farmington
P.O. Box 1018
Farmington, NM 87499-1018
505-960-7757, fax: 505-960-5246
farmingt@nmsu.edu

June 28, 2023

Dr. Steve Fraze
Department of Department of Agricultural & Extension Education
New Mexico State University
Las Cruces, NM 88003

RE: ***Support for Doctoral Program in Agricultural Extension and Education (AXED) at NMSU.***

Dear Dr. Fraze:

I am delighted to write this letter of support for the Department of Agricultural & Extension Education (AXED) application to establish a Doctoral graduate degree program.

The NMSU-ASC Farmington is uniquely located on irrigated land lease from the sovereign Navajo Nation located in the Four Corners region of NM, CO, UT, and AZ. Our mission is to serve the agricultural needs of the Four Corners Region including the Navajo Agricultural Products Industry (NAPI, an 80,000 acre farm with over 600 center pivots) and small-medium scale producers located in the San Juan River valley.

The ASC Farmington is within close proximity to two 1994 Tribal Landgrant Colleges and Universities (Diné College and Navajo Technical University) and Fort Lewis College (a liberal arts college), all with large to predominant Native American populations. These institutions are pushing into agriculture at the undergraduate level but presently do not have masters or doctoral options in agriculture.

In my experience working with graduate students from the Four Corners region, students or potential students are often place bound, having deep connections to families and the community. Traditional NMSU-campus-based graduate programs are viewed by many of these students as out-of-reach due to the greater than 450 miles commute for the completion of coursework. It is also my experience that because the Four Corners Region is highly underserved in agricultural research needs, that staffing projects with graduate students reflective of regional cultural values found here has been difficult, even when funding has been obtained, and research projects seem endless. For the past year I have been hosting two AXED masters students, both Native American, at the Agricultural Science Center at Farmington. I have been working with Drs. Donald Edgar, William Noris, and

Shannon Norris-Parish co-mentoring these students. The Department of AXED is enabling these students to live and work within their communities for research projects year-round in Farmington.

I believe that having a doctoral AXED option would enable Agricultural Experiment Stations across the state, including ours, to expand educational and research options for place-based graduate students. Having a doctoral option within AXED would also benefit working professionals from non-NMSU institutions who may need to credential-up as part of their teaching and research duties.

Again, I want to express my strong support for this proposal. As the Research Director of the ASC Farmington, I am willing to commit resources at our facility so that it may serve as a regional hub of learning. I am willing to provide cubicle space, access to field plot and community networks in a highly underserved portion of the U.S. I stand ready to help in any way to see this proposal become reality.

Sincerely,



Kevin A. Lombard, PhD
Professor of Horticulture and Research Director
New Mexico State University Agricultural Science Center at Farmington

The Graduate School
New Mexico State University
P.O. Box 30001 MSC 3-GS
Las Cruces, NM 88003-80011
Phone: (575) 646-5746 • Fax: (575) 646-7758

MEMORANDUM

Date: June 29, 2023

From: Carol Flinchbaugh
Interim Associate Dean of the Graduate School

To: NM Higher Education Department

Subject: *PhD in the Human Dimensions of Agriculture (Education, Extension, Communications, and Leadership).*

The New Mexico State University (NMSU) Graduate School supports the proposed *PhD program in the Human Dimensions of Agriculture*. The *PhD program in the Human Dimensions of Agriculture* proposed by the Department of Agriculture and Extension Education will provide graduate students, many who are anticipated to be residents of New Mexico and surrounding regions with an opportunity to enhance their educational training and research to address social oriented problems associated with agriculture. Through interdisciplinary coursework and hands-on experiences in business, communication, county extension agencies, teaching and research, students will become well-versed in areas related to diversity, equity, and inclusion in the field of agriculture. Specific areas of focus in New Mexico and the borderlands include understanding the interchange between agriculture with underrepresented populations such as New Mexico's indigenous populations and immigration dynamics.

The proposed Doctor of Philosophy will prepare individuals for professional careers in agriculture and life sciences, including university faculty, public leadership roles in extension education, natural resource management, international agricultural development, and corporate leadership. The proposed *PhD program in the Human Dimensions of Agriculture* by the College of ACES is in demand in the border region, and there is no other U.S. program within 350 miles of Las Cruces, NM. The department faculty have received support from the New Mexico Extension Service, the New Mexico Agricultural Education/Future Farmers of America Association, and the United States Department of Agriculture.

If the proposed PhD program in *Human Dimensions of Agriculture* is classified as a humanities/social sciences degree by the Carnegie Classification, the NMSU Graduate School will provide initial graduate assistant funding support.

New Mexico Agricultural Leadership Program

PO Box 30003 MSC 3501
Las Cruces, NM 88003-8003
P: 575-646-6691 F: 575-646-4082
Email: nmal@nmsu.edu | Website: aces.nmsu.edu/nmal | @NMagleadership

June 29, 2023

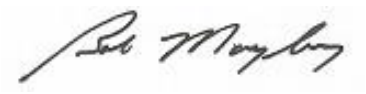
Greetings:

The proposal by the New Mexico State University Department of Agricultural and Extension Education to offer a PhD in Human Dimensions of Agriculture will provide a professional resource for organizations involved with the training and development of leaders within agriculture. A Doctoral Program will provide talented people with proven and practical tools for the continued growth of agricultural leadership.

The agricultural community is impacted through the efforts of County Extension Agents who provide educational experiences for youth through the 4-H program and to adults through Extension Education. The FFA program is driven by teachers in our school system who receive their undergraduate and graduate degrees through agricultural education in college. The New Mexico Agricultural Leadership Program offers further growth opportunities for professionals in agriculture to enhance their skills through leadership training and the study of cultural, political, and industrial topics. The availability of a Doctoral Program will be an asset supporting continued advancement in the field of leadership training.

The creation of this program at NMSU will offer an excellent prospect which will impact teachers and leaders throughout the western United States. I offer my full support for this degree.

Sincerely,



Bob Mayberry, NMAL, Inc. Board President

LIBRARY IMPACT STATEMENT (New Program Proposal)
LIBRARIAN'S ASSESSMENT

The Collections Coordinator along with the Department Head of Reference and Research Services will complete this form as requested, assessing library materials and collections as detailed below.

Program: Human Dimensions of Agriculture (Education, extension, communication & innovation) – Doctor of Philosophy

Department, College: Ag Extension Education; College of Agricultural, Consumer and Environmental Sciences
Faculty Member: Steven Fraze
Date returned to Faculty: June 30, 2023
Librarian Completing Assessment: David Irvin
Collection Management Officer: Mariaelena de la Rosa

***

This report is in response to a request by Steven Fraze, Department Head and Professor in the College of Agricultural, Consumer and Environmental Sciences, on June 20, 2023.

David Irvin, head of Reference and Research Services, compiled this report based on input provided by Library staff and faculty. It covers monographic holdings, journal access options, databases, and additional support that the library can offer.

NMSU Library Holdings for Subjects Related to Human Dimensions in Agriculture

Division	Category	NMSU Holdings
Agriculture	General; Conservation of Natural Resources, Land Conservation; Plant Culture; and Wildlife Management	19,922
Business	Economic History & Conditions; Industries, Land Use, Labor; Special Industries & Trades, General; Statistics; and Writing	53,729
Education	Higher Ed; Special Aspects; and Theory & Practice	20,764
Sociology	Communities, Classes, Races; Human Ecology, Anthropogeography; and Sociology, General & Theoretical Totals	10,581
	TOTAL	**104,996**

Data from OCLC WorldShare

Subscriptions or access options of identified journals

The Library requested a list of journals that program managers perceive to be the essential journals in the area of study. The Library provides the following assessment of the list:

Title	NMSU Holdings	Publisher	H-index**	Note
AAAE Conference Proceedings	Hit or miss	Various parts of AAAE	N/A	Library does not subscribe to proceedings as a standing order.
Agricultural Communications (OA)	See below *	Elsevier	N/A	First issue due in September 2023
Agriculture and Human Values	1997 – 2022 (1 year embargo)	Agriculture, Food, and Human Values Society	86	One year embargo
Career and Technical Education Research	2005 - Current	Association for Career and Technical Education Research	N/A	-
Journal of Agricultural Education	1960-current	American Association of Teacher Educators in Agriculture	N/A	-
Journal of Agricultural Education and Extension	None	Taylor & Francis	33	Impact factor: 2.654
Journal of Applied Communications	1969 - current	Association for Communication Excellence in Agriculture, Natural Resources, and Life and Human Sciences (ACE)/DOAJ	N/A	Impact factor: 2.462
Journal of Extension	1963 - current	Extension Journal	35	Impact factor: 0.237
Journal of Higher Education Outreach and Engagement	1996 - current	Institute of Higher Education	15	SJR: 0.254 (substitute for Impact Factor)
Journal of Human Sciences and Extension	2013 - current	Mississippi State Univ./DOAJ	N/A	-
Journal of International Agricultural and Extension Education	1994 - current	Association for International Agricultural and Extension Education	10	-

Journal of Leadership Education	2002 - current	Association of Leadership Educators	N/A	-
Journal of Natural Resources and Life Sciences Education	1997 - 2012	American Society of Agronomy	N/A	Last volume published in 2012
NACTA Journal	2002 – current (1 year embargo)	North American Colleges & Teachers of Agriculture	N/A	-
Natural Sciences Education	2013 - current	American Society of Agronomy	11	SJR: 1.01 (Substitute for Impact Factor)
Journal of Career and Technical Education	1999 - current	Omicron Tau Theta	N/A	-

*Note, for Journals published by Elsevier, if prior subscriptions existed, those journals can be accessed through Portico. Current Elsevier publications are available through Article Galaxy. To ensure your department has access to this tool, contact Katherine Terpis, associate dean of the NMSU Library.

** H-index is a metric that tracks citation counts for journals. H-index values were retrieved from Scimago Journal & Country Rank, at scimagojr.com

Information Delivery Services

Information Delivery Services (IDS) provides access to needed research information whether owned by the University, another NMSU campus, or another library/organization. Specific services that IDS provides include: Interlibrary Loan, and Document Delivery. IDS also provides electronic or home delivery of materials to distance education students and faculty, including homebound and active military students.

Subscribed databases relevant to the program

- **AGRICOLA -** Covers every major agricultural subject. Citations consist of journal articles, book chapters, monographs, conference proceedings, serials, technical reports, and other materials on a range of agricultural topics from 1970 - present.
- **Agricultural & Environmental Science Collection** - Contains environmental science related full-text articles, granular access to figures and tables within articles, environmental impact statements, and the entire range of bibliographic records from Environmental Sciences and Pollution Management (ESPM).
- **Business Source Premier** - Coverage includes virtually all subject areas related to business.
- **CAB Abstracts** - Provides information on agricultural science, veterinary medicine, nutrition and natural resources.
- **CABDirect** - Index to international literature in agriculture, with access to book, conference proceedings and journal articles back to 1973.
- **Communication & Mass Media Complete** - Indexes and abstracts 400 journals, 200 of which are available full text.
- **Diversity Studies Collection** - Provides access to scholarly journals and magazines that explore cultural differences, contributions, and influences in the global community.
- **Education Research Complete** - Topics covered include all levels of education from early childhood to higher education, and all educational specialties, such as multilingual education, health education, and testing.
- **ERIC (Educational Resources Information Center)** - The largest education database in the world for research documents, journal articles, technical reports, program descriptions and evaluations, and curricular materials in the field of education.
- **Ethnic Diversity Source** - A dedicated resource covering the culture, traditions, social treatment and lived experiences of different ethnic groups in America. It provides full text from a growing list of sources including peer-reviewed journals, magazines, e-books, biographies and primary source documents.
- **National Agricultural Library Digital Collections (NALDC)** - offers access to full-text historical documents and images in the agricultural and food sciences.
- **Sociology Source Ultimate** - Coverage of topics ranges from gender identity, marriage and family, to demographics, political sociology, religion and socio-cultural anthropology.

Additional support

- Faculty members may submit requests for information literacy sessions to be held by a faculty librarian. These sessions may occur in the Zuhl Instruction Lab, by Zoom, or at another location deemed appropriate by the instructor. Instruction sessions may be requested at https://nmsu.libwizard.com/f/instruction
- At the request of teaching faculty, the Reference and Research Services department will develop research guides at nmsu.libguides.com that provide journals, databases, and other scholarly research access options to students of the program.
- Members of the faculty may suggest purchases of new materials that will support the program, at https://nmsu.libwizard.com/f/purchase-request. Larger purchase proposals can be submitted to the library's collection development team when funds allow.
- Researchers are encouraged to sign up for the Library's scholarly communication workshop series, *Showcasing Your Research*, which provides guidance on issues such as: Author rights, publishing agreements, citation management, literature reviews, and best practices in research. The registration for the workshop series is announced in the first month of each fall and spring term.
- Researchers are encouraged to use the Library's discovery service, Primo, which provides keyword and subject-based search on most of the Library's subscribed databases from a single search interface. Primo can be accessed at primo.nmsu.edu.

Please reach out should you have any questions.

Sincerely,



David Irvin
Head of Reference and Research Services

Appendix – Search terms and Library of Congress subject headings

Terms for Human Dimensions of Agriculture Ph.D. program proposal

- Education
- Extension – philosophy and history
- Communications – campaigns; evaluation; risk and crisis in ag, consumer and environmental sci; global issues in ag comm and marketing;
- Innovation – ag dev,
- Research – data collection and analysis, qualitative and quantitative research in ed
- social sciences of agriculture
    - Diversity, Equity, and Inclusion Management
    - Native Americans in NM, and other under-represented populations
    - Immigration Dynamics Management

1. Agriculture
    a. General
        i. Economics
        ii. Extension
        iii. History & Conditions
        iv. Meteorology, Crops & Climate
        v. Physics, Ecology, Pollution
        vi. Research, Experimentation
        vii. Special Aspects of Agriculture as a Whole
    b. Conservation of Natural Resources, Land Conservation
    c. Plant Culture
    d. Wildlife Management
2. Business
    a. Economic History & Conditions
    b. Economics - Industries, Land Use, Labor
    c. Special Industries & Trades, General
    d. Statistics
    e. Writing
3. Education
    a. Higher Ed
    b. Special Aspects
        i. Multicultural Ed
        ii. Rural Ed
        iii. Vocational Ed., Apprenticeship, Employee Training
    c. Theory & Practice
4. Sociology
    a. Communities, Classes, Races
    b. Human Ecology, Anthropogeography
    c. Sociology, General & Theoretical Totals

DINÉ COLLEGE

THE HIGHER EDUCATION INSTITUTION OF THE NAVAJO NATION SINCE 1968

Diné College Land Grant Office – P.O. Box C01, Tsaile, Arizona – 928-724-6940

William Norris, Ph.D

Date: June 29, 2023

Dear Mr. Norris,

It is my pleasure to write this letter of support for New Mexico State University to develop Doctor of Philosophy in Human Dimension of Agriculture (Education, Extension, Communication, and Innovation). As a tribal land grant college, the Diné College Land Grant Office staff deliver programs to the Navajo Nation.

In the past year our department has been collaborating with NMSU on identifying ways to support Navajo High School Agriculture Teachers. We have found that many teachers are seeking graduate programs that would benefit their growth. Graduate Degree program development is necessary to create opportunity for working individuals.

While at a tribal college was also seek opportunities that will allow our enrolled students to move on into graduate programs and hope they return to the Navajo Nation and fill vital positions within our school system.

I look forward to hearing about the success of this new degree program opportunity.

Sincerely,

Benita Litson

Benita Litson, Director
Diné College Land Grant Office

Agricultural Education and Agricultural Sciences
Oregon State University, 108 Strand Agriculture Hall, Corvallis, Oregon 97331-2204
Phone 541-737-2661 | **Fax** 541-737-2256

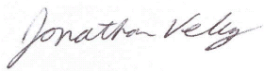
To New Mexico State University Curriculum Council,

I am writing to express my support, and verify a need for, a distance-based Ph.D. program to serve graduate students interested in Agricultural and Extension Education. Currently, I am a professor and department head at Oregon State University and we are one of the only schools in the western part of the United States who offers a place-based Ph.D. program.

Recently, I had the opportunity to connect with NMSU faculty and was pleased to hear that the Department of Agricultural and Extension Education were considering a distance-based Ph.D. program. Every year when our department recruits graduate students we are asked "can this Ph.D. program be completed remotely?" Currently, there are no options, to my knowledge, where students can remain in their current jobs while completing a Ph.D. in agriculture and extension education. While place-based learning is still critical for our profession, it is rapidly becoming apparent that we need to adapt our model to meet the needs of current industry and extension professions who are interested in a Ph.D. but are unable to leave their job for 3-4 years and pursue on on-campus degree.

Our university has been a leader in distance education, and I have seen remarkable growth in our current undergraduate degree and graduate certificates. I believe there is a strong market for a Ph.D. program and am excited to hear that NMSU is pursuing a distance degree program. As you move forward, I look forward to helping support this effort as best I can. Please feel free to contact me at jonathan.velez@oregonstate.edu or call me at 541-602-4969 if I can answer additional questions or be of further assistance.

Sincerely,



Jonathan Velez, Professor & Department Head
Bradshaw Leadership Academy Professorship
Co-Director, CAS Leadership Academy
Agricultural Education & Agricultural Sciences
jonathan.velez@oregonstate.edu
541-737-1336

www.naae.org | #TeachAg

September 14, 2023

To Whom It May Concern:

The National Association of Agricultural Educators (NAAE) is a federation of state associations of agricultural educators with more than 9,000 members. Our members are involved in school-based agricultural education at any level, from middle school through postsecondary, and state and national agricultural education leadership. We advocate for agricultural education, provide professional development for agricultural educators, and work to recruit and retain agricultural educators in the profession.

As the Chief Executive Officer of NAAE, I have reviewed the proposed PhD in the Human Dimensions of Agriculture proposed by the Department of Agricultural and Extension Education at New Mexico State University and I believe this is a program that would be beneficial to agricultural educators throughout the country. Nationwide, there are not enough agricultural educators to meet the demand from the middle school level to post-secondary level to the state administrative level.

There are two important factors proposed in the PhD in the Human Dimensions of Agriculture. The first is the flexibility of the degree program in the various discipline areas of the social sciences of agriculture and the second is the delivery of the program on-line. The second factor is especially important, as there are numerous agricultural teachers nationwide who would take advantage of a program where they could continue in their current position and not have to move to the university location. Many states have included PhD degrees in the state salary scale. Many other individuals will take advantage of the program in order to advance to state administrative offices as supervisors and consultants.

As an agricultural education organization, we work closely with numerous cooperating partners such as CHS Foundation, John Deere, and Bayer, to name a short list, who are supportive of new and innovative ways to improve agricultural education. There are approximately 1,000,000 agricultural education students in the nation who are taught by nearly 12,000 secondary and two-year postsecondary teachers. It is estimated that the contact hours of in-school instruction in and about agriculture exceed 10 million annually.

The PhD in the Human Dimensions of Agriculture at New Mexico State University is an innovative approach to improving agricultural education and the NAAE offers their support.

Sincerely,

Alissa F. Smith

Alissa F. Smith
CEO

National Association of Agricultural Educators
One Paragon Centre, 2525 Harrodsburg Road, Suite 200
Lexington, KY 40504-3358
(859) 967-2892 or (800) 509-0204

EASTERN NEW MEXICO UNIVERSITY

Agriculture, Food Science and Kinesiology
Station 11
1500 S Ave K
Portales, NM 88130

Re: Letter of Support for NMSU Doctor of Philosophy in Human Dimensions of Agriculture

September 29, 2023

To Whom It May Concern:

This letter supports NMSU's proposed Doctor of Philosophy in Human Dimensions of Agriculture. As we continue to have more and more job positions open requiring individuals with higher degrees in the field, more options must be made available within the state. Students graduating from programs at ENMU would benefit from a program within the state.

In New Mexico, there is no Ph.D. program for students focused on agricultural education, leadership, communications, and extension. Students wishing to pursue a higher degree must leave the state of New Mexico. Formally, I was one of these students. Born and raised in New Mexico, I had to find one out of-state when I began searching for doctoral programs. If an option had been available within the state, I would have been able to lessen some of the financial burden of obtaining my doctorate. By having a program here in the state of New Mexico, there is the possibility for more of these students to remain in the state. Having options within the state will help to alleviate some of the cost burden associated with going out of state to obtain a degree.

I look forward to learning more about ways I can support this degree.

Sincerely,

Dr. Kalynn Baldock
Assistant Professor of Agricultural Science
Agriculture, Food Science, and Kinesiology Department Chair
Eastern New Mexico University

Notice of Program Approval
New Mexico Council of Graduate Deans

September 17, 2024

Dear Dr. Koodali,

Congratulations to you and your colleagues at New Mexico State University! On December 15, 2023, the New Mexico Council of Graduate Deans approved your program proposal by a majority vote to offer a new ***Doctor of Philosophy (Ph.D.) for Human Dimensions of Agriculture*** degree.

The committee had the following recommendations for your consideration as you present the program to the New Mexico Higher Education Advisory Committee:

1) Resolved the apparent contradiction for required credits in your program. On page 3 it states 54 credits, and on page 4 it states 48 credits.
2) Please include more specific references to advanced research in your program. The proposal seemed unclear about the required research for Ph.D. students in this new program. Ensure this looks more like a research degree than a professional or applied degree.
3) Please explain why or how this program is interdisciplinary. It was surprising to some of the graduate deans that this program is housed in Education, Extension, Communication, and Innovation and did not seem to involve interdisciplinary potentials at NMSU including especially colleagues in the social sciences who are expert in "human dimensions."
4) Please clarify requirements, if any, beyond an MA degree for students potentially interested in your program.
5) How many years, realistically, can student expect to work to complete this program? Three years seemed like a short timeline for a Ph.D. program to the committee.

Please let me know if you need anything further from the council to document support for your proposed program in the future.

Sincerely,

Ian Williamson, Ph.D.
President of the New Mexico Council of Graduate Deans
Graduate Dean
New Mexico Highlands University
223 Rodgers Administration Building
Box 9000
Las Vegas, NM 87701

NM STATE UNIVERSITY

College of Agricultural, Consumer and Environmental Sciences
Department of Agricultural and Extension Education
MSC 3501, New Mexico State University
P.O. Box 30003, Las Cruces, NM 88003-8003

April 8, 2025
New Mexico Council of Graduate Deans:

I want to thank you for taking the time to review the Ph.D. application for *Human Dimensions of Agriculture* again. Since assuming the role as Department Head of Agricultural and Extension Education at NMSU in January 2025, I have spent considerable time learning about the Ph.D. approval process in the state and considering ways to make this program viable for the future. As a result, we have incorporated the feedback given at various stages of the approval process. The changes are outlined below.

- We updated the CIP Code in the proposal. After a review of the proposal, we noted that the original CIP code was only for agricultural education teacher education. However, the Human Dimensions of Agriculture proposal will have a broader scope. Therefore, we updated the CIP Code to Agricultural and Extension Education (01.0801), rather than Agricultural Education (13.1301 - 13.1301). This CIP code more accurately reflects the program, career opportunities, and potential starting salary for graduates. Further, it directly aligns with our departmental name at NMSU.
- We resolved the contradiction for required course credits on page four of the proposal.
- We added new text to demonstrate the required research for Ph.D. students in this program. We also provided examples of research topics that students would likely pursue through their dissertation research.
- We removed language from the proposal about this being an interdisciplinary degree. We agree that the program's impact is limited to social sciences in agriculture, rather than other colleges across the university with social science programs.
- We clarified requirements beyond a master's degree that students would need to enter the program;
- We clarified that this program would have two distinct pathways: (1) full-time students, and (2) online professional students. The timeline will vary depending on a student's distinct pathway. The timeline to graduation for full-time students will be three years. Meanwhile, the timeline for graduation for online professional students will be four years. We also provided a breakdown comparison of expected completion rates for the two distinct pathways.
- Based on the feedback received on our proposal. We have decided to adopt a hybrid online format for this Ph.D. program rather than a 100% online program. This change will require students to come to the NMSU campus once per semester for Research Preparation sessions to meet with faculty face-to-face to ensure they are receiving the support they need to be successful in their research endeavors. Example sessions will include doctoral committee formation, dissertation topic selection, research methods bootcamp, data collection and analysis refreshers, and writing quality. Through this

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approach, the proposed program will be unique in cross-training Ph.D. students to address the social science challenges we will face in the future.

- Much of the language in the proposal was updated to take a data-driven approach that demonstrates the impact that this program could have on the state of New Mexico and the broader region.
- We embedded potential job opportunities that graduates could pursue throughout the proposal.
- We have included a comprehensive budget with income and expenditures;
- We also added additional text to better articulate the mission of the department and how the addition of the Ph.D. program will address a critical need in the future.
- We added several new faculty since the original proposal was submitted. Therefore, we have updated the proposal to reflect our current faculty and capacity.

Again, we greatly appreciate your feedback. The Department of Agricultural and Extension Education at NMSU is dedicated to ensuring this program is rigorous and adequately supports our potential future students.

Sincerely,

Frank "Richie" Roberts

Richie Roberts, Ph.D.
Professor and Department Head
Department of Agricultural and Extension
New Mexico State University

The Ph.D. in the Human Dimensions of Agriculture has generated considerable interest within the state of New Mexico. For example, we currently have a waiting list for the program consisting of 21 New Mexico residents, including three professionals from the Navajo Nation and one who teaches on the Mascalero Apache Reservation. The table below provides the names of New Mexico residents interested in pursing this Ph.D. program at NMSU along with their professional affiliation.

Name	**Professional Affiliation**
Brandon Francis	**New Mexico Tribal Extension Service (Navajo Nation)**
Emilano McLane	**New Mexico Tribal Extension Service (Navajo Nation)**
Kiona Tenney	**New Mexico Tribal Extension Service (Navajo Nation)**
Alice Valasquez	**Mascalero Apache High School, Mascalero Apache Reservation, New Mexico**
Christina Turner	Northern New Mexico Extension District Director
Patrick Kircher	Eastern New Mexico Extension District Director
Tom Dean	Southwest New Mexico Extension District Director
Teresa Trujillo Dean	Cooperative Extension Administrator for Dona Ana County, New Mexico
Gary Aycock	New Mexico Agricultural Education State Supervisor
Brandon Devine	New Mexico Agricultural Education Director
Russell Walter	New Mexico FFA State Executive Secretary
Trevor Wax	Agricultural Science Teacher Mayfield High School, Las Cruces, New Mexico
Rachel Knight	Agricultural Science Teacher at Las Cruces High School, New Mexico, and Adjunct Faculty New Mexico State University
Raul Perea	Agricultural Science Teacher, Las Cruces High School, New Mexico
Vicki Lake	Agricultural Science Teacher, Shiprock, New Mexico
Kim Obyrne	Agricultural Science Teacher, Hatch, New Mexico
Lyle Logemann	Agricultural Science Teacher, Clovis, New Mexico
Yesenia Palma	College of ACES Chief of Staff, New Mexico State University
Christina Wilson	Director of New Mexico Agricultural Leadership Program
Tim Nesbitt	Assistant Dean for Finance College of ACES, NMSU
Marshall Wilson	New Mexico Department of Agriculture

Because this program will serve both full time and working professionals, an alternative completion projection has been created for full time students versus working professionals in the table below.

Comparison of Degree Completion Timeline for New Full Time Students Versus Online Professional Students

Student Type	*Year 1*	*Year 2*	*Year 3*	*Year 4*	*Year 5*
New Full-Time Students	*2*	*0*	*1*	*1*	*1*
Continuing Full-Time Students	*0*	*2*	*3*	*2*	*3*
Graduating Full-Time Students	*0*	*0*	*0*	*2*	*1*
*New Online Professional Students***	3	*5*	*4*	4	*4*
Continuing Online Professional Students	*0*	3	*7*	*8*	7
Graduating Online Professional Students	*0*	*0*	*0*	*3*	*4*

*New Full-Time Students based on available assistantships, three have been provided by the College of ACES and NMSU Graduate School to start the program
**Online Professional Students will be admitted on a bi-annual basis as a cohort (Model used by Texas A&M University/Texas Tech University for Doc@Distance online doctoral program)

We will have two-three full-time students funded by graduate assistantships and Online Professional students who will work part-time while continuing their current careers. The Online Professional students will be admitted as a cohort every other year, with a predetermined number admitted starting with four. The cohort model for online students supports both retention and graduation rates. The average time for full-time students to complete a Ph.D. in agricultural social sciences ranges from 2.5 years to four years. Online Professional Students in agricultural social sciences can complete a Ph.D. in four to five years based on data available from Grey Associates.

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # G-2

☒ Action Item

☐ Consent Item

☐ Informational Item

Presented By:

Enrico Pontelli, Ph.D.
Dean of the College of Arts & Sciences
Joe Lakey, Ph.D.
Associate Dean of Academics

Agenda Item:

Applied Artificial Intelligence – Master of Applied Artificial Intelligence (online)

Requested Action of the Board of Regents:

Approval of the Applied Artificial Intelligence – Master of Applied Artificial Intelligence (online) program proposal as presented.

Executive Summary:

The Applied Artificial Intelligence – Master of Applied Artificial Intelligence is a proposed interdisciplinary online master's degree that offers a rigorous course of study that integrates advanced artificial intelligence and machine learning methodologies with specialized domain knowledge from various fields. The program is designed to equip students with the cutting-edge technological skills typically found in computer science and information science, combined with the critical, in-depth understanding of another discipline. The program offers multiple tracks based on concentrations such as AI and Agriculture, AI and Manufacturing and Supply Chain, and AI and Social Studies.

A student survey of NMSU students conducted in June 2025 noted that many had concerns about their understanding of AI; 78% of the respondents indicated that a working knowledge of AI is crucial to their future careers; and 62% noted that they would enthusiastically pursue a degree in AI.

This proposal is in alignment with key industries in the New Mexico Economic Development Plan and aligns with the state's strategic industry focus by fostering AI-driven innovation and workforce development. The program will contribute to New Mexico's economic growth by providing expertise to embed AI solutions in the following priority sectors:

- Quantum Computing & Advanced Technology
- Renewable Energy & Sustainability
- Defense & National Security
- Manufacturing & Advanced Industry
- Healthcare & Biomedical Innovation
- Sustainable and Value-Added Agriculture

The academic program will collaborate with the Sandia National Labs, Los Alamos National Labs, and the Public Education Department. There is currently no program similar offered in the State of New Mexico and similar programs that are offered at other institutions are all new degree programs starting the last couple of years. The program will be launched with the existing faculty resources available, however NMSU has committed to adding new faculty lines that will contribute to the long-term development and growth of the program. These include a new line dedicated to providing instruction for foundational AI coursework (Fall 2025) and three additional join appointment lines between Computer Sciences and on the areas of concentration (tentative start date of Fall 2026). No additional library or operating resources are needed. An Institute AI Office is currently being established in Breland Hall to support the management of the program.

References:

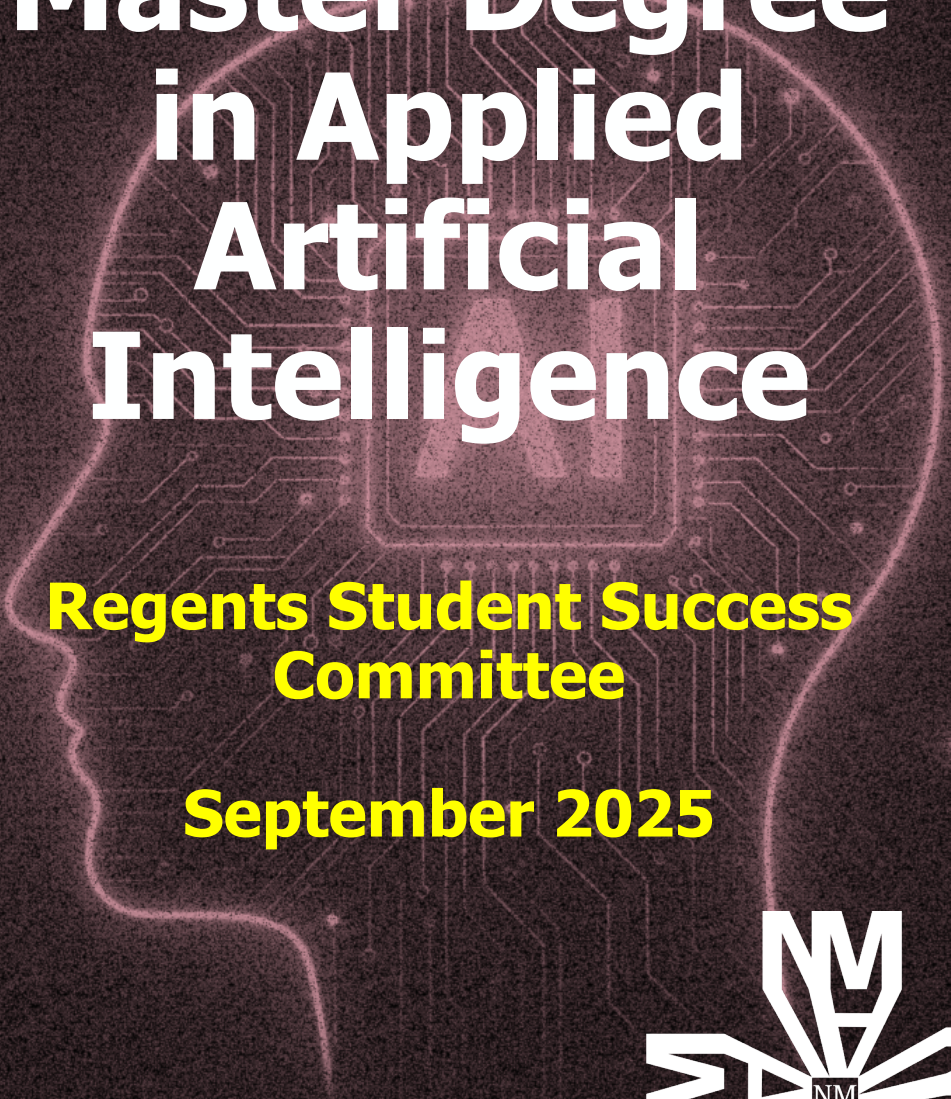
See attached presentation, proposals, and supplemental materials.

Prior Approvals:

The Applied Artificial Intelligence – Master of Applied Artificial Intelligence (online) proposal has achieved prior approvals (PIM approval path) including:
Student Records Office (Gabrielle Martinez) - July 17, 2025
Graduate Dean (Ranjit Koodali) - July 18, 2025
NMSU Global – Provost UO (Beth Apodaca) - July 23, 2025
University Program Approval Committee (UPAC) - August 21, 2025
Provost Office (James McAteer) - September 5, 2025

All other approvals in the PIM system are outlined in the supplemental materials.

Master Degree in Applied Artificial Intelligence



Regents Student Success Committee

September 2025

AI Workforce Demand Trends



Local AI Talent Demand

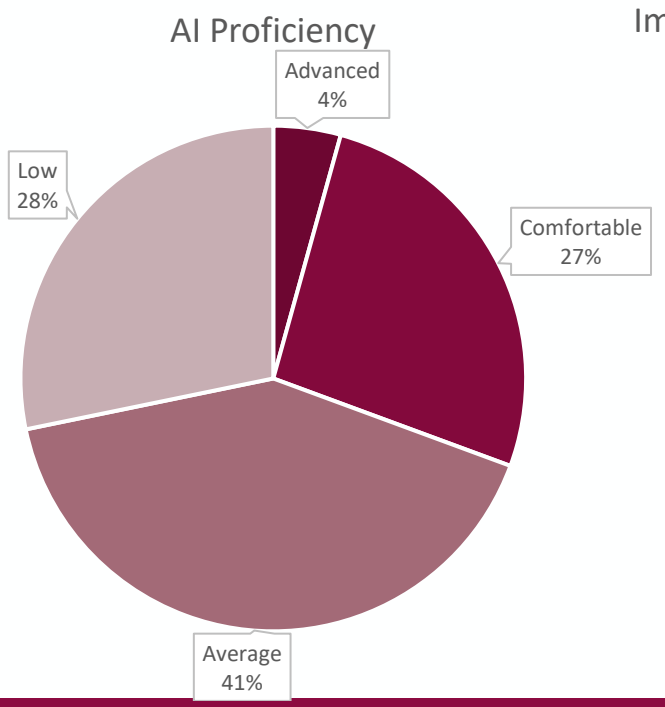
- New Mexico's healthcare, energy, education and government sectors are increasingly seeking **professionals with AI expertise**.
- Albuquerque 37% growth in AI demand (~700 jobs)
- Las Cruces AI job demand 60% raise (14.3% of all tech openings)
- 15% of job postings for Sandia and LANL
- Increasingly focused on **applied AI skills**

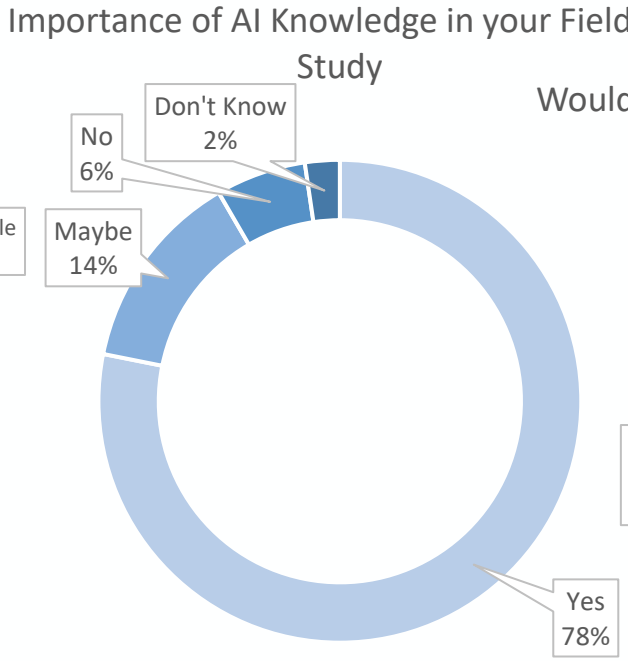
National Expansion of AI Jobs

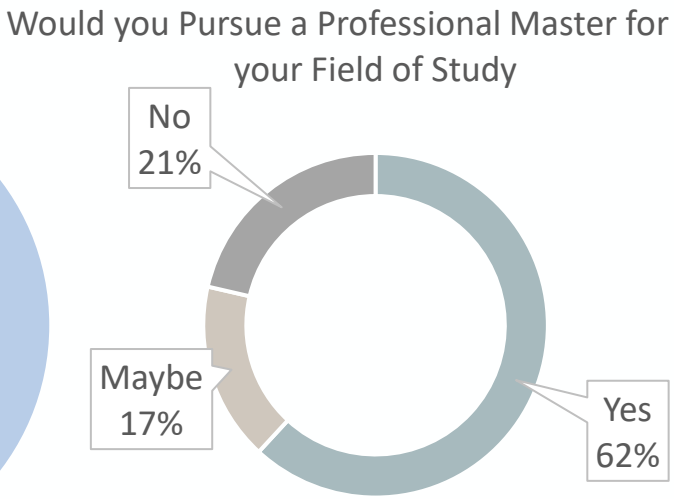
- US AI market was $235 billion in 2024 – estimated at $631 billion by 2028
- In 2024, 38% of US companies have **replaced workers with AI** tools
- 1.6% of all job postings require knowledge of applied AI
- Growing presence of **integration of AI in non-tech fields**
- **Non-US citizens make up nearly 50%** of AI-related graduate students
- 92% of employers plan to integrate AI by 2028, 75% face challenges in hiring qualified talent
- 71% of business leaders **prefer less experienced candidates with AI skills** over more experienced ones without them
- "AI Premium" on salaries is on average 28%

NMSU Student Demand

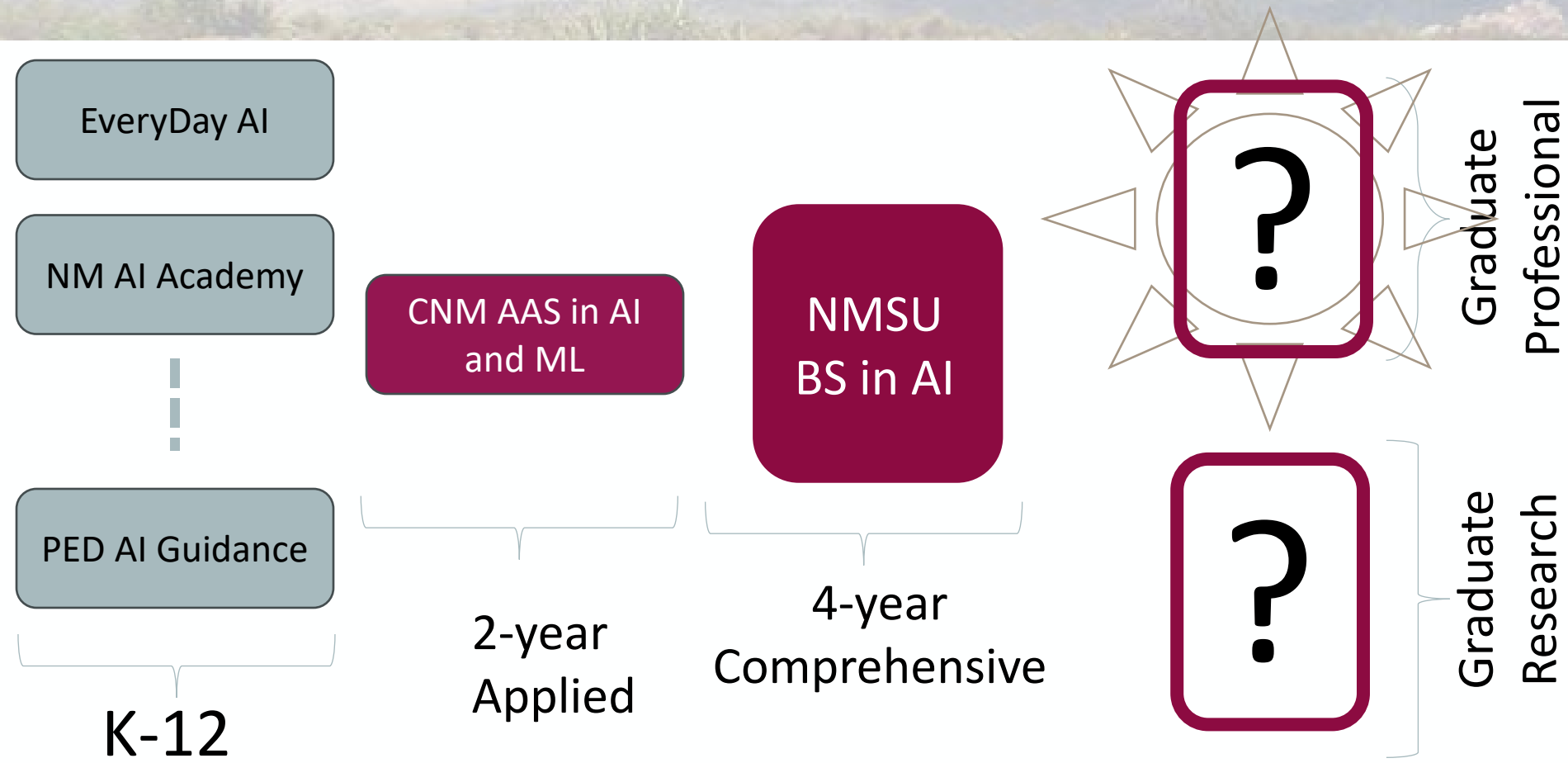
- Survey undergraduate students Spring 2025
- 215 responses
  - 43 different majors, 5 different colleges
  - 47% expected to graduate in the current academic year



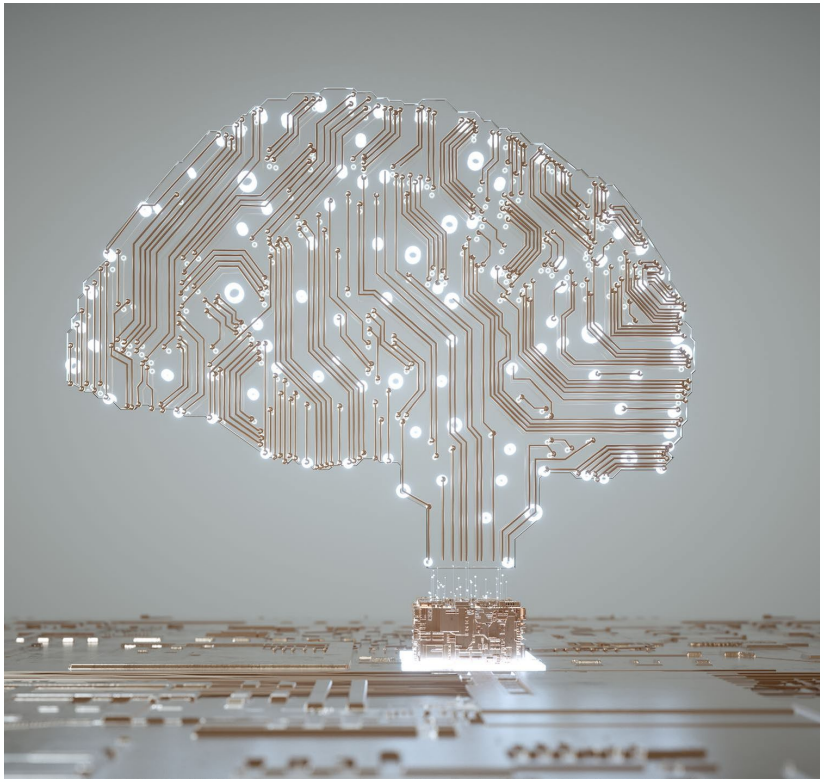




New Mexico:
A "Leaky" AI Educational Landscape



AI+X: Bridging AI with Diverse Disciplines



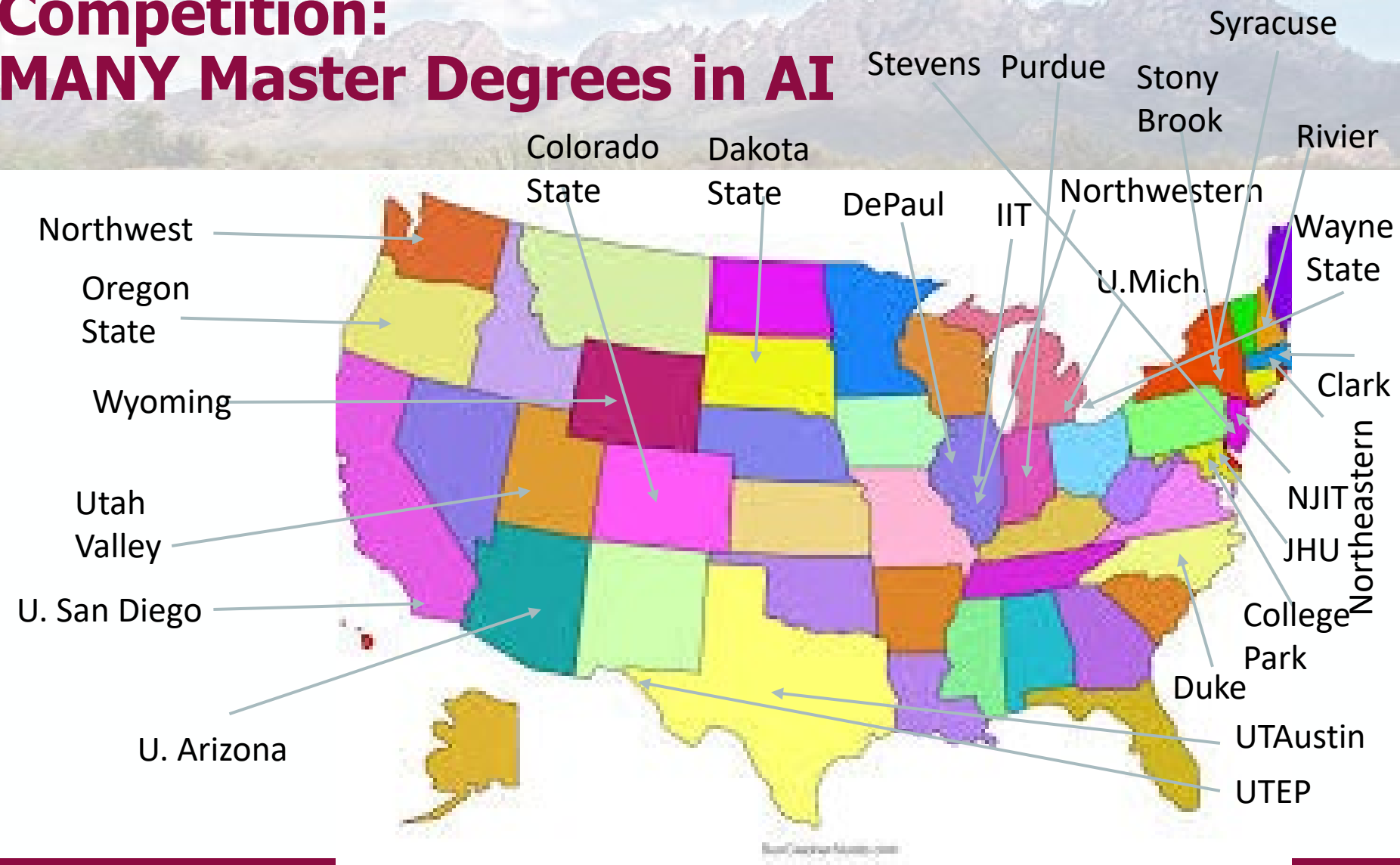
AI + X

Core AI Training

Exploration of AI In Discipline X

- AI+X integrates artificial intelligence with other academic fields.
- Enhances problem-solving by combining AI with domain-specific knowledge.
- Prepares students for interdisciplinary innovation.

Competition: MANY Master Degrees in AI



Learning Objectives

- Students will have **solid knowledge** of state of the art, representations, algorithms and techniques used across works in **Artificial Intelligence** and be able to develop, apply and evaluate them in applications
- Students will have skills in **applying their knowledge** and understanding to **create AI-driven solutions** in general contexts as well as in **specific application domains**
- Student will understand the various ways and reasons **humans are integrated** into mixed human-AI environments
- Students will be proficient in **communicating** on the use of Artificial Intelligence with stakeholders from different application domains
- Students will have high standards of **professional and ethical responsibility** and clear understanding of societal and economic implications of adoption of AI solutions
- Students will understand the **ethical concerns** in developing responsible AI technologies

Program Structure - Admission

- Admission Requirements
  - Bachelor from accredited institution
  - Knowledge of Probability & Statistics
  - Knowledge of Linear Algebra
  - Preferred Knowledge of a programming language



Program Structure - Requirements

- 30 Credits
- Core AI Preparation [15 Credits]
  - Programming [3 credits]
    - Python Programming
  - AI Foundations [6 credits]
    - Introduction to AI
    - Introduction to Machine Learning
  - AI Ethics [3 credits]
  - AI Elective [3 credits]
    - Deep learning
    - Natural Language Processing
    - Generative AI
    - Image Processing
    - Advanced AI
- Concentrations (**X**)
  - Social Sciences [12 credits]
    - Perspectives on Sociology
    - Foundations of Social Theory
    - Elective 1
    - Elective 2
  - Agriculture [12 credits]
    - Intro to AI in Agriculture
    - AI applications in Fiber and Food
    - AI in Plant and Environmental Sciences
    - Emerging Topics in AI in Agriculture
  - Manufacturing [12 credits]
    - AI In Supply Chain
    - Robotics
    - Additive Manufacturing
    - Elective
- Culminating Experience [3 credits]

Program Readiness

- Departments Involved (25)
1. Computer Science (5)
2. Philosophy (1)
3. Sociology (5)
4. Animal & Range Sciences (2)
5. Plant & Environmental Sciences (2)
6. Hotel, Restaurant, Tourism Mgmt (1)
7. Engineering Technology (2)
8. Electrical & Computer Engineering (1)
9. Accounting & Information Systems (4)
10. Management (2)

- Commitment for new faculty
  - Cluster hire 3 faculty members


Thank you
NMSU
Questions?
NM STATE
Discovery, Impact, Collaboration, Ethics

1087: APPLIED ARTIFICIAL INTELLIGENCE - MASTER OF APPLIED ARTIFICIAL INTELLIGENCE (ONLINE)

In Workflow

1. Student Records Office - Programs (gdmart@nmsu.edu)
2. Graduate Dean (rkoodali@nmsu.edu)
3. Provost - UO (bapodaca@nmsu.edu)
4. UPAC - Chair (jlakey@nmsu.edu)
5. Provost (lnr@nmsu.edu; mcateer@nmsu.edu; cecimh@nmsu.edu)
6. President (jbannist@nmsu.edu; myniguez@nmsu.edu; ferm4363@nmsu.edu)
7. Board of Regents (cavotta@nmsu.edu)
8. Graduate School - Council of Deans (rkoodali@nmsu.edu)
9. Student Records Office - HED (gdmart@nmsu.edu)
10. Student Records Office - CIP (gdmart@nmsu.edu)
11. UO HLC (UO HLC@nmsu.edu)
12. Student Records Office (gdmart@nmsu.edu)

Approval Path

1. Mon, 30 Jun 2025 23:51:01 GMT
   Gabrielle Martinez (gdmart): Rollback to Initiator
2. Tue, 01 Jul 2025 23:41:38 GMT
   Gabrielle Martinez (gdmart): Approved for Student Records Office - Programs
3. Thu, 03 Jul 2025 15:13:52 GMT
   Gabrielle Martinez (gdmart): Rollback to Initiator
4. Thu, 17 Jul 2025 14:02:08 GMT
   Gabrielle Martinez (gdmart): Approved for Student Records Office - Programs
5. Sat, 19 Jul 2025 03:18:53 GMT
   Ranjit Koodali (rkoodali): Approved for Graduate Dean
6. Wed, 23 Jul 2025 23:25:30 GMT
   Beth Apodaca (bapodaca): Approved for Provost - UO
7. Fri, 05 Sep 2025 16:25:29 GMT
   Joe Lakey (jlakey): Approved for UPAC - Chair
8. Fri, 05 Sep 2025 16:33:28 GMT
   James Mcateer (mcateer): Approved for Provost
9. Fri, 05 Sep 2025 22:47:52 GMT
   Marissa Yniguez (myniguez): Approved for President

New Program Proposal

Date Submitted: Thu, 17 Jul 2025 02:33:30 GMT

Viewing: 1087 : Applied Artificial Intelligence - Master of Applied Artificial Intelligence (Online)

Last edit: Mon, 18 Aug 2025 19:52:36 GMT

Changes proposed by: Joe Lakey (jlakey)

Submission Information

The Degree Type will factor into the level and the submissions that must occur for HED and HLC.
• Community College Types: Applied Associate Degree, Associate Degree, Certificate, Concentration
• Main/Global Campus Undergrad Types: Bachelor's Degree, Concentration, Minor
• Main/Global Campus Graduate Types: Master's Degree, Doctoral Degree, Certificate, Concentration, Minor

Degree Type

Master's Degree

The Degree Title dropdown has all existing degree titles in Banner, if you do not see the one you are looking for you will select "Other" then in the New Degree Title box you will type out the official title of the degree (as you would want it to appear on a students record, transcript, and/or diploma).

Degree Title

Other

New Degree Title
Master of Applied Artificial Intelligence

Academic Level
Graduate

The Catalog Title will be what is displayed in the catalog page. The standard format is Major (Concentration) - Degree Title. (I.e., Mathematics (Secondary Education) - Bachelor of Science. Note: If there is no concentration you would just list the Major - Degree.

Catalog Title
Applied Artificial Intelligence - Master of Applied Artificial Intelligence (Online)

College
Graduate

Campus
Global Campus

Division
No Division for this Campus

Department
Computer Science

Effective Catalog
2026-2027

If opting for a Global program, specify "Global Campus" under campus type. You must have a Program Proposal on file with Global Campus prior to submission of a new Global program. Contact Global Campus for more information.

Program Teaching Modality
Online

CIP Code
110102 - Artificial Intelligence.

Normal or typical length of time for students to complete the program (in years)
2 years

Curriculum Information

Program Learning Outcomes

	Learning Outcomes
Outcome 1	Students will have solid knowledge of representations, algorithms and techniques used across works in Artificial Intelligence and be able to apply and evaluate them in applications as well as develop their own, along with a detailed understanding of current issues and state of the art in Artificial Intelligence
Outcome 2	Students will have skills in applying their knowledge and understanding to create AI-driven solutions in general contexts as well as in specific application domains and help automate the development of AI systems and components
Outcome 3	Student will understand the various ways and reasons humans are integrated into mixed human-AI environments, whether it is to improve overall integrated system performance, improve AI performance or influence human performance and learning
Outcome 4	Students will be proficient in communicating on the use of Artificial Intelligence with stakeholders from different application domains
Outcome 5	Students will have high standards of professional and ethical responsibility and clear understanding of societal and economic implications of adoption of Artificial Intelligence solutions
Outcome 6	Students will understand the ethical concerns in developing responsible AI technologies

List of academic departments/units and or institutions involved in the delivery of courses

Department/Unit
Computer Science
Sociology
Plant and Environmental Sciences
Hotel, Restaurant, and Tourism Management
Industrial Engineering
Engineering Technology
Philosophy
Accounting and Information Systems
Management

The Course Requirements, need to be in the standard format for the catalog because this piece of the form will be imported directly onto the catalog page. See the Student Records Website for a guide. The total number of credits at the bottom of the course list will be the "official" total for the degree. Please make sure it adds up correctly.

Course Requirements

- The Master's Program in Applied Artificial Intelligence (AI+X) offers a rigorous course of study that integrates advanced artificial intelligence and machine learning methodologies with specialized domain knowledge from various fields. This program is designed to equip students with the cutting-edge technological skills typically found in computer science and information science, combined with the critical, in-depth understanding of another discipline. Our graduates will be prepared to apply AI solutions to complex problems, informed by the unique insights and theoretical frameworks of their chosen "X" domain.
- This program is ideal for individuals holding a bachelor's degree in computer science, information science, or a related discipline, as well as those with a background in another field who wish to specialize in AI applications within their area of expertise. Admitted students will complete a minimum of 30 graduate credit hours. The curriculum emphasizes practical application and culminates in a capstone experience that demonstrates the student's ability to leverage AI for real-world challenges within an "X" domain.
- Entry into the AI+X program requires a bachelor's degree from an accredited institution. Applicants should have a strong academic record and have completed basic mathematical work in probability, statistics, and linear algebra. Knowledge of derivatives from a calculus course is also expected.
- We seek students with diverse academic backgrounds who are passionate about applying AI to real-world problems.
- The Master in Applied Artificial Intelligence has several tracks, one for each of the concentrations emphasizing applications of AI in specific domains (referred to as "X").
- For all master's students, the following apply:
- Each master's student must complete 15 credits of **the core AI requirements (https://catalogs.nmsu.edu/#basic-requirement)**(see table below). That includes one Python programming course (either CSCI 4520 Python Programming I or CSCI 4525 Python Programming II), one ethics class (PHIL 451 AI, Ethics, and Society, or suitable alternative), two classes of AI Foundations (CSCI 5405 Artificial Intelligence I and one between CSCI 5420 Applied Machine Learning I or E E 565 Machine Learning I), and one elective AI course chosen between CSCI 5425 Introduction to Deep Learning, CSCI 5435 Text Mining and Natural Language Processing, CSCI 5440 Generative Artificial Intelligence, CSCI 5750 Artificial Intelligence II, E E 587 Deep Learning for Image Processing, or E E 596 Digital Image Processing.
- Each master's student must complete 3 credits of culminating experience in the student's respective domain area by registering for 3 credits in one of the following courses:
  - CSCI 5991 Special Research Problems
  - E T 595 Capstone Projects in Information Technology
  - SOCI 5991 Special Research Problems
  - MGMT 598 Special Research Programs
  - An approved research number under the College of ACES including AGRO 598 Special Research Programs, ANSC 598 Special Research Programs , FWCE 598 Special Research Programs, or other approved research number .
- Each student is expected to complete 12 credits in one concentration (the "X"); the following concentrations are offered with the relevant courses:
- **AI and Agriculture:** For innovators seeking to revolutionize food production, the AI+Digital Agriculture concentration provides the expertise to design and deploy intelligent systems that optimize crop yields, enhance resource efficiency, and foster sustainable agricultural practices worldwide. The following courses are required:
- PLEN 5401 Introduction to AI in Agriculture
- AEEC 5402 AI Applications in Fiber and Food Systems or HRTM 5402 AI Applications in Fiber and Food Systems
- AEEC 5404 Emerging Topics in AI for Food and Agriculture or HRTM 5404 Emerging Topics in AI for Food and Agriculture
- One Core Elective in the focal area of choice at the 500/5000 Level or above from: AGRO/ANSC/FSTE/FCSC/FWCE/HORT/HRTM/NUTR/RGSC/SOIL/EPWS/AEEC/AXED

- **Concentration in AI and Manufacturing and Supply Chain:** For professionals working at the nexus of supply chain and manufacturing aiming to optimize the complex global operations, the AI+Supply Chain and Manufacturing track empowers you to leverage cutting-edge AI technologies for predictive analytics, intelligent automation, and resilient network design, driving efficiency and competitive advantage in modern production and logistics. The following courses are required:
- MGMT 510 AI and Machine Learning for Supply Chain Decision-Making
- M E 586 Introduction to Robotics **or** I E 490 Selected Topics Introduction to Robotics Operating Systems
- I E 490 Selected Topics Functional Printing **or** M E 510 Special Topics Additive Manufacturing
- One of the following electives:
- E T 513 AI Data Center Designs and Technologies, AI Data Center Designs and Technologies
- E T 515 AI and Cybersecurity Risk in Critical Infrastructure Systems, AI and Cybersecurity Risk in Critical Infrastructure Systems
- MGMT 520 Advanced Supply Chain Intelligence: Optimization and Generative AI Advanced Supply Chain Intelligence: Optimization and Generative AI
- **Concentration in AI and Social Studies:** For aspiring AI ethicists and social innovators, the AI+Sociology concentration offers a critical lens to understand and shape the societal impacts of artificial intelligence, fostering the development of human-centered AI systems that promote equity and justice. The following courses are required:
- SOCI 5110 Perspectives on Sociology
- One between SOCI 5165 Foundations of Social Theory **or** SOCI 5166 Seminar in Contemporary Theory
- One **method** class selected among the following
- SOCI 5150 Seminar in Social Networks
- SOCI 5153 Seminar in Sociological Research
- SOCI 5155 Seminar in Text Analysis for the Social Sciences
- SOCI 5157 Seminar in Qualitative Research Methods
- SOCI 5158 Seminar in Visual Ethnographic Methodology
- SOCI 5160 Seminar in Data Visualization
- One Sociology **Core Elective** selected among the following
- SOCI 5170 Seminar in Individual and Society
- SOCI 5270 Seminar in Sex and Gender
- SOCI 5310 Seminar in Community Development
- SOCI 5315 Seminar in Public Sociology
- SOCI 5317 Seminar in Social Transformation
- SOCI 5320 Seminar in Social Movements and Activism
- SOCI 5325 Seminar in Digital Media and Activism
- SOCI 5410 Seminar in Race and Ethnic Relations
- SOCI 5415 Seminar in Social Stratification
- SOCI 5420 Seminar in Sociology of Latinos/as in the United States
- SOCI 5430 Seminar in International Migration
- SOCI 5440 Seminar in Sociological Perspectives on the U.S.-Mexico Border
- SOCI 5450 Seminar in Power and Politics in the United States
- SOCI 5455 Seminar in Inequality and Public Policy
- SOCI 5610 Seminar in Popular Culture
- SOCI 5630 Seminar in Culture and Social Life
- SOCI 5640 Seminar in Sociology of Digital Media
- Courses not in above list can be included in the student's program of study only if prior written approval has been obtained from the student's advisor and the Program Graduate Steering Committee.

Requirements

Prefix	Title	Credits
Core Requirements		
Programming Foundations (Select one)		**3**
CSCI 4525	Python Programming II	3
CSCI 4520	Python Programming I	3
AI Foundations (6 credits)		**6**
CSCI 5405	Artificial Intelligence I	3
CSCI 5420	Applied Machine Learning I	3
or E E 565	Machine Learning I	
AI Elective (3 credits - choose one)		**3**
CSCI 5425	Introduction to Deep Learning	3
CSCI 5435	Text Mining and Natural Language Processing	3
CSCI 5440	Generative Artificial Intelligence	3

E E 587	Deep Learning for Image Processing	3
E E 596	Digital Image Processing	3
CSCI 5750	Artificial Intelligence II	3
Ethical Foundations (3 credits, choose one)		**3**
PHIL 451 AI, Ethics, and Society		
ET 550 AI: Ethics, Privacy and Governance		
Focus/Concentration requirements		**12**
12 credits of approved coursework in a selected area "X" as outlined in program description		
Culminating experience [2]		*3*
3 credits from one of the following		
CSCI 5991	Special Research Problems	3
E T 595	Capstone Projects in Information Technology	3
SOCI 5991	Special Research Problems	3
MGMT 598	Special Research Programs	3
ACES approved research number		
Total Credits		**30**

1 Students who earned a B (or better) in CSCI 3720 Data Structures and Algorithms are not required to take this course.
2 The culminating experience credit is assigned under a corresponding research number under the student's domain area. The student should consult with an academic advisor if there is interest in developing expertise in an area not listed.

The Road Map, need to be in the standard format for the catalog because this piece of the form will be imported directly onto the catalog page. See the Student Records Website for a guide. All courses and the total number of credits at the bottom of the roadmap should match the Course Requirements list.

Road Map

The following roadmap for a student without deficiencies provides all foundational coursework in the first two terms and most of the concentration and culminating experience coursework in the second two terms.

- **First semester**: Programming Foundations, One required AI Foundation course and Ethics.
- **Second semester**: Second AI foundation course, AI elective course and first course in the X concentration.
- **Third semester**: take three remaining courses from the X concentration
- **Fourth semester**: Complete the capstone culminating experience course.

First Year		
Semester 1		**Credits**
CSCI 4520	Python Programming I	3
CSCI 5405	Artificial Intelligence I	3
PHIL 451 AI, Ethics, and Society		3
	Credits	**9**
Semester 2		
CSCI 5420	Applied Machine Learning I	3
AI Elective		3
First Course in Concentration		3
	Credits	**9**
Second Year		
Semester 1		
Second Course in Concentration		3
Third Course in Concentration		3
Fourth Course in Concentration		3
	Credits	**9**
Semester 2		
Capstone Course		3
	Credits	**3**
	Total Credits	**30**

Will this Master's degree program have a Master's Accelerate Program (MAP) option and roadmap?

No

The admission requirements are needed if the program has a specialized admission process that exceeds the campus requirements for either the Undergraduate or Graduate admission standards.
• For graduate programs, the Graduate School asks for the following information (Provide a summary of the documents and specific information each student will need to provide to be considered for the program): Description, Statement of Purpose/Letter of Interest; Specialty Letter of Interest; Resume; Writing Sample; GRE; GMAT; Special Questions (if yes, what questions need to be answered);

Letters of Recommendation (how many are required); NMSU Faculty Representative (if yes, how many); Foreign Language; WES Evaluation; Special License or Verifications (what license/verification)

Admission Requirements

- All students are required to submit an application to be considered for the admission into the program. Before an applicant's file can be reviewed for full program admission, all application documents must be received in NMSU Graduate School. Incomplete applications will not be sent to departments for admission review.
- ADMISSION REQUIREMENT: Regular admission to the program requires a bachelor's degree in any discipline from an accredited program. An entering student should have completed one course in probability and statistics, a course in linear algebra and have working knowledge of derivatives. Previous knowledge of a programming language is strongly encouraged. Deficiencies in the required prerequisite courses must be made up completed with a grade of "B" or better before entrance into the graduate program. Industry experience in programming/algorithms and computing can be considered as part of the admission evaluation process and an interview can be conducted with the applicant to check their credentials.
- LETTER OF INTENT: Prospective students need to include a letter of intent with their applications, describing past experience, career goals, and a description of how participation in this Master program would help in achieving such goals.
- OFFICIAL TRANSCRIPTS: Transcripts are required from all post-secondary educational institutions from which the applicant earned a degree (beginning with first baccalaureate) and all enrollment in graduate level course work beyond the bachelor's degree.
- LETTERS OF RECOMMENDATION: Two letters of recommendation, with at least one from a person familiar with the candidate's academic performance.

Does this program lead to licensure, yes or no?

No

Is credit for prior learning built into the program, if yes explain?

No

Faculty Members Employed to Teach in the Program

Existing Personnel

Son Cao Tran

FTE

1.0

Course load and courses they will teach in the proposed program

CSCI 5405, CSCI 5750, CSCI 4520, CSCI 4525

Courses taught in other programs currently offered

Majority of the undergraduate courses in the Computer Science program

Description of academic qualifications

Ph.D. in Computer Science (UTEP 1993)
Outstanding dissertation award
H-index: 37
Over 9,000 citations
Research funded by a variety of agencies – e.g., NSF, Dept. Energy, NASA
NM EPSCoR outstanding mentor award
Department Head of Computer Science since 2014

Prior instructional responsibility and other experiences relevant to assigned courses

Former chair of the CS Graduate Program
Mentored over a dozen of doctoral students and dozens of Master's students

For graduate programs, document scholarship and research capability

Over 200 peer-reviewed publications
PI of extramural grants for over $4M
H-index: 37
His students received best paper awards at several international conferences and venues

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Existing Personnel

Huiping Cao

FTE

1.0

Course load and courses they will teach in the proposed program

2+1, CSCI 5405, CSCI 5420, CSCI 5430

Courses taught in other programs currently offered

CSCI 2220, CSCI 2320, CSCI 4415, CSCI 4430, CSCI 4515

Description of academic qualifications

Ph.D. Computer Science (HKU 2007)
Full Professor of Computer Science and Associate Department Head
Former Chair of the Computer Science Graduate Programs

Prior instructional responsibility and other experiences relevant to assigned courses

Mentored several Master's and Doctoral students
Active researcher in machine learning, data mining and artificial intelligence

For graduate programs, document scholarship and research capability

Former lead of Data Science Node
Research funded from a variety of federal agencies for several million dollars
H-Index: 21
Extensive research experience in interdisciplinary applications of machine learning – including agriculture, energy systems, and astronomy

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Existing Personnel

Chrystabel Wayllace

FTE

1.0

Course load and courses they will teach in the proposed program

2+2, CSCI 5440, CSCI 5750, CSCI 5425, CSCI 5420

Courses taught in other programs currently offered

CSCI 5250, CSCI 5410, CSCI 4430, CSCI 4410, CSCI 4140, CSCI 3720, CSCI 3410

Description of academic qualifications

Ph.D. Computer Science (WUSTL 2023)
Assistant Professor of Computer Science
Experts in AI and machine learning applications to the development of intelligent agents
Mentorship experience of high school and undergraduate students

Prior instructional responsibility and other experiences relevant to assigned courses

Offered several undergraduate CS courses
Experience as mentor of students, especially from traditionally underrepresented groups
Designed innovative curricula for the introduction of AI to students from all disciplines

For graduate programs, document scholarship and research capability

14 peer-reviewed publications
H-index: 7
Postdoctoral research experience at the University of Alberta, Canada

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Existing Personnel

Tuan Le

FTE

1.0

Course load and courses they will teach in the proposed program

2+2, CSCI 5405, CSCI 5420, CSCI 5425, CSCI 5435, CSCI 5440

Courses taught in other programs currently offered

CSCI 4415, CSCI 4430, CSCI 4140, CSCI 3790

Description of academic qualifications

Ph.D. Computer Science (Singapore Management University 2016)
Recipient of several research and teaching awards, including a nomination to the Patricia Christmore Teaching Award

Prior instructional responsibility and other experiences relevant to assigned courses

NMSU co-lead of the Master in Data Analytics degree program

For graduate programs, document scholarship and research capability

Extensive publication record in highly competitive AI venues
H-index: 9
Recipient of NSF EPSCoR RII: Research Fellowship award
Co-PI of a NSF REU Site grant
Highly engaged in students mentoring and outreach – e.g., co-organizer of Data Mining Challenge at the 3 most recent Great Minds in STEM conferences

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Existing Personnel

Stylianos Vasileiou

FTE

1.0

Course load and courses they will teach in the proposed program

2+2, CSCI 5405, CSCI 5750, CSCI 5440, CSCI 4525, CSCI 4520

Description of academic qualifications

Ph.D. in Computer Science (WUSTL 2025)
MSc in AI from University of Southampton

Prior instructional responsibility and other experiences relevant to assigned courses

Previous teaching experience at Washington University in St. Louis in AI

For graduate programs, document scholarship and research capability

Extensive publication record in symbolic AI and Explainable AI
H-index: 6

Existing Personnel

Timothy Cleveland

FTE

1.0

Course load and courses they will teach in the proposed program

1+1, any ethics course

Courses taught in other programs currently offered

ethics, modal logic

Description of academic qualifications

Ph.D. in Philosophy (John Hopkins University 1986)

Prior instructional responsibility and other experiences relevant to assigned courses

Department Head of Philosophy
Full Professor

For graduate programs, document scholarship and research capability

Author of 2 books and a large number of peer-reviewed manuscripts

Existing Personnel
Mario Renteria Pinon

FTE
1.0

Course load and courses they will teach in the proposed program
2+1, Hardware-aware Edge AI and Machine Learning

Courses taught in other programs currently offered
VLSI, digital and analog design

Description of academic qualifications
Ph.D. in Electrical Engineering (NMSU 2023)
MS University of Washington

For graduate programs, document scholarship and research capability
H-Index: 4
12 peer-reviewed publications in the last 2 years
Postdoctoral Fellow for the IMPACT lab at the University of South Alabama, where he conducted research on AI hardware implementation

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Existing Personnel
Rolfe Sassenfeld

FTE
1.0

Course load and courses they will teach in the proposed program
2+2 AI Data Center Designs and Technologies

Courses taught in other programs currently offered
Enterprise architectures

Description of academic qualifications
Ph.D. in Computer Engineering (UTEP 1998)
MS Electrical and Computer Engineering

Prior instructional responsibility and other experiences relevant to assigned courses
Program Director, Master in Information Technology

For graduate programs, document scholarship and research capability
H-index: 2
Several publications in the area of effective technology education

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Existing Personnel
Mark Lawrence

FTE
1.0

Course load and courses they will teach in the proposed program
3+3, AI and cybersecurity in critical infrastructure systems, Securing IoT Systems with Artificial Intelligence

Courses taught in other programs currently offered
Data security, enterprise security

Description of academic qualifications

Ph.D. in Computer Engineering

Prior instructional responsibility and other experiences relevant to assigned courses

College Associate Professor of Information and Computer Technology

For graduate programs, document scholarship and research capability

Author of several manuscripts on crybersecurity and machine learning

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Existing Personnel

Kenneth Carroll

FTE

1.0

Course load and courses they will teach in the proposed program

2+2, all courses related to AI in agriculture

Courses taught in other programs currently offered

rity of the undergraduate courses in Plant and Environmental Sciences focused on hydrology and water management # Support for the Water Science & Management graduate program

Description of academic qualifications

Ph.D. in Hydrology and Water Resources (University of ARizona)
H-index: 32
Over 3,000 citations

Prior instructional responsibility and other experiences relevant to assigned courses

Heavily involved in research and outreach focused on AI and Machine Learning uses in hydrology and water management
Mentored several postdocs, Ph.D. students and Master's students

For graduate programs, document scholarship and research capability

PI of extramural grants from various agencies, like NSF, Elephant Butte Irrigation District, USGS, Department of Energy
H-index: 32
Associate Editor of Vadose Zone Journal

Existing Personnel

Elizabeth Stringam

FTE

1.0

Course load and courses they will teach in the proposed program

3+3, ACES 5xxx AI Applications in Fiber and Food Systems, or ACES 5xxx Emerging topics in AI in Agriculture

Courses taught in other programs currently offered

Graduate and Undergraduate courses in Revenue Management, Management Strategies, Services Management, Lodging and Resort Management, Current Issues

Description of academic qualifications

Ph.D. in Education (Northern Arizona University 1991)
Master of Arts in Educational Learning Technologies

Prior instructional responsibility and other experiences relevant to assigned courses

Director for NMSU Global for the College of ACES
Graduate Program Director
Committee Chair and mentor for master's students research in technology applications in HRTM
Teach and mentor students on applications of AI and Robotics for HRTM's Independent Research course.
Mentor Post-Doctoral Researcher on applications of algorithmic management and robotics.
Recipient of Westhafer Award for Excellence in Teaching, and the Leading the Way Award for mentorship in online learning
Certification in Hotel Industry Analytics

Previously Certified Quality Matters Master Reviewer
Co-Author of Hotel and Guestroom Technology chapter in Hospitality and Tourism Information Technology textbook.

For graduate programs, document scholarship and research capability

Extensive research experience in technology applications including algorithmic management, robotics, and website usage.
CoPI for a collaborative multi university NSF funded research team examining AI implementation
H-index: 18, i10 Index 23
Over 1,200 citations
Author of a published academic book, and co-author of four academic textbook chapters.

Existing Personnel

Israel Joukhadar

FTE

1.0

Course load and courses they will teach in the proposed program

3+3, ACES 5xxx AI Applications in Agriculture, Plant, and Environmental Sciences, or ACES 5xxx Emerging topics in AI in Agriculture.

Courses taught in other programs currently offered

Graduate and Undergraduate courses in Plant and Mineral Nutrition

Description of academic qualifications

Ph.D. in Plant and Environmental Sciences (New Mexico State University 2019)
Master of Science in Plant and Environmental Sciences

Prior instructional responsibility and other experiences relevant to assigned courses

Teach and mentor students on applications of AI for field research and practical application, including development of robotic sensing, IoT, and mechanical harvest

For graduate programs, document scholarship and research capability

Extensive research experience in technology applications within sensor deployment, field agriculture, and irrigation systems.
CoPI for an interdisciplinary USDA funded research team examining robotic sensing and vegetable mechanical harvest research.
Over 500 citations

Existing Personnel

Mohammad Abdullah Al B

FTE

1.0

Course load and courses they will teach in the proposed program

2+2, Python Programming, DL, ML application in Agriculture or teach with colleagues. Fundamental Mathematics behind AI

Courses taught in other programs currently offered

GENE 305

Description of academic qualifications

PhD in Quantitative Genetics and Plant Breeding with application in Maize Breeding from North Dakota State University, Fargo
o Discovered limited transpiration genotypes to maximize yield under drought conditions
o Ideotype Breeding: Harness high-throughput UAS imagery to sorghum yield

Prior instructional responsibility and other experiences relevant to assigned courses

Developed and Applied Genomic Prediction, Phenomic Prediction for Selection of Suitable Germplasm. I also worked with Deep Learning Computer Vision models like Faster-R CNN (Detectron 2), You Only Look Once (YOLO) series, Segment Anything Model (SAM).
Successfully counted sorghum panicles in the agricultural field, determined panicle size, counted number of seeds, also applied machine learning models to forecast sorghum yield.

For graduate programs, document scholarship and research capability

• Secured three grants

o Water-use efficient sorghum development for Kansas through high-throughput molecular marker discovery and deployment, Kansas Water Institute, U.S. Geological Survey, $50,000 (2024-2026).
o Revealing combining abilities of wheat (T. aestivum L.) cultivars for days to heading, yield, and other agronomic traits, Bangladesh Agricultural University Research System, 150,000 (BDT) (2015-2016).
o Genetic dissection of maize (Zea mays L.) inbreds for yield, early maturity and other agronomic traits for developing need-based cultivars, Ministry of Agriculture, Government of Banladesh, 200,000 (BDT) (2014-2015)

Existing Personnel

Heather Harper

FTE

1.0

Course load and courses they will teach in the proposed program

3+3, Digital and Social Media, Textual Analysis of Digital and Social Media, Seminar in Text Analysis

Courses taught in other programs currently offered

Courses on textual and quantitative analysis of text, media and communications

Description of academic qualifications

Ph.D. in Sociology (UC San Diego 2022)
Master of Science in Sociology

Prior instructional responsibility and other experiences relevant to assigned courses

Teach and mentor students on applications machine learning and natural language processing technologies to analysis of political processes

For graduate programs, document scholarship and research capability

Extensive research experience in technology applications to analysis of policies, policy design, content development, political contention, and public financing

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Existing Personnel

Marshall Taylor

FTE

1.0

Course load and courses they will teach in the proposed program

3+3, Digital and Social Media, Textual Analysis of Digital and Social Media, Seminar in Text Analysis, Sociological Research: Analysis, Advanced Seminar in Data Visualization

Courses taught in other programs currently offered

Courses on sociological research analysis, quantitative analysis, social networks, contemporary social problems

Description of academic qualifications

Ph.D. in Sociology (Notre Dame 2019)
MA in Sociology

Prior instructional responsibility and other experiences relevant to assigned courses

Teach and mentor students on applications machine learning and natural language processing technologies to analysis of cultural documents, environmental and political impacts

For graduate programs, document scholarship and research capability

Extensive research experience in technology applications to analysis of policies, policy design, content development, political contention, and public financing.
H-index: 13
30+ peer reviewed publications and one book
Recipient of Early Career Award from the NMSU University Research Council
PI/Co-PI for several federal grants, including lead PI for a NSF grant on Public Health Messaging.

Existing Personnel
David G. Ortiz

FTE
1.0

Course load and courses they will teach in the proposed program
1+1, Foundations of Social Theory, Seminar in Sociological Research, Seminar in Contemporary Theory

Courses taught in other programs currently offered
Courses on sociological research analysis, Sociology of Digital Media, Digital Media and Activism

Description of academic qualifications
Ph.D. in Sociology (Notre Dame 2008)
MA in Sociology

Prior instructional responsibility and other experiences relevant to assigned courses
Department Head of Sociology
Faculty Fellow for the Center of Latin America and Border Studies

For graduate programs, document scholarship and research capability
Supervised 7 Master's Theses
Extensive research experience in quantitative methods, border and Latin America studies
H-index: 11
~1,000 citations

Existing Personnel
James Ric

FTE
1.0

Course load and courses they will teach in the proposed program
2+2, Perspectives on Sociology, Seminar in Contemporary Theory, Seminar in Sociological Research

Courses taught in other programs currently offered
Courses on globalization, environmental sociology, sociological theory, social problems

Description of academic qualifications
Ph.D. in Sociology (Washington State University 2006)
MS in Sociology

Prior instructional responsibility and other experiences relevant to assigned courses
Full Professor of Sociology

For graduate programs, document scholarship and research capability
Extensive research supervision with graduate and undergraduate students
H-index: 17
Over 1,600 citations
Publication record with one book and over 30 peer-reviewed manuscripts

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Existing Personnel
Sandra Way

FTE
1.0

Course load and courses they will teach in the proposed program
2+2, Seminar in Social Networks, Seminar in Sociological Research, Seminar in Qualitative Research Methods

Courses taught in other programs currently offered

Courses on sociology of education, sociology of family, perspectives on sociology

Description of academic qualifications

Ph.D. in Sociology (University of Arizona 2003)
MA in Sociology

Prior instructional responsibility and other experiences relevant to assigned courses

Associate Professor of Sociology

For graduate programs, document scholarship and research capability

Former Director of Graduate Studies in Sociology
Co-PI of NSF awards for over $6M
Extensive research supervision with graduate and undergraduate students
H-index: 7
Over 500 citations on 17 peer-reviewed manuscripts

Existing Personnel

Donovan Fuqua

FTE

1.0

Course load and courses they will teach in the proposed program

2+2, Supply chain and machine learning

Courses taught in other programs currently offered

Introduction to information systems, business analytics

Description of academic qualifications

Assistant Professor of Information Systems
Ph.D. in Industrial Engineering (NMSU)
MS in Industrial Engineering

For graduate programs, document scholarship and research capability

H-index: 4
Extensive publication record in the area of supply chain and machine learning
Expertise in Deep Sequence Model Learning, Feature Extraction/Analysis, Multivariate Modeling, Time Series and Network Analysis
Recently graduated his first doctoral student

Existing Personnel

Faruk Arslan

FTE

1.0

Course load and courses they will teach in the proposed program

2+2, supply chain management

Courses taught in other programs currently offered

Business analytics, database systems

Description of academic qualifications

Assistant professor of Information Systems
Ph.D. in International Business (Univ. Texas El Paso 2015)
MBA

Prior instructional responsibility and other experiences relevant to assigned courses

Former Director of the Cybersecurity Institute, Univ. of Houston Clear Lake
Affiliated to the NMSU Supply Chain Entrepreneurship Center

For graduate programs, document scholarship and research capability

H-index: 6
27 peer-reviewed publications
Co-PI for external grants for over $200K
6-Sigma Green Belt Certification

Existing Personnel

Carlo A. Mora-Monge

FTE

1.0

Course load and courses they will teach in the proposed program

1+1, AI and Machine Learning for Supply Chain Decision-Making, Advanced Supply Chain Intelligence: Optimization and Generative AI

Courses taught in other programs currently offered

Business analytics

Description of academic qualifications

Ph.D. Manufacturing Management and Engineering (University of Toledo, 2007)
MS Manufacturing Management

Prior instructional responsibility and other experiences relevant to assigned courses

Associate Dean for Research, College of Business

For graduate programs, document scholarship and research capability

H-Index: 13
over 1,300 citations

Existing Personnel

Victor Pimentel

FTE

1.0

Course load and courses they will teach in the proposed program

2+2, Supply chain management

Courses taught in other programs currently offered

Project management, operation management

Description of academic qualifications

Ph.D. in Operation Management (Washington State Univ. 2016)
IEEE Six-Sigma Green Belt

For graduate programs, document scholarship and research capability

H-index: 9
~1,300 citations
25 peer-reviewed publications

Existing Personnel

Rebecca Scott

FTE

1.0

Course load and courses they will teach in the proposed program

2+2, Supply chain management

Courses taught in other programs currently offered

Project management, operation management

Description of academic qualifications

Ph.D. in Logistics, Material and Supply Management (Univ. North Texas 2015)
MBA

For graduate programs, document scholarship and research capability

H-index: 12
48 peer-reviewed publications

Documentation of department faculty support

AI_Master_Support.pdf
memo_ai_curriculum.pdf

Curriculum Committee Approval

memo_placeholder_curriculum_cmte_aix.pdf

Gray Associates Data

GrayDI_AI_Report_110102_national_masters_and_grad_certs.pdf

NM Higher Education Department

Is there a certificate embedded in the degree program? If so, list certificates and courses required?

NMSU intends to offer a Graduate Certificate in Foundations of Artificial Intelligence (15 credits), essentially consisting of the core (non-concentration) requirements for this program, specifically,
* CSCI 4520 – Python Programming I
* CSCI 5405 – Artificial Intelligence I
* CSCI 5420 – Machine Learning or EE 565 Machine Learning I
* PHIL 451 – Ethics and Societal Impacts of AI and Digital Technology
* CSCI 5440 - Generative AI or CSCI 5425 – Introduction to Deep Learning or CSCI 5435 – Text Mining and Natural Language Processing

Does the master's level degree articulate to a doctoral program, yes or no?

No

Describe your institution's plan for periodic evaluation of program effectiveness. Include criteria that will be used to determine effectiveness.

NMSU is committed to the continuous improvement and sustained excellence of the Master of Applied AI program through a rigorous periodic evaluation process, conducted biennially to ensure its effectiveness and relevance. This comprehensive review will engage diverse stakeholders, including program faculty, current students, alumni, and the dedicated advisory board associated to the NMSU Institute of Applied Practice in AI and Machine Learning; the advisory board has broad representation from industry and academia, in AI and in the relevant application domains covered by the proposed degree program. Key criteria for determining program effectiveness will encompass several dimensions:
* Student Success and Career Outcomes, measured by graduation rates, time-to-degree completion, post-graduation employment rates in target AI+X fields, and alumni career progression and impact.
* Curriculum Quality and Relevance, assessed through direct feedback on course content, the successful achievement of defined learning objectives in capstone projects and theses, and alignment with evolving industry demands and research frontiers as validated by our external partners.
* Program Impact and Innovation will be evaluated through faculty research output, the fostering of interdisciplinary collaborations, and the program's contribution to the broader AI and domain-specific communities. This systematic approach will enable us to adapt the curriculum, enhance student support, and maintain the program's leading edge in applied AI education.

The proposed program must meet one or more specified needs within the state or region. Clear and convincing evidence must be provided of the reality and extent of such need.

Evidence of Need from NMSU Students
A student survey conducted in June 2025 from students across the NMSU campus produced the following outcomes:
• 213 students responded to the survey; the respondents represented 43 different majors from all five academic colleges
• 50% of the respondents are expected to graduate within the Fall 2025-Spring 2026 time frame
• The respondents demonstrated concerns about their understanding of AI and ability to use AI; 41% indicated their understanding of AI as average and 30% indicated their understanding of AI as “very basic”
• 78% of the respondents indicated that working knowledge of AI is crucial to their future careers

• 62% of the respondents indicated that they would enthusiastically pursue a degree like the one we propose (and other 17% indicated that they would consider it if available)

Alignment with Key Industries in the New Mexico Economic Development Plan:
The proposed Master's in Applied AI (AI+X model) aligns with New Mexico's strategic industry focus by fostering AI-driven innovation and workforce development across key economic sectors. The program will contribute to New Mexico's economic growth by providing expertise to embed AI solutions in the following priority sectors:
• Quantum Computing & Advanced Technology: quantum machine learning, cryptographic security, and computational physics applications
• Renewable Energy & Sustainability: AI-powered smart grid systems, energy forecasting, and climate modeling will enhance New Mexico's clean energy transition.
• Defense & National Security: cybersecurity, autonomous defense systems, and threat analysis
• Manufacturing & Advanced Industry: Manufacturing 4.0, leveraging AI for robotics automation, predictive maintenance, and supply chain efficiency
• Healthcare & Biomedical Innovation: advanced AI-driven solutions in medicine and personalized healthcare
• Sustainable and Value-Added Agriculture: precision crop and livestock management, natural resource management, and food and fiber systems
Additionally:
• Albuquerque saw a 37% increase in AI-related job postings, driven by major tech investments such as Intel's $3.5#billion expansion adding ~700 jobs
• Las Cruces experienced a 60% surge in AI specialist job listings, with these roles now comprising 14.3% of all tech openings, with salaries in the range of $109K-$185K
• According to the U.S. Department of Labor, jobs for New Mexico's AI scientists and engineers, defined as computer information and research scientists, are projected to increase by 28 percent in the decade leading up to 2030
• About 15% of the job postings at Sandia National Labs and Los Alamos National Labs require knowledge of AI or Machine Learning
• Indeed.com currently shows 100+ open positions in AI applied to healthcare, manufacturing, food and agriculture, and training in New Mexico; 48 positions requiring AI and machine learning skills are posted in the New Mexico State Personnel Office (SPO)
• Growing presence of industries that specialize in use of AI technologies in New Mexico, like Intel, Curia, RS21, NTxBio, Silent Falcon UAS, and Stellar Science
• DoE designating Los Alamos and Sandia National Laboratories for rapid AI data center construction
• Nationally, 1 in 4 U.S. tech job postings require AI, growing 323% in 8

If the program fills a regional workforce need, describe collaboration between your institution and regional employers in the program development.

* Collaborations with Sandia National Labs and Los Alamos National Labs
* Collaboration with the Public Education Department

Identify where similar degree programs are offered by other public higher education institutions in New Mexico.

• No program similar to this is available in the state of New Mexico
• NMSU currently offers a Professional Master Degree in Data Analytics which touches some aspects of Machine Learning but does not address the broader technologies of AI nor explores aspects of ethics and applications

If similar programs are offered at other public higher education institutions in New Mexico, provide a rationale for offering an additional program.

No similar program is available in other public higher education institutions in New Mexico

List any nearby non-New Mexico institutions of higher learning where the program is being planned or offered, particularly WICHE member institutions.

Virtually all of the programs listed below are new degree programs starting in the last couple of years.

Programs in WICHE states:
California: MS in Applied AI, University of San Diego, online, Exclusively focused on technology and no domain-specific emphases
Colorado: Master in AI and Machine Learning, Colorado State University Global, online, Exclusively focused on AI technology, no applied emphasis
Arizona: MS in AI for Business, University of Arizona, online, mostly focused on business analytics and data mining
Utah: MS in Applied AI, Utah Valley University, online, similar concept to our proposal but based on collection of electives instead of concentrations
Oregon: MS in AI, Oregon State University, face-to-face, Exclusively focused on AI technology, no applied emphasis
Washington: MS in Applied AI, Northwest University, online, similar concept to our proposal but collection of different area electives instead of concentrations
Wyoming: MS in AI, University of Wyoming, face-to-face, Exclusively focused on AI technology, no applied emphasis
South Dakota: MS in Analytics and Applied AI, Dakota State University, online and face-to-face, Most similar to our proposal, with concentrations in health, business and information systems

Programs in non-WICHE states:

Texas: MS in AI, University of Texas El Paso, face-to-face, Exclusively focused on AI technology, no applied emphasis
Texas: MS in AI, University of Texas Austin, online, Exclusively focused on AI technology, no applied emphasis
Illinois: MS in AI, DePaul University, Northwestern University, Illinois Institute of Technology, all online and face-to-face, Exlcusively focused on AI technology with no applied emphasis
Michigan: MS in AI, University of Michigan Dearborn and Wayne State University, face-to-face, Exclusively focused on AI technology with no applied emphasis
Indiana: Master in Applied AI, Purdue University, online, Exclusively focused on AI technology with no applied emphasis
Massachusetts: MS in Applied AI, Clark University, face-to-face, similar concept to our proposal with individual electives instead of concentrations
Massachusetts: Professional Master in Applied AI, Northeastern University, face-to-face, Exclusively core AI technology with no applied emphasis
New York: Master in Applied Human-Centered AI, Syracuse University, face-to-face, core AI content plus data science
Maryland: MS in Applied Machine Learning, University of Maryland College Park, face-to-face, Exclusively core AI technology with no applied emphasis
New Hampshire: MS in Applied AI, Rivier University, face-to-face, Exclusively focused on core AI technology

Estimated enrollment figures in the following table are based on the evidence of need from NMSU students surveyed as outlined above and evidence of workforce need outlined in the discussion of alignment with key industries in New Mexico.

Enrollment and Graduation Projections

Student Type	Year 1	Year 2	Year 3	Year 4	Year 5
New Students	5	10	15	20	25
Continuing Students	0	4	9	13	19
Graduates	0	0	4	9	13

Annual Retention Rate Target (%)

90

Target 100% Graduation Rate (%)

90

Target Job Placement Rate (%)

100

Describe the faculty resources that are needed to initiate the program. Will any additional faculty be needed?

The program will be able to be launched with the existing faculty resources available across NMSU.
New lines: NMSU has committed to add new faculty lines that will contribute to the long-term development and growth of the program
A new line dedicated to providing instruction for foundational AI coursework has been already committed with a start date of Fall 2025
Three additional lines will be added with a tentative start date of Fall 2026. These lines are joint appointments between Computer Science (with AI expertise) and one of the areas of concentration of the degree program. They will ensure necessary instructional resources for concentration coursework and coordinating the culminating experiences in each students respective domain area.

Descibe the library and other academic support resources that are needed to initiate the program. What, if any, additional resources will be needed?

Please see attached letter from the NMSU Dean of Library with the assessment of Library resources for the program.

Describe the physical facilities of the institution that will be used for the first five years of the program. Will additional space or modifications of existing space be required within the first five years of program operation.

Institute AI Office: NMSU is committing space in Breland Hall to support the management of the program. The space includes an office for a program manager and a larger space for meetings.
Being primarily an online program, the program does not require any additional dedicated space.

Describe the institution's equipment and technological resources needed for the first five years of the program? What, if any, additional equipment will be needed?

The existing computing infrastructure is adequate to support the needs of the project, thanks to the investment made by the state in expanding the bandwidth and computing infrastructure associated to NMSU Global.

Describe any other operating resources needed to initiate the program.

No additional operating resources are requested to initiate the program.

Are there existing external facilities that will be used? Have agreements been established to ensure use of the those facilitates?

No external facilities will be used

Provide a clear analysis of the projected cost of the proposed program and the sources of funding that will support it for the first five years that the program will be offered. Include a discussion how any of the needed resources discussed in your attachment. This should be completed in collaboration with your institution's financial office.

Budget-Information-for-new-proposals.pdf

Letters of Support

MS in AI 2025 Library Resources Report, 6-23-25.pdf
Letter of Support Masters in Applied AI - NMSU.pdf
SNL_Letter.pdf
NMSU-support-letter-2025-06-24.pdf
NMSU-AI_June2025.pdf
NMSU-AppliedAI.pdf
BUS.pdf
AS.pdf
HEST.pdf
ENGR.pdf
ACES.pdf

Accreditation

Is the program seeking specialized accreditation?

No

Is specialized accreditation required for licensure or practice in the program?

No

Has the program already obtained the appropriate specialized accreditation? If so, attach a copy of the letter from the agency granting accreditation?

No

If the program has not yet obtained accreditation but has begun the process of seeking or plans to seek specialized accreditation, specify the name of the agency and provide the time-line for completing the process.

No accreditation is pursued for this program.

If the program does not plan to seek specialized accreditation, provide a rational for not-seeking accreditation here. (if there is not a specialized accrediting organization for this program, indicate so as your rationale).

There is no specialized accrediting agency for this program, however we will traditional outlets, such as ABET (Accreditation Board for Engineering and Technology) or ACM/IEEE-CS and AAAI for future accreditation and recommendations.

If the program includes any of the following, explain how it will ensure that student work and levels of knowledge competencies achieved will be comparable to those achieved through traditional formats: (Award credit for prior learning; use of compressed time frames; use of on-line deliver; inclusion of accelerated formats; or other approaches to learning.)

This is an online degree program but relies on content developed by faculty members conducting cutting-edge research in the relevant disciplines. The content of the courses will be at the forefront of AI and its applications and the online delivery method will ensure broad access to the content without any compromise in terms of depth and quality.

Will the program be part of a contractual or consortial arrangement (yes/no, explain)?

No

If the program is planning any involvement by external organizations (other than from accredited higher education institutions) in the key operations as identified below, provide the information as requested.

Type of Involvement	Name of External Organization	Percent of Involvement
Recruitment and admissions of students	none	0

Briefly describe the planning process for determining the need for this new program, including the role of faculty in the planning and approval process.

The initial concept of the program originated from a proposal made by the faculty members in the Department of Computer Science – they first advocated for the need of establishing an AI+X type of degree program.
• The concept was proposed to the NMSU AI council – a governing body which includes representatives from all NMSU Colleges; the proposal was vetted and enthusiastically supported.
• The design of the curricula was performed by teams of faculty members, operating with the support of their departmental and college academic leadership.

Describe the process for assessing and improving student learning in the proposed program.

NMSU employs an embedded assessment framework to ensure the continuous evaluation and improvement of student learning outcomes in the Master in Applied Artificial Intelligence program. Key courses within the curriculum have been designated as assessment checkpoints, where students demonstrate their achievement of program outcomes. These key courses are carefully selected to provide comprehensive coverage of all program outcomes.
Student work—including assignments, projects, laboratory exercises, and exams—is systematically collected from these courses to serve as evidence of outcome achievement. These materials undergo review by external evaluators, including faculty members not directly involved in the courses and representatives from the NMSU AI Council. Their evaluations determine the extent to which students in each assessed course have met the program's learning goals.
To ensure ongoing improvement, the program steering committee conducts a formal review of evaluation results each semester. This review informs strategic planning and targeted adjustments to enhance student achievement of the program outcomes.
Course-Level Outcome Alignment: Each course within the Master's program is designed to support specific course outcomes aligned with broader program outcomes. These course outcomes are collaboratively developed by instructing faculty and the program steering committee to maintain a logical and progressive structure throughout the curriculum.
At the end of each semester, both students and faculty evaluate how effectively each course section has fulfilled its objectives. Faculty members document the specific program outcomes achieved in their courses and provide supporting evidence. Additionally, both students and faculty contribute feedback regarding:
• The course's relevance within the overall program structure.
• Opportunities for improvement in course content, learning activities, and instructional methods.
This process facilitates continuous enhancement of the curriculum by integrating feedback into future course offerings.
Continuous Review Process: At the start of each semester, the steering committee convenes a faculty meeting to review:
• External evaluations from prior semesters.
• Student and faculty feedback collected from course-level assessments.
Based on this analysis, the committee formulates actionable plans to refine curriculum design, instructional practices, and student support strategies.

Assessment Measures
Overall Program Success Criteria: The success of the Master in Applied AI program is determined by students' ability to demonstrate mastery of all program learning outcomes by graduation. To assess this achievement, the steering committee employs two types of measures:
1) Direct Measure: Embedded Course Assessments: Designated key courses serve as assessment points where students showcase their competency in program learning outcomes. These courses ensure comprehensive evaluation across all outcomes. During the assessment process:
a) Student work, including homework, laboratory assignments, projects, and exams, is collected.
b) External evaluators (faculty members outside the course and NMSU AI Council representatives) review the materials to determine whether students have met program expectations.
c) A customized rubric—aligned with specific learning outcomes for each assignment—is used for evaluation.
The steering committee reviews the external assessment results and implements strategies to improve student achievement of program outcomes.
2) Indirect Measure: Student & Faculty Self-Assessment: Each course integrates structured self-assessment by students and faculty to measure progress toward program outcomes:
a) Faculty members identify program outcomes fulfilled within their courses and provide supporting evidence.
b) Students rate how well the course objectives were met and offer insights into course effectiveness within the broader program structure.
The steering committee analyzes this feedback at the end of each semester and develops improvement plans based on trends and emerging needs.

Implementation & Continuous Improvement
By integrating both direct and indirect measures, this assessment plan ensures a data-driven approach to curriculum refinement. The embedded model allows NMSU to proactively respond to evolving industry demands, student needs, and educational best practices—ultimately strengthening the quality and relevance of the Master's program.

Describe the process for assessing and improving student persistence and completion, in the new program.

The Master in Applied Artificial Intelligence program at NMSU integrates a data-driven approach to monitor student progress, identify challenges, and implement strategic interventions to enhance retention and graduation rates. This framework includes both formative assessments (tracking student engagement and performance throughout the program) and summative evaluations (assessing completion outcomes and long-term career impact).
Early Intervention & Progress Monitoring: To ensure students remain on track academically and professionally, the program employs:
• Predictive Analytics: Using student performance metrics (course completion rates, attendance, engagement in AI projects) to identify at-risk students early.
• Faculty Mentorship: Regular faculty-student check-ins to offer academic guidance and career advice.
• AI-Enhanced Advising: Leveraging AI-based tools for personalized learning recommendations and intervention strategies.
Each student in the program will be matched with a graduate advisor upon entrance in the program and an Individual Development Plan (IDP) developed, to be reviewed at the completion of each semester.
Academic Support & Course Flexibility: Recognizing that many students may be working professionals, career changers, or non-traditional learners, the program ensures adaptability through:

• Customizable Learning Pathways: Opportunities for students to select AI specializations that align with their domain expertise (e.g., AI in agriculture, business, or social sciences).
• Support Resources: Dedicated AI tutoring, technical workshops, and faculty-led study groups.
• Flexible Course Delivery: Online and asynchronous options to accommodate students with work or family commitments.
Engagement & Community Integration: To increase student motivation and program connection, the Master in Applied AI fosters a collaborative learning environment through:
• Industry Partnerships: Internships, corporate-sponsored AI projects, and guest lectures from AI professionals.
• AI Council Engagement: Opportunities for students to contribute to ethical AI discussions and interdisciplinary innovation.
• Student-Led Initiatives: AI hackathons, research symposiums, and mentorship programs to foster collaboration.
Career Readiness & Post-Graduation Tracking: To ensure students successfully transition into AI-related roles, the program integrates:
• AI Workforce Development Support: Resume workshops, job placement services, and career counseling.
• Longitudinal Tracking: Alumni surveys and employment outcome analysis to refine program effectiveness.
• Advisory Board Feedback: Continuous input from industry leaders to align curriculum with evolving AI trends.
Continuous Review & Improvement: The steering committee conducts regular assessments of student persistence and graduation rates, reviewing:
• Semester Evaluations: Faculty and student feedback on course difficulty, pacing, and learning effectiveness.
• Completion Milestones: Identification of barriers to graduation, such as technical skill gaps or workload concerns.
• Data-Driven Adjustments: Refinements to curriculum, student support, and engagement strategies based on performance analytics.

By employing these multi-tiered assessment methods, NMSU ensures that the Master in Applied AI remains responsive to student needs, fostering a high graduation rate and strong career success.

If any of the institution's accreditation relationship (including other regional, specialized, or national accrediting agencies) are currently under or recommended for a negative status or action (e.g., withdrawal, probation, sanction, warning, show-cause, etc.)

Not applicable

If the institution is undergoing or facing substantial monitoring, special review or financial restrictions from the U.S. Department of Education or other federal or state government agencies.

Not applicable

If the institution's senior leadership or board membership has experienced substantial resignations or removals in the past year.

Not applicable

If the institution is experiencing financial difficulty through conditions, such as, a currently declared state of exigency, a deficit of 10% or more, a default or failure to make payroll during the past year, or consecutive deficits in the two most recent years.

Not applicable

Institution Specific Information Area

Primary target audience for the program (e.g., full#time, part#time, traditional college age, working adults, transfer students, military personnel, or particular ethnic group)

Traditional & Non-Traditional College Graduates
Recent graduates from STEM and non-STEM backgrounds who want applied AI expertise.
Transfer students with foundational AI knowledge seeking specialization.
Working Professionals & Career Changers
Mid-career professionals transitioning into AI-related roles within their current disciplinary area
Industry experts looking to upskill in AI without leaving their jobs.
Engineers, analysts, healthcare practitioners, educators, and business leaders integrating AI into their domains.
Part-Time Students Seeking Advanced AI Skills
Individuals balancing work, family, or other responsibilities who need flexible learning schedules.
Entrepreneurs leveraging AI for startups or innovation.
Military Personnel & Veterans
Active-duty personnel aiming for AI-related defense or civilian careers.
Veterans transitioning into AI-driven industries, especially cybersecurity, logistics, and intelligence.
Government & Public Sector Employees
Professionals in policy, law enforcement, urban planning, and public health interested in AI applications.
Those looking to address AI ethics, governance, and social impact.
It should be noted that the program strategically emphasize AI applications across industries rather than purely technical expertise. The curriculum offers customized learning pathways for different backgrounds, reinforcing AI workforce development while ensuring ethical AI practices are integrated into applied contexts.

How does the proposed program align with the department, college and university mission?

The program is interdisciplinary and does not belong to any particular department or college. Indeed, the program includes representation from all colleges at NMSU and will be housed in the NMSU Graduate School.

The development of AI capacity in research and education is an institutional priority established by NMSU President Valerio Ferme and this program is squarely in support of such institutional priority.
The program is aligned with the LEADS 2025 NMSU Strategic plan:
• Goal 1 – Enhance Student Success and Social Mobility:
o The proposed program supports Objective 1.1 (Diversify, optimize, and increase system-wide enrollment by differentiating and targeting recruitment, marketing and pricing strategies) by diversifying programs offering.
o The proposed program supports Objective 1.2 (Optimize academic program offerings, focusing on demand, quality and outcomes) by providing novel opportunities for graduate students
• Goal 2 – Elevate Research and Creativity:
o The program contributes to Objective 2.1 (Facilitate the convergence of research and creative activity to address local and global challenges, integrated with undergraduate and graduate student education) by developing an applied program specifically design to explore the role of AI to address challenges which are relevant to the local communities of New Mexico (e.g., sustainable agriculture, distributed manufacturing).
o The program supports Objective 2.2 (Intentionally grow humanities, social sciences and creative arts to achieve comprehensive excellence in research and creative activity) by providing training in the introduction of AI technology in social sciences (e.g., Sociology) and other non-STEM disciplines (e.g., education).
o The program supports Objective 2.3 (Amplify impact of research findings by addressing local needs that align with global challenges) by specifically exploring the use of AI technologies in addressing local challenges (e.g., water, energy, environment, workforce).
• Goal 5 - Build an Online Global Campus:
o The program responds to Objectives 5.1 (Provide access to quality higher education programs regardless of location) and 5.3 (Establish an educated workforce throughout New Mexico and beyond) by providing an accessible online degree program and specifically focusing on training workforce for New Mexico and for New Mexico's needs.

Discuss how admissions criteria and strategies will recruit a diverse student body?

The goal of the program is to implement criteria and strategies that will not only attract a diverse student body but also sets them up for success in their academic and professional careers. Relevant initiatives will include:
• Targeted Outreach: NMSU is part of national organizations (e.g., the Computing Alliance of Hispanic Serving Institutions) and or national research collaboration networks (e.g., the Computing Research Association RCN on AI Education), which will provide access to potential diverse pools of students for recruitment.
• Industry Partnerships: We plan to collaborate with our national labs and local AI-relevant industries to create opportunities for scholarships, internships, and job placement, attracting a more diverse applicant pool. NMSU is one of the founding institutions of the New Mexico AI Consortium, which provides working collaborations with LANL and Sandia National Labs, and offers an industry affiliation program.
• Online Presence: We will develop an active online presence through social media, webinars, and virtual open houses to reach a global audience and showcase the program's unique features.
• Alumni Network: We will leverage the alumni network to identify and recruit potential students from diverse backgrounds.
• Flexible Admission Requirements: the program will provide an holistic assessment of applications to ensure students are offered adequate access and opportunities.
• Showcase Success Stories: the program will highlight the achievements of diverse alumni and current students in your marketing materials to attract similar talent.
• Offer Bridge Programs: the program will be integrated as part of the NMSU Master Accelerated Program (MAP), enabling access to the Master's program from a variety of undergraduate programs.
• Create a Supportive Environment: we will foster a supportive and inclusive environment within the program, including mentorship opportunities, student organizations, and resources tailored to the needs of diverse students.

What controls are in place to ensure that the information presented to all constituencies in advertising, brochures, and other communications will be accurate?

The New Mexico State University Graduate School has established a rigorous process to administer and manage graduate degree programs which are inherently interdisciplinary. As part of the requirements:
• The degree program will have a dedicated program manager (currently serving the NMSU Institute for Applied Practice in AI and Machine Learning) who will oversee the marketing efforts to promote the program. The program will have a dedicated landing web page, updated each year along with the updates to the official catalog entry. Program description, catalog entry, and promotional social media postings will be assembled by the Program Manager and reviewed by the program steering committee before dissemination.
• A dedicated steering committee will be assembled to oversee the operation of the degree program and to provide timely regular assessments. The steering committee will be established as part of the existing New Mexico State University AI Council, which has representation of the leadership of all academic colleges in the university. The steering committee will meet a minimum of two times per year to assess student enrollment, student progression, graduation trends, course scheduling and program marketing.
• Additional reviews will be conducted by the NMSU Graduate School Interdisciplinary Graduate Program Advisory Council (IGPAC) as part of their annual academic assessment of interdisciplinary graduate programs.

Student Records Office Uploads

HLC wants CIP Code information that is currently being offered at both the institutional and degree level for 4-digit and 2-digit CIP codes for all new programs. This information will be provided by the University Student Records office and added to the form during the HED submissions workflow step.

Historical Documentation

1087_MAAI-Applied Artificial Intelligence_Program_Proposal_Final 08-15-2025[51].pdf

Reviewer Comments

Gabrielle Martinez (gdmart) (Mon, 30 Jun 2025 23:51:01 GMT): Rollback: Rollback, per Joe Lakey request. Additional considerations: Missing courses and will this be a Master of Science? with a major in Applied Artificial Intelligence. Just something to think of as I reviewed. Also send the Budget template to J. Lakey that NMHED will want us to use.

Gabrielle Martinez (gdmart) (Thu, 03 Jul 2025 15:13:52 GMT): Rollback: Rollback, per Joe request to add the missing courses and an additional letter of support.

Gabrielle Martinez (gdmart) (Thu, 17 Jul 2025 14:01:02 GMT): Missing courses is my concern on this proposal.

Beth Apodaca (bapodaca) (Wed, 23 Jul 2025 23:25:23 GMT): Global Program Proposal is not yet complete.

Key: 1087

College of Arts and Sciences
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Enrico Pontelli, Ph.D.
epontell@nmsu.edu

June 30, 2025

Subject: Support for the proposed Master in Applied Artificial Intelligence

To Whom It May Concern:
The attached proposal for a Master in Applied Artificial Intelligence has been developed by a team representing all the Academic Colleges at NMSU. The following individuals have served as representatives for their respective colleges:

- Dr. Huiping Cao, representing the College of Arts & Sciences
- Dr. Lara Prihodko, representing the College of Agriculture, Consumer, and Environmental Sciences
- Dr. Satyajayant Misra, representing the College of Engineering
- Dr. Carlo Mora-Monge, representing the College of Business
- Dr. Michael Hout, representing the College of Health, Education, and Social Transformation.

Sincerely,



Enrico Pontelli, Ph.D.
Dean, College of Arts & Sciences
Regents Professor of Computer Science

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Phone: 575-646-2001 Fax: 575-646-6096

MEMORANDUM

Date: July 16, 2025

To: UPAC

From: Joseph Lakey, Associate Dean for Academics, Arts and Sciences

Subject: New Courses for AI+X

The course curriculum for the proposed program 1087: APPLIED ARTIFICIAL INTELLIGENCE - MASTER OFAPPLIED ARTIFICIAL INTELLIGENCE (ONLINE) includes several new courses with the following tentative numbers and titles (descriptions are included below)

E T 513 AI Data Center Designs and Technologies
E T 515 AI and Cybersecurity risk in critical infrastructure systems
PHIL 451, AI, Ethics, and Society

MGMT 510 AI and Machine Learning for Supply Chain Decision-Making
MGMT 520 Advanced Supply Chain Intelligence: Optimization and Generative AI.
ACES 5110 Introduction to AI in Agriculture
ACES 5210 AI Applications in Fiber and Food System
ACES 5310 Emerging topics in AI in Agriculture

Aside from PHIL 451, which fulfills the core Ethics requirement for the program, the courses will support the "X" component of the program. Funding for development of these courses is being made available through NMSU's AI Institute.

Each contributing unit has assured us that the courses will be submitted in CIM by the August 4 deadline for Summer/Fall 2025 effective term.

Meanwhile, the draft proposal for 1087 has been structured so that it can be updated to reference the courses properly once these additions are made in the CIM/PIM systems. Also, it is the plan of the submitting group that the "concentration" curricula described in the proposal eventually become separate articulated concentrations in the program (possibly adding more concentrations later) if the program is approved. Tentative information about some of the courses to be listed is found below.

Philosophy (Ethics) course

Course Number: PHIL 451
Course Title: AI, Ethics, and Society
Catalog Description: This course explores the ethical dimensions of current and emerging applications of artificial intelligence. Students will engage with key philosophical questions, including the definition of AI and the moral status of advanced AI agents. The course examines pressing societal issues such as labor automation and technological unemployment, ownership and distributive justice in AI development, the influence of AI on media disinformation, and concerns surrounding plagiarism. Future-oriented topics will address the possibility of AI exceeding human cognitive abilities and the implications of the Technological Singularity hypothesis. Through critical readings, discussion, and analytical writing, students will develop a robust framework for evaluating the ethical challenges posed by AI technologies.

College of Business (Management) courses

Course Number: MGMT 510 (new course)
Course Title: AI and Machine Learning for Supply Chain Decision-Making
Catalog Description: This course provides an understanding of the use of artificial intelligence (AI) and machine learning (ML) in supply chain operations, focusing on data-driven decision-making. Students will apply predictive and prescriptive models to address challenges in forecasting, inventory management, customer segmentation, and sourcing, among others.
Learning Objectives: By the end of this course, students will be able to:

- Understand core AI and ML concepts relevant to supply chain environments.
- Apply supervised and unsupervised learning techniques in supply chain-related problems.
- Evaluate forecasting accuracy and uncertainty using advanced time series models.
- Use classification and clustering methods for customer and supplier segmentation.
- Develop AI-based applications for supply chain decision support.

Course Number: MGMT 520 (new course)
Course Title: Advanced Supply Chain Intelligence: Optimization and Generative AI.
Catalog Description: This course provides advanced technical and strategic skills to design, analyze, and optimize intelligent supply chain systems. It blends mathematical optimization, simulation, and prescriptive analytics with state-of-the-art generative AI methods. Students will build and deploy models to support planning, risk management, and automation.
Learning Objectives: By the end of the course, students will be able to:

- Formulate and solve supply chain optimization problems.
- Apply network models, transportation algorithms, and inventory models.
- Design and evaluate simulation models for decision-making under uncertainty.
- Understand and use large language models (LLMs) for supply chain documentation, planning, and automation.
- Generate synthetic data and scenarios to enhance risk resilience and what-if analysis.
- Build intelligent agents for supply chain functions.
- Critically assess Generative AI's implications in operational, strategic, and ethics

College of ACES courses (may be renumbered under specific disciplines)

Course Number: ACES 5110, 3 Credits
Course Title: **Introduction to AI in Agriculture**

Catalog Description: This course introduces the fundamental concepts, tools, and techniques used to develop and deploy AI systems relevant to agriculture, food production, natural resources, and the environment. Students will gain experience and familiarity with how AI technologies, such as machine learning, computer vision, and IoT, are applied to real-world problems such as precision farming and ranching, crop disease detection, crop breeding, environmental monitoring, natural resource management, and food systems. The course will incorporate concepts of responsible and ethical use of AI in agriculture and natural resource management.

Course Number: ACES 5110, 3 Credits
Course Title: **Introduction to AI in Agriculture**

Catalog Description: **AI Applications in Fiber and Food Systems** (New Course ACES 5210, 3 Credits)
Focusing on fiber and food systems. The course will include applications of AI to food processing and safety, nutrition, sustainability in food and fiber systems, demand forecasting, labor management, and consumer behavior. The course will incorporate concepts of equitable access, job quality, transparency, data privacy and security, and responsible and ethical use of AI in fiber and food systems.

Course Number: ACES 5211, 3 Credits
Course Title: **AI Applications in Agriculture, Plant, and Environmental Sciences**

Catalog Description: Practical application of AI concepts, tools, and techniques to agriculture production systems, crop and livestock management, natural resource management, wildlife, and plant and environmental sciences. The course will consider how AI can be used to inform management of agricultural and environmental systems where temporal and spatial variability, feedbacks, and human decision-making create complex, non-linear systems. Data forms, sources, privacy, and security, will also be considered.

Course Number: ACES 5310, 3 Credits
Course Title: **Emerging topics in AI in Agriculture**

Catalog Description: Analyze emerging applications and uses of AI in food systems, agriculture, and the environment. Project impacts of emerging AI topics to agriculture, the environment, and food and fiber industries. Evaluate new developments in AI for application to food, fiber, agriculture and the environment. Explore ethical dimensions of AI in agriculture.

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MEMORANDUM

Date: July 16, 2025
To: UPAC
From: Joseph Lakey, Associate Dean for Academics, Arts and Sciences
Subject: Pending Curriculum Committee Recommendation on the Master of Applied Artificial Intelligence

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Due to changes in the timing of deadlines for new program proposals, this program had to be submitted in PIM before the Arts and Sciences Curriculum Committee, consisting mostly of 9-month faculty, was able to review the proposal. Curriculum committee review will occur once these faculty members report for the Fall 2025 semester.

Additionally, the program is fundamentally interdisciplinary, with concentrations in each of the academic colleges. However, A&S is primarily responsible for the core 15 credits of the program.

11.0102 Artificial Intelligence

AI Report

CIP: 11.0102 Artificial Intelligence
Market: National
Award Level: Masters and Grad Certs

The program excels in student demand and employment outcomes but faces challenges in competitive intensity due to high competition and low resource availability.

Overview

National completions are notable, with 1,055 recorded, placing it in the 90th percentile, underscoring strong student participation. Student demand shows outstanding growth, but competitive intensity highlights a significant challenge with limited campuses and graduates at a mere 12th percentile ranking. Employment prospects remain strong, although competition in the academic landscape poses a resource challenge.

Student Demand

The program shows robust student interest, with a Google Search Volume of 872,410, placing it in the 92nd percentile, and a remarkable YoY unit change of 368,890 in the 95th percentile. New Student Enrollment is thriving with 2,247 enrollments in the 93rd percentile, showing substantial growth evidenced by a YoY unit increase of 966, ranking in the 99th percentile. On-ground and online completions combined to reach 1,055, maintaining a strong 90th percentile position. Transitioning to the growth aspect, Completion Volume YoY Percentage Change is impactful at 92%, in the 93rd percentile. This data underscores exceptional demand; however, there is potential for expansion in online completions which currently holds an 81st percentile rank for In-Market Students.

Employment

The program offers lucrative employment outcomes, with an entry-level salary of $102,510 and a post-entry-level median salary of $123,836, both in the 98th percentile. Job postings per graduate are reasonable at 1.1, ranking in the 72nd percentile, which aligns with a BLS current employment figure of 7,216 in the 89th percentile. The historical growth rate from BLS data is stable at 5% for both one-year (75th percentile) and three-year markers, although the latter drops to the 50th percentile. The underemployment rate is less favorable, with 31% underemployed graduates sitting in the 68th percentile, indicating room for improvement in job placement quality. Overall job opportunities are promising, highlighted by 1,115 job postings ranking in the 89th percentile.

Competitive Intensity

The competitive landscape presents significant challenges, with only 45 campuses hosting graduates, which is low in the 12th percentile. Similarly, institutions offering online courses are limited to 7, only hitting the 18th percentile. The Google Search Cost per Click is steep at $14.00, reflecting scarce resources in the 19th percentile. While average program completions appear satisfactory at the 89th percentile, Google Competition Index at 0.5 is a concern, positioned in the 12th percentile indicating heightened competition for visibility. Despite these challenges, there is a strong median program completions growth at a 21% change, ranking in the 81st percentile, suggesting resilience in sustaining program interest.

Criterion	Value	Percentile
Student Demand		
Google Search Volume	872,410	92
Google Search YoY Unit Change	368,890	95
Google Search YoY Percentage Change	73%	93
New Student Enrollment Volume	2,247	93
New Student Enrollment Volume YoY Unit Change	966	99
New Student Enrollment Volume YoY Percentage Change	75%	95
On-ground Completions at In-Market Institutions	938	92
Online Completions by In-Market Students	117	81
Sum of On-ground and Online Completions	1,055	90
Completion Volume YoY Unit Change	504	98
Completion Volume YoY Percentage Change	92%	93
Employment		
Entry Level Salary	$102,510	98
Post Entry Level Median Salary	$123,836	98
Job Postings per Graduate	1.1	72
BLS 1-Year Historical Growth	5%	75
BLS 3-Year Historic Growth	5%	50
Underemployed Percent of Graduates	31%	68
Job Postings	1,115	89
BLS Current Employment	7,216	89
Competitive Intensity		
Campuses with Graduates	45	12
Campuses with Graduates YoY Unit Change	6	2
Institutions with Online In-Market Students	7	18
Average Program Completions	21	89
Median Program Completions	7	77
YoY Median Program Completions Unit Change	2	91
YoY Median Program Completions Percentage Change	21%	81
Google Search Cost per Click	$14.00	19
Google Competition Index	0.5	12
National Online Institutions	13	13
National Online Percent of Institutions	26%	64
National Online Percent of Completions	11%	40
Degree Fit		
National Completions	1,055	90

CIP: 11.0102 Artificial Intelligence | Award Level: Masters and Grad Certs | Market: National | Select Program Group

AI Report

View Definitions

CIP: 11.0102 Artificial Intelligence | Award Level: Masters and Grad Certs | Market: National | Total Score: 50 | Percentile: 98

Student Demand
Score: 22 Percentile: 98

Category	Pctl	Criterion	Value	Score
Size	91	Google Search Volume (12 Months)*	867,260	2
	99	International Page Views (12 Months)	48,983	NS
	95	New Student Enrollment Volume (12 Mo.)	3,324	4
	92	On-ground Completions at In-Market Institutions	938	2
	81	Online Completions by In-Market Students	117	1
	90	Sum of On-ground and Online Completions	1,055	2
Growth	94	Google Search YoY Change (Units)*	372,220	1
	99	New Student Enrollment Vol. YoY Change (Units)	1,761	2
	98	Completion Volume YoY Change (Units)	504	2
	90	Google Search YoY Change (%)*	75%	2
	94	New Student Enrollment Vol. YoY Change (%)	113%	2
	93	Completion Volume YoY Change (%)	92%	2

Competitive Intensity
Score: 8 Percentile: 86

Category	Pctl	Criterion	Value	Score
Volume of In-Market Competition	12	Campuses with Graduates**	45	4
	2	Campuses with Grads YoY Change (Units)**	6	NS
	18	Institutions with Online In-Market Students**	7	0
In-Market Program Sizes	89	Average Program Completions	21	1
	77	Median Program Completions	7	0
	91	YoY Median Prog. Compl. Change (Units)	2	1
	81	YoY Median Prog. Compl. Change (%)	21%	1
In-Market Saturation	14	Google Search * Cost per Click**	$14	1
	2	Google Competition Index**	0.66	0
National Online Competition	13	National Online Institutions (Units)**	13	NS
	64	Nat'l Online % of Institutions	26%	NS
	40	Nat'l Online % of Completions	11%	NS

Employment
Score: 20 Percentile: 97

Category	Pctl	Criterion	Value	Score
Size: Entry Jobs	90	Job Postings Total (12 Months)	1,387	2
	89	BLS Current Employment	7,216	0
	89	BLS Annual Job Openings	637	0
Underemployed	68	Underemployed Percent of Graduates**	31%	1
Growth: Entry Jobs	75	BLS 1-Year Historical Growth	5.3%	0
	50	BLS 3-Year Historic Growth (CAGR)	4.5%	0
	88	BLS 10-Year Future Growth (CAGR)	1.5%	1
Saturation: Entry Jobs	75	Job Postings per Graduate	1.3	0
	78	BLS Job Openings per Graduate	0.6	0
Weighted-Avg BLS Wages	98	Entry 25th Percentile	$102,510	8
	98	Post Entry Median	$123,836	8
		Post Entry w/Associates Median	NA	NS
		Post Entry w/Bachelors Median	NA	NS
	98	Post Entry w/Masters Median	$123,659	NS
	93	Post Entry w/Doctoral Median	$132,964	NS
National American Community Survey Bachelor's Degree Outcomes*		% with Any Graduate Degree*	NA	NS
		% with Masters*	NA	NS
		% with Doct/Prof Degree*	NA	NS
		% Unemp. (Age <30)**	NA	NS
		% in Direct Prep Jobs*	NA	NS

Degree Fit
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Cost Benchmarking		Average Cost per SCH Index**	NA	NS
		Median Cost per SCH Index**	NA	NS

National Completions by Level
Score: 0

National Workforce Ed. Attainment
Score: 0

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)	BLS Educational Attainment
No College				4%
Some College				10%
Certificate	0%	0%	0%	
Associates	0%	0%	0%	6%
Bachelors	9%	9%	10%	48%
Postbaccalaureate Certificate	12%	12%	2%	
Masters	76%	76%	74%	28%
Post-masters Certificate	0%	0%	7%	
Doctoral	3%	3%	7%	5%

CIP Description:
A program that focuses on the symbolic inference, representation, and simulation by computers and software of human learning and reasoning processes and capabilities, and the computer modeling of human motor control and motion. Includes instruction in computing theory, cybernetics, human factors, natural language processing, and applicable aspects of engineering, technology, and specific end-use applications.

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	**-20**	**-15**	**2**	**15**	**28**	**35**	**48**	**71**

* - Google search do not filter by award level.
** - Percentiles are displayed in reverse (100% minus the percentile).
NA - No data available/not currently tracked.
NS - Not Scored in Rubrics (values = 0).
PCTL - Percentile

GRAY DI

1 Summary of Costs and Benefits

1.1 Projected Costs

1.1.1 Additional Faculty Needed for the Program

The program is planning the development of 7-10 new graduate level courses, to be taught online. Nevertheless, the institution has already received external funding that will be used in Fall 2025 and Spring 2026 to support the development of the new curricula. The funds will be used to provide faculty release time is needed for the development of the online courses. Since most of such development will take place before the launch of the program, the expense for this course release is not included in the proposal's detailed budget spreadsheet.

1.1.2 Additional Library Resources Needed for the Program

No new library resources are required to support the offering of this program. Library resources currently available within the NMSU system are sufficient to support this program.

1.1.3 Additional Facilities, Equipment and Technological Resources

No new equipment is required to support the offering of this program. Equipment currently available at the participating departments within NMSU is sufficient to fully support the launch and initial phases of this program. As the program grows, it is expected that new equipment/funds will be required to ensure adequacy of virtual laboratory resources both within the NMSU and commercially (e.g., Amazon EC2) respectively.

1.1.4 New Graduate Assistantships Needed to Support the Program

Two to three graduate assistantships are requested. This 100% online professional degree will require ongoing assistance in design creation and online readiness of the new courses.

1.2 Projected Benefits

1.2.1 Financial Benefit

The following table illustrates the total revenues in terms of tuition and fees conservatively estimated based on an average enrollment of 18 credits per year with online graduate students paying $444.4 per graduate credit hour in tuition and fees. Details for these numbers are contained within the attached budget spreadsheet.

Program Year	Enrollment	Net Earnings
1	5	$23,996
2	14	$62,392
3	24	$116,752
4	33	$187,385
5	44	$273,990
5-year Total	**120**	$ **664,515**

Table 1: Projected enrollment and earnings totals. See budget spreadsheet for more details.

1.2.2 Benefits to the State of New Mexico and Beyond

The Master in Applied AI program will prepare its graduates to work throughout the state serving a diverse client base from agriculture, education, health, and manufacturing. National laboratories such as Los Alamos National Labs, Sandia National Labs, and White Sands Missile Range will also have access to highly qualified graduates of the program. Since the Master in Applied AI is 100% online, it can serve all regions of New Mexico as well nationwide. As discussed in the previous sections of this proposal, there is an evident and growing demand for trained AI workforce across the state.

Higher paying wages will result in a raising of overall economic benefit to New Mexico by keeping jobs within New Mexico. A highly trained workforce will also help attract additional high tech industries to the state.

According to the latest Worldwide AI and Generative AI Spending Guide from International Data Corporation (IDC), the global artificial intelligence market has surged to nearly $235 billion in 2024 and is projected to exceed $631 billion by 2028, with a five-year CAGR of 27%. This rapid expansion underscores the increasing demand for AI-driven solutions and the substantial investments being made across industries. As AI continues to revolutionize sectors ranging from healthcare to finance, it is imperative that universities take an active role in preparing the next generation of leaders. By fostering expertise in AI development and application, academic institutions can empower professionals to create intelligent systems that seamlessly integrate with human workflows, drive innovation, and address complex societal challenges with transformative impact.

Beyond mastering the fundamentals of AI, professionals must also develop the ability to apply AI technologies across diverse disciplines, from engineering and environmental science to social sciences and medicine. AI has the potential to accelerate breakthroughs in disease diagnosis, climate modeling, economic forecasting, and personalized learning, among many other fields. To fully harness AI's transformative impact, universities must prioritize equipping domain experts—scientists, engineers, healthcare professionals, and business leaders—with the AI skills necessary to integrate intelligent systems into their specialized fields. Empowering these experts with AI proficiency will unlock new possibilities, drive groundbreaking discoveries, and ensure AI serves as a powerful tool for advancing knowledge and solving complex global challenges.

An AI+X curriculum is a groundbreaking approach that goes beyond traditional AI education by integrating artificial intelligence into specific disciplines (indicated by X), ensuring that students develop both technical expertise and domain-specific knowledge. This framework recognizes that AI's transformative potential is most fully realized when combined with subject matter expertise—whether in healthcare, engineering, social sciences, or the arts. By designing curricula rooted in AI+X, universities foster interdisciplinary learning, where domain experts gain AI proficiency, and AI specialists understand real-world applications. This approach not only enhances problem-solving capabilities but also drives innovation across industries by equipping professionals with the ability to develop, refine, and implement AI-driven solutions within their fields. The AI+X model ensures that AI is not studied in isolation but as a powerful tool for advancing knowledge, accelerating discoveries, and addressing complex challenges across multiple disciplines.

The program is designed around the innovative concept of AI+X will include a strong foundation in Al core concepts along with the embedding of AI within specific disciplines (the X). A total of 15 credits in the core Al curriculum will cover different areas including the Ethics of Al, machine learning, Natural Language Processing, deep learning and beyond. In addition, 12 credits will be applied to deepening understanding of AI embedded within a specific field of study; our initial targeted fields of study will include Sociology, Agriculture, and Supply Chain & Advanced Manufacturing.

Program Cost Estimate for the Master in Applied Al Degree

NMSU Tuition Reveneus		2026-27	2027-28	2028-29	2029-30	2030-31
Cohort 1	5	$39,996	$31,997			
Cohort 1+2	10		$79,992	$71,993		
Cohort 2+3	15			$119,988	$103,990	
Cohort 3+4	20				$159,984	$151,985
Cohort 4+5	25					$199,980
NMSU Tuition Reveneus		**$39,996**	**$111,989**	**$191,981**	**$263,974**	**$351,965**
NMSU Cost						
3 Course Releases for Curric. Dev.		$15,000				
2 Teaching Assistants			$44,433			
3 Teaching Assistants				$67,983		
3 Teaching Assistants					$69,343	
3 Teaching Assistants						$70,729
Misc Operating		1,000	1,000	1,000	1,000	1,000
GA Benefits		0	4163.76	6245.64	6245.64	6245.64
Total Expenses		**$16,000**	**$49,597**	**$75,228**	**$76,588**	**$77,975**
Profit		**$23,996**	**$62,392**	**$116,752**	**$187,385**	**$273,990**

Master of Science in Artificial Intelligence

NEW PROGRAM PROPOSAL 2025

NMSU LIBRARY COLLECTIONS AND SERVICES Assessment

LIBRARY STATEMENT

Despite NMSU Library's ongoing fiscal constraints present a challenge for providing resources to support scholarly and professional work, the Library is committed to responding to and anticipating the research needs of faculty and students by making strategic decisions regarding acquisitions and resource management. Nationwide, academic research libraries must carefully consider their collections and spending to offset annual inflation costs associated with the acquisition and maintenance of research materials, which means that the Library must carefully weigh the needs of existing and emerging programs so that students and professors can access the information they need to complete their degree programs and continue participating in academic scholarship.

NMSU Library has experienced sustained budget compression over the past decade, a trend that affects the Library's ability to expand and maintain collections, especially in emerging areas of study. However, this deficit can often be mitigated by the use of open access (OA) materials, interlibrary loan (ILL) arrangements, and transformative agreements, all of which increase the pool of resources available while helping to reduce spending by sharing resources with other academic libraries and encouraging the creation of texts that under licenses that include creative commons. While these practices might not make up entirely for reduced budgets, it is important to note that the robust and creative library faculty at the NMSU Library is committed to providing access to resources and to ensuring students and faculty understand how to find these materials and use them to succeed in their academic and professional goals.

Information on a broad range of NMSU Library resources can be found online at https://lib.nmsu.edu.

I. SCOPE OF ASSESSMENT

This report assesses the NMSU Library's collections, services, and programs, and analyzes the Library's ability to support the information needs of the proposed Master Science in Artificial Intelligence, and its three tracks. This assessment examines library expenditures, collections, and use of resources and services available to students and faculty as relevant to the overall degree focus and separate tracks.

II. ASSESSMENT OF COLLECTIONS SUPPORTING MS IN ARTIFICIAL INTELLIGENCE

Proposed by the College of Arts and Sciences, the MS in Artificial Intelligence (AI) will feature three tracks for students to choose from: an AI in Sociology track, an AI in Digital Agriculture track, and an AI in Business (Inventory Management) track. The materials that students and faculty will use in this new program cover several different areas in the OCLC Subject Conspectus and in the Library of Congress classification system, touching AI, computer science, and on a variety of topics due to the multi-disciplinary tracks involved in this degree. A list of the most relevant NMSU Library holdings in subject

areas related to Artificial Intelligence, AI in Sociology, AI in Digital Agriculture, and AI in Business (Inventory Management) are listed in the tables below. Data for these tables were collected using OCLC Choreo Insights, an analytics tool that uses OCLC WorldCat to analyze library collections within institutional focus areas, curricula, and emerging trends to help information professionals expand and address those collections in terms of expected needs. More information on Choreo Insights is available at https://www.oclc.org/en/choreo-insights.html.

Table 1

NMSU Library Holdings for Artificial Intelligence Related Subjects

Heading	Category	*NMSU Holdings
Computer Science	General: Online Data Processing; Programming & Programming Languages; Software; Special Topics: Data [Entry, Recovery & Structure]; Policy, Interactive Computer Systems, Psychological Aspects, etc.	964
	Cybernetics: Pattern Recognition; Perception Theory; Artificial Intelligence	1,051
	Machine Theory, Abstract Automata: Languages; Coding Theory	421
	Modeling & Simulation; Management Information Systems	655
	Optical Data Processing: Image processing; Optical Character and Pattern Recognition	580
Engineering & Technology	Mechanical & Machinery: Automata, Robots; Control, Automatic; Machine Design & Construction	1,203
	Manufactures: General; Computer Integrated Systems; Production and Operations Management	4,157
	Electrical: Network Theory; Telecommunication; Computer Networks: Architecture, Protocols, Standards, Local and Wide Area	2,073
Mathematics	Probabilities, Statistics, Interpolation, Numerals	3,640
	TOTAL	**14,744**

*Note: *The Choreo Insights analysis above includes all cataloged NMSU Library holdings in all formats.*

Table 2

NMSU Library Holdings for AI in Sociology Track

Heading	Category	*NMSU Holdings
Sociology	General & Theoretical: Social Psychology; Culture, Subculture; Social Groups and Organizations; Social Control; Social Change	7,273
	Communities, Classes, Races: Urban Renewal, Urban Ecology; Urban Economics; Rural Sociology	4,139
	Criminology, Criminal Justice: Causes of Crime; Victims of Crimes; Offenses Against Public Order; Criminal Justice Administration, Police; Prisons, Corrections; Prison Reform; Rehabilitation	25,455
	TOTAL	**36,867**

*Note: *The Choreo Insights analysis above includes all cataloged NMSU Library holdings in all formats.*

Table 3

NMSU Library Holdings for AI in Digital Agriculture Track

Heading	Category	*NMSU Holdings
Agriculture	General: Documents; Agricultural Economics; History & Conditions; Research, Experimentation; Agricultural Extension; Methods & Systems of Culture, Agricultural Conservation & Melioration; Organic Farming; Fertilizers & Improvement of the Soil	16,752
	Conservation of Natural Resources, Land Conservation	412
	Plant Culture: Irrigation Farming; Seeds; Propagation; Harvesting; Textile & Fiber Plants; Horticulture; Landscape Gardening; Pests	10,867
	Forestry: Communication; Sylviculture; Conservation & Protection, Forest Fires, Floods; Reserves; Exploitation & Utilization	10,285
	Animal Culture: Brands; Cattle; Breeds & Breeding; Dairying; Horses;	2,682
	Aquaculture & Fisheries: Mariculture; Seafood Gathering; Algae	2,172
	Wildlife Management: Habitat Improvement; Preserves; Animal Trade	621
	TOTAL	**43,782**

*Note: *The Choreo Insights analysis above includes all cataloged NMSU Library holdings in all formats.*

Table 4

NMSU Library Holdings for AI in Business- Inventory Management Track

Heading	Category	*NMSU Holdings
Business & Economics	Economic Theory; History & Conditions: Consumer Demand, Consumers, Consumption	20,814
	Economics: Industries, Land Use, Agricultural Economics, Labor	21,691
	Economics – Rural Industries; Factory System; Industrial Management	3,010
	Special Industries & Trades: Manufacturing	416
	Labor: Industrial Sociology; Social Insurance; Economic Development	13,351
	Commerce: Balance of Trade, International Economics, Tariff Policy.	4,787
	Business Administration: Marketing. Buying; Selling; Office Mgmt.	7,497
	Finance: Banking; Money; Credit; Foreign Exchange; Financial Mgmt.	11,952
	TOTAL	**83,518**

*Note: *The Choreo Insights analysis above includes all cataloged NMSU Library holdings in all formats.*

Table 5

New E-Book Purchases Supporting MS in Artificial Intelligence (June 2025)

Subject Area	Number of Titles Purchased
Computer Science/Artificial Intelligence/Engineering	86
Agriculture and Related Sciences	72
Business Management/Economics	57
Sociology/Social Sciences	51
Total E-books purchased: 431 titles (unlimited users; includes other subject areas related to AI, agriculture, sociology, business, and additional topics that will be useful to students in this program)	
Approximate amount spent: $120,000.00	

Peer Institution Comparison

This assessment does not compare NMSU Library collections to those of selected peer institutions. Because this field changes rapidly, and new programs continue to emerge, comparisons of the NMSU Library's collections to other institutions' collections may not provide useful information in determining whether the resources offered by NMSU can support the new MS in Artificial Intelligence degree. Furthermore, the Library's commitment to expanding AI holdings—especially those that intersect with the three program tracks—will ensure that this area remains a priority as new materials become available across all formats and resource types.

Research Databases

Students primarily access academic journals and research articles through interdisciplinary aggregator databases and subject-specific databases. Since the Artificial Intelligence program is housed in Computer Science, but includes three tracks, the degree is interdisciplinary. Thus, we have identified the following relevant research databases to which NMSU Library currently has subscriptions. It is worth noting that an additional database resource, SCOPUS, would be a useful addition to the Library's current offerings.

Table 6

NMSU Library Usage for Relevant Databases

Database Name	Areas Covered	2022 Usage	2023 Usage	2024 Usage
IEEE Xplore	AI/Computer Science	21,197	27,701	22,526
Applied Science & Technology	AI/Computer Science	441	440	576
Computer Database	AI/Computer Science	81	123	24
ACM Portal (Association for Computing Machinery)	AI/Computer Science	2,400	1,785	3,030
Agricola (National Agriculture Library, USDA)	Agriculture	3,603	604	241
CAB Direct (Commonwealth Agricultural Bureaux, CAB International)	Agriculture	304	292	199
Academic Search Ultimate	Multidisciplinary	38,259	31,441	28,230
Web of Science	Multidisciplinary	27,083*	67,208	56,734
Business Source Ultimate	Business	N/A	2,055	4,286
WRDS (Wharton Research Data Services)	Business	7	43	217
PsycINFO	Psychology/Social Sciences	9,423	9,024	7,485
Social Source Ultimate	Social Sciences	1,549	2,662	2,630

***2022: Partial year statistics**

Serial Holdings Assessment

SCImago Journal Rank Indicator—SCImago Journal Rank Indicator is "a measure of a journal's impact, influence or prestige. It expresses the average number of weighted citations received in the selected year by the documents published in the journal in the three previous years." Information on SCImago can be found here: http://www.scimagojr.com/journalrank.php.

Usage data for the highest ranked journals in the subject areas most relevant to Artificial Intelligence and the MS in AI track areas available at NMSU is included in the table below.

Table 7
SCIMAGO RANKINGS: Highly ranked journals in Artificial Intelligence subject areas

Journal Title	NMSU Online Access	3-Year Use (2014-2016)	SCImago Journal Rank and Quartile
Computer Science			
ACM Computing Surveys	Access Current	158	*2.362 **(Quartile 1)
ACM Journal on Emerging Technologies in Computing Systems	Access Current	14	*.412 **(Quartile 2)
ACM Transactions on Computer-Human Interactions	Access Current	185	*1.086 **(Quartile 1)
ACM Transactions on Knowledge Discovery from Data	Access Current	9	*.683 **(Quartile 1)

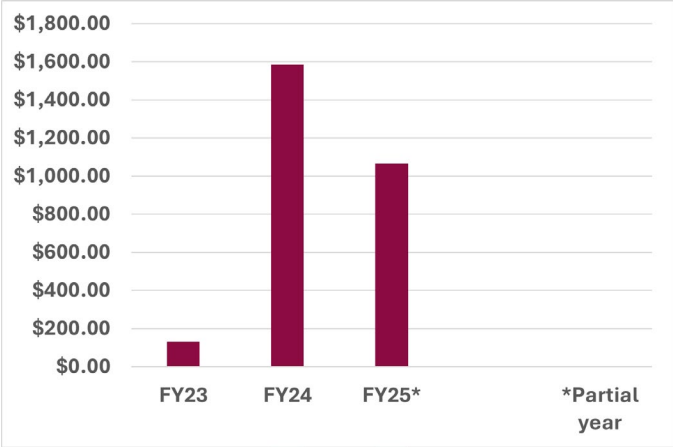
Note: * "It expresses the average number of weighted citations received in the selected year by the documents published in the selected journal in the three previous years, --i.e. weighted citations received in year X to documents published in the journal in years X-1, X-2 and X-3." Source: SCImago.

Note:** "Journals ranked according to their SJR and divided into four equal groups, four quartiles. Q1 comprises the quarter of the journals with the highest values, Q2 the second highest values, Q3 the third highest values and Q4 the lowest values." Source: SCimago.

III. FISCAL TRENDS

The chart below shows monograph purchases to support the Department of Computer Science related to Artificial Intelligence topics (FY23-present).

Table 8
NMSU Library Monograph Expenditures



IV. SERVICES

Information Delivery Services
Information Delivery Services (IDS) provides access to needed research information whether owned by the University, another NMSU campus, or another library/organization. Specific services include Interlibrary Loan (ILL), Document Delivery (DD), and courier services to and from faculty and graduate students via electronic and print formats. IDS also provides electronic/home delivery of materials to distance education students and faculty, including homebound and active military students.

For the academic period reviewed, graduate students and faculty in Computer Science requested on average 14 items through Document Delivery and approximately 94 items through Interlibrary Loan.

Table 9

Total NMSU Information Delivery Services for Computer Science/AI Topics by Year

Year	Total Physical Loans	Total Article Loans
2020	14	7
2021	28	73
2022	43	41
2023	54	43
2024	37	142
2025	31*	49*
Total Loans	**207***	**355***

*Number is correct as of June 1, 2025

Table 10

Interlibrary Loan and Document Delivery Services (ILL./DDS) Usage for COMPUTER SCIENCE

Year	Document Delivery (DDS)			Totals	Interlibrary Loan (ILL)			Totals
	UG	Grad	Fac		UG	Grad	Fac	
2020	3	--	--	**3**	3	6	3	**12**
2021	6	15	1	**22**	28	62	11	**101**
2022	11	12	1	**24**	35	41	8	**84**
2023	1	28	1	**30**	8	83	7	**96**
2024	2	41	5	**48**	8	161	15	**184**
2025	0	21	3	**24**	5	69	6	**80**

*The highest use of DDS/ILL services to support the computer science/AI-related curriculum is by graduate students. This category includes both Master and PhD-level students.

Research Assistance and Instruction

Specialized research assistance is available to all students and faculty at NMSU through a variety of modalities, including Reference Desk consultations, calls, online chats, email, and pre-scheduled appointments. If a librarian is not available, students and faculty have 24/7 access to subject-specific LibGuides and assistance through a global chat service. The NMSU Library Instruction Program serves as a cornerstone of academic support at New Mexico State University. Through strategic collaboration with faculty across disciplines, NMSU librarians deliver instructional services tailored to academic needs. These services include classroom and library-based instruction, customized instructional materials, online learning resources, and specialized workshops addressing researchers' information needs at all levels. The program offers multiple engagement options to support pedagogical goals, including library orientations, Canvas-integrated resources, in-person or virtual instruction sessions, assignment consultation, embedded librarian services, specialized workshops, and credit bearing courses. The NMSU Library instruction program contributes significantly to academic achievement, enhances research quality, strengthens scholarly writing, and promotes ethical information use by developing information literacy competencies. In addition, the department has librarians with advanced training and certification in evidence synthesis and Systematic Review research methodologies. These librarians provide ongoing support to students and faculty embarking on this type of research.

Table 11
Instruction Program Session Statistics

Academic Year	Course Related*	Workshops*	Orientations*	Online*	Graduate*	Under-graduate*
2025**	20/553	8/147	0	5/136	9/138	26/499
2024	65/1839	6/89	2/80	3/62	11/326	60/1640
2023	43/1059	7/116	2/80	12/288	12/248	42/1020
2022	41/865	12/179	1/40	12/200	16/292	33/625

*# of sessions/# of patrons
**only reflects data through end of May 2025

Table 12
Library Research Guides (LibGuides) for Computer Science

LibGuide Name	2022 Views	2023 Views	2024 Views	2025 Views	Total Views
Computer Science	51	182	329	377*	939*

*LibGuide use data shows steady increase in guide views and only reflects data through end of May 2025.

The Emerging Technology Lab

The speed with which AI science and technology is advancing, as well as the "hands on" nature of the work, makes the availability of practical resources for blended and expanded learning opportunities vital. As part of its efforts in this area, the Library maintains an Emerging Technology Lab, or ETL. This lab contains equipment and licensed software supporting a variety of emerging technology areas, with computers designed to have the resources needed for AI, as well as other data-centric or creative work. The lab represents an excellent learning and experimental space to support new AI programs while also providing an environment not tied to a particular department that students across disciplines can use.

Support for Local Knowledge Creation and Flexible Knowledge Sharing

The speed of advancement in most areas of the field of AI makes it essential that faculty have support for the rapid production and sharing of original research and scholarship through channels that provide swifter dissemination opportunities than those allowed by traditional academic scholarship. The NMSU Library has already been moving in this direction by introducing a new Institutional Repository and publication platform (through Digital Commons) suitable for the creation of and sharing of locally administered electronic journals, locally produced educational materials, and pre-publication scholarly work. The Library is also searching for an Institutional Scholarship Librarian whose role will be to administer and promote this resource, while helping organize campus engagement with the platform and providing copyright guidance for contributors.

V. Recommendations & Next Steps

As this program develops and gains popularity, the NMSU Library will need funding to purchase additional materials and resources. Careful consideration should be given to the use of specific databases, books, e-books, and journals within the first years of the program to determine which materials are most useful and how the Library's collection should be expanded to meet students' and faculty members' needs. Faculty members teaching within the program should also consider working closely with reference and instruction librarians to ensure their students learn to access the most relevant materials and understand how to think about research in the AI environment. Library faculty and staff will also need to keep statistics on requests for materials through Document Delivery and ILL to make sure purchases reflect the needs of students and faculty within the program.

NMSU faculty and students should take advantage of the hands-on learning opportunities afforded by the ETL, especially if it is funded sufficiently to update its resources. Faculty in the new AI programs can use the ETL as a venue to promote cross-disciplinary learning given its broad availability.

Within the ETL, the workstations, which are equipped with graphics cards meant to support these efforts, could be even more useful to students and faculty working on AI projects if they were updated. Currently the workstations use an older architecture Nvidia RTX 3080 graphics card. Additionally, the AI landscape has changed since this lab was first created. Depending on the use case, AI support is not tied solely to graphical and neural processing resources, but also to sufficiently speedy memory to support larger scale inference and training operations for local experimentation with Large Language Models. Along with updating the current workstations, it would be useful to add workstations specifically dedicated to local Large Language Model (LLM)/Large Reasoning Model (LRM) experimentation and learning. These specialized workstations would utilize a unified memory bus to provide 128GB or more to CPU, NPU, and GPU simultaneously so that larger models (such as quant four seventy billion parameter models or larger) could be run on the workstations. These workstations would require a specialized architecture that utilizes MacOS, the new AI focused APUs available from AMD (Strix Halo) running Linux, a functional cluster of Nvidia graphics cards, or the yet to be released DGX workstation variants powered by the Nvidia GB10 (or above) chip. Each of these architectures has its strengths and drawbacks, but each could potentially provide the combination of processing and unified memory or accumulated VRAM to serve in a local LLM development role. Once the new MS in AI program takes off, expanding the computing resources available in the ETL would contribute to program outcomes.

Table 13

Options for Improving Local LLM/LRM Workstations

Vendor Name	Processor	Total Unified RAM	Cost Per Unit without monitor or peripherals	Number of Units	Total Cost without peripherals
Apple*	M4 Max	128GB	$3329	2	$6658
Apple*	M3 Ultra	512GB	$8549	2	$17098
Framework	AMD AI Max+ 395	128GB	$2300	2	$4600

*The Library recommends Apples monitors designed to display their color scheme, the most cost effective being the BenQ MA27OU for approximately $579 per unit.

An alternative to the LLM/LRM workstations mentioned above would be two workstations containing the new RTX Pro 6000 Blackwell cards. These cost between nine and eleven thousand dollars depending on availability, but feature 96GB of dedicated video memory (VRAM) as opposed to the unified memory listed in the table above. These cards would have faster memory and significantly more processing power for AI work. Mounted in a suitable workstation, the total per unit cost would be $14000-$16000 without peripherals. The advantages/disadvantages between platforms are summarized in the table below. The table below compares the three most readily available current alternatives: two versions of the Apple Mac Studio and the new Framework Desktop containing AMD's new Strix Halo chip and 128GB of unified memory.

Table 14
AI Platform Comparison

Vendor Name	Advantages	Disadvantages	Notes
Apple	Low power consumption, good support for common tools like LM Studio, Ollama, etc. via the metal API, highest available RAM levels for AI with a fast memory bus, strong NPUs, not much of a presence in AI industry	Nascent support for AI software platforms, weaker GPUs, uncertain future scaling	Apple devices are easy to use and provide fast, unified memory (memory speed is a major limiting factor in LLM/LRM inference). However, as users move away from simpler applications and inference operations, using this platform can become more challenging as support might not be available.
AMD	Good and growing support for common tools like LM Studio and Ollama, growing capability to emulate the established CUDA API and platform via ROCm, strong NPUs, good GPUs, growing presence in industry	Support is much lower than Nvidia via CUDA, often requires workarounds and skilled support to get experimental elements working, lowest memory bus speed, less available memory from the unified bus for GPU when running Windows rather than Linux, may be very difficult or impossible for the Library to obtain due to restrictions on technology acquisitions imposed by campus central IT	AMD provides a compelling alternative to NVIDIA and is becoming an increasing industry presence, although that growth is slow. The slowest of the three memory types/buses and software, support is limited but growing. Will be challenging for inexperienced users when moving past simpler applications. Under current NMSU

			purchasing restrictions, it would be difficult to obtain these units.
NVIDIA	Best software/platform support, best GPU, fastest memory, requires the fewest workarounds, heavily used in industry	Unified memory only available on newer, unreleased DGX platforms, expensive, high-power consumption	NVIDIA maintains the most robust AI industry presence, and CUDA has become the AI standard. This hardware will be the easiest to work with, and the NVIDIA software stack is both highly supported and ubiquitous in AI fields. However, NVIDIA's pricing and availability reflect this. This level of hardware may be unnecessary for students based on their project needs.

The NMSU Library recommend that faculty in innovative programs like the MS in Artificial Intelligence take advantage of the new Institutional Repository and publication platform Digital Commons to share teaching materials, publish initial findings, facilitate access to pre-publication research, and produce electronic journals on campus.

The NMSU Library faculty also recommend collaboration with teaching faculty to optimize the use of existing library services and collections to support instruction, and research needs and to make sure students are aware of the services available to them. This includes working with Library faculty in the development of course assignments requiring research and the use of the ETL and inviting librarians to provide instruction in how to access, evaluate, and cite resources available through the Library. Further, librarians in the NMSU Library are planning to create special topics courses to address AI at the intersection of research, Information Literacy (IL), and technology, which will augment course offerings and provide adjunctive instruction for students within the program.

Report compiled by: Dr. Elana Karshmer, Head, Reference & Research Services
With assistance from members of RRS, Library Systems, and Library Technical Services

Submitted: 23 June 2025

STATE OF NEW MEXICO
PUBLIC EDUCATION DEPARTMENT
300 DON GASPAR AVE.
SANTA FE, NEW MEXICO 87501-2786
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MARIANA D. PADILLA
SECRETARY DESIGNATE OF PUBLIC EDUCATION

MICHELLE LUJAN GRISHAM
GOVERNOR

June 25, 2025

Dr. Enrico Pontelli
Dean, College of Arts and Sciences
New Mexico State University
MSC 3335, PO Box 30001
Las Cruces, NM 88003
Email: epontell@nmsu.edu

Dear: Dr. Pontelli

As a representative of the New Mexico Public Education Department (NMPED), I am pleased to offer my full support for New Mexico State University's proposal to establish a **Master in Applied Artificial Intelligence**. This forward-thinking program addresses a critical and timely need for advanced training in artificial intelligence across sectors in our state and beyond.

The proposed graduate program aligns strongly with New Mexico's educational and economic development goals, particularly in fostering a technologically skilled workforce equipped to meet the demands of the 21st-century economy. This is a key theme in NM PED's AI Guidance for K12 Schools. As artificial intelligence becomes increasingly integral to sectors including education, agriculture, healthcare, energy, and public service, NMSU's commitment to developing applied, ethical, and interdisciplinary AI practitioners is both commendable and necessary.

We are especially encouraged by the program's emphasis on real-world applications, workforce readiness, and inclusive access—principles that mirror our department's vision for educational equity and innovation. By fostering collaborations with industry partners, school systems, and community organizations, this program has the potential to create meaningful impact throughout

New Mexico, including in rural and underserved communities which are areas of focus for New Mexico Public Education Department.

NMPED recognizes the leadership role that NMSU continues to play in expanding educational opportunity and technological capacity in the state, as well as being a valuable collaborator in our AI for K12 initiatives. We are confident that the Master's in applied AI will enhance the academic landscape of New Mexico and contribute significantly to its talent pipeline and economic resilience.

We look forward to the successful implementation of this program and are proud to endorse this initiative.

Sincerely,

Jed Duggan
Director of Instructional Systems and Supports

cc: Enrico Pontelli

Sandia National Laboratories

Operated for the United States Department of Energy
by National Technology and Engineering
Solutions of Sandia, LLC.

P.O. Box 5800
Albuquerque, NM 87185-0101

P.O. Box 969
Livermore, CA 94551-0969

Jen Gaudioso, PhD
Director, Center for Computing Research

Phone: (505) 284-9489
Email: jmgaudi@sandia.gov

Jun 22, 2025

Dear: Dr. Pontelli

Subject: ***Letter of Support for the AI + X degree program***

On behalf of Sandia National Laboratories, I am pleased to offer our strong support for the proposed Master in Applied Artificial Intelligence (AI+X) at New Mexico State University (NMSU).

As one of the nation's premier research and development laboratories, Sandia recognizes the critical role that Artificial Intelligence (AI) plays in addressing complex national security challenges. AI is integral to our mission, from autonomous systems to advanced analytics. The importance of education in AI is also one of the reasons why Sandia National Labs has spearheaded the establishment of the New Mexico AI Consortium, of which NMSU is a leading member.

We are particularly enthusiastic about the AI+X model proposed in your new degree program, which aims to integrate AI foundations with domain-specific expertise across disciplines such as engineering, life sciences, agriculture, defense, and the physical sciences. This cross-cutting approach is not only timely but essential in developing a workforce that is technically skilled, versatile, and able to apply AI innovations in real-world, high-impact settings. We are also encouraged by the program's attention to interdisciplinary AI applications, flexibility in deliver, and opportunities for collaboration.

NMSU has a long history of producing talented graduates who contribute significantly to the mission of Sandia and other national laboratories. We believe that the Applied AI program will further strengthen this talent pipeline by equipping students with both deep technical understanding and practical problem-solving capabilities aligned with evolving federal and industry needs. As we look to the future, the demand for skilled professionals in AI will only continue to grow across various sectors.

We commend New Mexico State University for its leadership in responding to national workforce needs in artificial intelligence. Please feel free to reach out for further discussions or to explore potential collaborative efforts.

Sincerely,

Michael Lang Acting Director
National Security AI Office
Los Alamos National Laboratory
PO Box 1663
Los Alamos, NM 87545

Date: June 24, 2025

To Whom It May Concern,

I am writing to express our strong support for the proposed Master's degree program in Applied Artificial Intelligence at New Mexico State University (NMSU). This initiative represents a significant and timely advancement in higher education within our state, aligning perfectly with the evolving demands of national security and scientific research. My name is Michael Lang, and I serve as the Acting Director of the National Security AI Office at Los Alamos National Laboratory.

In an era increasingly shaped by data and advanced analytics, Artificial Intelligence (AI) has become an indispensable tool across virtually every scientific discipline and engineering endeavor. At Los Alamos National Laboratory (LANL), we are at the forefront of tackling some of the nation's most complex challenges, from nuclear deterrence and global security to energy solutions and fundamental science. The effective application of AI is critical to our mission success, enabling us to enhance predictive capabilities, optimize complex systems, accelerate discovery, and safeguard critical infrastructure.

The proposed program's structure, which combines core AI competencies with specialized concentrations exploring AI's application within specific disciplines, is particularly commendable. This interdisciplinary approach is precisely what is needed to cultivate a new generation of scientists and engineers who not only understand the intricacies of AI but can also effectively bridge the gap between theoretical AI concepts and real-world, mission-critical applications. Graduates of such a program would possess the unique skill set highly valued by national laboratories like LANL, as well as by industries and government agencies throughout the nation.

LANL has a long-standing and productive relationship with New Mexico State University and the other research institutions in the state, as demonstrated by our shared vision of promoting AI in New Mexico through the New Mexico AI Consortium. We recognize NMSU's commitment to academic excellence and its vital role in developing a highly skilled workforce that contributes significantly to New Mexico's economic prosperity and technological advancement. A Master's program focused on Applied AI would further strengthen this pipeline, providing our laboratory with access to talented individuals equipped with the specialized knowledge and practical skills necessary to contribute immediately to our cutting-edge research and development efforts.

We are confident that this program will produce graduates who are well-prepared to address the complex challenges of the 21st century and who will become invaluable assets to organizations like ours. LANL looks forward to potential collaborations with NMSU through this program, including opportunities for internships, research partnerships, and recruitment of its graduates.

Thank you for your leadership in proposing this important and forward-thinking academic program. I would like to enthusiastically support the establishment of this program and am eager to see the positive impact it will have on New Mexico and the broader scientific community.

Sincerely,

_____

New Mexico CONSORTIUM

23 June 2025

Professor Enrico Pontelli
Dean, College of Arts & Sciences
Regents Professor of Computer Science
New Mexico State University

Re: Support for the proposed Master of Applied Artificial Intelligence degree program at New Mexico State University

Dear Enrico,

On behalf of the New Mexico Consortium (NMC), I am writing to express our strong support for the proposed Master of Applied Artificial Intelligence (AI) degree program at New Mexico State University (NMSU). We understand this innovative program will adopt an AI+X model, preparing students to integrate advanced AI capabilities across various disciplines.

The NMC is a 501(c)3 corporation in the State of New Mexico that was formed in 2006 to facilitate interactions and collaborations between the three research Universities (New Mexico State University, New Mexico Tech, and the University of New Mexico) and Los Alamos National Laboratory (LANL). The NMC enables and catalyzes interactions between University faculty and LANL scientists, acting as a conduit for joint research projects. We help identify collaboration partners at LANL, simplify transfer of certain funds between the National Laboratory and University Faculty, and assist in student and faculty visitation and interactions with LANL. We are dedicated to fostering scientific and educational advancements within our state and recognize the critical importance of developing a highly skilled workforce.

This proposed Master's degree directly aligns with the strategic needs of New Mexico. A robust program focused on applied AI at a flagship institution like NMSU is vital for strengthening New Mexico's technological infrastructure and economic competitiveness, especially in areas of emerging technologies like artificial intelligence which is rapidly transforming industries and creating new opportunities. By equipping graduates with practical AI expertise, the program will contribute significantly to addressing the demand for AI professionals within our state's research institutions, government agencies, national laboratories, private sector companies, and nascent technology startups. It will serve as a crucial pipeline for talent, ensuring that New Mexico remains at the forefront of technological innovation. NMC is confident that this program will not only benefit NMSU and its students but will also yield substantial positive impacts across the entire state.

The New Mexico Consortium supports the establishment of educational programs that enhance the capabilities and opportunities available to the residents and industries of New Mexico. We look forward to seeing the positive contributions that this Master of Applied Artificial Intelligence program will bring.

With best regards,

John R. Engen

John R. Engen, Ph.D.
Chief Executive Officer & Director of Research

4200 W. Jemez Rd, Ste. 301, Los Alamos, NM 87544
505-412-4200, info@newmexicoconsortium.org

CRA
Computing Research Association

June 30th, 2025

To Whom It May Concern:

On behalf of the **Computing Research Association (CRA)**, I am pleased to express enthusiastic support for New Mexico State University's proposal to establish a new **Master in Applied Artificial Intelligence (Applied AI)** program, following an **AI+X model** of interdisciplinary education.

CRA's mission is to strengthen research and advanced education in computing across North America. We recognize that artificial intelligence is no longer confined to computer science alone but is a foundational technology reshaping domains as diverse as agriculture, healthcare, national security, education, and scientific discovery. Preparing the next generation of AI-capable professionals—who are both technically proficient and contextually aware—is a national imperative.

NMSU's proposed Applied AI program is timely, forward-looking, and well-aligned with both CRA's priorities and priorities of our nation. In particular, we commend:

- **The AI+X educational framework,** which integrates core AI competencies with targeted domain knowledge, ensuring graduates are equipped to solve meaningful, interdisciplinary problems.
- **Its potential to serve all student populations,** including those from rural communities in the Southwest, which supports CRA's goals of computing for everyone.
- **Its flexible design,** which can support both early-career learners and mid-career professionals, thereby strengthening the regional and national AI workforce.

We believe the program will contribute meaningfully to advancing national competitiveness and research capacity in artificial intelligence. It will also help bridge the gap between academia, industry, and government by preparing graduates who can collaborate across sectors and disciplines.

The Computing Research Association supports this initiative and applauds NMSU's leadership in advancing high-impact, welcoming AI education. We look forward to seeing the success and impact of this new program and its graduates.

Sincerely,



Tracy Camp, Ph.D. (she/her)
ACM Fellow; IEEE Fellow
Executive Director and CEO
Computing Research Association
camp@cra.org

Office of the Dean
College of Business
New Mexico State University
Phone: 575-646-2821 http://business.nmsu.edu

6-30-25

To Whom It May Concern:

This message is to confirm that the College of Business supports the development of the Master in Applied Artificial Intelligence degree program. The design of the program follows an “AI+X” model (X = proposed concentration); the COB contributes to the development of the business concentration, specifically manufacturing and supply chain management.

It is our belief that this program will be a game changer in the application of AI methodologies to develop a professional workforce aligned with rapidly-changing industry needs.

Please do not hesitate to contact me for any further information you may need.

Regards,

Bryan Ashenbaum, PhD
Dean, College of Business
New Mexico State University

College of Arts and Sciences
Office of the Dean
MSC 3335
New Mexico State University
P.O. Box 30001
Las Cruces, NM 88003-8001
575-646-3500

Enrico Pontelli, Ph.D.
epontell@nmsu.edu

June 30, 2025

To Whom It May Concern:
This letter is to confirm that the **College of Arts & Sciences** enthusiastically supports the development of the **Master in Applied Artificial Intelligence** degree program.

The design of the program follows an AI+X model, and our college contributes to the development of the set of core courses representing the foundational preparation in Artificial Intelligence. The college is cooperating with the other four colleges at NMSU in the creation of three different concentrations (representing the "X" in the AI+X model), that explore the immersion of AI within specific disciplines. It is our belief that this program will be a game changer in the development of a professional workforce prepared to address the needs of specific disciplines through the application of cutting edge Artificial Intelligence methodologies.

Please do not hesitate to contact me for any further information you may need.

Sincerely,



Enrico Pontelli, Ph.D.
Dean, College of Arts & Sciences
Regents Professor of Computer Science

College of Health, Education and Social Transformation
MSC 3AC
New Mexico State University
P.O. Box 30001
Las Cruces, NM 88003-8001
575-646-5858
hest.nmsu.edu

6/30/2025

To Whom It May Concern:

This message is to confirm that the College of Health, Education, and Social Transformation (HEST) supports the development of the Master in Applied Artificial Intelligence degree program. The design of the program follows an AI+X model, and our college contributes to the development of one of the proposed concentrations (in Sociology). It is our belief that this program will be a game changer in the development of a professional workforce prepared to address the needs of specific disciplines through the application of cutting-edge Artificial Intelligence methodologies.

Please do not hesitate to contact me for any further information you may need.

Sincerely,



Michael C. Hout, PhD
Associate Dean for Research (College of Health, Education, and Social Transformation)
Professor (Departments of Psychology and Kinesiology)
New Mexico State University

mhout@nmsu.edu
Office: O'Donnell Hall, Suite 301
Phone: 575.646.3721\

NM STATE UNIVERSITY

College of Engineering
Office of the Dean
MSC 3449, New Mexico State University
P.O. Box 30001
Las Cruces, NM 88003-8003

June 30, 2025

To Whom It May Concern:

This message is to confirm that the College of Engineering supports the development of the Master in Applied Artificial Intelligence degree program. The design of the program follows an AI+X model, and our college contributes to the development of one of the proposed concentrations (X). It is our belief that this program will be a game changer in the development of a professional workforce prepared to address the needs of specific disciplines through the application of cutting-edge Artificial Intelligence methodologies.

Please do not hesitate to contact me for any further information you may need.

Sincerely,

DV Jauregui

David V Jauregui, PhD, PE
Interim Dean of Engineering

NM STATE UNIVERSITY

College of Agricultural, Consumer and Environmental Sciences
Office of the Dean and Chief Administrative Officer
MSC 3AG, New Mexico State University
P.O. Box 30003 Las Cruces, NM 88003-8003

July 1, 2025

To Whom It May Concern:

This message is to confirm that the College of Agricultural, Consumer and Environmental Sciences supports the development of the Master in Applied Artificial Intelligence degree program. The program's innovative AI+X model aligns well with interdisciplinary approaches to education, research and our college is proud to contribute to the development of one of the proposed concentrations: AI in Agriculture.

We believe this program has the potential to be transformative, equipping a new generation of professionals with the advanced skills necessary to apply artificial intelligence methodologies to real-world challenges across a range of disciplines.

Please do not hesitate to contact me for any further information you may need.

Sincerely,



Dr. Rolando A. Flores Galarza
Dean and Chief Administrative Officer

NM STATE

GLOBAL CAMPUS

PROGRAM DEVELOPMENT PROPOSAL – FINAL

Click or tap to enter a date.

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SECTION ONE: Part 1 - Intake

Applied Artificial Intelligence - Master of Applied Artificial Intelligence (Online)

Computer Science Department

Name of Sponsor(s): *Son Tran (Department Head), Enrico Pontelli (Dean of Arts and Sciences)*

Description and Justification

Provide an overview of the program and respond to the following points:

- Is this a new online program or an existing program?
  - New online program
- Will this program be offered in an accelerated format (8-week courses, multiple entry points)?
  - Courses will not be offered in an accelerated 8-week format, at least for the first few years.
- How will the program benefit the institution?
  - Artificial Intelligence is an institutional priority and will be an integral part of NMSU's next strategic plan. The "X" parts of the program (AI+X) are specifically aligned with priorities in the State of New Mexico's Economic Development Plan.
- How does this program align with the needs of adult learners?
  - In comparison with other AI programs at US universities that have appeared in the last few years, the program is designed to provide broader access to enter the program. Applicants are expected to have completed basic courses in probability and statistics and linear algebra, and to have knowledge of derivatives from Calculus. Core curriculum includes programming classes and foundations courses specific to the program that are designed to be learned online. The "X" component of the program enables the learner to apply foundational knowledge in specific scenarios that fit the learner's academic or workplace experience.
- What are some primary occupations and career opportunities within this industry?
  - AI driven industries include cybersecurity, logistics, intelligence, policy, law enforcement, urban planning, and public health areas in public and private sectors. Key industries in the State of New Mexico's economic development plan that will rely on AI expertise include quantum computing/machine learning for advanced technologies, cryptographic security, and computational physics applications; renewable energy and sustainability, including AI-powered smart grid systems, energy forecasting and climate modeling; defense and national security, including cybersecurity, autonomous defense systems and threat analysis; manufacturing and advanced industry, including Manufacturing 4.0, leveraging AI for robotics automation, predictive maintenance and supply chain efficiency; Healthcare and Biomedical Innovation, including advanced AI-driven solutions in medicine and personalized healthcare; Sustainable and Value-added Agriculture, including precision crop and livestock management, natural resource management, and food and fiber systems. Industry partners in New Mexico that specialize in the use of AI include Intel, Curia, RS21, NTxBio, Silent Falcon UAS, and Stellar Science, among others. Indeed.com postings in June 2025 listed over 100 jobs in New Mexico involving AI applied to healthcare, manufacturing, food and agriculture, and training. At the same time, the New Mexico State Personnel Office posted 48 positions requiring AI and machine learning skills.
- What are the COOP and internship opportunities for senior experience?
  - It is anticipated that such opportunities will increase rapidly in the next few years, including in industries in New Mexico already mentioned. The 3-credit "culminating experience"

requirement of the "X" component of the program is designed to encourage experiential opportunities (either COOP related, or job related for those already in the workforce).

- Are there micro-credentialing opportunities that could be made into skills based, non-credit Microlearning courses?
  - Introductory modules for some of the courses could serve this purpose. The 15 credits of foundational coursework could serve as a standalone graduate certificate.
- Where are the organizations that can provide opportunities for our students after graduation?
  - It is anticipated that organizations in the respective "X" areas will provide such opportunities.
- What is your definition of a successful program?
  - In the short-term success will be measured by enrollment and completion goals laid out in the program proposal. The emphasis on specific domain applications ("+X") required by this program clearly differentiates it from all other master's level AI programs already existing in the US. Success will ultimately be measured by graduates becoming leaders in their respective industries and applications areas.

Proposed Effective Date/Terms

Program Launch: Fall 2026

Course Development: Proposed courses that are being added for the program are currently being developed. Contributing departments have agreed to have course proposals in CIM by August 4.

Marketing: Marketing that explicitly states that the program is being offered needs to await final HLC approval. However, NMSU can announce plans to offer the program earlier.

Recruitment Begins: As soon as all approvals, including HLC are obtained (planned for Summer 2026).

Program Coordinator Start: Summer 2026.

Additional Faculty Positions Start: One faculty to start Fall 2025, Three additional faculty with anticipated Fall 2026 start.

Launch date is contingent upon:

- *NMSU PIM system – must be listed in the Global Catalog – 1087 in progress*
- *All other approval processes are complete, including internal approvals (UPAC, Provost, Board of Regents) and external approvals (NM Council of Graduate Deans, NMHED, NM Board of Finance, and HLC).*

Curriculum

The program curriculum is composed of a minimum of 30 graduate credits, including 15 required foundational credits (programming – 3, AI foundations – 6, Ethics in AI – 3, AI foundational elective - 3), 12 concentration credits in applicable domain "X", and 3 credits of culminating experience. A total of 30 credits is required to complete the Master of Applied Artificial Intelligence. *Please note: The roadmap will be completed in Section Two.*

Program Learning Outcomes or Goals

- Outcome 1. Students will have solid knowledge of representations, algorithms and techniques used across works in Artificial Intelligence and be able to apply and evaluate them in applications as well as develop their own, along with a detailed understanding of current issues and state of the art in Artificial Intelligence

- Outcome 2. Students will have skills in applying their knowledge and understanding to create AI-driven solutions in general contexts as well as in specific application domains and help automate the development of AI systems and components
- Outcome 3. Student will understand the various ways and reasons humans are integrated into mixed human-AI environments, whether it is to improve overall integrated system performance, improve AI performance or influence human performance and learning
- Outcome 4. Students will be proficient in communicating on the use of Artificial Intelligence with stakeholders from different application domains
- Outcome 5. Students will have high standards of professional and ethical responsibility and clear understanding of societal and economic implications of adoption of Artificial Intelligence solutions
- Outcome 6. Students will understand the ethical concerns in developing responsible AI technologies

Academic Departments, Units and/or Colleges involved in the delivery of courses.

- Computer Science
- Sociology
- Plant and Environmental Sciences
- Hotel, Restaurant, and Tourism Management
- Industrial Engineering
- Engineering Technology
- Philosophy
- Accounting and Information Systems
- Management

Projected Resource Needs

A. Describe the faculty resources needed to initiate the program. Will any additional faculty be needed? NMSU has committed to adding new faculty lines that will contribute to the long-term development and growth of the program. A new line dedicated to providing instruction for foundational AI coursework has been committed with a start date of Fall 2025. Three additional lines which are to be joint appointments between Computer Science (AI expertise) and one of the concentration areas of the program are to be added with tentative start dates of Fall 2026. These lines are to ensure necessary instructional resources in the concentration coursework and coordination of required culminating experiences.

B. Describe the library and other academic support resources needed to initiate the program. What, if any, additional resources will be needed? A letter of support from the Dean of the Library will be included in the proposal and will address library resources.

C. Describe the program's equipment and technological resources needed for the first five years of the program? What, if any, additional equipment will be needed? The existing computing infrastructure is adequate to support the needs of the project, thanks to the investment made by the state in expanding the bandwidth and computing infrastructure associated to NMSU Global

D. Describe any other operating resources needed to initiate the program. AI Institute Office: NMSU is committing space in Breland Hall to support the overall management of NMSU's AI Institute, which will also support the program. The space includes an office for a program manager and a larger space for meetings. Being primarily an online program, the program does not require any additional dedicated space.

Start Terms

☒Fall

☐ Fall & Spring

☐ Rolling Start

Admission Requirements

The admission requirements are needed if the program has a specialized admissions process that exceeds the campus requirements for either the Undergraduate or Graduate admissions standards.

Admission Requirements

- All students are required to submit an application to be considered for admission into the program. All application documents must be received in NMSU Graduate School before an applicant's file can be reviewed for full program admission. Incomplete applications will not be sent to departments for admission review.
- ADMISSION REQUIREMENT: Regular admission to the program requires a bachelor's degree in any discipline from an accredited program. An entering student should have completed one course in probability and statistics, a course in linear algebra, and have a working knowledge of derivatives. Previous knowledge of a programming language is strongly encouraged. Deficiencies in the required prerequisite courses must be made up completed with a grade of "B" or better before entrance into the graduate program. Industry experience in programming/algorithms and computing can be considered as part of the admission evaluation process, and an interview can be conducted with the applicant to verify their credentials.
- LETTER OF INTENT: Prospective students need to include a letter of intent with their applications, describing experience, career goals, and a description of how participation in this Master program would help in achieving such goals.
- OFFICIAL TRANSCRIPTS: Transcripts are required from all post-secondary educational institutions from which the applicant earned a degree (beginning with first baccalaureate) and all enrollment in graduate level course work beyond the bachelor's degree.
- LETTERS OF RECOMMENDATION: Two letters of recommendation, with at least one from a person familiar with the candidate's academic performance.

Licensure

1. Does this program lead to licensure, yes or no? NO
   If yes, in which states does this program meet licensure requirements? (if possible, please provide the names)
2. Is credit for prior learning built into the program? NO If yes explain.

Faculty Members Currently Employed to Teach in the Global Program

Identify any faculty or program coordinator currently funded by Global.

Additional Information for Global Market Research

Please provide the following information.

- 11.0101
- Feeder programs aligned with "X" domains include but are not limited to Engineering Technology, Agricultural Biology, Management, and Sociology. Students who have a background in Computer Science, Industrial Engineering, or Engineering Technology should have adequate prerequisite knowledge for the program. Depending on their particular undergraduate curricular experience, students with a background in Sociology or other social sciences, environmental sciences, accounting, management or related area of business administration, philosophy, or hotel, restaurant and tourism management, may be accepted contingent on completing a relevant course in applied linear algebra.
- Area of study: If approved, the "X" part of the program will be used to identify several concentrations, including a concentration in AI in Agriculture; AI in Manufacturing and Supply Chain; and AI in Social Sciences.

SECTION ONE: Part 1 SUBMISSION INSTRUCTIONS:

Please complete your proposal and upload it to the designated Teams channel. Then, notify the following Global team members via email: Beth Apodaca, bapodaca@nmsu.edu; Gena Barela, gbarela@nmsu.edu; Seth Miner, miners@nmsu.edu. Feedback will be provided within 30 business days of the submission date.

Departmental Submission Date:	8/8/2025
Global Review Date:	

SECTION ONE: Part 2 – Demographics & Enrollment

Target Demographics

Global provides this information based on CIP code(s), areas of study, and top feeder programs to identify the types of professions and career paths for which the adult learner will be prepared. Additionally, the forecast of job openings is included.

1. Describe the opportunities and demands in the job market.
   Job Market/Demand Questions
   Compiled from data available at O*NET OnLine (onetonline.org)
   a. What is the projected growth for this industry over the next 10 years?
   b. What is the projected # of job openings for this industry over the next 10 years?
   c. What are the top sectors within this industry?
   d. Are specific certifications required and/or preferred for workers in this industry?
2. List Specific Skills for this industry (*pulled from Lightcast data*).

Enrollment and Graduation Projections

- *Mention the projected revenue opportunities for the institution.*

Provide projected enrollments for the program specifically during the initial years of implementation. Briefly explain the rationale used to determine enrollment projections.

Prepared by the department

Enrollment and Graduation Projections	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**
New Students	**5**	**10**	**15**	20	**25**
Continuing Students	**0**	**4**	**9**	13	**19**
Graduates	**0**	**0**	**4**	9	**13**
Total					

Annual Retention Rate Target (%)	90
Target Graduation Rate (%)	90
Target Job Placement Rate (%)	100
Target Job Placement Rate (%)	100

SECTION TWO: Program Details

Road Map

Complete the table to demonstrate one iteration of the program roadmap, from start to finish.

Course List		
Prefix	**Title**	**Credits**
Core Requirements		
Programming Foundations (Select one)		3
CSCI 4525	Python Programming II	3
CSCI 4520	Python Programming I	3
AI Foundations (6 credits)		6
CSCI 5405	Artificial Intelligence I	3
CSCI 5420	Applied Machine Learning I	3
or E E 565	Machine Learning I	
AI Elective (3 credits - choose one)		3
CSCI 5425	Introduction to Deep Learning	3
CSCI 5435	Text Mining and Natural Language Processing	3
CSCI 5440	Generative Artificial Intelligence	3
E E 587	Deep Learning for Image Processing	3
E E 596	Digital Image Processing	3
CSCI 5750	Artificial Intelligence II	3
Ethical Foundations (3 credits, choose one)		3
PHIL 451 AI, Ethics, and Society		
ET 550 AI: Ethics, Privacy and Governance		
Focus/Concentration requirements		12
12 credits of approved coursework in a selected area "X" as outlined in program description		
Culminating experience [2]		3
3 credits from one of the following		

CSCI 5991	Special Research Problems	3
E T 595	Capstone Projects in Information Technology	3
SOCI 5991	Special Research Problems	3
MGMT 598	Special Research Programs	3
ACES approved research number		
Total Credits		30

Program catalog URL:

UO code:

SECTION 2 SUBMISSION INSTRUCTIONS:

Upon completion and approval of Section 2, the program proposal serves as the endorsement and is uploaded to the PIM application.

Decision:	Name/Title:	Signature:	Date:
Approval	Beth Apodaca, Vice Chancellor for Learning Science and Assessment		

Gray's & Lightcast data reports

Program Overview

Artificial Intelligence

Lightcast Q3 2025 Data Set

August 2025

New Mexico

Parameters

Completions Year: 2023

Jobs Timeframe: 2021 - 2025

Job Postings Timeframe: Jan 2021 - Feb 2025

Programs:

Code	Description
11.0102	Artificial Intelligence

Regions:

Code	Description	Code	Description
4	Arizona	35	New Mexico
8	Colorado	48	Texas

Education Level:

Description
Master's degree

Tuition Type: Tuition & Fees

Graduate Status: Undergraduate

Residency: In-State

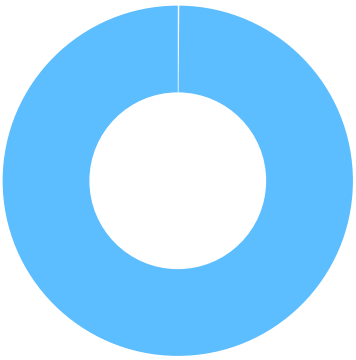
3	98	Completions Distribution
Institutions	Completions	Average: 32.7
200% Growth (2019-2023)	3,167% Growth (2019-2023)	9 — 76
		Median: 13

Program Overview



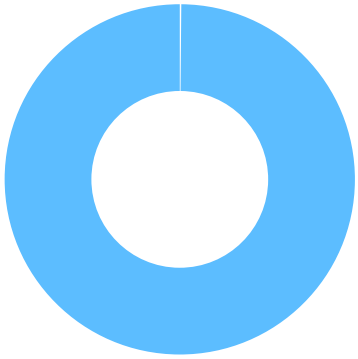
	Completions (2023)	% Completions	Institutions (2023)	% Institutions
All Programs	98	100%	3	100%
Distance Offered Programs	13	13%	1	33%
Non-Distance Offered Programs	85	87%	2	67%

Market Share by Institution Type



Institution Type	Completions (2023)	Market Share
Public, 4-year or above	98	100.0%

Market Share by Program

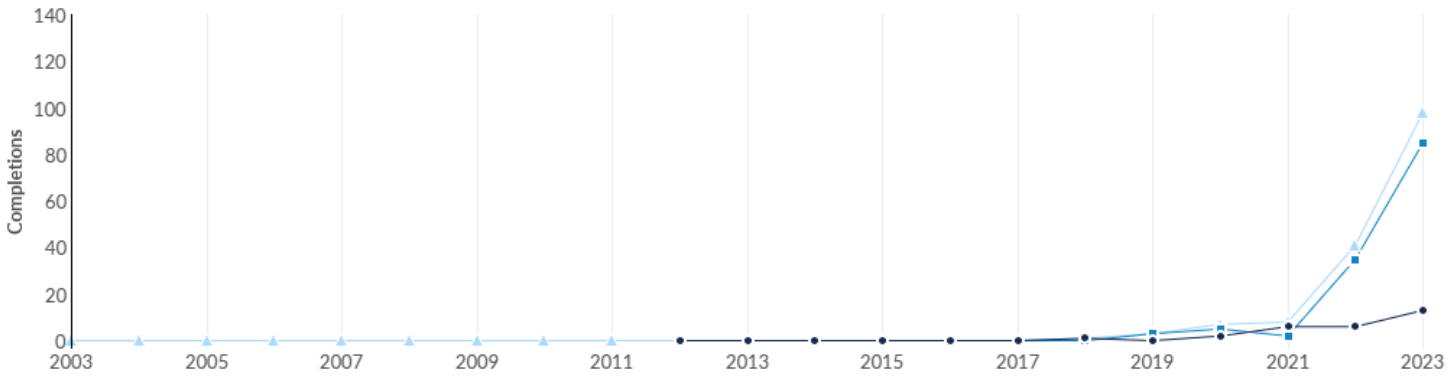


Program	Completions (2023)	Market Share
Artificial Intelligence (11.0102)	98	100.0%

Completions by Institution

Institution	Master's Degree Completions (2023)	Growth % YOY (2023)	Market Share (2023)	IPEDS Tuition & Fees (2023)	Completions Trend (2019-2023)
University of North Texas	76	171.4%	77.6%	$11,164	
University of Arizona	13	116.7%	13.3%	$13,277	
University of Colorado Boulder	9	28.6%	9.2%	$15,556	

Regional Trends



	2012 Completions	2023 Completions	% Change
Distance Offered Programs	0	13	Insf. Data
Non-Distance Offered Programs	0	85	Insf. Data
All Programs	0	98	Insf. Data

Regional Completions by Award Level



Award Level	Completions (2023)	Percent
Master's Degree	98	100.0%

Similar Programs

66	17,709
Programs (2023)	Completions (2023)

CIP Code	Program	Master's Degree Completions (2023)
11.0101	Computer and Information Sciences, General	3,679
11.0701	Computer Science	2,312
11.0401	Information Science/Studies	1,903
11.0103	Information Technology	1,436
14.1001	Electrical and Electronics Engineering	1,071
14.1901	Mechanical Engineering	973
14.0801	Civil Engineering, General	688
14.0101	Engineering, General	663
11.1003	Computer and Information Systems Security/Auditing/Information Assurance	536
14.0901	Computer Engineering, General	426

Target Occupations

Filtered by the proportion of the national workforce in these occupations with a Master's degree

105,259	+28.4%	$63.32/hr $131.7K/yr	15,278
*Jobs (2021)**	*% Change (2021-2025)**	Median Earnings	*Annual Openings**
*2% above National average**	*Nation: +16.9%**	Nation: $63.42/hr; $131.9K/yr	

Occupation	*2021 Jobs**	*Annual Openings**	Median Earnings	*Growth (2021 - 2025)**	*Employment Concentration (2021)**
Software Developers	*57,494*	*8,865*	$63.09/hr	*+36.02%*	*0.99*
Computer and Information Systems Managers	*18,773*	*3,874*	$80.27/hr	*+49.82%*	*1.08*
Computer Systems Analysts	*18,427*	*1,379*	$50.77/hr	*-5.42%*	*1.14*
Engineers, All Other	*5,266*	*517*	$57.51/hr	*+6.93%*	*0.84*
Computer Programmers	*3,913*	*379*	$39.40/hr	*+1.15%*	*0.91*
Computer and Information Research Scientists	*1,327*	*248*	$60.57/hr	*+31.65%*	*0.93*
Electro-Mechanical and Mechatronics Technologists and Technicians	*58*	*16*	$35.61/hr	*+36.21%*	*0.87*

Job Postings Summary

119,246	3 : 1	11,580	25 days
Unique Postings	**Posting Intensity**	**Employers Competing**	**Median Posting Duration**
300,425 Total Postings	Regional Average: 3 : 1	365,809 Total Employers	Regional Average: 28 days

There were **300,425** total job postings for your selection from January 2021 to February 2025, of which **119,246** were unique. These numbers give us a Posting Intensity of **3-to-1**, meaning that for every 3 postings there is 1 unique job posting.

This is close to the Posting Intensity for all other occupations and companies in the region (3-to-1), indicating that they are putting average effort toward hiring for this position.

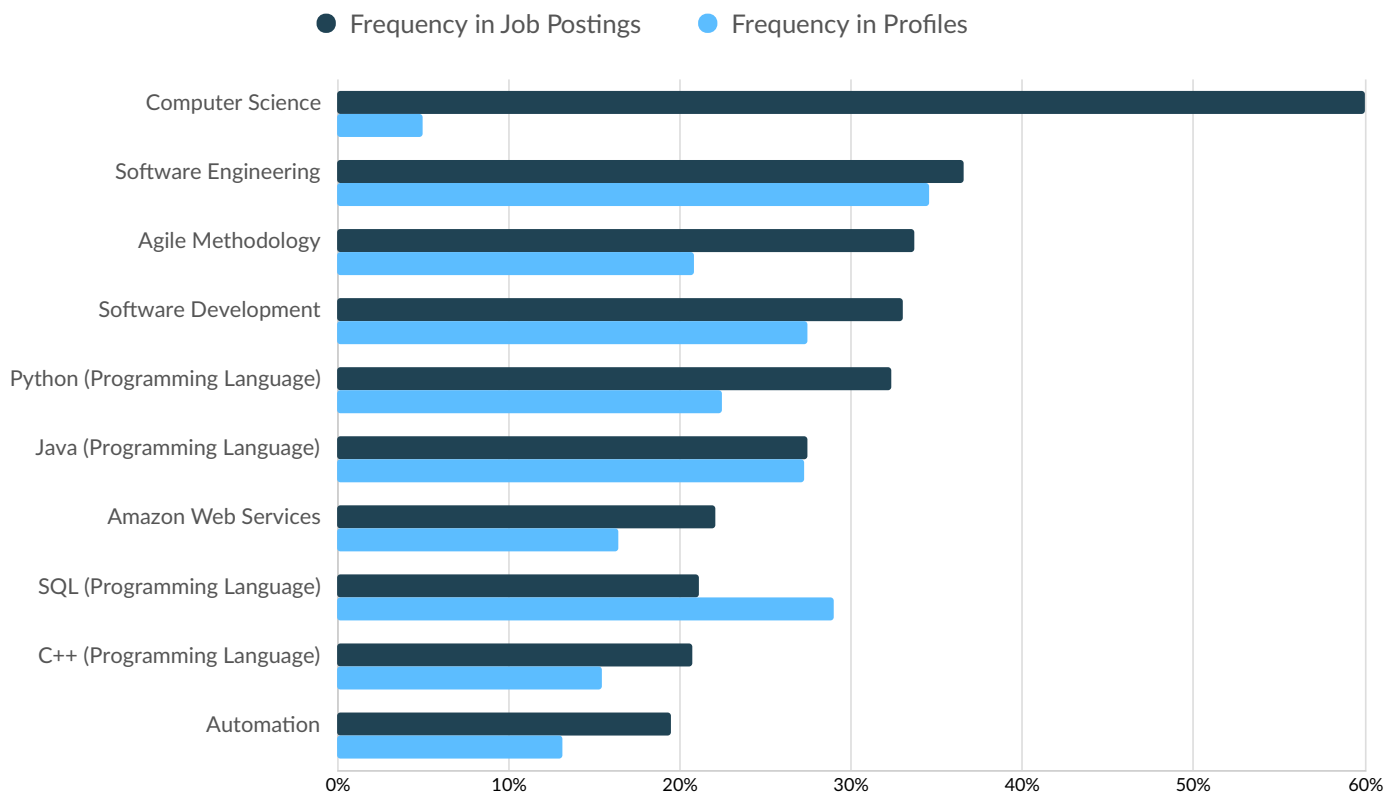
Top Companies Posting

Company	Total/Unique (Jan 2021 - Feb 2025)	Posting Intensity	Median Posting Duration
Raytheon Technologies	7,308 / 2,796	3 : 1	26 days
Amazon	6,487 / 2,623	2 : 1	26 days
Boeing	7,965 / 1,787	4 : 1	21 days
Northrop Grumman	7,588 / 1,773	4 : 1	24 days
Visa	4,498 / 1,638	3 : 1	30 days
Lockheed Martin	4,123 / 1,242	3 : 1	25 days
Intel	2,956 / 1,203	2 : 1	24 days
L3Harris Technologies	3,103 / 1,173	3 : 1	28 days
Citigroup	3,764 / 1,164	3 : 1	25 days
Capital One	4,758 / 1,151	4 : 1	17 days

Top Posted Job Titles

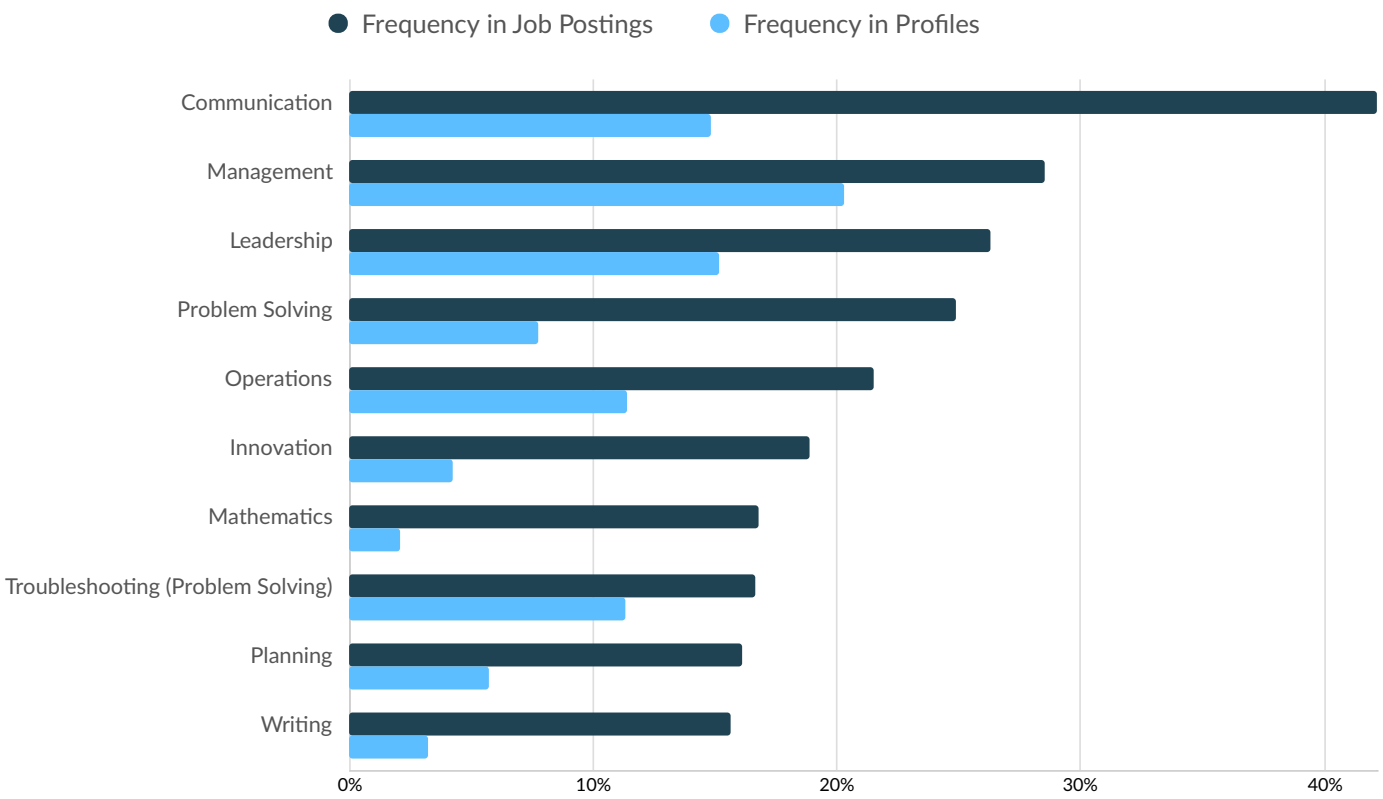
Job Title	Total/Unique (Jan 2021 - Feb 2025)	Posting Intensity	Median Posting Duration
Software Engineers	28,178 / 9,931	3 : 1	27 days
Principal Software Engineers	7,940 / 2,707	3 : 1	26 days
Software Developers	8,081 / 2,524	3 : 1	28 days
Solutions Architects	4,432 / 2,141	2 : 1	24 days
Software Development Engineers	6,160 / 1,980	3 : 1	25 days
DevOps Engineers	4,677 / 1,941	2 : 1	23 days
Machine Learning Engineers	3,095 / 1,491	2 : 1	22 days
Full Stack Software Engineers	4,242 / 1,447	3 : 1	22 days
Embedded Software Engineers	3,622 / 1,392	3 : 1	25 days
Full Stack Developers	3,236 / 1,229	3 : 1	26 days

Top Specialized Skills



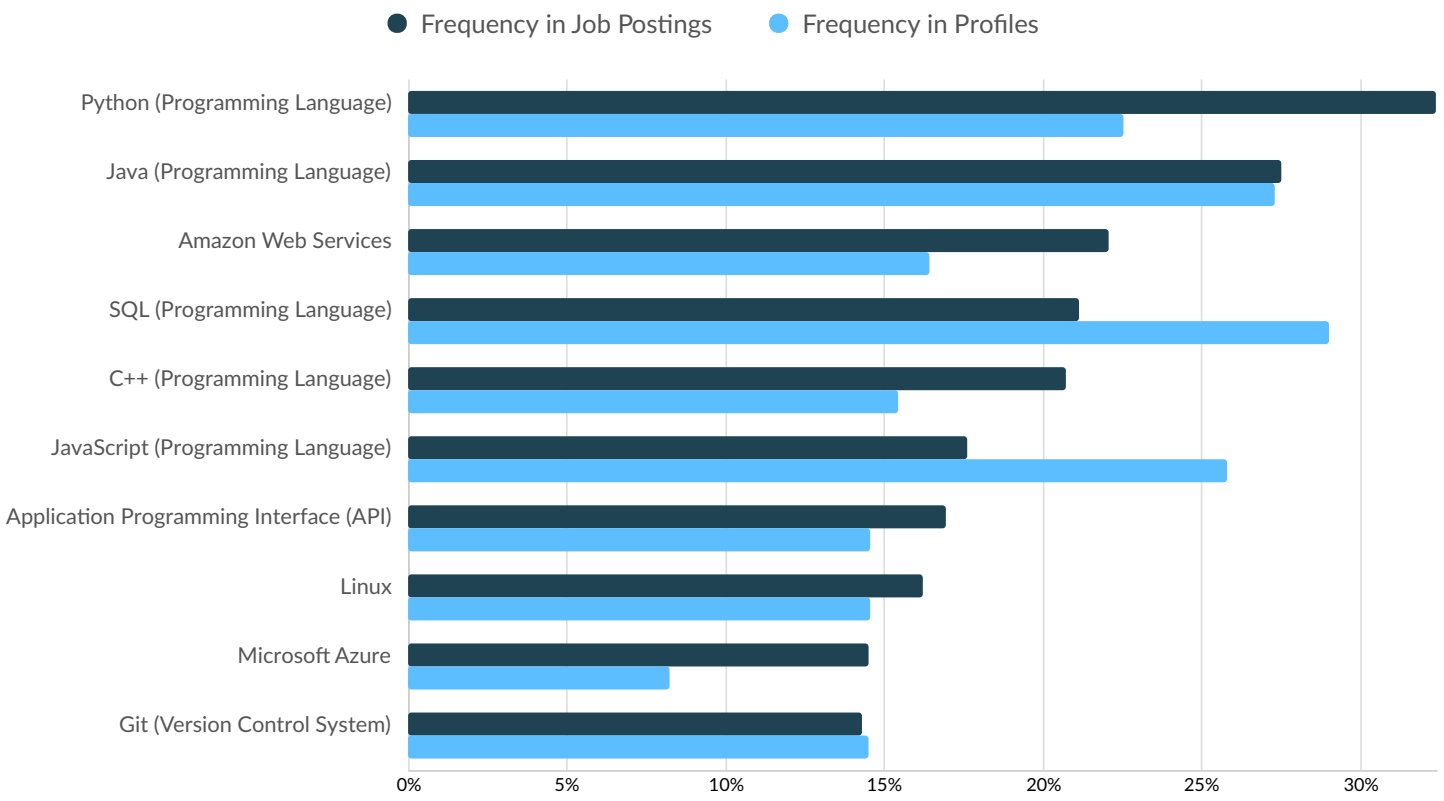
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles	Projected Skill Growth	Skill Growth Relative to Market
Computer Science	71,596	60%	21,570	5%	+26.8%	Rapidly Growing
Software Engineering	43,629	37%	148,533	35%	+23.1%	Rapidly Growing
Agile Methodology	40,154	34%	89,566	21%	+19.8%	Rapidly Growing
Software Development	39,443	33%	118,137	28%	+23.2%	Rapidly Growing
Python (Programming Language)	38,616	32%	96,719	23%	+24.5%	Rapidly Growing
Java (Programming Language)	32,816	28%	117,187	27%	+17.4%	Growing
Amazon Web Services	26,310	22%	70,527	16%	+24.0%	Rapidly Growing
SQL (Programming Language)	25,237	21%	124,647	29%	+6.4%	Stable
C++ (Programming Language)	24,711	21%	66,345	15%	+10.0%	Growing
Automation	23,306	20%	56,336	13%	+30.5%	Rapidly Growing

Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles	Projected Skill Growth	Skill Growth Relative to Market
Communication	50,303	42%	63,850	15%	+3.6%	Lagging
Management	34,010	29%	87,348	20%	+5.3%	Stable
Leadership	31,373	26%	65,133	15%	+8.5%	Stable
Problem Solving	29,678	25%	33,244	8%	+11.3%	Growing
Operations	25,686	22%	48,934	11%	+8.1%	Stable
Innovation	22,526	19%	18,271	4%	+25.8%	Rapidly Growing
Mathematics	20,060	17%	9,052	2%	+20.2%	Rapidly Growing
Troubleshooting (Problem Solving)	19,917	17%	48,647	11%	+19.0%	Growing
Planning	19,270	16%	24,633	6%	+10.9%	Growing
Writing	18,657	16%	14,002	3%	+11.8%	Growing

Top Software Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles	Projected Skill Growth	Skill Growth Relative to Market
Python (Programming Language)	38,616	32%	96,719	23%	+24.5%	Rapidly Growing
Java (Programming Language)	32,816	28%	117,187	27%	+17.4%	Growing
Amazon Web Services	26,310	22%	70,527	16%	+24.0%	Rapidly Growing
SQL (Programming Language)	25,237	21%	124,647	29%	+6.4%	Stable
C++ (Programming Language)	24,711	21%	66,345	15%	+10.0%	Growing
JavaScript (Programming Language)	20,997	18%	110,894	26%	+18.6%	Growing
Application Programming Interface (API)	20,223	17%	62,482	15%	+9.5%	Growing
Linux	19,359	16%	62,437	15%	+8.9%	Growing
Microsoft Azure	17,304	15%	35,477	8%	+28.9%	Rapidly Growing
Git (Version Control System)	17,040	14%	62,225	14%	+11.4%	Growing

Top Qualifications

Qualification	Postings with Qualification
Security Clearance	11,219
Top Secret-Sensitive Compartmented Information (TS/SCI Clearance)	7,156
Secret Clearance	6,456
Master Of Business Administration (MBA)	6,283
Top Secret Clearance	2,647
Certified Information Systems Security Professional	1,992
CompTIA Security+	1,667
Valid Driver's License	1,587
Project Management Professional Certification	1,074
IAT Level II Certification	975

Appendix A

Program Selection Details

CIP Code	Program Name
11.0102	Artificial Intelligence

Appendix B - Data Sources and Calculations

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

Occupation Data

Emsi occupation employment data are based on final Emsi industry data and final Emsi staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates are also affected by county-level Emsi earnings by industry.

Lightcast Job Postings

Job postings are collected from various sources and processed/enriched to provide information such as standardized company name, occupation, skills, and geography.

State Data Sources

This report uses state data from the following agencies: Arizona Commerce Authority; Colorado Department of Labor and Employment; New Mexico Department of Workforce Solutions; Texas Workforce Commission

CIP: 11.0102 Artificial Intelligence	Award Level: Masters	Market: National	Total Score: 0	Percentile: 50

Student Demand
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Size	91	Google Search Volume (12 Months)*	867,260	NS
	99	International Page Views (12 Months)	48,983	NS
	95	New Student Enrollment Volume (12 Mo.)	2,969	NS
	92	On-ground Completions at In-Market Institutions	836	NS
	79	Online Completions by In-Market Students	78	NS
	89	Sum of On-ground and Online Completions	914	NS
Growth	94	Google Search YoY Change (Units)*	372,220	NS
	99	New Student Enrollment Vol. YoY Change (Units)	1,530	NS
	98	Completion Volume YoY Change (Units)	431	NS
	90	Google Search YoY Change (%)*	75%	NS
	95	New Student Enrollment Vol. YoY Change (%)	106%	NS
	94	Completion Volume YoY Change (%)	89%	NS

Competitive Intensity
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Volume of In-Market Competition	13	Campuses with Graduates**	34	NS
	2	Campuses with Grads YoY Change (Units)**	5	NS
	23	Institutions with Online In-Market Students**	3	NS
In-Market Program Sizes	92	Average Program Completions	25	NS
	85	Median Program Completions	11	NS
	89	YoY Median Prog. Compl. Change (Units)	2	NS
	78	YoY Median Prog. Compl. Change (%)	20%	NS
In-Market Saturation	14	Google Search * Cost per Click**	$14	NS
	2	Google Competition Index**	0.66	NS
National Online Competition	15	National Online Institutions (Units)**	8	NS
	61	Nat'l Online % of Institutions	22%	NS
	40	Nat'l Online % of Completions	9%	NS

Employment
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Size: Entry Jobs	90	Job Postings Total (12 Months)	1,387	NS
	89	BLS Current Employment	7,216	NS
	89	BLS Annual Job Openings	637	NS
Underemployed	68	Underemployed Percent of Graduates**	31%	NS
Growth: Entry Jobs	75	BLS 1-Year Historical Growth	5.3%	NS
	50	BLS 3-Year Historic Growth (CAGR)	4.5%	NS
	88	BLS 10-Year Future Growth (CAGR)	1.5%	NS
Saturation: Entry Jobs	69	Job Postings per Graduate	1.5	NS
	79	BLS Job Openings per Graduate	0.7	NS
Weighted-Avg BLS Wages	98	Entry 25th Percentile	$102,510	NS
	98	Post Entry Median	$123,836	NS
		Post Entry w/Associates Median	NA	NS
		Post Entry w/Bachelors Median	NA	NS
	98	Post Entry w/Masters Median	$123,659	NS
	93	Post Entry w/Doctoral Median	$132,964	NS
National American Community Survey Bachelor's Degree Outcomes*		% with Any Graduate Degree*	NA	NS
		% with Masters*	NA	NS
		% with Doct/Prof Degree*	NA	NS
		% Unemp. (Age <30)**	NA	NS
		% in Direct Prep Jobs*	NA	NS

Degree Fit
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Cost Benchmarking		Average Cost per SCH Index**	NA	NS
		Median Cost per SCH Index**	NA	NS

National Completions by Level
Score: 0

National Workforce Ed. Attainment
Score: 0

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)	BLS Educational Attainment
No College				4%
Some College				10%
Certificate	0%	0%	0%	
Associates	0%	0%	0%	6%
Bachelors	9%	9%	10%	48%
Postbaccalaureate Certificate	12%	12%	2%	
Masters	76%	76%	74%	28%
Post-masters Certificate	0%	0%	7%	
Doctoral	3%	3%	7%	5%

CIP Description:
A program that focuses on the symbolic inference, representation, and simulation by computers and software of human learning and reasoning processes and capabilities, and the computer modeling of human motor control and motion. Includes instruction in computing theory, cybernetics, human factors, natural language processing, and applicable aspects of engineering, technology, and specific end-use applications.

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	0	0	0	0	0	0	0	0

* - Google search do not filter by award level.
** - Percentiles are displayed in reverse (100% minus the percentile).
NA - No data available/not currently tracked.
NS - Not Scored in Rubrics (values = 0).
PCTL - Percentile

GRAY DI

CIP: 11.0102 Artificial Intelligence	Award Level: Masters	Market: New Mexico	Total Score: 0	Percentile: 50

Student Demand
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Size	90	Google Search Volume (12 Months)*	3,890	NS
	99	International Page Views (12 Months)	48,983	NS
	91	New Student Enrollment Volume (12 Mo.)	10	NS
	0	On-ground Completions at In-Market Institutions	0	NS
	0	Online Completions by In-Market Students	0	NS
	0	Sum of On-ground and Online Completions	0	NS
Growth	94	Google Search YoY Change (Units)*	1,370	NS
	98	New Student Enrollment Vol. YoY Change (Units)	8	NS
	94	Completion Volume YoY Change (Units)	0	NS
	94	Google Search YoY Change (%)*	54%	NS
	99	New Student Enrollment Vol. YoY Change (%)	4	NS
		Completion Volume YoY Change (%)	NA	NS

Competitive Intensity
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Volume of In-Market Competition	100	Campuses with Graduates**	0	NS
	50	Campuses with Grads YoY Change (Units)**	0	NS
	100	Institutions with Online In-Market Students**	0	NS
In-Market Program Sizes		Average Program Completions	NA	NS
		Median Program Completions	NA	NS
		YoY Median Prog. Compl. Change (Units)	NA	NS
		YoY Median Prog. Compl. Change (%)	NA	NS
In-Market Saturation	18	Google Search * Cost per Click**	$10	NS
	26	Google Competition Index**	0.39	NS
National Online Competition	15	National Online Institutions (Units)**	8	NS
	61	Nat'l Online % of Institutions	22%	NS
	40	Nat'l Online % of Completions	9%	NS

Employment
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Size: Entry Jobs	88	Job Postings Total (12 Months)	7	NS
	88	BLS Current Employment	27	NS
	88	BLS Annual Job Openings	2	NS
Underemployed	68	Underemployed Percent of Graduates**	31%	NS
Growth: Entry Jobs	97	BLS 1-Year Historical Growth	16.8%	NS
	78	BLS 3-Year Historic Growth (CAGR)	4.1%	NS
	86	BLS 10-Year Future Growth (CAGR)	1.1%	NS
Saturation: Entry Jobs		Job Postings per Graduate	NA	NS
		BLS Job Openings per Graduate	NA	NS
Weighted-Avg BLS Wages	94	Entry 25th Percentile	$87,776	NS
	94	Post Entry Median	$109,546	NS
		Post Entry w/Associates Median	NA	NS
		Post Entry w/Bachelors Median	NA	NS
	94	Post Entry w/Masters Median	$109,381	NS
	97	Post Entry w/Doctoral Median	$118,094	NS
National American Community Survey Bachelor's Degree Outcomes*		% with Any Graduate Degree*	NA	NS
		% with Masters*	NA	NS
		% with Doct/Prof Degree*	NA	NS
		% Unemp. (Age < 30)**	NA	NS
		% in Direct Prep Jobs*	NA	NS

Degree Fit
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Cost Benchmarking		Average Cost per SCH Index**	NA	NS
		Median Cost per SCH Index**	NA	NS

National Completions by Level
Score: 0

National Workforce Ed. Attainment
Score: 0

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)	BLS Educational Attainment
No College				4%
Some College				10%
Certificate	0%		0%	
Associates	0%		0%	6%
Bachelors	9%		0%	48%
Postbaccalaureate Certificate	12%		0%	
Masters	76%		71%	28%
Post-masters Certificate	0%		7%	
Doctoral	3%		21%	5%

CIP Description:
A program that focuses on the symbolic inference, representation, and simulation by computers and software of human learning and reasoning processes and capabilities, and the computer modeling of human motor control and motion. Includes instruction in computing theory, cybernetics, human factors, natural language processing, and applicable aspects of engineering, technology, and specific end-use applications.

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	0	0	0	0	0	0	0	0

* - Google search do not filter by award level.
** - Percentiles are displayed in reverse (100% minus the percentile).
NA - No data available/not currently tracked.
NS - Not Scored in Rubrics (values = 0).
PCTL - Percentile

GRAY DI

CIP: 11.0102 Artificial Intelligence	Award Level: Masters	Market: West Region (Excluding CA)	Total Score: 0	Percentile: 50

Student Demand
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Size	91	Google Search Volume (12 Months)*	95,730	NS
	99	International Page Views (12 Months)	48,983	NS
	95	New Student Enrollment Volume (12 Mo.)	293	NS
	92	On-ground Completions at In-Market Institutions	67	NS
	83	Online Completions by In-Market Students	9	NS
	89	Sum of On-ground and Online Completions	76	NS
Growth	94	Google Search YoY Change (Units)*	37,540	NS
	99	New Student Enrollment Vol. YoY Change (Units)	165	NS
	96	Completion Volume YoY Change (Units)	30	NS
	92	Google Search YoY Change (%)*	65%	NS
	93	New Student Enrollment Vol. YoY Change (%)	129%	NS
	85	Completion Volume YoY Change (%)	64%	NS

Competitive Intensity
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Volume of In-Market Competition	11	Campuses with Graduates**	4	NS
	9	Campuses with Grads YoY Change (Units)**	0	NS
	21	Institutions with Online In-Market Students**	1	NS
In-Market Program Sizes	82	Average Program Completions	17	NS
	60	Median Program Completions	7	NS
	79	YoY Median Prog. Compl. Change (Units)	1	NS
	75	YoY Median Prog. Compl. Change (%)	17%	NS
In-Market Saturation	13	Google Search * Cost per Click**	$14	NS
	3	Google Competition Index**	0.63	NS
National Online Competition	15	National Online Institutions (Units)**	8	NS
	61	Nat'l Online % of Institutions	22%	NS
	40	Nat'l Online % of Completions	9%	NS

Employment
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Size: Entry Jobs	89	Job Postings Total (12 Months)	140	NS
	90	BLS Current Employment	966	NS
	91	BLS Annual Job Openings	90	NS
Underemployed	68	Underemployed Percent of Graduates**	31%	NS
Growth: Entry Jobs	39	BLS 1-Year Historical Growth	4.1%	NS
	24	BLS 3-Year Historic Growth (CAGR)	5.1%	NS
	88	BLS 10-Year Future Growth (CAGR)	1.9%	NS
Saturation: Entry Jobs	50	Job Postings per Graduate	1.8	NS
	57	BLS Job Openings per Graduate	1.2	NS
Weighted-Avg BLS Wages	98	Entry 25th Percentile	$103,539	NS
	98	Post Entry Median	$124,269	NS
		Post Entry w/Associates Median	NA	NS
		Post Entry w/Bachelors Median	NA	NS
	98	Post Entry w/Masters Median	$124,152	NS
	98	Post Entry w/Doctoral Median	$130,362	NS
National American Community Survey Bachelor's Degree Outcomes*		% with Any Graduate Degree*	NA	NS
		% with Masters*	NA	NS
		% with Doct/Prof Degree*	NA	NS
		% Unemp. (Age <30)**	NA	NS
		% in Direct Prep Jobs*	NA	NS

Degree Fit
Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
Cost Benchmarking		Average Cost per SCH Index**	NA	NS
		Median Cost per SCH Index**	NA	NS

National Completions by Level
Score: 0

National Workforce Ed. Attainment
Score: 0

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)	BLS Educational Attainment
No College				4%
Some College				10%
Certificate	0%	0%	0%	
Associates	0%	0%	0%	6%
Bachelors	9%	9%	13%	48%
Postbaccalaureate Certificate	12%	7%	1%	
Masters	76%	83%	74%	28%
Post-masters Certificate	0%	0%	4%	
Doctoral	3%	1%	8%	5%

CIP Description:
A program that focuses on the symbolic inference, representation, and simulation by computers and software of human learning and reasoning processes and capabilities, and the computer modeling of human motor control and motion. Includes instruction in computing theory, cybernetics, human factors, natural language processing, and applicable aspects of engineering, technology, and specific end-use applications.

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	0	0	0	0	0	0	0	0

* - Google search do not filter by award level.
** - Percentiles are displayed in reverse (100% minus the percentile).
NA - No data available/not currently tracked.
NS - Not Scored in Rubrics (values = 0).
PCTL - Percentile

GRAY DI

Board of Regents Meeting **Agenda Item #** G-3
Meeting Date: September 15, 2025
Agenda Item Cover Page

☒ Action Item
☐ Consent Item
☐ Informational Item

Presented By:
Martha Desmond, Ph.D.
Department Head, Fishery and Wildlife Sciences
Kasey Pregler, Ph.D.
Affiliated Faculty

Agenda Item:

Wildlife and Fisheries Ecology – Doctor of Philosophy

Requested Action of the Board of Regents:

Approval of the Wildlife and Fisheries Ecology – Doctor of Philosophy program proposal as presented.

Executive Summary:

The Wildlife and Fisheries Ecology – Doctor of Philosophy academic program proposal is a dissertation based doctoral program with 48-60 credit hours needed to complete the program. Candidates will be accepted into the program to work with a specific faculty member to advise and assist in the development of the candidate's dissertation. Students will take courses from Applied Statistics; Biology; Fish, Wildlife and Conservation Ecology; Animal and Range Sciences; and Geography. There are no similar degree programs to this proposal in the state or in the Southwestern region. The department currently has the faculty and resources to provide this Ph.D. and has support from NMSU Departments, other NM Higher Education Institutions, State of New Mexico entities (New Mexico Department of Game and Fish & Los Alamos National Laboratory), Cochiti Pueblo, Jicarilla Apache Nation, Santa Ana Pueblo, and Arizona Game and Fish Department, as well as multiple federal agencies, non-governmental organizations, industry leaders, and professional societies.

The program addresses the ecological and economic needs of New Mexico and the broader Southwest by producing skilled scientists equipped to manage and conserve the region's unique and fragile ecosystems. The program will prepare graduates to conduct research and develop science-based strategies to sustain biodiversity, manage and sustain populations of huntable species and species at risk, manage water-limited aquatic habitats, and restore degraded ecosystems, all of which are critical to maintaining the region's ecological integrity and resilience.

Recognizing the value of natural resources, the New Mexico Economic Development Department (NMEDD) has identified outdoor recreation and sustainable and green energy as two of nine targeted industries to diversify and grow the state's economy. The long-term

success of both industries is closely tied to the health of ecosystems and wildlife habitats, which are affected by land use, changes in weather patterns, and energy development. Integrating wildlife ecology into green energy planning helps avoid or mitigate ecological impacts from renewable energy infrastructure, ensuring that development is both sustainable and environmentally responsible. New Mexico State University's Ph.D. program in wildlife and fisheries ecology supports advanced research that informs conservation, habitat management, and policy decisions by state and federal agencies, tribal nations, non-profit organizations and industry. This research is essential not only for sustaining outdoor recreation, but also for guiding green energy expansion in ways that protect biodiversity and ecosystem services critical to New Mexico's environmental and economic future.

The program will met workforce needs across various sectors, including state and tribal wildlife agencies, New Mexico Environment Department, federal land and resource management entities, non-governmental organizations and industry (including private environmental consulting firms). All workforce areas have a growing need for trained scientists in this field to fill gaps or to meet the needs of the growing demand.

References:

See attached presentation, proposal, and supplemental materials.

Prior Approvals:

The Wildlife and Fisheries Ecology – Doctor of Philosophy proposal has achieved prior approvals (PIM approval path) including:
Student Records Office (Gabrielle Martinez) - July 1, 2025
ACES College (Robert Torres) – August 8, 2025
Graduate Dean (Ranjit Koodali) – August 8, 2025
University Program Approval Committee (UPAC) - August 21, 2025

All other approvals in the PIM system are outlined in the supplemental materials.

Agenda Item Approved By:

Each office may determine required signatures (if any). All items should be routed through the President's Office, University General Counsel, or the Secretary of NMDA as appropriate.

_____ _____

Name, Ph.D. Date
Title

Department of Fish, Wildlife and Conservation Ecology
Ph.D. in Wildlife & Fisheries Ecology

Martha Desmond, Wiebke Boeing, Jennifer Frey, Jimmy Cain, Kelly Jones, Fitsum Gebreselassie, Zach Klein, Abby Lawson, Theresa Laverty, Kasey Pregler, Obed Hernández-Gómez , Brian Millsap, Jay Gedir

Agricultural, Consumer and Environmental Sciences



BE BOLD. Shape the Future.®
New Mexico State University

Wildlife and Fisheries Ecology

A multidisciplinary degree encompassing Fish, Wildlife, and Conservation Ecology (FWCE)

- Addresses the ecological and economic needs of New Mexico and the broader Southwest by producing skilled scientists equipped to manage and conserve the region's unique and fragile ecosystems.
- The Southwest is characterized by arid landscapes, diverse wildlife, and increasingly stressed natural resources due to drought, heatwaves, catastrophic megafires, and population growth.
- The program prepares graduates to conduct research and develop science-based strategies to:
  - sustain biodiversity
  - manage and sustain populations of huntable species and species at risk
  - manage water-limited aquatic habitats
  - restore degraded ecosystems

  all of which are critical to maintaining the region's ecological integrity and resilience.

Careers in Wildlife & Fisheries Ecology

- State Wildlife Agencies
- State Environmental Departments
- Federal Agencies
  - US Fish & Wildlife Service
  - USDA Forest Service
  - National Park Service
  - Bureau of Land Management
  - Bureau of Indian Affairs
- Tribes and Pueblos
- Non-Governmental Organizations
- Industry
  - Professional Consulting
  - Energy Development
- Higher Education

Income

- Competitive with other STEM degrees
- WICHE Market is higher than the national average
  - Entry Salary: $83,837 vs $91,946
  - Median Salary: $119,203 vs $128,101



Overview of CIP 03.0601 (Classification of Instructional Programs)

2023 Completions

- 44 degree completions nationally from 12 universities
- 17 completions in WICHE states from 5 universities

2023 Enrollment

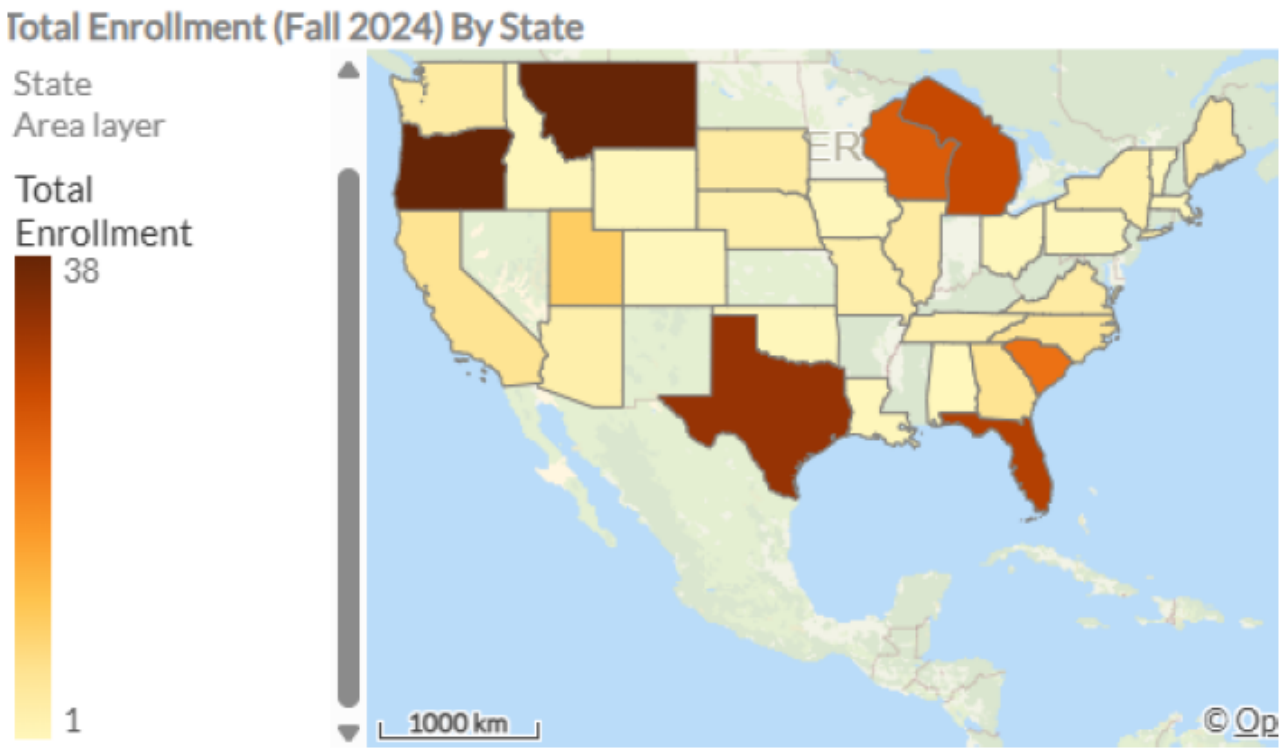
- Nationwide: The program was offered at institutions in 33 states, with total enrollment of 290 in fall 2023.
- WICHE: The program was offered at institutions in 12 WICHE states, total enrollment of 131 in fall of 2023.

Program Growth

- Nationwide: 96 students entered this program in 2023 (93rd percentile for YOY change)
- WICHE: 34 new students entered this program in 2023 (91st percentile for YOY change)

03.0601 Wildlife and Wildlands Science and Management

Total Enrollment by State



- Note low enrollment in the Southwest region.
- Erollment in Texas is primarily on the east side of the state.

Requirements for Ph.D. Program

Two Pipelines for students coming into our program

- Students with MS (48 credits)
- Students with BS (60 credits, FWCE foundational MS requirements)

Both tracks follow general graduate school guidelines, but credits differ

Time to Completion

Students that complete a MS prior to starting their Ph.D. should, on average, complete their Ph.D. Program in 4.5 years.

Students that do not complete an MS prior to starting their Ph.D. should, on average, complete their Ph.D. Program in 6 years.

Coursework

Required Courses

- FWCE 690 Doctoral Seminar (minimum of 2 semesters)
- BIOL 540 Science and Ethics
- FWCE 700 Doctoral Dissertation (18 credits count toward degree)

Elective Courses

Minimum of 15 FWCE credits 500 or above

- Quantitative Courses
  - ➢Set of courses from FWCE and A ST (500+)
- Ecological Concepts, Organismal Biology, Ecological Techniques
  - ➢Set of courses from FWCE, Biology, Geography, Range Science (500+)
- No more than 6 credits of FWCE 699 Doctoral Research apply toward graduation

Ph.D. program waitlist for Fall 2026



Charles Britt received his M.S. from FWCE in 2011. Charles is the owner and biologist for Mesa Ecological Services LLC that works across the southwest as well as Mexico and Central America. He is interested in working with Dr. Gebreselassie to expand his quantitative skills applied in wildlife management and conservation



Wiliam Grooms is a current M.S. student in FWCE working on the Peñasco Least Chipmunk. He will start a Ph.D. in fall 2026 working with Dr. Frey on mammal community ecology in northern New Mexico.



Alex Merchlinsky is a current M.S. student in FWCE. He is interested in continuing for a Ph.D. working with Bendire's Thrashers related to energy development in the bootheel. He will work with Drs. Gebreselassie and Desmond



The Laverty Lab will be recruiting 1-2 new Ph.D. students in fall 2026 for NSF, NPS, TEF funded research related to bat community ecology around ephemeral water and renewable energy sources in NM and the southwest.

Importance to New Mexico

- Supports NM outdoor recreation which is one of the state's target industries.
- Skilled scientists equipped to manage & conserve NM natural resources.
- Dissertation research collaborates with stakeholders and addresses important conservation and management issues for New Mexico.
- Broad stakeholder support, expressing the need for this program.
- Develops a New Mexico pipeline
  - Strengthens collaborations with institutions across the state (NMHU, ENU, WNMU)
  - Keeps expertise within New Mexico
- Currently lacking a Ph.D. program in Wildlife and Fisheries Ecology in New Mexico, and low enrollment in the southwest region.

Faculty, staff and existing facilities & equipment

- Located in Knox Hall
- NMSU Wildlife Museum
- Faculty labs
- Shared aquatic space
- Access to numerous facilities across campus and the state



Faculty Resources

- 9 regular faculty (Research/Instruction)
- USGS Cooperative Research Unit (3 research/instruction)
- 2 Research Scientists
- 7 Postdoctoral Fellows

Strong National and International Collaborations

Strong Research Potential

- Grant awards 2024: $7,299,287
- Current active grants: $31,457,178
- Faculty already mentoring Ph.D. students
- Quality peer-reviewed publications: 32 in 2024

Projected Costs

- No additional costs needed for the program.
  - Faculty are in place for the program.
  - Library resources are in place for the program.
  - Facilities & equipment resources are in place for the program.
  - Graduate Assistantships - Support comes from internal and external grants and contracts
    - USFWS, NMDG&F, WSMR, USFS, NPS, BLM, BOR, Industry, USDA, NSF, Private, CEFAS, Tribal, etc.
- 12 permanent faculty
- FWCE faculty have strong and stable grant support

Summary

- Historically steady number of completions & strong new enrollment within CIP 03.0601
- Low enrollment in the southwest = opportunity
- Median entry and post entry salaries are competitive
- Strong stakeholder support, demonstrates a need for this program in New Mexico
- Supports outdoor recreation, strong NM industry

THANK YOU!

1075: WILDLIFE AND FISHERIES ECOLOGY - DOCTOR OF PHILOSOPHY

In Workflow

1. Student Records Office - Programs (gdmart@nmsu.edu)
2. AG Academic Dean (rmt@nmsu.edu; lizhartm@nmsu.edu)
3. Graduate Dean (rkoodali@nmsu.edu)
4. UPAC - Chair (jlakey@nmsu.edu)
5. Provost (lnr@nmsu.edu; mcateer@nmsu.edu; cecimh@nmsu.edu)
6. President (jbannist@nmsu.edu; myniguez@nmsu.edu; ferm4363@nmsu.edu)
7. Board of Regents (cavotta@nmsu.edu)
8. Graduate School - Council of Deans (rkoodali@nmsu.edu)
9. Student Records Office - HED (gdmart@nmsu.edu)
10. Student Records Office - CIP (gdmart@nmsu.edu)
11. MA HLC (cecimh@nmsu.edu)
12. Student Records Office (gdmart@nmsu.edu)

Approval Path

1. Tue, 01 Jul 2025 16:03:43 GMT
   Gabrielle Martinez (gdmart): Approved for Student Records Office - Programs
2. Fri, 08 Aug 2025 19:52:12 GMT
   Robert Torres (rmt): Approved for AG Academic Dean
3. Fri, 08 Aug 2025 21:54:10 GMT
   Ranjit Koodali (rkoodali): Approved for Graduate Dean
4. Fri, 05 Sep 2025 16:25:16 GMT
   Joe Lakey (jlakey): Approved for UPAC - Chair
5. Fri, 05 Sep 2025 16:33:24 GMT
   James Mcateer (mcateer): Approved for Provost
6. Fri, 05 Sep 2025 22:47:48 GMT
   Marissa Yniguez (myniguez): Approved for President

New Program Proposal

Date Submitted: Mon, 30 Jun 2025 17:22:52 GMT

Viewing: 1075 : Wildlife and Fisheries Ecology - Doctor of Philosophy

Last edit: Fri, 08 Aug 2025 21:54:05 GMT

Changes proposed by: Martha Desmond (mdesmond)

Submission Information

The Degree Type will factor into the level and the submissions that must occur for HED and HLC.
• Community College Types: Applied Associate Degree, Associate Degree, Certificate, Concentration
• Main/Global Campus Undergrad Types: Bachelor's Degree, Concentration, Minor
• Main/Global Campus Graduate Types: Master's Degree, Doctoral Degree, Certificate, Concentration, Minor

Degree Type

Doctoral Degree

The Degree Title dropdown has all existing degree titles in Banner, if you do not see the one you are looking for you will select "Other" then in the New Degree Title box you will type out the official title of the degree (as you would want it to appear on a students record, transcript, and/or diploma).

Degree Title

Doctor of Philosophy

Academic Level

Graduate

The Catalog Title will be what is displayed in the catalog page. The standard format is Major (Concentration) - Degree Title. (I.e., Mathematics (Secondary Education) - Bachelor of Science. Note: If there is no concentration you would just list the Major - Degree.

Catalog Title
Wildlife and Fisheries Ecology - Doctor of Philosophy

College
Agricult/Consumer/Environ Sci

Campus
Main Campus

Department
Fish,Wildlife,Conserv Ecology

Effective Catalog
2026-2027

If opting for a Global program, specify "Global Campus" under campus type. You must have a Program Proposal on file with Global Campus prior to submission of a new Global program. Contact Global Campus for more information.

Program Teaching Modality
Traditional-Face to Face

CIP Code
030601 - Wildlife, Fish and Wildlands Science and Management.

Normal or typical length of time for students to complete the program (in years)
4.5

Curriculum Information

Program Learning Outcomes

	Learning Outcomes
Outcome 1	Graduates will be able to formulate hypotheses, conduct research, and synthesize conclusions as demonstrated through production of a dissertation: 1) Performance in comprehensive exam, 2) Defendable dissertation.
Outcome 2	Graduates will effectively communicate scientific information verbally and in written form: 1) verbal communication skills will be assessed during oral comprehensive exam and dissertation defense; 2) written communication skills will be assessed with the research proposal and dissertation.
Outcome 3	Graduates will demonstrate proficiency in experimental design and quantitative analysis of research data: 1) Performance in statistics classes, 2) Quality of analyses in dissertation, 3) Performance in comprehensive exam.
Outcome 4	Students will understand how to conduct scholarly and professional activities in an ethical manner: 1) Performance in ethics class, 2) Frequency of student attendance and participation in professional society functions.
Outcome 5	Graduates will demonstrate thorough knowledge of their chosen disciplines within fish, wildlife, and conservation ecology. Possible assessment: 1) Performance in disciplinary courses, 2) Knowledge of discipline in comprehensive exam, 3) Depth of disciplinary information in dissertation.

List of academic departments/units and or institutions involved in the delivery of courses

Department/Unit
Applied Statistics; Biology; Fish, Wildlife and Conservation Ecology; Animal and Range Sciences; Geography

The Course Requirements, need to be in the standard format for the catalog because this piece of the form will be imported directly onto the catalog page. See the Student Records Website for a guide. The total number of credits at the bottom of the course list will be the "official" total for the degree. Please make sure it adds up correctly.

Course Requirements

Candidates are accepted into the department to work with a specific faculty member that serves as their major advisor and committee chair. Students will develop their dissertation committee before the end of the second semester of study. Students will form the dissertation committee in consultation with their advisor and the committee must include a minimum of four members with at least two other members from the FWCE graduate faculty and a Dean's Representative that must come from outside the FWCE department. Students will select courses in consultation with their major advisor and committee members based on their background and interests.

For students with an Master of Science degree, a total of 48 credits are required to graduate (30 graduate credits [level 500 or above] and 18 dissertation [700] credits). Students who start the program having completed only a bachelor's degree must take an additional 12 graduate course credits to graduate (60 total credits).

Doctor of Philosophy students must:

- Complete a minimum of 6 semesters, with at least two occurring after the comprehensive exam.
- A maximum of 6 credits of FWCE 699 Doctoral Research doctoral research may apply toward graduation.
- Complete a minimum of 30 credits of graduate work excluding dissertation credits (FWCE 700 Doctoral Dissertation). This must include 2 credits of FWCE 690 Doctoral Seminar and BIOL 540 Science and Ethics (2 credits).
- Complete 18 credits of FWCE 700 Doctoral Dissertation after passing the comprehensive exams.
- At least 15 credits of the required elective courses must come from FWCE courses numbered 500 or above.
- Maintain a minimum grade point average of 3.0.
- Enroll in at least 1 credit/semester or 9 credits if full-time.
  - Full-time domestic students may file a request for waiver permitting them to enroll for only 6 credits in their second to last semester and to enroll for only 1 credit during their final semester if coursework and comprehensive exam requirements have been fulfilled.
- Successfully complete a qualifying exam (if a Ph.D. student without a master's degree), proposal defense, comprehensive exam, and dissertation defense. (see below)

Other recommendations for Ph.D. students:

- Ph.D. candidates are encouraged to do the following:
  - Consider including a committee member from outside NMSU, whether from a non-governmental organization, state/federal agency, or other university.
  - Gain experience as a teaching assistant for at least one semester and/or enroll in FWCE 510 Wildlife Ecology Teaching Practicum.
  - Present research at least once in a poster or oral format at a regional, national, or international conference.
  - Submit at least one manuscript as first author for publication in a peer-reviewed journal.

Exams

Qualifying exam – Students with an Master of Science degree do not need to take a qualifying exam. Students with a bachelor's degree must take a qualifying exam after completion of at least 18 credits. The qualifying exam will consist of an oral exam administered by the student's committee. If a student does not pass the qualifying exam, they can coordinate with their major advisor to potentially pursue a Master of Science degree.

Proposal defense – The student should defend their proposal to their committee no later than the end of the fourth semester of their studies. The students will prepare a short presentation summarizing the proposal chapters and will then answer questions related to their proposal from the committee.

Comprehensive exam – This exam covers all phases of the major and minor fields of study and is given after passing the proposal defense and before the end of the sixth semester, and when sufficient progress has been made toward fulfilling agreed upon research goals. The examination will have both written and oral portions. The written portion may be in the form of a research proposal (that does not overlap with their existing dissertation research) or may consist of questions presented by the students' committee. The student must pass their graduate committee's expectation on the written portion before taking the oral portion. Students will not be allowed to register for 700 level courses until both parts of the comprehensive exam have been passed. If a student does not pass the comprehensive exam, they will have the opportunity to retake their comprehensive exam no sooner than three months and no later than 12 months after their initial attempt.

Dissertation Defense – The dissertation defense shall be completed after all degree requirements are satisfied. However, dissertation credits can be taken during the same semester as the dissertation defense. A minimum of 2 semesters must elapse between the comprehensive exam and dissertation defense.

Failure to pass an exam does not necessarily mean removal from the Ph.D. program. Students may be given the option to continue the program or pursue a Master of Science degree after discussion with their major advisor and (or) academic dean. Note that for each of the exam stages (e.g., qualifying exam, comprehensive exam, and dissertation defense), when an Master of Science degree-holding student does not pass, they may not be allowed to continue in the program. Such a case will be dealt with on an individual basis with active participation from the graduate dean.

Students should consult the Graduate School website for specific information regarding the completion of the degree and submission of the dissertation.

Prefix	Title	Credits
Required Courses		
BIOL 540	Science and Ethics	2
Take 2 credits of Doctoral Seminar		2
FWCE 690	Doctoral Seminar	1
Take 18 credits of Doctoral Dissertation after Comprehensive Exam		18
FWCE 700	Doctoral Dissertation	1-15
Elective Courses - Courses from 450-600		26-38
Other courses that can count towards electives for degree requirements:		
A ST 505	Statistical Inference I	4
A ST 506	Statistical Inference II	0,3
A ST 507	Advanced Regression	3
A ST 509	Statistical Models for Complex Data Structures	3

A ST 511	Statistical Methods for Data Analytics	3
A ST 515	Statistical Analysis with R	3
A ST 540	Predictive Analytics	3
A ST 550	Special Topics	1-4
A ST 555	Applied Multivariate Analysis	3
A ST 568	Applied Linear Models II	3
FWCE 509	Population Ecology	3
FWCE 523	Model Selection and Multimodel Inference in Ecology	2
FWCE 526	Demographic Modeling and Bayesian Inference in Modern Wildlife Management	3
FWCE 557	Ecological Biometry	3
Ecological Concepts, Organismal Biology, Ecological Techniques		
BIOL 562	Advanced Genomics Technology	3
BIOL 566	Advanced Bioinformatics and NCBI Database	3
BIOL 568	Communities and Ecosystems	3
BIOL 587	Behavioral and Evolutionary Ecology	3
BIOL 581	Physiology of Animals	3
FWCE 510	Wildlife Ecology Teaching Practicum	3
FWCE 512	Scientific Writing	3
FWCE 524	Structured Decision Making in Fish and Wildlife Management	3
FWCE 525	Evidence-Based Conservation and Management	3
FWCE 530	Large Mammal Ecology, Conservation and Management	3
FWCE 531	Mammalogy	4
FWCE 532	Environmental Biology of Fishes	4
FWCE 537	Wildlife Damage Management	3
FWCE 541	Conservation Genetics	3
FWCE 542	Wildlife Disease Ecology and Management	4
FWCE 546	Conservation Social Sciences	3
FWCE 547	Wildlife Law and Policy	3
FWCE 559	Aquatic Ecology	4
FWCE 567	Herpetology	4
FWCE 571	GIS for Natural Resource Scientists	4
FWCE 582	Ichthyology	4
GEOG 552	Landscape Ecology	0,3
GEOG 557	Biogeography	3
GEOG 573	Introduction to Remote Sensing	0,4
GEOG 578	Fundamentals of GIS	0,4
RGSC 513	Advanced Rangeland Ecology	3
RGSC 516	Arid Land Management	3
RGSC 518	Watershed Methods and Management	3
RGSC 575	Climate Studies, Water and Society	3
RGSC 585	Land Cover Analysis for Natural Resources	3
Independent Study: Eligible courses		
FWCE 535	Special Topics	1-4
FWCE 548	Graduate Problems	1-3
FWCE 699	Doctoral Research	1
Total Credits		**48-60**

The Road Map, need to be in the standard format for the catalog because this piece of the form will be imported directly onto the catalog page. See the Student Records Website for a guide. All courses and the total number of credits at the bottom of the roadmap should match the Course Requirements list.

The admission requirements are needed if the program has a specialized admission process that exceeds the campus requirements for either the Undergraduate or Graduate admission standards.
• For graduate programs, the Graduate School asks for the following information (Provide a summary of the documents and specific information each student will need to provide to be considered for the program): Description, Statement of Purpose/Letter of Interest; Specialty Letter of Interest; Resume; Writing Sample; GRE; GMAT; Special Questions (if yes, what questions need to be answered); Letters of Recommendation (how many are required); NMSU Faculty Representative (if yes, how many); Foreign Language; WES Evaluation; Special License or Verifications (what license/verification)

Admission Requirements

The NMSU graduate school requires that applicants must have:

· Cumulative GPA of 3.0 (on a 4.0 scale) or above from most recent degree

· Official transcripts for each university attended
· A letter of intent describing the applicant's goal for academic and professional development and proposed major advisor.
· Three letters of recommendation from academic or professional sources.

Does this program lead to licensure, yes or no?

No

Is credit for prior learning built into the program, if yes explain?

N/A

Faculty Members Employed to Teach in the Program

Existing Personnel

Fitsum Abadi Gebreselassie

FTE

1.0

Course load and courses they will teach in the proposed program

FWCE 509 Introduction to Population Ecology
FWCE 526 Demographic Models and Bayesian Inference in Modern Wildlife Management
FWCE 557 Ecological Biometry

Courses taught in other programs currently offered

FWCE 457 Ecological Biometry; FWCE 409 Introduction to Population Ecology

Description of academic qualifications

Ph.D. Ecology and Evolution, University of Bern, Switzerland. 2010.
M.S. Applied Statistics & Biostatistics, Hasselt University, Belgium. 2006
M.S. Statistics, Addis Ababa University, Ethiopia. 2003
B.S. Statistics, Addis Ababa University, Ethiopia. 1999

Prior instructional responsibility and other experiences relevant to assigned courses

FWCE 535 Science-Based Decision Making in Wildlife Management: A Quantitative Approach
FWCE 515 Graduate Seminar (Hierarchical Models in Ecological Research)

For graduate programs, document scholarship and research capability

I have authored 39 publications, which have garnered over 2000 citations, and my H-Index is 16. I have delivered 13 invited talks and contributed to more than 60 conference presentations. Currently, I have three manuscripts under review, 13 in preparation, resulting from my mentoring of graduate students and postdocs, as well as international collaborations. Since 2017, I have secured grants and contracts totaling $2,865,685.00.

For doctoral programs, document faculty experience in directing student research

Since 2017, I have advised four postdoctoral fellows, one Ph.D. student, and seven M.S. students. Additionally, I have served on graduate committees for four Ph.D. and 19 M.S. students.

Existing Personnel

Wiebke Boeing

FTE

1.0

Course load and courses they will teach in the proposed program

FWCE 559 Aquatic Ecology

Courses taught in other programs currently offered

FWCE 391 Internship; FWCE 393 Professional Experience and Communication; FWCE 301 Wildlife Ecology; FWCE 459/559 Aquatic Ecology

Description of academic qualifications

Ph.D. Aquatic Ecology, Louisiana State University, 2002
M.S. Hydrobiology, Technische Universität Dresden, Germany, 1996
B.S. Biology, Universität Potsdam, Germany, 1993

Prior instructional responsibility and other experiences relevant to assigned courses

Hon 1115 Journeys of Discovery
WLSC 255 Principles of Natural Resource Management
FWCE 301 Wildlife Ecology
FWCE 402 Seminar in Natural Resource Management
FWCE 448 Problems (25 different classes)
FWCE 450 Special topics (5 different topics)
HORT 450 Special Topics
FWCE 482 Ichthyology
FWCE 515 Graduate Seminar
FWCE 535 Special Topics (5 different topics)
FWCE 548 Graduate problems (13 classes)
FWCE 558, 598, 599
BIOL 600 Doctoral Research
AGRO 697 University Teaching Experience
AGRO 698 Topics in Agronomy (2 different topics)
PLEN 6996 Advanced Topics
BIOL 700 Doctoral Dissertation
AGRO 700 Doctoral Dissertation
ES 700 Doctoral Dissertation

For graduate programs, document scholarship and research capability

I have published 46 papers in peer-reviewed journals and 2 additional manuscripts are currently in print. My papers have gotten cited 2,616 times, my h-index is 26, and my i10-index is 35. I have received $2.5 million of funding that has come directly to my laboratory to support research.

For doctoral programs, document faculty experience in directing student research

I have advised two postdoctoral fellows and graduated 3 Ph.D. students and 11 M.Sc. students since 2004. Currently I am advising 7 additional MSc students as their main advisor. Additionally, I have served on graduate committees of 7 Ph.D. and 23 M.Sc. students.

Existing Personnel

Martha Desmond

FTE

1.0

Course load and courses they will teach in the proposed program

FWCE 510 Wildlife Ecology Teaching Practicum

Courses taught in other programs currently offered

FWCE 1110G Introduction to Natural Resources; FWCE 301 Wildlife Ecology; FWCE 430 Avian Field Ecology; FWCE 402, Seminar in Natural Resources

Description of academic qualifications

Ph.D. Forestry, University of Nebraska Lincoln, 1997
M.S. Wildlife Ecology, University of Nebraska-Lincoln, 1993
B.A. Environmental Science, Wells College, 1985

Prior instructional responsibility and other experiences relevant to assigned courses

FWCE 445 Systems Ecology in Wildlife Management
FWCE 545 Systems Ecology in Wildlife Management
FWCE 402 Seminar in Natural Resources Management
FWCE 515 Graduate Seminar
FWCE 450 Tropical Field Ecology
FWCE 535 Tropical Field Ecology
FWCE 536 Advanced Avian Ecology
FWCE 450 Field Course in Migration Biology
FWCE 535 Field Course in Migration Biology
FWCE 535 Passive Acoustic Monitoring for Conservation

For graduate programs, document scholarship and research capability

I have 35 publications, 2 manuscripts in review, and 5 in preparation from current students and MS students who defended in 2024, I have an H index of 20 and have brought in $14,170,076.00 in grant funding to FWCE/NMSU.

For doctoral programs, document faculty experience in directing student research

Advised four postdoctoral fellows, three Ph.D. students and 30 M.S. students since 1999. Have served on graduate committees for 10 Ph.D. and 15 M.S. students

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Existing Personnel

Jennifer Frey

FTE

1.0

Course load and courses they will teach in the proposed program

FWCE 537 Wildlife Damage Management

Courses taught in other programs currently offered

FWCE 255 Principles of Fish and Wildlife Management; FWCE 450 Management for Fish and Wildlife for Conservation Success; FWCE 437/537 Wildlife Damage Management; FWCE 472 Wildlife Museum Internship

Description of academic qualifications

Ph.D. Biology. University of New Mexico, Albuquerque, New Mexico. 1994.
M.S. Biology. Emporia State University, Emporia, Kansas. 1989.
B.S. Biology (emphasis in Zoology). Emporia State University, Emporia, Kansas. 1986

Prior instructional responsibility and other experiences relevant to assigned courses

FWCE 109 Contemporary Issues in Wildlife and Natural Resources Management
FWCE 110 Introduction to Natural Resources Management (DE version)
FWCE 450 Ecology and Management of Southwest Ecosystems
FWCE 301 Wildlife Ecology
FWCE 450/535 Museum Methods
FWCE 445/545 Systems Ecology in Wildlife Management and Laboratory
FWCE 535 Advanced Techniques for the Study of Mammalian Diversity
FWCE 450/535 Nongame Wildlife Conservation and Management
FWCE 450/535 The Natural History Museum in Modern Society
FWCE 472 Wildlife Museum Internship
BIO 1650 Wildlife Biology (ENMU)
BIO 1649 Introduction to Wildlife and Fisheries Science (ENMU)
BIO 307 Vertebrate Zoology (ENMU)
BIO 431/531 Mammalogy (ENMU)
BIO 442/542 Ornithology (ENMU)
BIO 405 Wildlife Management (ENMU)
BIO 557 Biogeography (ENMU)
BIO 513 Conservation Biology (ENMU)
BIO 582 Biological Literature (ENMU)

For graduate programs, document scholarship and research capability

I have 100 peer reviewed articles, 1 book, 2 manuscripts that are accepted pending minor revisions, 1 manuscript in review, and 3 in preparation. I have an H index of 23 and have brought in $4,830,278.00 in grant funding to FWCE/NMSU.

For doctoral programs, document faculty experience in directing student research

I have finished 17 M.S. students and currently have 1 Ph.D. student and 5 M.S. students. I have served on graduate committees for 21 M.S. students.

Existing Personnel

Obed Hernández-Gómez

FTE

1.0

Course load and courses they will teach in the proposed program

FWCE 542 Disease Ecology
FWCE 548 Graduate Problems - Methods in Molecular Ecology
FWCE 567 Herpetology

Courses taught in other programs currently offered

FWCE 2110 Principles of Fish and Wildlife Management; FWCE 467 Herpetology; FWCE 450 Disease Ecology

Description of academic qualifications

Ph.D. Purdue University, Department of Forest and Natural Resources, 2017
B.S. Texas Tech University, Department of Biological Sciences, 2010

Prior instructional responsibility and other experiences relevant to assigned courses

FWCE 548 Graduate Problems - Methods in Molecular Ecology
BIOL 1100 - Cellular and Developmental Biology (lecture)
BIOL 3200/3205 - Advanced Genetics
BIOL 2990, 4990, 4991, 4993 - Research Methodology Series I, II, III, IV
BIOL 1500 - Herpetology
BIOL 3610/3615 - General Microbiology
BIOL 4900/4905 and CHEM 4900/4905 - Computational Biology and Chemistry
ENSC 3200 - Disease Ecology

For graduate programs, document scholarship and research capability

I have published 18 papers since acquiring my Ph.D. in 2017 (n = 19 total) and currently have four papers in review and two papers in prep. More than half of my publications were achieved through the mentorship of graduate and undergraduate students. Currently I am mentoring three M.S. students, and this fall one Ph.D. student and two new M.S. students will join the cohort. My h-index currently sits at 11, and I have fundraised over $250,000 since arriving at NMSU in January 2024.

For doctoral programs, document faculty experience in directing student research

I currently serve in the Ph.D. committee of two students (Dept of Biology). Last fall, I helped three students (one M.S. and two B.S.) apply for the NSF GRFP, one student received a GRFP and two received honorable mention.

Existing Personnel

Kelly Jones

FTE

1.0

Course load and courses they will teach in the proposed program

FWCE 525 Evidence-based Conservation Management
FWCE 546 Conservation Social Sciences

Courses taught in other programs currently offered

FWCE 325 Human Dimensions of Wildlife

Description of academic qualifications

Ph.D. Forest and Wildlife Ecology, University of Wisconsin-Madison, 2011
M.A. Agricultural and Applied Economics, University of Wisconsin-Madison, 2009
B.S. Biology, Meredith College, 2000

Prior instructional responsibility and other experiences relevant to assigned courses

NR510 Ecosystem Services & Human Well-being (open to all master's and PhD students), Colorado State University
NR562 Ecosystem Services in a Changing World (open to master's students in the Conservation Leadership Program), Colorado State University
NR 581 Evidence-based Conservation (open to all master's and Ph.D. students), Colorado State University

For graduate programs, document scholarship and research capability

I have 70 publications and 5 manuscripts in review, I have an H index of 31 and have brought in $5,000,000 in grant funding.

For doctoral programs, document faculty experience in directing student research

Advised 16 graduate students, 7 Ph.D. students and 8 M.S. students since 2012. Have served on graduate committees for 10 Ph.D. and 20 M.S. students.

Existing Personnel

Zachary Klein

FTE

1.0

Course load and courses they will teach in the proposed program

FWCE 582 Ichthyology

Courses taught in other programs currently offered

FWCE 357 Fish Management and Analysis; FWCE 464 Management of Aquatic and Terrestrial Ecosystems; FWCE 482 Ichthyology

Description of academic qualifications

Ph.D. Natural Resources, University of Idaho, 2019
M.S. Natural Resources, University of Idaho, 2015
B.S. Biology, Eckerd College, 2008

Prior instructional responsibility and other experiences relevant to assigned courses

ZO 214 -215 Biology of animals and lab
ZO 472/473 & 872/873 Ichthyology and Laboratory
EB 474/475 Fisheries Management and Laboratory

For graduate programs, document scholarship and research capability

I have 26 publications and 7 publications in review (total). I have 6 publications and 6 in review from current or former MS students. I have an H index of 8 and have received a total of $1,783,788 in grants/funding for FWCE/NMSU.

For doctoral programs, document faculty experience in directing student research

I am currently advising 1 Ph.D. student, 1 post-doctoral student, and 3 M.S. students. I have advised 5 additional M.S. students since 2019. I have served on 3 additional M.S. committees since 2019.

Existing Personnel

Theresa Laverty

FTE

1.0

Course load and courses they will teach in the proposed program

FWCE 531 Mammalogy

Courses taught in other programs currently offered

FWCE 330 Natural History of Vertebrates; FWCE 355 Wildlife Techniques and Analysis FWCE 431 Mammalogy

Description of academic qualifications

Ph.D. Fish, Wildlife and Conservation Biology, Colorado State University, 2019
B.A. Ecology and Evolutionary Biology, Princeton University, 2010

Prior instructional responsibility and other experiences relevant to assigned courses

I taught an Introduction to GitHub workshop at NMSU. Additionally, I served as a teaching assistant for the following courses:
NR 300 Biological Diversity (Colorado State University)
FW 370 Design of Fish and Wildlife Projects (Colorado State University)
WILD 480 The Upshot: Applied Wildlife Management (University of Montana)
BIOO 101N Montana Wildlife (University of Montana)
EEB 380 Ecology and Conservation of African Landscapes (Princeton University)

For graduate programs, document scholarship and research capability

I have 20 publications, 3 manuscripts in press, and 3 in preparation with current students. I have an H index of 10 and have brought in ~$1,123,970 in grant funding to FWCE/NMSU.

For doctoral programs, document faculty experience in directing student research

I have advised 5 M.S. students since 2023. I have served on graduate committees for 3 Ph.D. and 3 M.S. students. I have also informally mentored 1 M.S. student (University of Namibia, Namibia) and 2 Ph.D. students (University of Antananarivo, Madagascar, and Colorado State University, U.S.A.) at other institutions.

Existing Personnel

James Cain

FTE

1.0

Course load and courses they will teach in the proposed program

FWCE 530 Large Mammal Conservation and Management
FWCE 540 Wildlife Habitat Relationships

Description of academic qualifications

Ph.D. Wildlife and Fisheries Science, University of Arizona, 2006
M.S. Biological Conservation – California State University, 2001
B.S. Biological Sciences, Colorado State University, 1997

Prior instructional responsibility and other experiences relevant to assigned courses

BSc 412 Quantitative Biology
AG/BSc 335 Wildlife Management
BSc 417 Geospatial Mapping
BSc 337 Field Methods for Wildlife and Conservation
BSc 597 Wildlife-habitat Relationships
BSc 504 Graduate Quantitative Biology

For graduate programs, document scholarship and research capability

I have 89 publications, 3 manuscripts in review, and 12 in preparation from current students and graduate students who defended in 2023-2025, I have an !10 H index of 57 (H index of 28) and have brought in $10,990,501 in grant funding to FWCE/NMSU.

For doctoral programs, document faculty experience in directing student research

Advised four postdoctoral fellows, 5 Ph.D. students and 30 M.S. students since 2009. Have served on graduate committees for 5 Ph.D. and 21 M.S. students

Existing Personnel

Abigail Lawson

FTE

1.0

Course load and courses they will teach in the proposed program

FWCE 523 Model selection and multimodel inference in ecology
FWCE 524 Structured decision making in fish and wildlife populations

Description of academic qualifications

Ph.D. Wildlife and Fisheries Biology, Clemson University, 2019
M.S. Natural Resources and Environmental Sciences, University of Nevada, 2012
B.S. Wildlife, Fish and Conservation Ecology, University of California-Davis, 2007

Prior instructional responsibility and other experiences relevant to assigned courses

ENR 1010, Introduction to Natural Resources
USFWS National Conservation Training Center, Introduction to Structured Decision Making
USFWS National Conservation Training Center, Fundamentals of Structured Decision Making

For graduate programs, document scholarship and research capability

I have 10 publications, 3 manuscripts in review, and 5 in preparation from recently completed students, postdocs, and technical assistance projects I led. I have an H index of 5 and have brought in $3,385,339.00 in grant funding to FWCE/NMSU.

For doctoral programs, document faculty experience in directing student research

Advised five postdoctoral fellows, 1 Ph.D. student, and 3 M.S. students since 2021. Served on committees of 5 M.S. students, 1 Ph.D. student, and 1 Masters of Natural Resources Management (Oregon State University)

Existing Personnel

Kasey Pregler

FTE

1.0

Course load and courses they will teach in the proposed program

FWCE 512 Scientific Writing
FWCE 541 Conservation Genetics

Description of academic qualifications

Ph.D. Fish, Wildlife and Conservation Biology, Colorado State University, 2019
M.S. Ecology and Evolutionary Biology, University of Connecticut, 2014
B.S. Ecology and Evolutionary Biology, University of Connecticut, 2011

Prior instructional responsibility and other experiences relevant to assigned courses

FWCE 535 Conservation Genetics

For graduate programs, document scholarship and research capability

I have 19 publications, and 3 in preparation and have brought in $1,052,971 in grant funding to FWCE/NMSU.

For doctoral programs, document faculty experience in directing student research

Advised 1 Ph.D. student, 1 M.S. student, 3 postdoctoral researchers since 2023. Have served on graduate committees for 2 Ph.D. and 2 M.S. students.

Existing Personnel

Brian Millsap

FTE

0.75

Course load and courses they will teach in the proposed program

FWCE 526 Demographic Models and Bayesian Inference in Modern Wildlife Management
FWCE 547 Wildlife Law and Policy

Courses taught in other programs currently offered

FWCE 447/547 Wildlife Law and Policy; FWCE 535 Science-Based Decision Making in Wildlife Management: A Quantitative Approach

Description of academic qualifications

Ph.D. Biology, New Mexico State University 2018
M.S. Biology, George Mason University, 1986
B.S. Wildlife Biology, Colorado State University, 1978

For graduate programs, document scholarship and research capability

75 publications, h-index of 31, i10-index of 57 and 40,87 citations.

For doctoral programs, document faculty experience in directing student research

Co-advisor for one M.S. student at New Mexico State University, Ph.D. committee member for two students, and M.S. committee for one student.

Documentation of department faculty support

FWCEFacultyletter.pdf

Curriculum Committee Approval

GraduateCurriculumltr.pdf

Gray Associates Data
030601GRAYDIReport.pdf

NM Higher Education Department

Describe your institution's plan for periodic evaluation of program effectiveness. Include criteria that will be used to determine effectiveness.

The effectiveness of our Ph.D. program will be determined by student enrollment, retention, time-to-degree completion, placement of students following degree completion, and through student learning outcomes assessment results. Evaluation will be initiated five years following program inception and every three years following this. Data will be accumulated and analyzed every three years.

The proposed program must meet one or more specified needs within the state or region. Clear and convincing evidence must be provided of the reality and extent of such need.

A Ph.D. program in Wildlife and Fisheries Ecology at New Mexico State University (NMSU) directly addresses the ecological and economic needs of New Mexico and the broader Southwest by producing skilled scientists equipped to manage and conserve the region's unique and fragile ecosystems. The Southwest is characterized by arid landscapes, diverse wildlife, and increasingly stressed natural resources due to drought, heatwaves, catastrophic megafires and population growth. Our doctoral program prepares graduates to conduct research and develop science-based strategies to sustain biodiversity, manage and sustain populations of huntable species and species at risk, manage water-limited aquatic habitats, and restore degraded ecosystems, all of which are critical to maintaining the region's ecological integrity and resilience.

Nature-based outdoor recreation—such as hunting, fishing, bird watching, and hiking—plays a significant role in New Mexico's economy, generating hundreds of millions of dollars annually and supporting local communities, particularly in rural areas (Headwaters Economics 2020). Recognizing the value of natural resources, the New Mexico Economic Development Department (NMEDD) has identified outdoor recreation and sustainable and green energy as two of nine targeted industries to diversify and grow the state's economy (NMEDD, New Mexico's Economic Path Forward 2021, 2023, and 2025). The long-term success of both industries is closely tied to the health of ecosystems and wildlife habitats, which are affected by land use, changes in weather patterns, and energy development. Integrating wildlife ecology into green energy planning helps avoid or mitigate ecological impacts from renewable energy infrastructure, ensuring that development is both sustainable and environmentally responsible. New Mexico State University's Ph.D. program in wildlife and fisheries ecology supports advanced research that informs conservation, habitat management, and policy decisions by state and federal agencies, tribal nations, non-profit organizations and industry. This research is essential not only for sustaining outdoor recreation, but also for guiding green energy expansion in ways that protect biodiversity and ecosystem services critical to New Mexico's environmental and economic future (see letters of support across state and federal agencies, tribal nations, non-profit organizations, and industry).

Moreover, the program supports the long-term goal of preserving healthy ecosystems, which provide essential services such as water filtration, carbon storage, and erosion control—services that are especially crucial in the arid Southwest. By training future ecologists, land managers, and policy advisors, NMSU contributes to a knowledgeable workforce capable of addressing pressing environmental issues through interdisciplinary and collaborative approaches. This academic foundation not only supports the preservation of our natural heritage but also enhances the quality of life for all New Mexicans through the sustained availability of clean water, open spaces, and recreational opportunities.

EDD (Economic Development Department. 2021. Empower and collaborate, New Mexico's economic path forward. https://edd.newmexico.gov/publications-reports/
EDD (Economic Development Department. 2023. 2023 Empower and collaborate, New Mexico's economic path forward. https://edd.newmexico.gov/wp-content/uploads/2024/02/23_NMEDD_NewMexicoPathForward.pdf
EDD (Economic Development Department. 2025. 2025 State plan update, empower and collaborate: New Mexico's economic path forward. https://edd.newmexico.gov/pubs/2025-state-plan-update/
Headwaters Economics. 2020. Outdoor recreation and New Mexico's economy. New Mexico Outdoor Recreation Division. Economic Development Department.

If the program fills a regional workforce need, describe collaboration between your institution and regional employers in the program development.

This Ph.D. program will help meet workforce needs across various sectors, including state and tribal wildlife agencies, New Mexico Environment Department, federal land and resource management entities, non-governmental organizations and industry, including private environmental consulting firms (see letters of support from all of these sectors). For example, state agencies such as the New Mexico Department of Game and Fish often face staffing gaps in research and policy development, particularly in areas involving game species management, disease monitoring, and threatened species conservation. The New Mexico Environment Department (NMED) has critical needs in areas such as water quality monitoring, aquatic ecosystem health, and contaminant impact assessments—areas where Ph.D.-trained researchers in wildlife and fisheries ecology can provide essential expertise, innovative research, and data-driven solutions to support regulatory enforcement and environmental protection across the state. Federal agencies—including the U.S. Fish and Wildlife Service, Bureau of Land Management, U.S. Forest Service, and National Park Service—are responsible for managing vast landscapes across the Southwest. These agencies will benefit from partnerships with doctoral researchers who can support long-term ecological monitoring, policy implementation, and environmental compliance efforts.

Private environmental consulting firms and non-governmental organizations also have a growing need for highly skilled ecologists who can lead complex field studies, conduct environmental impact assessments, and develop mitigation strategies to comply with state and federal regulations. These companies and organizations range from large to small but collectively provide a substantial number of jobs for Ph.D. level scientists. A Ph.D. program tailored to the Southwest will equip graduates with the interdisciplinary skills needed to thrive in these roles, while also fostering innovation and applied research directly relevant to the region. In addition, the program can play an important role in supporting rural and tribal communities by training a new generation of scientists who are committed to culturally responsive and community-centered conservation practices.

By fostering collaborations with regional agencies, tribal nations, NGOs, academic institutions, and industry, this doctoral program will serve as a hub for ecological research and workforce development. It will strengthen the capacity of state, federal, and tribal entities to make informed, science-based decisions while enhancing the conservation and sustainable use of natural resources in the region. Ultimately, a Ph.D. program in Wildlife and Fisheries Ecology will help ensure that the Southwest has the scientific leadership and technical expertise necessary to meet current and future environmental challenges.

Identify where similar degree programs are offered by other public higher education institutions in New Mexico.

There are no similar degree programs in New Mexico.

If similar programs are offered at other public higher education institutions in New Mexico, provide a rationale for offering an additional program.

N/A

Enrollment and Graduation Projections

Student Type	Year 1	Year 2	Year 3	Year 4	Year 5
New Students	2	2	2	2	2
Continuing Students	0	4	6	8	8
Graduates	0	0	0	2	2

Annual Retention Rate Target (%)

100%

Target 100% Graduation Rate (%)

100%

Target Job Placement Rate (%)

100%

Describe the faculty resources that are needed to initiate the program. Will any additional faculty be needed?

FWCE consists of 8 regular faculty, 2 senior research scientists and 3 U.S.G.S. Cooperative Research Unit Scientists. We will not require additional faculty resources. The faculty needed are currently onboard to support the program. Most of our proposed curriculum is based on existing courses from the MS program and existing courses in other units. Research and dissertation courses will be handled by student advisors. A redistribution of workload will allow remaining Ph.D.-level courses to be taught by available faculty. The faculty identified above will provide guidance and pursue funding to support doctoral students in the program. The faculty in the department are established investigators with a track record of securing extramural funding. Currently, faculty in the department have > $20 million in active grants and contracts (on average, almost $2 million per faculty member) with $6,986,147 awarded in 2024 alone.

Grant funding for FWCE comes from a combination of competitive grants, federal, state, industry, and NGOs. A partial list of major funding sources includes:
National Science Foundation (NSF)
United States Department of Agriculture, National Institute of Food and Agriculture (USDA NIFA)
Department of Defense (White Sands Missile Range: WSMR)
New Mexico Department of Game and Fish (NMDGF)
Arizona Game and Fish Department (AZGFD)
United States Geological Survey (USGS)
United States Fish and Wildlife Service (USFWS)
United States Bureau of Land Management (BLM)
United States Bureau of Reclamation (BOR)
United States National Park Service (NPS)
United State Forest Service (USFS)
Jicarilla Apache Nation
Pattern Energy
NMSU - Agricultural Experiment Station (AES)
NMSU- Center for Excellence in Sustainable Food and Agricultural Systems (CESFAS)

Descibe the library and other academic support resources that are needed to initiate the program. What, if any, additional resources will be needed?

The NMSU library systems provides sufficient support for this program. The library provides access to the Digital Library which supports many journals across disciplines in the Department of Fish, Wildlife and Conservation Ecology (FWCE) and also has a very efficient interlibrary loan program. Our library system has many new user friendly upgrades and provides support for faculty, staff and students. The library worked with FWCE to prepare a report that assesses the library's ability to support our proposed PhD program (see attached Library Report in supporting documentation). This report documents the multiple resources available at the library to support our faculty, staff and students. FWCE will continue to work with the library to identify essential resources needed to support our doctoral program as we progress.

Describe the physical facilities of the institution that will be used for the first five years of the program. Will additional space or modifications of existing space be required within the first five years of program operation.

The facilities available to the department are adequate to support the proposed Ph.D. program. No additional facilities are needed for this program. Our facilities offer training for students at the graduate and undergraduate levels for careers in fish, wildlife and conservation ecology and related fields. The following is a specific breakdown of FWCE facilities: a wildlife museum and adjacent prep room (Knox Hall 134), one teaching laboratory (Knox 143), a shared aquatic research space (Knox 144) and adjacent prep rooms, multiple classrooms for lecture (Knox Hall, Skeen Hall, Gerald Thomas Hall, Hardman Jacobs Learning Center, etc.), additional individual faculty research laboratory space (Knox Hall 101, 102, 122,135, 136, 137, 138, 139, 145, GTH 250 & 265C) and office space for graduate students, postdoctoral fellows, senior scientists and FWCE faculty. FWCE has or has access to research labs for various ecological sampling including a soils laboratory, water testing laboratory, plant herbarium, natural history collections spread across four departments, a stable isotope facility, a biomedical research facility (with space for housing research organisms), a core university research resources laboratory, several molecular labs (including a DNA sequencer), several GIS labs, aquatic and terrestrial ecology labs, plant labs, etc. Faculty in FWCE also have access and use facilities at the 12 NMSU agricultural experiment station science centers across the state, including the following sites regularly used by FWCE personnel: Fabian Garcia Science Center, Leyendecker Plant Science Center, Corona Range and Livestock Research Center, and the Chihuahuan Desert Rangeland Research Center as well as the 78,000 hectare Jornada Experimental Range, a research station managed by the USDA Agricultural Research Service. This is an NSF funded Long-Term Ecological Research site of which one of our current faculty members (Laverty) is a co-Principal Investigator.

Describe the institution's equipment and technological resources needed for the first five years of the program? What, if any, additional equipment will be needed?

Our proposed program has no immediate needs for additional equipment. Existing equipment available for the program includes teaching, dissecting and compound microscopes, fume hoods, centrifuges, bio-safety cabinets, autoclaves, FlowCAM, environmental chambers, real-time water analysis probes, etc. Our faculty, staff and students with large datasets have access to NMSU supercomputing facilities. The Wildlife Museum has an extensive wildlife teaching collection (hundreds of specimens). FWCE has three -80 freezers and multiple regular freezers and refrigerators. We have a drying oven, field supplies and equipment, access to greenhouse facilities, storage space for equipment, etc.

Other resources: Core University Research Resources Laboratory on the main campus of NMSU in Las Cruces is an evolving core facility equipped with a modern transmission and scanning electron microscopes that are accessible as research and training resources. The research staff of the laboratory provides technical expertise, advice, guidance, and training for the preparation, imaging, and analysis of natural and engineered materials to resolve biological, chemical, and physical properties through experimental methods.

NMSU Biomedical Research Facility is a new facility on campus. FWCE has access to laboratory space and space for housing research organisms. FWCE also has access to major equipment in the biomedical building and training to use this equipment. Equipment includes: Leica CM 3050s cryostat, Sonny MA900 cytometrycell sorter, Laxco cellect laser capture microdissection system, Minitube Androvision microscope, Odyssey M 3050 imaging system, Thermofisher King Fisher Flex, Agilent Tapestation 4150, Echo MRI QNMR, Biorad CFX Opus 96 qPCR machine, Biorad Gel doc Imager and Biorad C1000 PCR thermocycler.

No additional equipment or technological resources are needed.

Describe any other operating resources needed to initiate the program.

None

Are there existing external facilities that will be used? Have agreements been established to ensure use of the those facilitates?

None

Provide a clear analysis of the projected cost of the proposed program and the sources of funding that will support it for the first five years that the program will be offered. Include a discussion how any of the needed resources discussed in your attachment. This should be completed in collaboration with your institution's financial office.

FWCE PhD program Budget.xlsx

Letters of Support

SupportingDocuments.pdf

Accreditation

Is the program seeking specialized accreditation?

No

Is specialized accreditation required for licensure or practice in the program?

No

Has the program already obtained the appropriate specialized accreditation? If so, attach a copy of the letter from the agency granting accreditation?

No

If the program has not yet obtained accreditation but has begun the process of seeking or plans to seek specialized accreditation, specify the name of the agency and provide the time-line for completing the process.

N/A

If the program does not plan to seek specialized accreditation, provide a rational for not-seeking accreditation here. (if there is not a specialized accrediting organization for this program, indicate so as your rationale).

There is no accrediting organization for this program.

If the program includes any of the following, explain how it will ensure that student work and levels of knowledge competencies achieved will be comparable to those achieved through traditional formats: (Award credit for prior learning; use of compressed time frames; use of on-line deliver; inclusion of accelerated formats; or other approaches to learning.)

Students may transfer up to 30 credits from their M.S. program into the Ph.D. program, as approved by their major advisor. We have two classes in an on-line content delivery format (FWCE 525 and 546). These classes are taught by a regular faculty (Dr. Kelly Jones) stationed at a remote location. The class has been previously taught and has received strong reviews by students.

Will the program be part of a contractual or consortial arrangement (yes/no, explain)?

No

If the program is planning any involvement by external organizations (other than from accredited higher education institutions) in the key operations as identified below, provide the information as requested.

Type of Involvement	Name of External Organization	Percent of Involvement
Course placement and advising of students	NA	0

Briefly describe the planning process for determining the need for this new program, including the role of faculty in the planning and approval process.

A committee was formed and met regularly. They provided updates and sought input at monthly faculty meetings. The need for a Ph.D. program in our department has long been recognized. In fact, many faculty in FWCE already mentor Ph.D. students through other departments, currently departmental faculty mentor 9 Ph.D. students. FWCE hosts one of 43 U.S.G.S. Cooperative Research Units(CRU) embedded within fish and wildlife departments across the country. However, our department is the only department hosting a U.S.G.S. CRU that does not have a Ph.D. program. Our most recent external review (spring 2017) included a recommendation from that review team that the department should have a Ph.D. program. All faculty agreed to this need (see letter of support) and have been active in the planning process.

Describe the process for assessing and improving student learning in the proposed program.

Program effectiveness will be determined based on recruitment, retention, time-to-degree completion, placement of students following degree completion, research products, documented impact of the research, and completion of student learning outcomes assessments. Evaluation will take place 5 years after the program inception and then every three years afterward. Data will be accumulated on a running 3-year basis.

Describe the process for assessing and improving student persistence and completion, in the new program.

Retention will be tracked annually. All students in the program will be provided with advising and mentoring on a regular basis by their committee chair. This regular communication will ensure a clear path to completion including coursework and research.

If any of the institution's accreditation relationship (including other regional, specialized, or national accrediting agencies) are currently under or recommended for a negative status or action (e.g., withdrawal, probation, sanction, warning, show-cause, etc.)

N/A

If the institution is undergoing or facing substantial monitoring, special review or financial restrictions from the U.S. Department of Education or other federal or state government agencies.

N/A

If the institution's senior leadership or board membership has experienced substantial resignations or removals in the past year.

Our college leadership has been stable, including the Dean, Associate Dean and Director of Cooperative Extension, and Associate Dean and Director of the Agricultural Experiment Station. We have a new Associate Dean and Director of Academic Programs starting in the summer of 2025. NMSU currently has an interim Provost and has new President (started in fall 2024).

If the institution is experiencing financial difficulty through conditions, such as, a currently declared state of exigency, a deficit of 10% or more, a default or failure to make payroll during the past year, or consecutive deficits in the two most recent years.

N/A

Institution Specific Information Area

Primary target audience for the program (e.g., full#time, part#time, traditional college age, working adults, transfer students, military personnel, or particular ethnic group)

Our doctoral program in Wildlife and Fisheries Ecology is designed for students who have recently completed a Bachelor's or Master's degree in Wildlife Ecology, Zoology, Biology, or a related field. We also actively encourage applications from non-traditional students who are currently employed in these areas and are seeking to advance their careers through doctoral-level training and research.

To broaden access and support student advancement, we have established a pipeline to our program through partnerships with New Mexico institutions that offer terminal Master's degrees in related disciplines, including New Mexico Highlands University, Western New Mexico University, and Eastern New Mexico University (see letters of support). In addition, we are building and strengthening collaborations with Tribal Nations to support and enhance natural resource programs within their communities, promoting inclusive and culturally informed approaches to wildlife and fisheries management (see letters of support).

How does the proposed program align with the department, college and university mission?

The proposed PhD program will support the strategic goals outlined in NMSU LEADS 2025.

GOAL 1: Enhance student success and social mobility
Objective 1.1- Diversify, optimize, and increase system-wide enrollment by differentiating and targeting recruitment, marketing and pricing strategies. Our proposed Ph.D. program will be accessible to diverse audiences, including underserved populations in New Mexico. We will develop an effective pipeline for students to our Ph.D. program by 1) recruiting our own best students, 2) partnering with institutions across New Mexico with wildlife related programs at the bachelor and master's level to develop pathways for students to transition to our program, and 3) attending and recruiting at regional (New Mexico-Arizona Joint Meetings of the Wildlife and American Fisheries Societies) and high-profile conferences such as The Society for Advancement of Chicanos and Native Americans in Science (SACNAS). Our department has a long and successful history of receiving competitive funding to support students from diverse backgrounds to enter our graduate programs.

GOAL 2: Elevate research & creativity
Objective 2.3- Amplify impact of research findings by addressing local needs that align with global challenges. This proposed program will develop research programs in sustainable management of natural resources (NMSU Leads 2.3.1). The proposed Ph.D. program will develop a research program in Wildlife and Fisheries Ecology that will foster expertise in understanding and managing New Mexico's many environmental and anthropogenic stressors on our native fish and wildlife populations and their habitats. This includes wildfire, drought, flooding and zoonotic diseases as well as the sustainable deployment of clean energy resources across landscapes in New Mexico and regionally. Natural resources are an important driver of the state, regional and international economies of this region highlighting the critical importance of research focused on these valuable resources.

The proposed program will promote student and faculty connections with universities across the US/Mexico border (NMSU Leads 2.3.3) including Universidad Autónoma de Chihuahua, Universidad Autónoma de Sonora, and Universidad Ciudad Juárez . At NMSU we are uniquely situated to develop partnerships across the U.S.–Mexico border to recruit regional domestic and international students and create a pipeline for faculty at Mexican institutions, many of whom have a M.Sc. as their highest degree, to pursue a Ph.D. These collaborations will result in joint research proposals and co-authored publications.

Our Ph.D. program will support interdisciplinary teams (NMSU LEADS 2.3.5) to increase competitiveness and grant attainment. Ph.D. students are encouraged to have a minimum of one committee member from an outside institution or federal/state agency involved in the research. Many of our research programs involve outside institutions both nationally and internationally. Our faculty and students regularly work across disciplines including ACES, Arts and Sciences, Engineering and Health, Education and Social Transformation.

Objective 2.4- Amplify impact of research on society and the economy and promote international collaboration by accelerating technology and knowledge transfer. NMSU Faculty in Fish, Wildlife and Conservation Ecology have active collaborations in Mexico, South Africa, Madagascar, Namibia, Ethiopia, United Kingdom, China, Nigeria, Costa Rica, and Belize. Research is related to human dimensions and sustainable wildlife populations, ecosystem services, disease ecology and transmission, wildlife poaching among other topics. (Leads 2.4.3). Our faculty will continue collaborations with national and international institutions to develop large research and training grants.

Additionally, the proposed Ph.D. program in Wildlife and Fisheries ecology directly supports Environmental Stewardship and Water Use and Conservation, two of the four Pillars of ACES.

Goal 4. Build a robust university system
A Ph.D. program in Wildlife and Fisheries Ecology will add to NMSU's reputation as "a high performing, diverse, minority-serving, land grant institution". This new program will lead to increased grants and contracts and will elevate the quality of research and academic products from the Department of Fish, Wildlife and Conservation Ecology.

Discuss how admissions criteria and strategies will recruit a diverse student body?

The proposed admissions criteria align with the qualifications necessary for successful completion of the doctoral program. Prospective students are encouraged to connect with a potential advisor prior to applying. The Department of Fish, Wildlife and Conservation Ecology (FWCE) has a strong track record of recruiting and retaining a diverse student body in our M.S. program, and we are committed to continuing this success at the Ph.D. level. Our recruitment strategy includes: (1) encouraging top-performing students from our own programs to apply; (2) partnering with New Mexico institutions to establish clear pathways for students transitioning into our doctoral program (see letters from NMHU, WNMU, and ENMU); (3) collaborating with New Mexico tribes, pueblos, and Indian Nations (see letters of collaboration); (4) attending and recruiting at prominent conferences such as the Society for Advancement of Chicanos and Native Americans in Science (SACNAS) and the Native American Fish and Wildlife Society; and (5) leveraging our professional networks to identify and support prospective applicants.

What controls are in place to ensure that the information presented to all constituencies in advertising, brochures, and other communications will be accurate?

The program leadership will work with the College of ACES to ensure compliance with NMSU's / ACES branding standards and AD compliance, and all communications will be approved by the Dean's office. NMSU office of Marketing and Communications and the ACES Department of Innovative Media will be consulted on brand application guidelines and standards.

Student Records Office Uploads

HLC wants CIP Code information that is currently being offered at both the institutional and degree level for 4-digit and 2-digit CIP codes for all new programs. This information will be provided by the University Student Records office and added to the form during the HED submissions workflow step.

Key: 1075

NM STATE UNIVERSITY

College of Agricultural, Consumer and Environmental Sciences
Department of Fish, Wildlife and Conservation Ecology
MSC 4901, New Mexico State University
P.O. Box 30003, Las Cruces, NM 88003-8003

Donald E. Conner
Associate Dean and Director of Academic Programs
New Mexico State University
College of Agricultural, Consumer and Environmental Sciences
Las Cruces, NM 88003-8003

2 May 2025

Dear Dr. Conner:

On 2 May 2025 the faculty in the Department of Fish, Wildlife and Conservation Ecology at New Mexico State University voted unanimously to support the establishment of a PhD program in Fish and Wildlife Ecology. Faculty in FWCE are already mentoring PhD students through other academic programs and look forward to the ability to mentor our students in our home department. Our students are funded through competitive grants, state and federal agencies, non-governmental organizations, and private donations, and generally pursue careers in academia, state and federal agencies, national labs, non-governmental organizations and consulting firms. With just one other PhD program in Fish and Wildlife Ecology in the southwest, this program will benefit New Mexico, the southwest and the nation. We are excited to collaborate with our state and federal partners and institutions across New Mexico with similar degrees at the bachelor and master's level. Thank you for your support with the development of this program.

Sincerely,

Martha Desmond
Department Head & Regents Professor

Wiebke Boeing
Professor & Herb C. Ward Endowed Chair

James Cain
Unit Leader, U.S.G.S. NM Cooperative
Fish & Wildlife Research Unit

Jennifer Frey
Professor

NM STATE UNIVERSITY

College of Agricultural, Consumer and Environmental Sciences
Department of Fish, Wildlife and Conservation Ecology
MSC 4901, New Mexico State University
P.O. Box 30003, Las Cruces, NM 88003-8003

Fitsum Gebreselassie
Associate Professor

Jay Gedir
Senior Research Scientist

Obed Hernández-Gómez
Assistant Professor

Kelly Jones
Associate Professor

Zach Klein
Assistant Professor

Theresa Laverty
Assistant Professor

Abby Lawson
U.S.G.S. Assistant Cooperative
Fish and Wildlife Research Unit

Brian Millsap
Senior Research Scientist

Kasey Pregler
U.S.G.S. Assistant Cooperative
Fish and Wildlife Research Unit

NM STATE UNIVERSITY

College of Agricultural, Consumer and Environmental Sciences
Department of Fish, Wildlife and Conservation Ecology
MSC 4901, New Mexico State University
P.O. Box 30003, Las Cruces, NM 88003-8003

16 June 2025

Graduate Curriculum Committee
Department of Fish, Wildlife and Conservation Ecology
New Mexico State University
College of Agricultural, Consumer and Environmental Sciences
Las Cruces, NM 88003-0003

Dear Drs Desmond and Conner,
This letter documents the enthusiastic and unanimous support of the Fish, Wildlife and Conservation Ecology Graduate Curriculum Committee for establishing a doctoral program in Wildlife and Fisheries Ecology within the Department of Fish, Wildlife and Conservation Ecology at New Mexico State University. We have worked collaboratively with the entire faculty on the development of this program and are excited to see it come to fruition.

Sincerely,

James Cain
Digitally signed by James Cain
Date: 2025.06.16 13:17:40 -06'00'

James Cain
Chair of the FWCE Graduate Curriculum Committee
Unit Leader, U.S.G.S. NM Cooperative Fish and Wildlife Research Unit & Department of Fish, Wildlife and Conservation Ecology

Kelly Jones
Digitally signed by Kelly Jones
Date: 2025.06.17 06:21:13 +10'00'

Kelly Jones
Committee member, FWCE Graduate Curriculum Committee
Associate Professor, Fish Wildlife and Conservation Ecology

Abigail Lawson
Digitally signed by Abigail Lawson
Date: 2025.06.16 13:25:52 -06'00'

Abby Lawson
Committee member, FWCE Graduate Curriculum Committee
Assistant Unit Leader, U.S.G.S. NM Cooperative Fish and Wildlife Research Unit & Department of Fish, Wildlife and Conservation Ecology

03.0601 Wildlife and Wildlands Science and Management

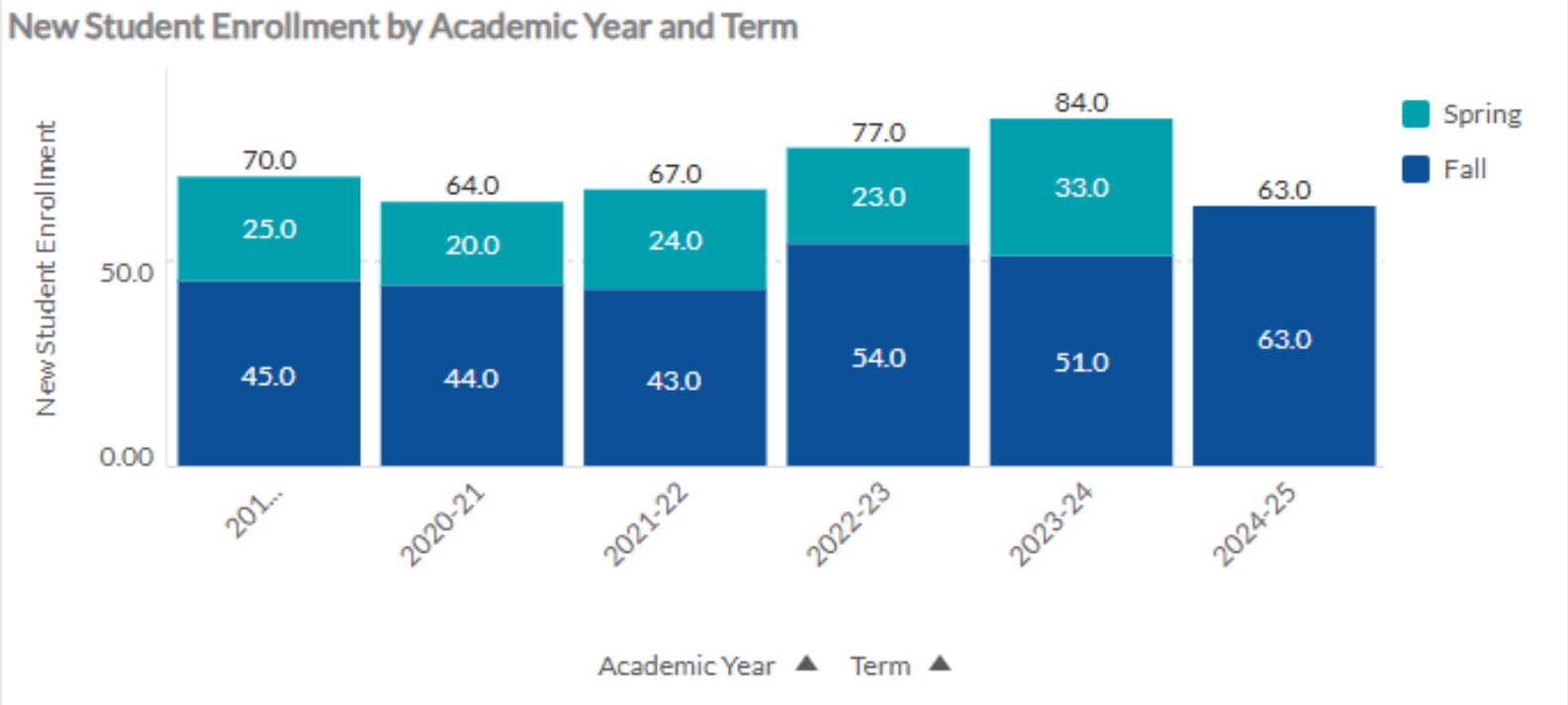


PES Markets Program Summary Report

- New Student and Overall Enrollment Trends
- National Completions Trend
- Institutions with Completions
- National Market Scorecard
- WICHE Scorecard
- WICHE Completions
- Take Aways

03.0601 Wildlife and Wildlands Science and Management

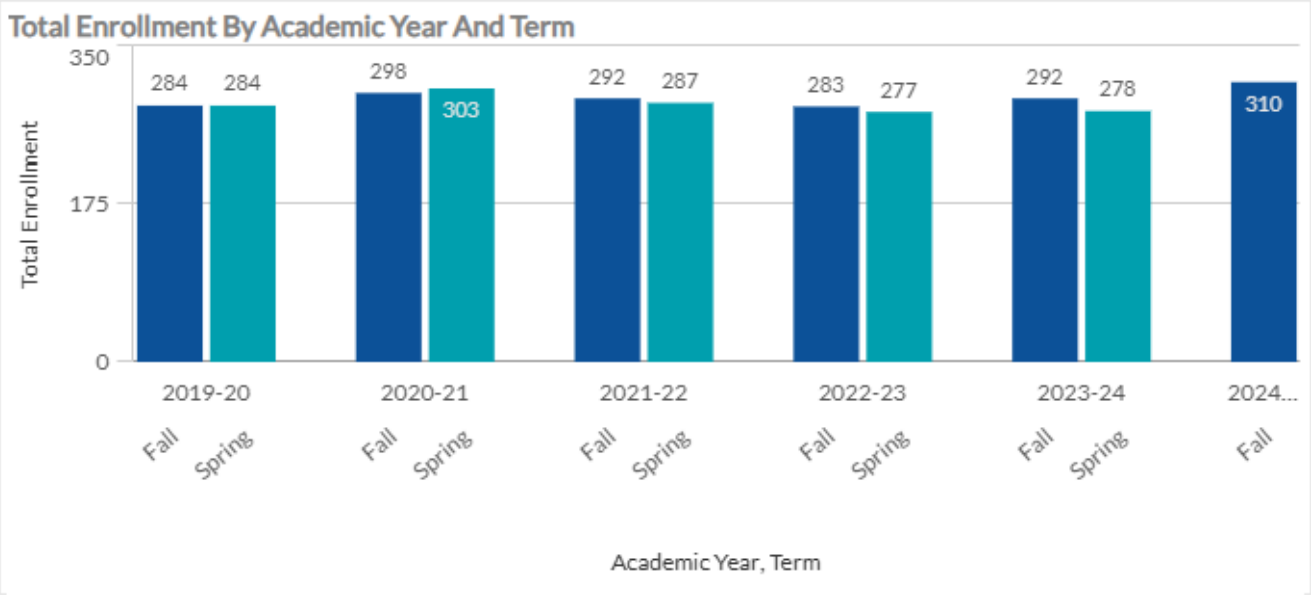
National
New Student
Enrollment Trends

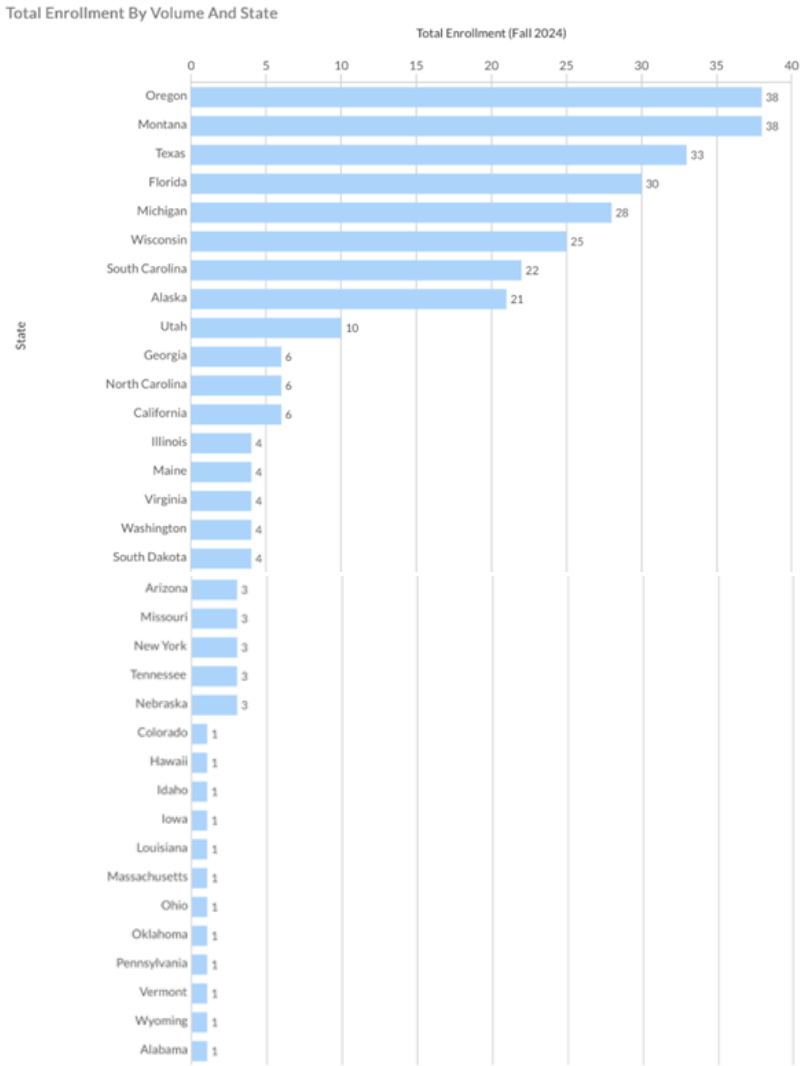


There was a significant 23.5% increase in Fall 24 enrollment and overall enrollment has been trending upward.

03.0601 Wildlife and Wildlands Science and Management

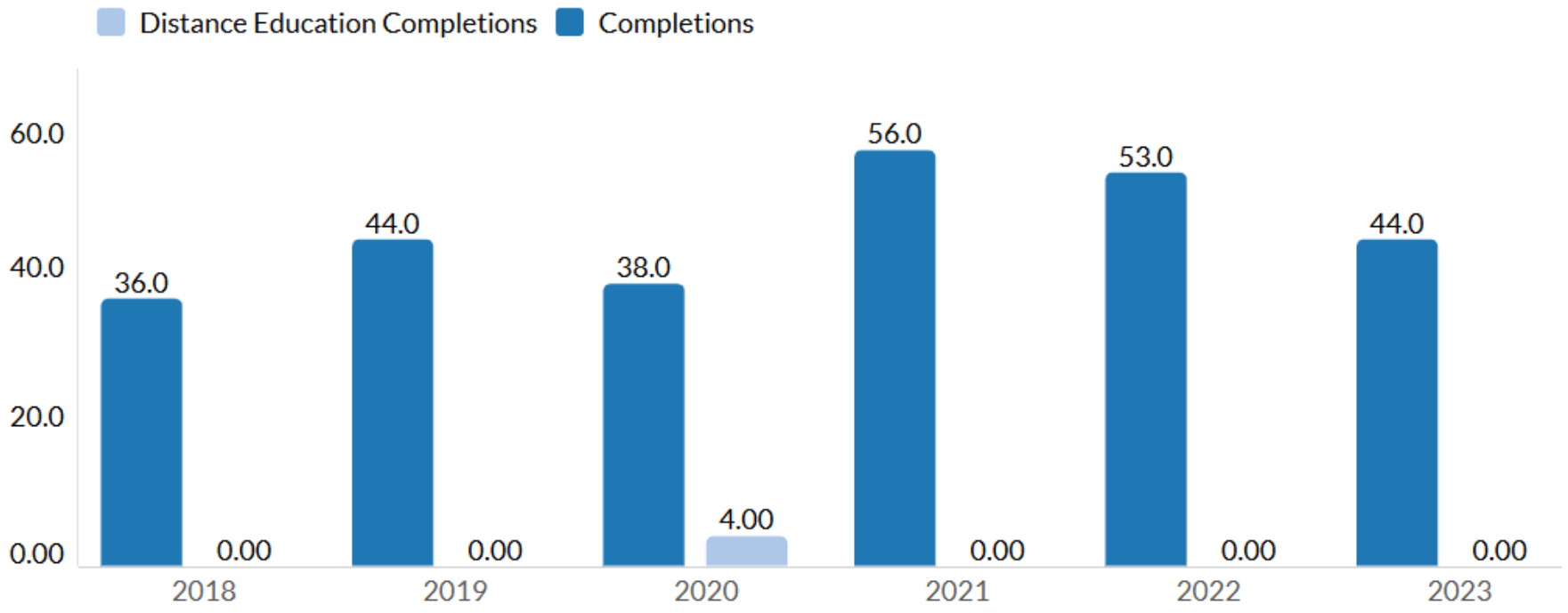
National Enrollment Trends





03.0601 Wildlife and Wildlands Science and Management

National Completions



03.0601 Wildlife and Wildlands Science and Management

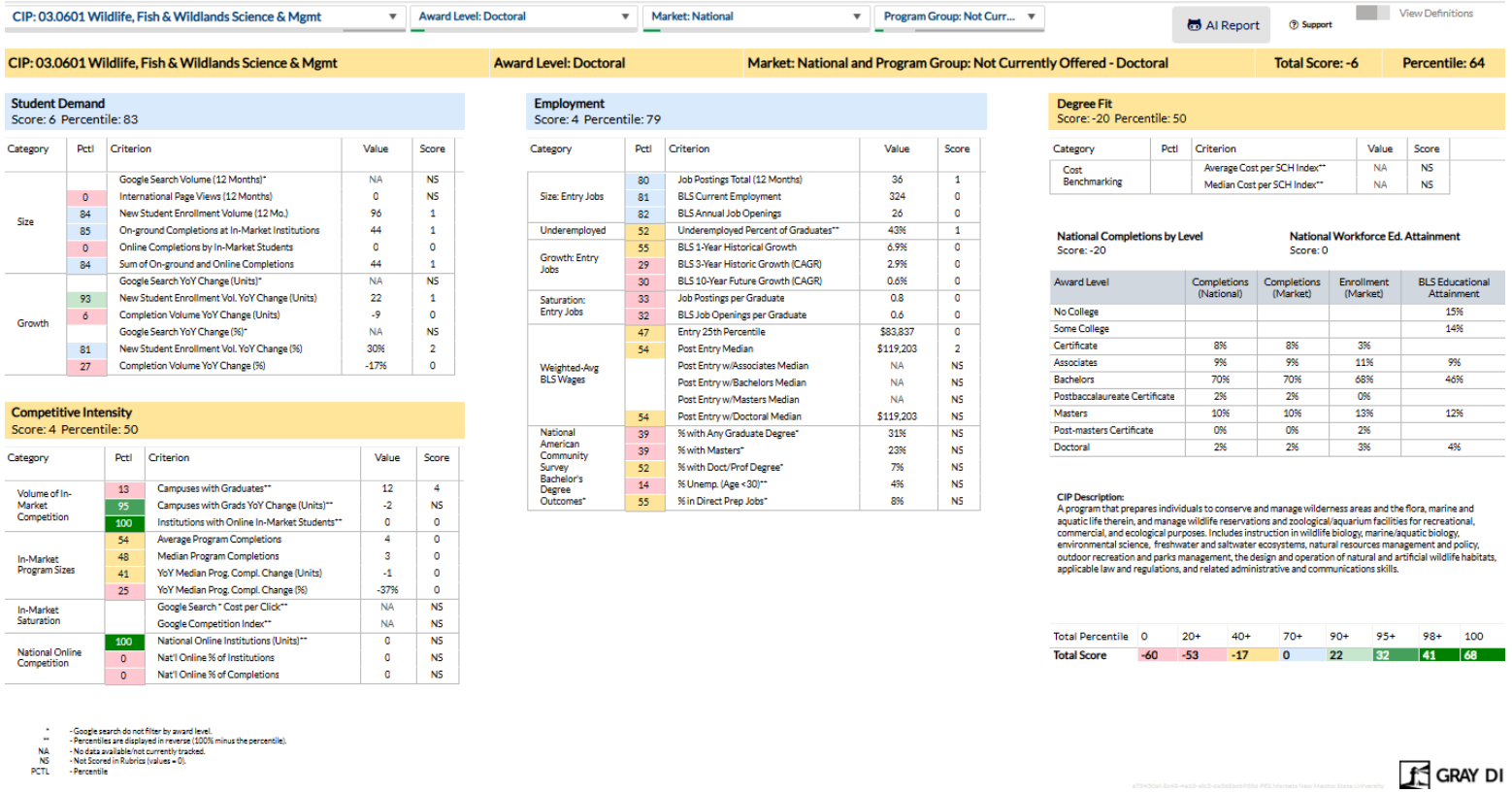
National Degree Completions

Institution	2020 Sum of On-Ground and Online Completions	2021 Sum of On-Ground and Online Completions	2022 Sum of On-Ground and Online Completions	2023 Sum of On-Ground and Online Completions
Brigham Young University	3	1	4	2
Clemson University	1	1	2	6
Iowa State University	1	0	1	2
Michigan State University	6	14	10	6
Montana University System	5	9	6	6
Oregon State University	7	3	4	3
South Dakota Board of Regents	4	2	1	2
State University System of Florida	2	8	4	7
Texas A&M University System	3	2	5	3
Texas Tech University System	1	4	5	1
University of Alaska System of Higher Education	0	6	4	4
University of California	1	0	0	0
University of Maine System	0	1	4	0
University of Wisconsin System	4	5	3	2

12 institutions had completions in 2023.

03.0601 Wildlife and Wildlands Science and Management

National Market Scorecard



CIP: 03.0601 Wildlife, Fish & Wildlands Science & Mgmt | Award Level: Doctoral | Market: National | Program Group: Not Curr... | AI Report | Support | View Definitions

CIP: 03.0601 Wildlife, Fish & Wildlands Science & Mgmt | **Award Level: Doctoral** | **Market: National and Program Group: Not Currently Offered - Doctoral** | **Total Score: -6** | **Percentile: 64**

Student Demand
Score: 6 Percentile: 83

Category	Pctl	Criterion	Value	Score
Size		Google Search Volume (12 Months)*	NA	NS
	0	International Page Views (12 Months)	0	NS
	84	New Student Enrollment Volume (12 Mo.)	96	1
	85	On-ground Completions at In-Market Institutions	44	1
	0	Online Completions by In-Market Students	0	0
	84	Sum of On-ground and Online Completions	44	1
Growth		Google Search YoY Change (Units)*	NA	NS
	93	New Student Enrollment Vol. YoY Change (Units)	22	1
	6	Completion Volume YoY Change (Units)	-9	0
		Google Search YoY Change (%)*	NA	NS
	81	New Student Enrollment Vol. YoY Change (%)	30%	2
	27	Completion Volume YoY Change (%)	-17%	0

Competitive Intensity
Score: 4 Percentile: 50

Category	Pctl	Criterion	Value	Score
Volume of In-Market Competition	13	Campuses with Graduates**	12	4
	95	Campuses with Grads YoY Change (Units)**	-2	NS
	100	Institutions with Online In-Market Students**	0	0
In-Market Program Sizes	54	Average Program Completions	4	0
	48	Median Program Completions	3	0
	41	YoY Median Prog. Compl. Change (Units)	-1	0
	25	YoY Median Prog. Compl. Change (%)	-37%	0
In-Market Saturation		Google Search * Cost per Click**	NA	NS
		Google Competition Index**	NA	NS
National Online Competition	100	National Online Institutions (Units)**	0	NS
	0	Nat'l Online % of Institutions	0	NS
	0	Nat'l Online % of Completions	0	NS

Employment
Score: 4 Percentile: 79

Category	Pctl	Criterion	Value	Score
Size: Entry Jobs	80	Job Postings Total (12 Months)	36	1
	81	BLS Current Employment	324	0
	82	BLS Annual Job Openings	26	0
Underemployed	52	Underemployed Percent of Graduates**	43%	1
Growth: Entry Jobs	55	BLS 1-Year Historical Growth	6.9%	0
	29	BLS 3-Year Historic Growth (CAGR)	2.9%	0
	30	BLS 10-Year Future Growth (CAGR)	0.6%	0
Saturation: Entry Jobs	33	Job Postings per Graduate	0.8	0
	32	BLS Job Openings per Graduate	0.6	0
Weighted-Avg BLS Wages	47	Entry 25th Percentile	$83,837	0
	54	Post Entry Median	$119,203	2
		Post Entry w/Associates Median	NA	NS
		Post Entry w/Bachelors Median	NA	NS
		Post Entry w/Masters Median	NA	NS
	54	Post Entry w/Doctoral Median	$119,203	NS
National American Community Survey Bachelor's Degree Outcomes*	39	% with Any Graduate Degree*	31%	NS
	39	% with Masters*	23%	NS
	52	% with Doct/Prof Degree*	7%	NS
	14	% Unemp. (Age <30)**	4%	NS
	55	% in Direct Prep Jobs*	8%	NS

Degree Fit
Score: -20 Percentile: 50

Category	Pctl	Criterion	Value	Score
Cost Benchmarking		Average Cost per SCH Index**	NA	NS
		Median Cost per SCH Index**	NA	NS

National Completions by Level
Score: -20

National Workforce Ed. Attainment
Score: 0

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)	BLS Educational Attainment
No College				15%
Some College				14%
Certificate	8%	8%	3%	
Associates	9%	9%	11%	9%
Bachelors	70%	70%	68%	46%
Postbaccalaureate Certificate	2%	2%	0%	
Masters	10%	10%	13%	12%
Post-masters Certificate	0%	0%	2%	
Doctoral	2%	2%	3%	4%

CIP Description:
A program that prepares individuals to conserve and manage wilderness areas and the flora, marine and aquatic life therein, and manage wildlife reservations and zoological/aquarium facilities for recreational, commercial, and ecological purposes. Includes instruction in wildlife biology, marine/aquatic biology, environmental science, freshwater and saltwater ecosystems, natural resources management and policy, outdoor recreation and parks management, the design and operation of natural and artificial wildlife habitats, applicable law and regulations, and related administrative and communications skills.

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	-60	-53	-17	0	22	32	41	68

* - Google search do not filter by award level.
** - Percentiles are displayed in reverse (100% minus the percentile).
NA - No data available/not currently tracked.
NS - Not Scored in Rubrics (values = 0).
PCTL - Percentile

GRAY DI

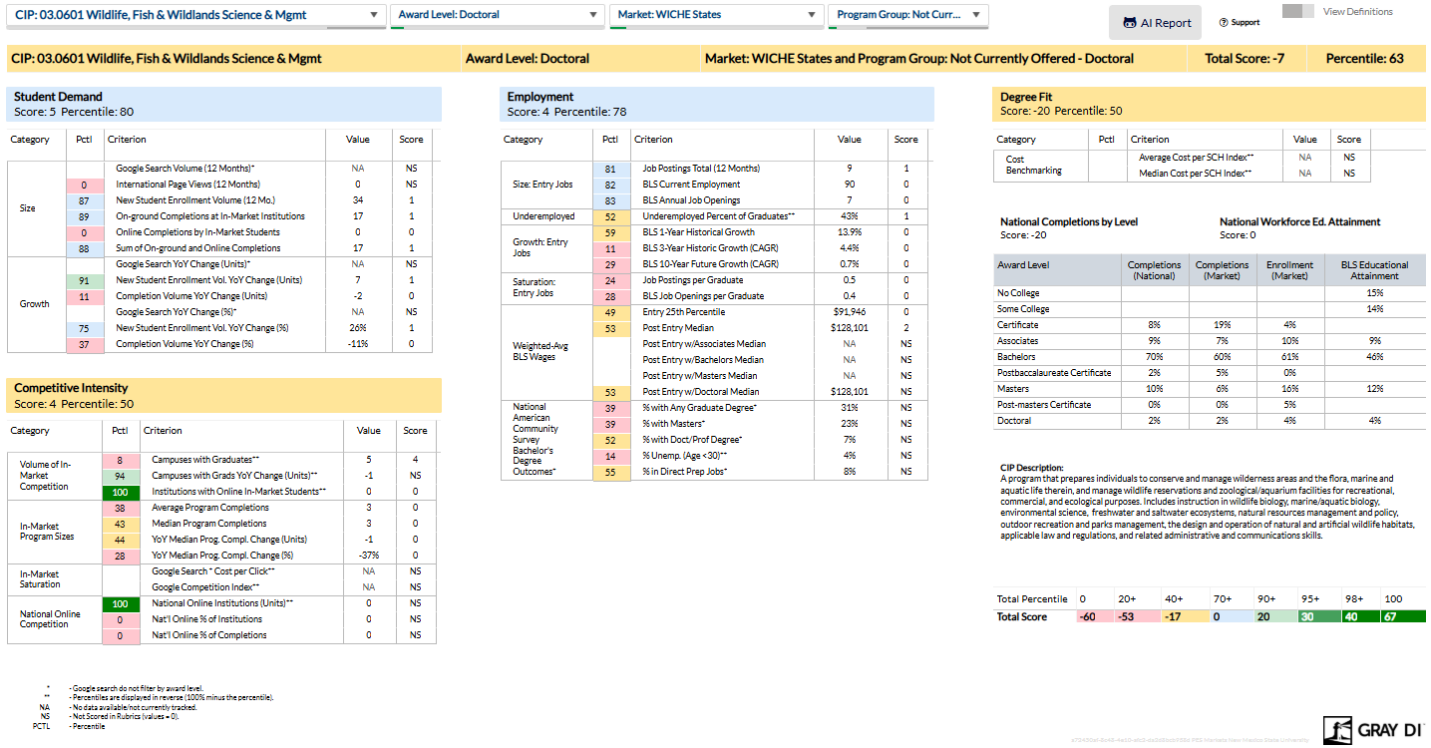
Entry Level Salary at $83,837

Post Entry Level Median Salary at $119,203

- New student enrollment of 96 places the program in the 93rd percentile for YOY change.

03.0601 Wildlife and Wildlands Science and Management

WICHE Market – Scorecard



CIP: 03.0601 Wildlife, Fish & Wildlands Science & Mgmt | Award Level: Doctoral | Market: WICHE States | Program Group: Not Curr... | AI Report | Support | View Definitions

CIP: 03.0601 Wildlife, Fish & Wildlands Science & Mgmt | Award Level: Doctoral | Market: WICHE States and Program Group: Not Currently Offered - Doctoral | Total Score: -7 | Percentile: 63

Student Demand
Score: 5 Percentile: 80

Category	Pctl	Criterion	Value	Score
Size		Google Search Volume (12 Months)*	NA	NS
	0	International Page Views (12 Months)	0	NS
	87	New Student Enrollment Volume (12 Mo.)	34	1
	89	On-ground Completions at In-Market Institutions	17	1
	0	Online Completions by In-Market Students	0	0
	88	Sum of On-ground and Online Completions	17	1
Growth		Google Search YoY Change (Units)*	NA	NS
	91	New Student Enrollment Vol. YoY Change (Units)	7	1
	11	Completion Volume YoY Change (Units)	-2	0
		Google Search YoY Change (%)*	NA	NS
	75	New Student Enrollment Vol. YoY Change (%)	26%	1
	37	Completion Volume YoY Change (%)	-11%	0

Competitive Intensity
Score: 4 Percentile: 50

Category	Pctl	Criterion	Value	Score
Volume of In-Market Competition	8	Campuses with Graduates**	5	4
	94	Campuses with Grads YoY Change (Units)**	-1	NS
	100	Institutions with Online In-Market Students**	0	0
In-Market Program Sizes	38	Average Program Completions	3	0
	43	Median Program Completions	3	0
	44	YoY Median Prog. Compl. Change (Units)	-1	0
	28	YoY Median Prog. Compl. Change (%)	-37%	0
In-Market Saturation		Google Search * Cost per Click**	NA	NS
		Google Competition Index**	NA	NS
National Online Competition	100	National Online Institutions (Units)**	0	NS
	0	Nat'l Online % of Institutions	0	NS
	0	Nat'l Online % of Completions	0	NS

Employment
Score: 4 Percentile: 78

Category	Pctl	Criterion	Value	Score
Size: Entry Jobs	81	Job Postings Total (12 Months)	9	1
	82	BLS Current Employment	90	0
	83	BLS Annual Job Openings	7	0
Underemployed	52	Underemployed Percent of Graduates**	43%	1
Growth: Entry Jobs	59	BLS 1-Year Historical Growth	13.9%	0
	11	BLS 3-Year Historic Growth (CAGR)	4.4%	0
	29	BLS 10-Year Future Growth (CAGR)	0.7%	0
Saturation: Entry Jobs	24	Job Postings per Graduate	0.5	0
	28	BLS Job Openings per Graduate	0.4	0
Weighted-Avg BLS Wages	49	Entry 25th Percentile	$91,946	0
	53	Post Entry Median	$128,101	2
		Post Entry w/Associates Median	NA	NS
		Post Entry w/Bachelors Median	NA	NS
		Post Entry w/Masters Median	NA	NS
	53	Post Entry w/Doctoral Median	$128,101	NS
National American Community Survey Bachelor's Degree Outcomes*	39	% with Any Graduate Degree*	31%	NS
	39	% with Masters*	23%	NS
	52	% with Doct/Prof Degree*	7%	NS
	14	% Unemp. (Age <30)**	4%	NS
	55	% in Direct Prep Jobs*	8%	NS

Degree Fit
Score: -20 Percentile: 50

Category	Pctl	Criterion	Value	Score
Cost Benchmarking		Average Cost per SCH Index**	NA	NS
		Median Cost per SCH Index**	NA	NS

National Completions by Level
Score: -20

National Workforce Ed. Attainment
Score: 0

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)	BLS Educational Attainment
No College				15%
Some College				14%
Certificate	8%	19%	4%	
Associates	9%	7%	10%	9%
Bachelors	70%	60%	61%	46%
Postbaccalaureate Certificate	2%	5%	0%	
Masters	10%	6%	16%	12%
Post-masters Certificate	0%	0%	5%	
Doctoral	2%	2%	4%	4%

CIP Description:
A program that prepares individuals to conserve and manage wilderness areas and the flora, marine and aquatic life therein, and manage wildlife reservations and zoological/aquarium facilities for recreational, commercial, and ecological purposes. Includes instruction in wildlife biology, marine/aquatic biology, environmental science, freshwater and saltwater ecosystems, natural resources management and policy, outdoor recreation and parks management, the design and operation of natural and artificial wildlife habitats, applicable law and regulations, and related administrative and communications skills.

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	-60	-53	-17	0	20	30	40	67

* - Google search do not filter by award level.
** - Percentiles are displayed in reverse (100% minus the percentile).
NA - No data available/not currently tracked.
NS - Not Scored in Rubrics (values = 0).
PCTL - Percentile

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Entry Salary $91,946

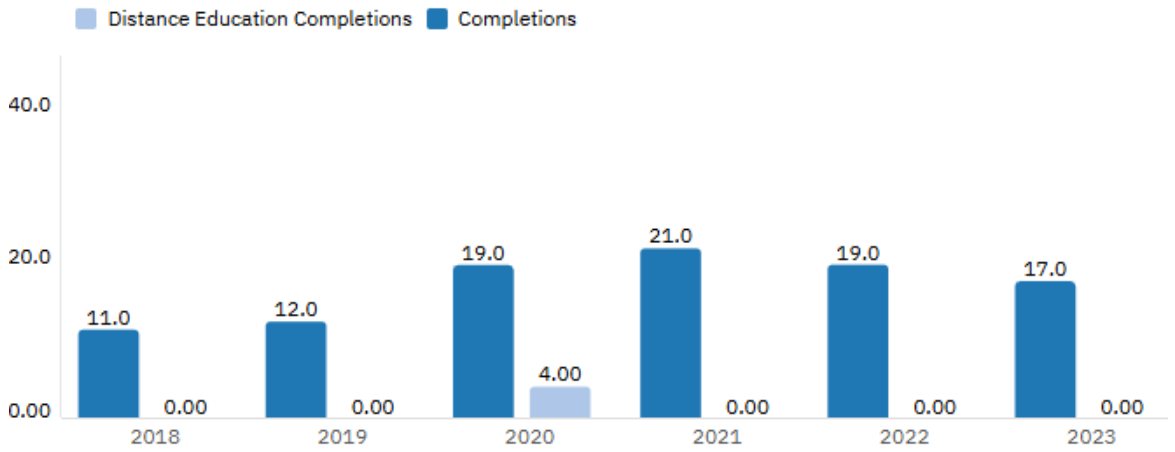
Post Entry Median Salary $128,101

- *Only 5 WICHE universities had graduates during this reporting period.*
- *The program's greatest strength lies in its New Student Enrollment Volume, which has increased to a value of 34, ranking at an impressive 91st percentile for YOY change.*
- *Entry salary and post entry median salary are higher for the WICHE market than at the national level.*

03.0601 Wildlife and Wildlands Science and Management

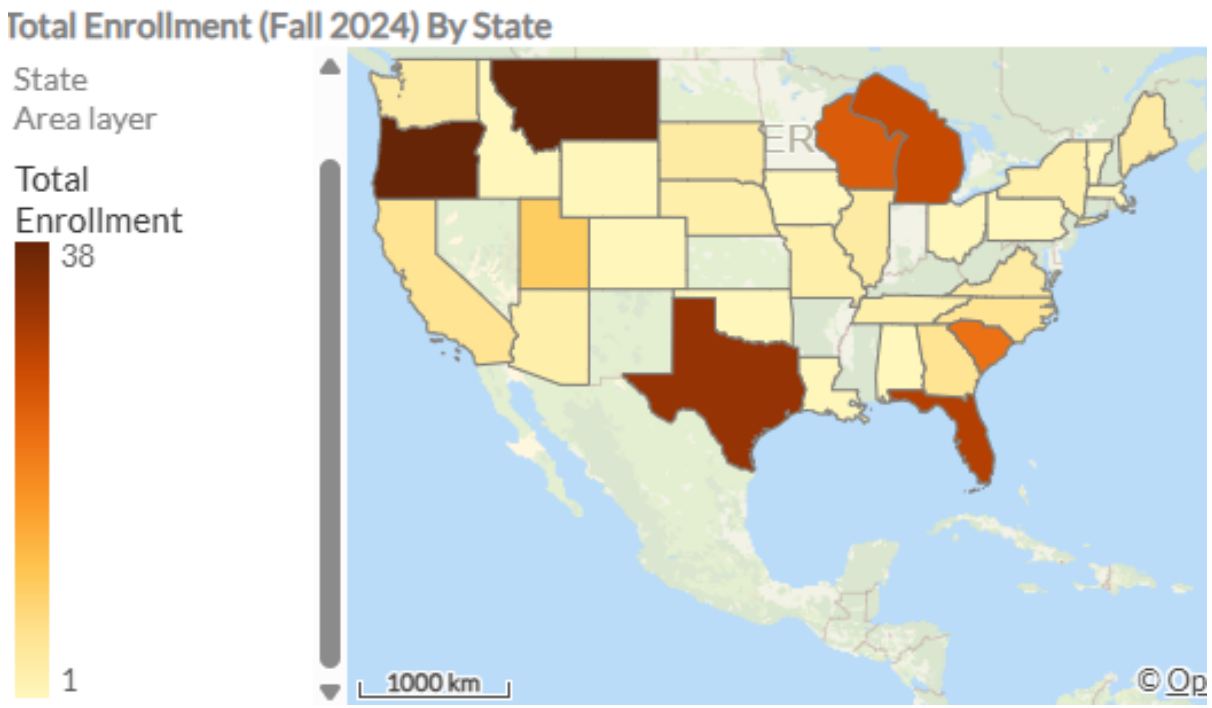
Completions in the WICHE market:

Institution	2018 Sum of On-Ground and Online	2019 Sum of On-Ground and Online Completions	2020 Sum of On-Ground and Online Completions	2021 Sum of On-Ground and Online Completions	2022 Sum of On-Ground and Online Completions	2023 Sum of On-Ground and Online Completions	5-year Unit Change
Brigham Young University	2	1	3	1	4	2	0
Montana University System	3	4	5	9	6	6	3
Oregon State University	3	5	6	3	4	3	0
South Dakota Board of Regents	3	2	4	2	1	2	-1
University of Alaska System of Higher Education	0	0	0	6	4	4	4
University of California	0	0	1	0	0	0	0



03.0601 Wildlife and Wildlands Science and Management

Total Enrollment by State



- Note low enrollment in the Southwest region.
- Erollment in Texas is primarily on the east side of the state.

03.0601 Wildlife and Wildlands Science and Management

Take Aways:

- Increased New Student Enrollment Volume
- Historically Steady Number of Completions
- Median Entry and Post-Entry Salary Levels
- Universities in the Southwest Region Have Low Enrollment Numbers

Wildlife and Fisheries Ecology Doctoral Program Five-Year Cost Estimate

Program Cost Estimate

							Input Variables	
NMSU Tuition Revenue	**New Student #**	**2026**	**2027**	**2028**	**2029**	**2030**	Agreed upon tuition rate	$348.76/credit
Cohort 1 (starts 2026)	2	$12,555.35	$12,555.35	$12,555.35	$12,555.35		SCH per year	18
Cohort 2 (starts 2027)	2		$12,555.36	$12,555.35	$12,555.35	$12,555.35	Payroll inflation	1%
Cohort 3 (starts 2028)	2			$12,555.36	$12,555.35	$12,555.35	Operating inflation	1%
Cohort 4 (starts 2029	2				$12,555.36	$12,555.35	Regular benefits	37.50%
Cohort 5 (starts 2030)	2					$12,555.36	GA benefits	0.56%
NMSU Tuition Total		**$12,555.35**	**$25,110.71**	**$37,666.06**	**$50,221.41**	**$50,221.41**		

NMSU Progrm Expenses					
Instructor Salaries[b]					
Cohort 1 (starts 2026)					
Cohort 2 (starts 2027)					
Cohort 3 (starts 2028)					
Cohort 4 (starts 2029)					
Cohort 5 (starts 2030)					
Number of students	2	4	6	8	8
Coordinator[c]	$0	$0	$0	$0	$0
Regular benefits	$0	$0	$0	$0	$0
Misc. operating	$0	$0	$0	$0	$0
GA benefits[d]	$0	$0	$0	$0	$0
Total expenses	$0	$0	$0	$0	$0
Annual profit	**$12,555.35**	**$25,110.71**	**$37,666.06**	**$50,221.41**	**$50,221.41**

[a]No new instructors required: existing instructors salaries covered by other funds

[b]Program coordinator is not required

[c]GA benefits will be paid from grants by program Pis

Supporting Documents

A. Letters of Support, PhD Program in Wildlife and Fisheries Ecology at New Mexico State University

1. New Mexico State University
    a. Department of Entomology, Plant Pathology and Weed Science
    b. Department of Plant and Environmental Sciences
    c. Department of Animal and Range Sciences
    d. Department of Biology
    e. Department of Geography
2. New Mexico Academic Institutions
    a. University of New Mexico, Department of Biology
    b. New Mexico Highlands University, Department of Biology
    c. Western New Mexico University, Department of Biology
    d. Eastern New Mexico University, Department of Biology
3. State of New Mexico
    a. New Mexico Department of Game and Fish
    b. Los Alamos National Laboratory
4. Tribal
    a. Cochiti Pueblo
    b. Jicarilla Apache Nation
    c. Santa Ana Pueblo
5. Regional
    a. Arizona Game and Fish Department
6. Federal Agencies
    a. U.S.G.S. Cooperative Research Program
    b. U.S.D.A. Forest Service, Rocky Mountain Research Station
    c. U.S.D.A. Agricultural Research Service
    d. D.O.I. National Park Service
    e. D.O.D. White Sands Missile Range
7. Non-Governmental Organizations
    a. Western Resource Advocates
    b. Wildlands Network
    c. Audubon Southwest
    d. Bat Conservation International
    e. Bird Conservancy of the Rockies
8. Industry
    a. Pattern Energy

b. WEST, Inc.
c. Tetra Tech
d. Souder Miller Associates
e. Eagle Environmental

9. Professional Societies
    a. The Wildlife Society
    b. The American Fisheries Society
    c. The National Association of University Fish and Wildlife Program

B. NMSU ZUHL Library Support Document

NM STATE UNIVERSITY

College of Agricultural, Consumer and Environmental Sciences
Department of Entomology, Plant Pathology and Weed Science
MSC 3BE, New Mexico State University
P.O. Box 30003, Las Cruces, NM 88003-8003

May 1, 2025

Martha Desmond, Department Head
Fish, Wildlife, and Conservation Ecology
New Mexico State University
Las Cruces, New Mexico 88003

Dear Dr. Desmond,

I am writing to express my support for the Department of Fish, Wildlife, and Conservation Ecology's proposed Ph.D. program in Fish and Wildlife Ecology. It is my understanding that in the past each of our departments has been closely tied to previous attempts to develop a shared Ph.D. program. However, in the development of our recently approved Ph.D. program in Applied and Agricultural Biology, I learned that there are distinct needs for each program. Our program focuses on understanding plant and animal health, plant protection, food security, and human health within the umbrella of our multiple disciplines that include entomology, plant pathology, and weed science. Like my department, your faculty members and training of students encompass multiple disciplines, however, highlight fish, wildlife, and conservation. Indeed, arthropods, invasive plant species, and diseased plants interact with the organisms and systems associated with your department's work and training, but this only provides an opportunity for synergy. Therefore, the proposed Ph.D. program in your department appears to have little to no overlap with our graduate program and will be a great complement to our Applied and Agricultural Biology Ph.D. program.

Your department is well positioned with several new and existing faculty, federal partners, and a strong M.S. graduate student base to expand your department's vision for higher education. Given my department's recent steps through the approval process for our Ph.D. program, please let me know how our department can be of assistance as you navigate your new graduate program proposal. I am excited to see your department's efforts to build your new Ph.D. program and to see your department's important work going forward.

Sincerely,



Ricardo A. Ramirez, PhD
Professor and Department Head

NM STATE UNIVERSITY

College of Agricultural, Consumer and Environmental Sciences
Department of Plant and Environmental Sciences
MSC 3Q, New Mexico State University
P.O. Box 30003, Las Cruces, NM 88003-8003

Date: May 6, 2025

To Whom It May Concern

I express my strong support for the proposed Ph.D. program in the Department of Fish, Wildlife and Conservation Ecology (FWCE). The development of such a Ph.D. program will be of great value to the agricultural and fish, wildlife and conservation ecology community in New Mexico, regionally, and beyond, and will foster additional collaborative opportunities between Department of FWCE and Department of Plant and Environmental Sciences (PES) and Department of Extension Plant Sciences (EPS).

At least two faculty members in FWCE received graduate faculty status in PES and are currently only able to advise M.S. students in the departments. Development of a Ph.D. degree program in FWCE would expand the opportunities for these faculty to advise Ph.D. students. The PES Ph.D. program in Plant and Environmental Sciences is focused on agronomy, horticulture, soil science, genetics and biotechnology, and environmental sciences and there is little to no overlap between our existing Ph.D. program and FWCE proposed doctoral program. A Ph.D. degree program in FWCE would be an asset to New Mexico, for PES, for Extension (EPS), and strengthen the research programs of both FWCE and PES departments.

Sincerely,



Anowar Islam
Department Head and Professor
Department of Plant and Environmental Sciences and Extension Plant Sciences

NM STATE UNIVERSITY

College of Agricultural, Consumer and Environmental Sciences
Department of Animal and Range Sciences
MSC 3I, New Mexico State University
P.O. Box 30003, Las Cruces, NM 88003-8003

May 1, 2025

To Whom It May Concern,

The Department of Animal and Range Sciences at New Mexico State University has reviewed the proposed PhD program that is being crafted by the Department of Fisheries, Wildlife and Conservation Ecology. The two departments have a history of collaboration, particularly with our range science faculty. The PhD programs in Animal and Range Science do not overlap with the proposed PhD program in Fisheries, Wildlife and Conservation Ecology. The training of students in this program will produce a workforce with expertise to assist stakeholders in New Mexico and the region.

We believe this will strengthen the programming in our college and support the efforts of Fisheries, Wildlife and Conservation Ecology to move this program forward.

Kind regards,

Shanna Ivey

Dr. Shanna Ivey
Shanna Ivey, PhD
Department Head and Professor
Animal and Range Sciences and Extension Animal Sciences and Natural Resources

COLLEGE OF ARTS AND SCIENCES

Department of Biology, MSC 3AF
New Mexico State University
P.O. Box 30001
Las Cruces, NM 88003-8001

Telephone: (575) 646-3611
Fax: (575) 646-5665

Martha Desmond, Department Head
Fish, Wildlife, and Conservation Ecology
New Mexico State University
Las Cruces, New Mexico 88003

Dear Dr. Desmond May 20, 2025

I am writing to express the support of the Biology Department at New Mexico State University for the proposed doctoral program in Wildlife and Fisheries Ecology. The Biology Department encompasses a broad field that includes all living organisms and can be further divided into specialized areas while Fish and Wildlife focuses specifically on the study and management of animal populations, particularly in natural ecosystems. There is little overlap between our programs and the proposed doctoral program in Wildlife and Fish Ecology will expand opportunities for faculty in Fish, Wildlife and Conservation Ecology and will fill important needs in New Mexico and surrounding areas related to the management and conservation of fish and wildlife populations.

The Department of Fish, Wildlife and Conservation Ecology has a strong faculty and MS program that puts you in an excellent position to move forward with this proposed program. Additionally, strong partnerships with state and federal agencies and non-governmental organizations will help support this program's success. I support and look forward to the successful development of this doctoral program.

We thank you for your leadership on this important effort and look forward to assisting in any way possible with its approval.

Sincerely,

Charles B. Shuster
Professor and Department Head
Department of Biology
New Mexico State University

Department of Geography & Environmental Studies
(Breland Hall Room 137)
1525 Stewart Street
MSC MAP
New Mexico State University
Las Cruces, NM 88003-8001
Fax: 575-646-7430
Phone: 575-646-3509

Webpage: geography.nmsu.edu

14 May 2025

Martha Desmond
Department of Fish, Wildlife and Conservation Ecology
2980 South Espina Street
New Mexico State University
Las Cruces, NM 88003

Dear Dr. Desmond,

The Department of Geography and Environmental Studies at New Mexico State University (NMSU) unanimously supports the proposed PhD program in Wildlife and Fisheries Ecology in the Department of Fish, Wildlife and Conservation Ecology at NMSU. Our PhD program in Geography complements but does not overlap with the proposed PhD in Wildlife and Fisheries Ecology. Out program covers areas of physical and human geography, environmental studies and science, and geographic information science and technology, while the proposed PhD program in in Wildlife and Fisheries Ecology would address applied ecology, conservation biology, animal movements, and habitat associations. There are numerous areas where the two programs and research strengths could benefit each other and provide opportunities for synergistic research for faculty and students. For example, a wildlife ecology project may examine the effects of habitat loss on species in a given area whereas a geographer would offer insights related to land use patterns that contribute to habitat loss. The newly proposed doctoral program in Wildlife and Fisheries Ecology could provide opportunities for our faculty to participate on dissertation committees and collaborate on research.

We support the efforts of Dr. Desmond and her faculty to create this PhD program. Having gone through this process recently ourselves, we understand the importance of a program like this for faculty and students as well as state and federal partners, industry, and non-governmental organizations. The Department of Geography and Environmental Studies is excited about this proposed program and looks forward to synergistic collaborations.

Sincerely,

Michaela Bünemann

Professor and Academic Department Head

DEPARTMENT OF BIOLOGY

Cristina Takacs-Vesbach
Professor and Chair
Tel: (505) 277 2496
Fax: (505) 277 0304
E-mail: cvesbach@unm.edu

May 13, 2025

Martha Desmond, Department Head
Fish, Wildlife, and Conservation Ecology
New Mexico State University
Las Cruces, New Mexico 88003

Dear Dr. Desmond

I am writing to express the enthusiastic support of the Biology Department at University of New Mexico for your proposed Ph.D. program in Wildlife and Fisheries Ecology. While both of our departments contribute to the broader understanding of the natural world, our missions, curricular focus and research programs are clearly differentiated and complementary rather than overlapping. Biology Departments focus on fundamental mechanisms of life at the molecular, cellular and organismal levels with faculty investigating a wide range of topics that include molecular genetics, cell signaling, microbiology, physiology developmental biology and evolutionary theory. In contrast, Wildlife and Fisheries Ecology focuses on more applied aspects of ecology, conservation biology, spatial ecology and public policy.

The Department of Fish, Wildlife and Conservation Ecology fills an important niche in New Mexico training professionals for careers in resource management, environmental stewardship and public policy. A Ph.D. program in Wildlife and Fisheries Ecology at NMSU will take this a step further, training research scientists to fill necessary roles at state and federal agencies, non-governmental organizations and academia to address important issues related to the management and conservation of fish and wildlife populations and their habitats.

The Department of Fish, Wildlife and Conservation Ecology is in an excellent position to move forward with this program as they have a strong faculty and Masters of Science program and established relationships with state and federal agencies and non-governmental organizations across New Mexico and the southwest. I look forward to the successful development of this program.

Sincerely,

Cristina Takacs-Vesbach

15th May 2025
Martha Desmond
Department of Fish, Wildlife and Conservation Ecology
2980 South Espina Street
New Mexico State University
Las Cruces, NM 88003

Dear Dr. Desmond

The Department of Biology at New Mexico Highlands University (NMHU) is excited to learn about the proposed PhD Program in Fish and Wildlife Ecology at New Mexico State University. We have worked collaboratively with NMSU and the Department of Fish, Wildlife and Conservation Ecology for many years. Our program at NMHU has a strong wildlife biology and conservation component at MS and BS levels, and we are enthusiastic about collaborating with Fish, Wildlife and Conservation Ecology at NMSU to create a pipeline for our students interested in pursuing a PhD. This proposed program would create an opportunity for NMHU faculty to participate in committees of PhD students with graduate faculty status at NMSU and to jointly collaborate on research; this is a great opportunity to increase collaborations between our institutions/departments.

There are few PhD-level opportunities for students in fish and wildlife ecology in the Southwest yet, there is a strong need for a program like this in New Mexico and the region to support state and federal agencies, national labs, NGOS and academia. In particular, PhD level scientists in the southwest are needed to address environmental stressors facing fish and wildlife populations and their habitats, including the effects of catastrophic fires and heat waves and the siting of renewable energy developments and associated infrastructure. The Biology Department at NMHU looks forward to the development of this Ph.D. program and our involvement.
Sincerely,

Jesús A. Rivas PhD, CWB
Professor of Biology and Dept. Chair
New Mexico Highlands University
Las Vegas NM 87701
Ph: 5054543292

WNMU COLLEGE OF ARTS AND SCIENCES
Department of Natural Sciences

08 May 2025
Martha Desmond
Department of Fish, Wildlife and Conservation Ecology
2980 South Espina Street
New Mexico State University
Las Cruces, NM 88003

Dear Dr. Desmond:
This letter conveys the strong support of the Department of Biology at Western New Mexico University (WNMU) for the proposed PhD Program in Fish and Wildlife Ecology in the Department of Fish, Wildlife and Conservation Ecology at New Mexico State University (NMSU). Our program at WNMU has strong wildlife biology, outdoor recreation and conservation components for Bachelors and Masters Degree students. We are excited about the potential to collaborate with the Department of Fish, Wildlife and Conservation Ecology at NMSU to create a pipeline for our students interested in pursuing a PhD. This proposed program would also create an opportunity for interested WNMU faculty to participate on committees of PhD students with graduate faculty status at NMSU and to jointly collaborate on research. This will provide a unique opportunity to increase collaborations between our institutions/departments.

New Mexico's outdoor recreation economy directly supports $1.2 billion in income and 33,500 jobs. Nature-based recreation in New Mexico is growing faster than the states economy and other types of outdoor recreation. This demonstrates a need for science-based, sustainable management of our natural resources, including fish and wildlife populations and their habitats. There are few PhD-level opportunities for students in fish and wildlife ecology in the Southwest to support scientists at state and federal agencies, national labs, NGOS and academia. The Biology Department at WNMU looks forward to the development of this Ph.D. program and our involvement.
Sincerely,

Shiva K Kyasa
Professor and Natural Science Department Chair

ENMU | Department of Biology

May 25, 2025

Dr. Martha Desmond, Department Head
Department of Fish, Wildlife and Conservation Ecology
New Mexico State University
Las Cruces, NM 88003

Dear Dr. Desmond,

On behalf of the Biology Department at Eastern New Mexico University (ENMU), I am writing to express our conditional enthusiastic support for the proposed PhD program in Wildlife and Fisheries Ecology at New Mexico State University (NMSU).

This program represents an exciting and much-needed opportunity for advanced ecological education and research within our state. ENMU is particularly encouraged and interested in establishing a clear and accessible academic pipeline for our undergraduate and master's students who are enthusiastic about pursuing a doctorate in wildlife and fisheries ecology without having to leave New Mexico. Many of our students seek meaningful careers in conservation, resource management, and ecological research, and this program would provide a vital next step in their academic and professional development.

Moreover, we are eager to explore future collaborations between our institutions. A doctoral program at NMSU would naturally facilitate joint research projects, faculty partnerships, and expanded field training opportunities across diverse New Mexico landscapes. We see this initiative as a way to deepen inter-institutional ties while contributing to the conservation and understanding of the region's unique ecosystems.

We commend NMSU for its leadership in advancing ecological science and education in the Southwest and fully support the establishment of this PhD program. Please do not hesitate to contact me if our department can provide additional input or assistance during this process.

Sincerely,

Matthew A. Barlow, Ph.D.
Professor and Chair-Department of Biology

GOVERNOR
Michelle Lujan Grisham

DIRECTOR AND SECRETARY
TO THE COMMISSION
Michael B. Sloane

STATE OF NEW MEXICO
DEPARTMENT OF GAME & FISH

One Wildlife Way, Santa Fe, NM 87507

Tel: (505) 476-8000 | Fax: (505) 476-8180

For information call: (888) 248-6866

www.wildlife.dgf.nm.gov

STATE GAME COMMISSION

RICHARD STUMP
Chair
Santa Fe

SHARON SALAZAR HICKEY
Vice Chair
Santa Fe

FERNANDO CLEMENTE, JR.
Sunland Park

GREGG FULFER
Jal

TIRZIO J. LOPEZ
Cebolla

DR. SABRINA PACK
Silver City

Dr. Martha Desmond
Department Head, Fish, Wildlife and Conservation Ecology
2980 South Espina St
New Mexico State University
Las Cruces, NM 88003

29 April 2025

Dear Dr. Desmond:

The New Mexico Department of Game and Fish (NMDGF) strongly supports the initiative by the Department of Fish, Wildlife and Conservation Ecology (FWCE) at New Mexico State University to establish a PhD program in fish and wildlife ecology. As the agency responsible for the management of fish and wildlife populations in New Mexico we work closely with faculty in FWCE including the USGS Cooperative Research Unit housed within that department. Our agency is tasked with the regulation, propagation and conservation of wildlife populations across New Mexico to ensure sustainable use for recreation and harvest.

A doctoral program focused on fish and wildlife ecology would benefit NMDGF by providing additional resources to address the critical management needs of our agency. New Mexico is rich in natural resources with diverse populations of mammals, birds, reptiles, amphibians, fish, crustaceans, and mollusks, all of which fall under our jurisdiction. Environmental stressors, including drought, disease and catastrophic wildfire are creating unique challenges for the management of fish and wildlife populations in New Mexico.

Graduates with doctoral degrees in wildlife and fisheries ecology can take leadership roles in natural resource management including wildlife-human interactions, species recoveries, population modeling, disease ecology, and landscape connectivity. Guiding and mentoring the next generations of fish and wildlife biologists is crucial for advancing science and meeting evolving societal challenges in fish and wildlife management. NMDGF is already actively engaged in graduate committees for many students in FWCE, including Ph.D. that FWCE faculty mentor through other NMSU Departments. We look forward to participating in committees for PhD students in the FWCE program. NMDGF is increasingly hiring PhD level biologists; this proposed program could provide training for current employees to move to the PhD level and provide potential future workforce

In closing, NMDGF is enthusiastic about the potential for the establishment of a PhD program in Fish and Wildlife Ecology at NMSU and we look forward to being involved in this program.

Sincerely,

Michael B. Sloane Digitally signed by Michael B. Sloane
Date: 2025.04.29 10:53:11 -06'00'

Michael B. Sloane
Director

Los Alamos NATIONAL LABORATORY
Earth and Environmental Science Division
Modeling and Observations of Earth Systems

Los Alamos National Laboratory
P.O. Box 1663, MS J495
Los Alamos, NM 87545
505-606-1650

Date: May 14, 2025

Dr. Martha Desmond, Department Head
Department of Fish, Wildlife and Conservation Ecology
2980 South Espina Street
New Mexico State University
Las Cruces, NM 88003

Subject: Support for a PhD program in Wildlife and Fisheries Ecology at New Mexico State University

Dear Dr. Desmond,

I am writing to express the strong support for the development of a Ph.D. program and continued investment in Ph.D. students in Wildlife and Fisheries Ecology at New Mexico State University (NMSU). This initiative aligns directly with the environmental stewardship goals and scientific mission of Los Alamos National Laboratory (LANL), and offers strategic value to the Laboratory, the state of New Mexico, and the broader scientific community.

Los Alamos National Laboratory has a long-standing commitment to responsible environmental management, biological monitoring, and ecological research, all of which depends on highly trained professionals with deep expertise in wildlife and ecosystem dynamics. A Ph.D. program in Wildlife and Fisheries Ecology at NMSU would help cultivate a new generation of scientists who are equipped to address complex environmental challenges facing LANL's unique high-desert and montane landscapes. Los Alamos is recognized for the large number of Ph.D. scientists and postdoctoral associates on its workforce, this includes a highly skilled workforce in ecology across various teams and divisions including Earth and Environmental Sciences Division, Bioscience Division, and Environmental Protection & Compliance. Areas of expertise that overlap between NMSUs Department of Fish, Wildlife and Conservation Ecology (FWCE) and LANL include broad areas of environmental regulations, environmental sciences, computational science, ecological health, sustainable biofuel production, ecosystem stressors, ecological modeling, genomics, and disease ecology.

New Mexico State University already serves as a key institution for ecological and wildlife sciences in the region and has been mentoring Ph.D. students through other departments for a long time. A Ph.D. program specific to wildlife and fisheries would expand the capacity for advanced research, promote collaborative projects between LANL and NMSU, and provide a local pipeline of highly qualified scientists who understand the ecological nuances of the Southwest. Furthermore, this program would strengthen regional efforts in biodiversity conservation, habitat restoration, and sustainable land management—areas where LANL has both research interests and regulatory responsibilities.

Supporting this program would also reinforce LANL's leadership in workforce development, especially in STEM fields critical to national and environmental security. It would build enduring academic partnerships that amplify LANL's impact while addressing pressing local and global ecological concerns.

I am excited about this important initiative and potential partnerships through funding, research collaboration, internships, or shared expertise. The synergy between LANL and NMSU in wildlife ecology is already strong and can additional yield lasting scientific, educational, and environmental benefits for New Mexico and the nation.

Thank you for your time and consideration.

Sincerely,



Jeanne M. Fair, Ph.D.

Modeling and Observations of Earth Systems

Joseph B. Herrera
Governor

Jeff M. Suina
Lt. Governor

P.O. Box 255
255 Cochiti Street
Cochiti Pueblo, NM 87072-0255
PH (505) 629-4284
cochiti.org

Dr. Martha Desmond, Department Head
Department of Fish, Wildlife and Conservation Ecology (FWCE)
New Mexico State University
2980 South Espina Street
Las Cruces, NM 88003

Dear Dr Desmond and Department of FWCE,

On behalf of the Pueblo de Cochiti Tribal Council, I write to express our strong support for the establishment and continued development of a Ph.D. program in Wildlife and Fisheries Ecology at New Mexico State University (NMSU). As a sovereign Tribal Nation with deep cultural, spiritual, and historical ties to the land and its ecosystems, we recognize the critical importance of advanced education and research that align with the values of environmental stewardship, biodiversity conservation, and responsible natural resource management.

The intersection of traditional ecological knowledge and Western science presents a powerful opportunity for addressing the complex environmental challenges facing New Mexico and the broader Southwest. A doctoral program at NMSU dedicated to wildlife and fisheries ecology would not only cultivate future leaders in this field but also support collaborative research initiatives that respect and integrate Indigenous perspectives on land, water, and wildlife.

For generations, Cochiti Pueblo has maintained a sacred relationship with the land and all living beings. We believe this program can serve as a vital platform for nurturing Indigenous scholars, advancing culturally respectful research methodologies, and creating pathways for Tribal communities to participate in shaping regional and national conservation strategies.

We are confident that such a program will enhance the scientific capacity of the region, contribute to the training of ecologists equipped to engage with diverse communities, and reinforce the importance of Tribal-university partnerships. We look forward to opportunities for continued collaboration with NMSU in research, education, and policy development that supports both ecological health and cultural preservation.

Thank you for your consideration and dedication to building a program that reflects the values of sustainability, inclusivity, and respect for Indigenous knowledge systems.

Sincerely,

Joseph B. Herrera
Governor

Jeff M. Suina
Lt. Governor

CamScanner

The Jicarilla Apache Nation
EXECUTIVE OFFICES
P.O. Box 507 • Dulce, New Mexico • 87528-0507 • (575) 759-3242

Jicarilla Apache Reservation
February 11, 1887-1987

May 27, 2025

Dr. Martha Desmond, Department Head
Department of Fish, Wildlife and Conservation Ecology
New Mexico State University
P.O. Box 30001
Las Cruces, NM 88003

Dear Dr. Desmond,

On behalf of the Jicarilla Apache Nation (Nation), I write to express our strong support for the establishment of a Doctoral Program in Wildlife and Fisheries Ecology at New Mexico State University (NMSU). This program aligns deeply with our Nation's enduring commitment to land stewardship, wildlife conservation, and educational advancement.

For generations, the Jicarilla Apache people have maintained a profound cultural, spiritual, and ecological relationship with the land and wildlife of northern New Mexico. As caretakers of over 850,000 acres of tribal land, we actively manage world-class wildlife populations, including mule deer, black bear, and other culturally significant species. Our Wildlife Department has become a model of tribal-led wildlife and habitat management, integrating traditional practices and needs with modern scientific practices.

A Ph.D. program in Wildlife Ecology at NMSU would offer critical opportunities for collaborative research, student training, and the development of culturally grounded science. We see this program as a vital tool for preparing the next generation of wildlife professionals. The Jicarilla Apache Nation would welcome the opportunity to support this program through research partnerships, internship placements, and guest lectures by our wildlife professionals and cultural leaders. We believe such a partnership would enhance academic outcomes while fostering deeper respect for the diverse ecological perspectives present in our region.

We commend NMSU for its leadership in advancing natural resource education in the Southwest and urge full consideration and support for this important initiative.

Respectfully,

Mr. Adrian Notsinneh
President
Jicarilla Apache Nation

PUEBLO OF SANTA ANA

OFFICE OF THE GOVERNOR

28 May 2025

Martha Desmond
Department of Fish, Wildlife and Conservation Ecology
PO 30003, MSC 4901
Las Cruces, NM 88003

Dear Dr. Desmond,

On behalf of the Pueblo of Santa Ana, I write in strong support of New Mexico State University's proposed Ph.D. program in Wildlife and Fisheries Ecology. As a Tribal Nation deeply connected to the lands, waters, and wildlife of our ancestral territory, we recognize the urgent need to cultivate highly trained professionals who are equipped to address the environmental challenges of today and steward the natural world for future generations.

For generations, the people of Santa Ana have maintained a close relationship with the land and its native species. Our Department of Natural Resources is staffed by a highly skilled team of conservation professionals that manage diverse programs focused on habitat restoration, native fish recovery, wildlife monitoring, and climate resilience. The addition of a Ph.D. program in Wildlife and Fisheries Ecology at NMSU would significantly enhance regional capacity to support these and other conservation efforts, and would open the door for collaboration between Tribal, academic, and state agencies.

Importantly, a doctoral program with a focus on culturally relevant and community-engaged research can create pathways for Indigenous students and scholars to contribute to the field while honoring traditional ecological knowledge. We hope such a program will prioritize inclusion, equity, and partnerships with Tribal Nations throughout the Southwest.

We commend NMSU for its leadership in advancing education and science that benefit both people and the environment. The Pueblo of Santa Ana fully supports the development of this doctoral program and welcomes future opportunities to work with NMSU faculty and graduate students.

Sincerely,

Pueblo of Santa Ana
Myron Armijo, Governor

02 Dove Road ♦ Santa Ana ♦ NM 87004

TEL: 505-771-6700 ♦ FAX: 505-771-6745 ♦ Email: gov@santaana-nsn.gov

June 17, 2025

Dr. Martha Desmond, Department Head
Department of Fish, Wildlife and Conservation Ecology
New Mexico State University
P.O. Box 30003, MSC 4901
Las Cruces, NM 88003

Dear Dr. Desmond,

On behalf of the Arizona Game and Fish Department (AZGFD), I am writing to express support for the establishment of a Doctor of Philosophy (PhD) program in Wildlife and Fisheries Ecology at New Mexico State University (NMSU). As a neighboring state agency with a vested interest in the conservation and sustainable management of wildlife resources in the Southwest, the AZGFD recognizes the importance of cultivating highly trained scientists and leaders in this field. NMSU has a well-established reputation for academic excellence and applied research in wildlife and fisheries ecology. The proposed PhD program would play an important role in preparing scientists to address complex ecological issues that are particularly relevant to arid and semi-arid environments. Sustainable management of native species (both terrestrial and aquatic species) and the habitats they rely on, in the face of stressors such as drought, non-native invasive species, habitat fragmentation, and habitat conversion, is central to AZGFD's mission and it demands the kind of rigorous, research-based expertise that such a program would foster.

State wildlife agencies, including the AZGFD, hire biologists and program leads with doctoral-level training. The growing complexity of conservation challenges, along with an increased emphasis on evidence-based management and interdisciplinary collaboration, has made advanced academic training more important than ever. A PhD from a regionally-focused institution like NMSU would contribute to the skill sets the AZGFD seeks in the workforce. The establishment of this PhD program will strengthen regional capacity in conservation science and enhance opportunities for collaboration between academic institutions and state wildlife agencies. The AZGFD has had positive experiences working with NMSU-trained professionals, and are confident that this new program will continue to produce graduates who are well-equipped to meet the conservation needs of the 21st century.

The AZGFD provides support for this initiative and looks forward to the continued partnership between organizations. Please do not hesitate to contact me if I can provide any further assistance in this effort.

Sincerely,

Clay Crowder
Assistant Director, Wildlife Management Division

GOVERNOR: KATIE HOBBS **COMMISSIONERS:** CHAIRMAN CLAY HERNANDEZ, TUCSON | MARSHA PETRIE SUE, SCOTTSDALE | JEFF BUCHANAN, PATAGONIA
JAMES E. GOUGHNOUR, PAYSON | KURT KERR, PINETOP **DIRECTOR:** TOM P. FINLEY **DEPUTY DIRECTOR:** JOSHUA W. HURST

United States Department of the Interior
U.S. GEOLOGICAL SURVEY
12201 Sunrise Valley Drive
Reston, VA 20192

May 22, 2025

Dr. Martha Desmond
Department of Fish, Wildlife and Conservation Ecology
2980 South Espina Street
New Mexico State University
Las Cruces, NM 88003

Dear Dr. Desmond:

The U.S. Geological Survey's Cooperative Research Units Program is excited about the possibility of a Ph.D. program in Fish and Wildlife Ecology at New Mexico State University. The Cooperative Research Units Program was established in 1935 with the mission to:

- Support the North American Model of Wildlife Conservation through disciplinary, interdisciplinary, and transboundary applied research of natural systems and related socioecological processes,
- Develop future natural-resource managers and researchers through graduate education in wildlife and fisheries sciences, and
- Enhance cooperator capabilities through technical assistance in the use and application of state-of-the-art science practices.

There are currently 43 Cooperative Fish and Wildlife Research Units within 44 host universities employing over 100 full-time research scientists. Unit research scientists hold affiliated faculty positions at their host institutions, mentor graduate students and postdoctoral fellows, and employ research staff to address cutting edge applied research questions in their state and region and provide technical assistance to state and federal cooperators. During 2024, our research scientists published 416 journal articles in 175 peer -reviewed journals and the Cooperative Research Unit Program funded approximately 100 postdoctoral fellows. Many current Unit scientists got their start as a Ph.D. student or postdoctoral fellow in a Unit.

Our Unit in New Mexico, housed within your Department of Fish, Wildlife and Conservation Ecology, employees 3 Ph.D.-level research scientists. Since its inception in 1988, the New Mexico Cooperative Fish and Wildlife Research Unit has initiated over 214 projects totaling $32 million in support from state, federal, university and private cooperators and trained 152 graduate students. Some examples of current collaborative research through the New Mexico Cooperative Fish and Wildlife Research Unit that involves graduate students and post-doctoral fellows are (1) mapping big game migration corridors, (2) decision support tools to guide flows and habitat management in the middle Rio Grande River, (3) response of large mammals to

forest restoration treatments and fire, (4) decision support tools for sustainable raptor take limits, (5) conservation of NM songbirds, and (6) conservation and restoration of New Mexico's native fish species.

State and federal agencies are increasingly filling science and policy positions with individuals that have earned Ph.D. degrees. The southwest is depauperate in Ph.D. programs in Fish and Wildlife Ecology. This proposed program will help train future natural resource managers and scientists in New Mexico and the southwest.

Sincerely,

KEVIN POPE

Digitally signed by KEVIN POPE
Date: 2025.05.27 09:23:00 -05'00'

Kevin L. Pope, Acting Chief of Cooperative Research Units Program
U.S. Geological Survey
571-548-2420; kpope@usgs.gov

Support for Ph.D. Program at NMSU

Dr. Martha Desmond, Department Head
Department of Fish, Wildlife and Conservation Ecology
2980 South Espina Street
New Mexico State University
Las Cruces, NM 88003

5 May 2025

Dear Dr. Desmond:

This letter conveys my strong support for the establishment of a Ph.D. program in Fish and Wildlife Ecology at New Mexico State University (NMSU). The RMRS has a long and productive history of collaboration with the Department of Fish, Wildlife, and Conservation Ecology (FWCE) at NMSU. I am particularly excited about the prospect of a new Ph.D. program in fish and wildlife ecology given there is only one existing fish and wildlife Ph.D. program in the southwest.

The USFS Research and Development has five USDA Forest Service Research Stations across the United States. The Rocky Mountain Research Station covers the western United States, including New Mexico, and maintains 14 research laboratories throughout this region. Our research scientists also regularly support recent Ph.D. graduates as postdoctoral fellows as these recent graduates embark on their research careers. The mission of RMRS is to work at the forefront of science to improve the health and use of our Nation's forests and grasslands. Research topics include:

- Ecology
- Environment and people
- Fire
- Fish and Wildlife
- Forest and Plant Health
- Inventory, Monitoring and Assessment
- Managing the Land
- Water, Air and Soil

Wildlife and fisheries related research at RMRS research areas fit nicely with FWCE strengths that include species responses to forest restoration treatments and fire, big game ecology, threatened and endangered species, disease ecology, conservation genetics, quantitative ecology,

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decision support tools for species conservation and habitat management, conservation and restoration of native fauna of New Mexico and their habitats, and human dimensions.

As National Program Lead for Wildlife Science and Habitat Restoration Research at RMRS, I am excited at the prospect of a new Ph.D. program in our region to recruit future scientists and the opportunity for our research scientists to continue and expand collaborations with FWCE at NMSU including serving on student committees and collaborating on research. USDA Forest Service Research Stations offer tremendous career opportunities for research scientists in fish and wildlife ecology.

Please let me know if you have any questions.

Sincerely,

Kevin Doherty, PhD
National Program Lead Wildlife Science and Habitat Restoration Research

Kevin Doherty

Digitally signed by Kevin Doherty
Date: 2025.05.05 12:57:59 -06'00'

United States Department of Agriculture

Research, Education, and Economics
Agricultural Research Service

9 May 2025

Dr. Martha Desmond
Department Head, Fish, Wildlife and Conservation Ecology
2980 South Espina St
New Mexico State University
Las Cruces, NM 88003

Dear Dr. Desmond,

As Director of the USDA Jornada Experimental Range (JER), it is my pleasure to write in support of the Department of Fish, Wildlife and Conservation Ecology's proposed Ph.D. Program in Wildlife and Fisheries Ecology. The JER's mission is to develop science-based management strategies for sustainability of agriculture and other land uses. We also host the USDA Southwest Climate Hub, a USDA Long-Term Agroecosystem Research site, and have many agency-funded projects. We have a strong partnership with NMSU's College of Agriculture, Consumer, and Environmental Sciences and the Department of Fish, Wildlife and Conservation Ecology. The Jornada unit supports 20 Ph.D level permanent scientists and postdocs, including some recruits from NMSU. Lack of doctoral level programs, such as Wildlife and Fisheries Ecology, has led to few local applicants for our open positions in the past. The doctoral program in Wildlife and Fisheries Ecology would increase the number of such graduates that would compete well for these and other positions within the USDA Agricultural Research Service and our partners.

Best regards,

BRANDON BESTELMEYER

Digitally signed by BRANDON BESTELMEYER
Date: 2025.05.09 08:17:00 -06'00'

Dr. Brandon T. Bestelmeyer
Supervisory Research Ecologist, USDA-ARS Jornada Experimental Range

USDA-ARS Jornada Experimental Range
P.O. Box 30003, MSC 3JER, NMSU, Las Cruces, NM 88003-8003
Voice: 575-646-4842 Fax: 575-646-5889
E-mail: Brandon.bestelmeyer@usda.gov
USDA is an Equal Opportunity Provider and Employer

United States Department of the Interior

NATIONAL PARK SERVICE
Organ Pipe Cactus National Monument
10 Organ Pipe Dr
Ajo, AZ 85321

May 15, 2025

Dr. Martha Desmond, Department Head
Department of Fish, Wildlife and Conservation Ecology
PO Box 30003, MSC 4901
New Mexico State University
Las Cruces, NM 88003

Subject: Letter of Support for the Ph.D. Program in Wildlife and Fisheries Ecology at New Mexico State University

Dear Dr. Desmond and Review Committee,

On behalf of the National Park Service (NPS), I am pleased to offer our strong support for the proposed Doctor of Philosophy (Ph.D.) program in Wildlife and Fisheries Ecology at New Mexico State University (NMSU). The establishment of this program represents a critical and timely step toward addressing the growing ecological challenges facing our public lands, wildlife populations, and aquatic resources.

As a federal agency dedicated to the preservation and stewardship of America's natural and cultural heritage, the National Park Service relies heavily on scientifically trained professionals who can apply rigorous ecological research to the management of wildlife and fisheries across diverse landscapes. The southwestern United States, and New Mexico in particular, is home to a range of unique and sensitive ecosystems, from arid desert basins to alpine streams. A doctoral program grounded in this region's ecology is not only strategically placed, but urgently needed.

Currently, the National Park Service employs more than 1,000 scientists across the agency, including over 200 individuals who hold Ph.D. degrees in fields such as ecology, wildlife biology, fisheries science, and conservation biology. These scientists play vital roles in park management, policy development, research coordination, and public engagement. The growing complexity of environmental issues—such as climate change impacts, species recovery, and invasive species management—requires the advanced expertise and leadership that only doctoral-level training can provide.

NMSU's long-standing record of excellence in natural resources education, research, and community engagement makes it exceptionally well-positioned to offer such a program. The proposed Ph.D. in Wildlife and Fisheries Ecology will serve to train the next generation of ecological scientists and conservation leaders. Graduates from this program will be valuable contributors to agencies such as the NPS, U.S. Fish and Wildlife Service, Bureau of Land Management, state wildlife agencies, tribal governments, and non-governmental conservation organizations.

Furthermore, we anticipate that collaborative research opportunities between NMSU doctoral students and the National Park Service will increase through this program, yielding mutual benefits in terms of knowledge generation, resource stewardship, and workforce development.

In conclusion, the National Park Service strongly endorses the creation of this Ph.D. program. We look forward to the advancements in ecological science and conservation that this program will support, and we are enthusiastic about the potential for future partnerships with NMSU and its doctoral students.

Sincerely,

TYLER COLEMAN

Digitally signed by TYLER COLEMAN
Date: 2025.05.15 16:04:47 -07'00'

Tyler Coleman, PhD
Chief of Natural and Cultural Resource Management
Organ Pipe Cactus National Monument
National Park Service
U.S. Department of the Interior
tyler_coleman@nps.gov

DEPARTMENT OF THE ARMY
US ARMY GARRISON WHITE SANDS MISSILE RANGE
100 HEADQUARTERS AVENUE
WHITE SANDS MISSILE RANGE, NEW MEXICO 88002

June 17, 2025

Dr. Martha Desmond, Department Head
Department of Fish, Wildlife and Conservation Ecology
2980 South Espina Street
New Mexico State University
Las Cruces, NM 88003

Subject: Establishment of a PhD program in Fish and Wildlife Conservation Ecology at New Mexico State University

Dear Dr. Desmond:

I am writing to convey our support for the establishment of a PhD program in Fish and Wildlife Conservation Ecology (FWCE) at New Mexico State University. White Sands Missile Range (WSMR) benefits directly from the expertise in the FWCE Department as our biologists work collaboratively with faculty on a regular basis.

The addition of a PhD program in FWCE will strengthen resources available to natural resources management at WSMR. Our installation covers approximately 3,200 square miles of land with an impressive variety of big game specie and species at risk. Our Environmental Division works to ensure compliance with environmental laws and the conservation and enhancement of natural resources to maintain installation readiness and environmental stewardship. We seek to integrate science into decision making to ensure that relevant scientific information is accessible to our staff and managers. A PhD program in FWCE at NMSU will benefit us greatly in this mission.

We look forward to the development of this new PhD program and continued collaborations with the Department of Fish, Wildlife and Conservation Ecology at New Mexico State University.

Sincerely,

Trish Cutler

Trish Cutler
Wildlife Biologist
Conservation Branch
Environmental Division
Directorate of Public Works

CONTACT:
Western Resource Advocates
1401 Walnut Street, Suite 200
Boulder, CO 80302
Phone: 303.444.1188
Fax: 303.786.8054
WesternResourceAdvocates.org

31 May 2025

Dr. Martha Desmond, Department Head
Department of Fish, Wildlife and Conservation Ecology
2980 South Espina Street
New Mexico State University
Las Cruces, NM 88003

Dr. Desmond:

On behalf of Western Resource Advocates (WRA), I am writing to express our strong support for the establishment of a Ph.D. program in Wildlife and Fisheries Ecology at New Mexico State University (NMSU). As an organization committed to protecting the West's land, air, and water to ensure a sustainable future for wildlife and people alike, we recognize the critical need for advanced academic programs that prepare the next generation of scientists, conservationists, and policy leaders.

New Mexico is a state of extraordinary ecological diversity, and NMSU has long been a respected institution for research and education in natural resources. Establishing a Ph.D. program in Wildlife and Fisheries Ecology will not only build upon the university's existing strengths but also address pressing regional and national challenges—from climate-driven habitat shifts and species conservation to land-use change and water scarcity.

This program will play a vital role in training doctoral-level scientists capable of conducting rigorous, solution-oriented research to inform evidence-based conservation strategies. At WRA, we depend on the kind of expertise that such a program would foster—whether through collaborative research, wildlife monitoring, policy analysis, or community engagement. We see tremendous potential for synergy between WRA and NMSU's future doctoral students and faculty in advancing the science and practice of conservation in the Southwest.

We enthusiastically endorse this proposal and urge the university to move forward with the creation of this Ph.D. program. We look forward to opportunities for collaboration and to seeing the program's graduates make meaningful contributions to the field.

Sincerely,

Brittany L Fallon, PhD

Brittany L. Fallon, PhD
Policy Manager, Western Lands

Wildlands Network

P.O. Box 243
Salt Lake City, UT 84110
Tel: 385-229-4849
www.wildlandsnetwork.org

May 30, 2025

Dear Dr. Desmond,

On behalf of Wildlands Network, I am writing to express our enthusiastic support for the establishment of a Ph.D. program in Wildlife and Fisheries Ecology at New Mexico State University. As an organization deeply invested in conservation science and the restoration of ecological connectivity across North America, we recognize the critical need for advanced academic programs that develop the next generation of wildlife ecologists, land managers, and conservation leaders.

Wildlands Network employs a team of **five Ph.D.-level biologists**, each of whom contributes expertise in landscape ecology, conservation biology, wildlife movement and corridor identification, endangered species recovery, and large landscape restoration. These professionals provide the scientific foundation for our efforts to reconnect, restore, and rewild fragmented ecosystems. Our organization was founded on science by such academic luminaries as Michael Soule – the father of Conservation Biology. Consequently, our work and goals were born by scientists, and we continue to have strong collaborations with academic institutions. We have witnessed firsthand the importance of rigorous doctoral training in addressing the complex ecological challenges facing the American Southwest and beyond.

New Mexico State University is strategically positioned to offer such a program, given its proximity to diverse and dynamic ecosystems, as well as its history of ecological research. A Ph.D. program in Wildlife and Fisheries Ecology would not only advance scientific understanding in these fields but also prepare graduates for effective and important careers in conservation science, policy, and education. The program would serve as a vital pipeline for highly skilled professionals capable of addressing regional and global biodiversity challenges.

We fully support the launch of this important academic initiative and look forward to opportunities for collaboration and engagement with NMSU's faculty and future doctoral students.

Sincerely,



Aaron N. Facka, PhD
Senior Wildlife Biologist– Western Program
Farmington New Mexico

Audubon | SOUTHWEST

PO Box 9314
Santa Fe, NM 87504

505.983.4609
sw.audubon.org

May 16, 2025

Dr. Martha Desmond
Department Head
Department of Fish, Wildlife and Conservation Ecology
New Mexico State University
2980 South Espina Street, Knox Hall 132
Las Cruces, NM 88003

Dear Dr. Desmond,

On behalf of the Audubon Southwest, I am writing to express our enthusiastic support for the proposed development of a PhD program in Wildlife and Fisheries Ecology at New Mexico State University (NMSU). As an organization committed to the conservation of wildlife and natural habitats in the southwestern United States, we strongly believe that this program will contribute significantly to the advancement of science and conservation efforts in our region and beyond.

The need for skilled professionals in wildlife and fisheries management has never been greater, as our ecosystems face increasing challenges due to climate change, habitat loss, invasive species, and overexploitation. NMSU's proposed PhD program would not only address these critical issues by producing highly trained ecologists but also serve as a resource for local, state, and federal agencies, as well as nonprofit organizations like ours, that rely on expert guidance for effective conservation planning and decision-making.

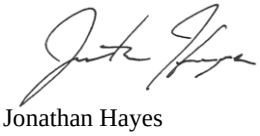
The rich biodiversity of the southwestern United States, including New Mexico's unique landscapes and diverse species, makes this region an ideal setting for cutting-edge research in wildlife ecology. With NMSU's established reputation for academic excellence and established research in wildlife management and conservation, a PhD program in this field would be an important step in strengthening the university's role as a leader in addressing the pressing ecological challenges of our time.

Audubon Southwest is particularly excited about the potential of this program to foster interdisciplinary collaborations between researchers, practitioners, and conservationists. We believe that fostering a new generation of experts in wildlife and fisheries ecology is crucial for ensuring that conservation efforts in our region are grounded in the latest scientific knowledge and informed by real-world ecological needs. Additionally, the opportunity for students in this program to engage in field research and contribute to on-the-ground conservation projects will be invaluable in equipping them with the practical skills necessary to address the complex environmental issues we face.

We look forward to supporting New Mexico State University as it moves forward with the development of this important program and are eager to collaborate with future graduates on initiatives that promote the preservation of wildlife and sustainable ecosystems in the Southwest.

Thank you for your attention to this vital opportunity. Please do not hesitate to contact us if you need further information or support in moving this initiative forward.

Sincerely,



Jonathan Hayes
Executive Director

BAT CONSERVATION INTERNATIONAL

Dr. Martha Desmond, Department Head
Department of Fish, Wildlife and Conservation Ecology
PO Box 30003, MSC 4901
New Mexico State University
Las Cruces, NM 88003

Dear Dr. Desmond, **May 15, 2025**

On behalf of Bat Conservation International (BCI), I am writing to express our strong support for the Ph.D. program in Wildlife and Fisheries Ecology at New Mexico State University. As a science-driven nonprofit dedicated to the conservation of bats and their ecosystems worldwide, we recognize the critical role that advanced academic programs play in shaping the next generation of wildlife ecologists and conservation leaders.

New Mexico State University has long been a vital contributor to research and training in arid-land ecosystems, which are of particular importance to many North American bat species. The Ph.D. program's emphasis on applied ecology, habitat conservation, and human-wildlife interactions aligns closely with BCI's mission and the growing global need for scientifically grounded conservation strategies.

We are particularly impressed by the program's interdisciplinary approach, integration of field-based research, and its commitment to addressing the challenges facing biodiversity in the Southwest and beyond. BCI has collaborated with researchers and graduates from your program in the past, and we have consistently found them to be well-trained, thoughtful, and impactful scientists.

As bat populations continue to face unprecedented threats from habitat loss, climate change, and disease, the need for rigorous ecological research and conservation planning has never been greater. Programs like yours are instrumental in equipping students with the scientific and practical skills necessary to address these urgent challenges.

We commend New Mexico State University for its dedication to excellence in wildlife and fisheries ecology and look forward to continued collaboration in advancing conservation science.

Sincerely,

Winifred F. Frick, Ph.D.
Chief Scientist
Bat Conservation International
email: wfrick@batcon.org
mobile: +1-831-247-3189

Bird Conservancy of the Rockies

Connecting People, Birds and Land

Dear Dr. Desmond, May 28, 2025

On behalf of Bird Conservancy of the Rockies (BCR), I am writing to express our enthusiastic support for the establishment of a Ph.D. program in Wildlife and Fisheries Ecology at New Mexico State University. As an organization committed to the conservation of birds and their habitats through science, education, and land stewardship, we recognize the critical importance of advanced academic programs that prepare future leaders in wildlife and fisheries research and management.

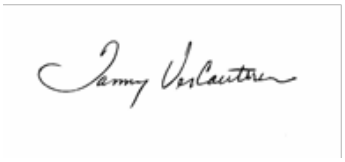
Bird Conservancy of the Rockies employs 10 Ph.D.-level scientists who are actively engaged in applied research, monitoring, social science, environmental education, and conservation efforts throughout the Western United States and beyond. Our work depends on well-trained professionals who can tackle increasingly complex ecological challenges, integrate cutting-edge science into conservation practice, engage diverse stakeholders, and communicate findings effectively to diverse audiences.

A doctoral program at New Mexico State University would serve as a vital pipeline for developing the expertise needed in this field. The region's unique biodiversity, coupled with pressing conservation issues such as habitat fragmentation, climate change, and water scarcity, presents ideal conditions for Ph.D. students to engage in meaningful, solution-oriented research. Moreover, the program would strengthen collaborative opportunities between academic institutions and organizations like BCR, enhancing regional conservation outcomes and advancing scientific understanding.

We value doctoral training not only for the depth of knowledge and critical thinking skills it instills, but also for its role in cultivating the next generation of conservation scientists and leaders. Graduates of such a program will be well-positioned to drive innovation, inform policy, and guide adaptive management strategies in wildlife and fisheries ecology.

Bird Conservancy of the Rockies strongly supports your efforts and is eager to see this Ph.D. program come to fruition. We look forward to opportunities for collaboration with New Mexico State University as you grow this important academic initiative.

Sincerely,



Tammy VerCauteren
Executive Director

BRIGHTON HEADQUARTERS
14500 Lark Bunting Lane
Brighton, CO 80603
(303) 659-4348

FORT COLLINS OFFICE
230 Cherry Street, Suite 150
Fort Collins, CO 80521
(970) 482-1707

NEBRASKA OFFICE
4502 Avenue I
Scottsbluff, NE 69361
(308) 633-1013

www.birdconservancy.org

Pattern Energy Group LP
888 Westheimer, Suite 350
Houston, TX 77006

T +1 713 308 4200
www.patternenergy.com

20 May 2025

Dr. Martha Desmond
Department of Fish, Wildlife and Conservation Ecology
New Mexico State University
MSC 4901
2980 S. Espina St.
Las Cruces, NM 88003

Dear Dr. Desmond,

On behalf of Pattern Energy, I am writing to express our strong support for the proposed Ph.D. program in Wildlife and Fisheries Ecology at New Mexico State University. As a company deeply committed to responsible renewable energy development, we recognize the critical importance of robust ecological research and monitoring—especially in regions like New Mexico, where the intersection of biodiversity and green energy growth presents both opportunities and responsibilities.

Pattern Energy is a leading developer and operator of wind and solar projects across North America, with a significant and growing footprint in New Mexico. Our commitment to environmental stewardship is central to our mission. We understand that sustainable energy development depends not only on generating clean power but also on understanding and minimizing impacts to local ecosystems and wildlife populations.

To that end, ecological monitoring, habitat assessment, and wildlife conservation are integral to how we plan, construct, and operate our projects. We regularly collaborate with academic institutions (including NMSU), wildlife agencies, and conservation organizations to ensure our practices are informed by the latest science and tailored to the unique ecological contexts of our project areas.

The creation of a Ph.D. program in Wildlife and Fisheries Ecology at NMSU would significantly enhance regional capacity to address these critical needs. It would provide advanced training for future scientists and practitioners, generate new knowledge relevant to the sustainable management of New Mexico's natural resources, and position the university as a hub for applied ecological research that aligns with the state's renewable energy goals.

We are particularly enthusiastic about the potential for collaboration between Pattern Energy and NMSU through this program. From field-based research on species responses to renewable infrastructure, to long-term monitoring programs and the development of mitigation strategies,

there is considerable scope for joint efforts that benefit both ecological conservation and energy development.

We applaud your vision for this program and urge its approval and full support. Pattern Energy looks forward to continuing our partnership with NMSU and to supporting the next generation of ecologists and conservation scientists.

Sincerely,

Adam Cernea Clark

Director of Permitting & Policy Strategy



ENVIRONMENTAL & STATISTICAL CONSULTANTS

415 W. 17th Street, Suite 200, Cheyenne, WY 82001
Phone: 307-634-1756 ◆ www.west-inc.com ◆ Fax: 307-637-6981

June 16, 2025

Dr. Martha Desmond
Department Head and Regents Professor
Department of Fish, Wildlife and Conservation Ecology
New Mexico State University
Las Cruces, NM 88003

RE: PhD Program at New Mexico State University

Dear Dr. Desmond,

I was excited to hear about your efforts to establish a PhD program in Conservation Ecology at the New Mexico State University. Western EcoSystems Technology, Inc. (WEST) is an environmental consulting firm that specializes in providing quantitative solutions to the challenges related to natural resources that face our clients in the private sector, state and federal agencies, non-governmental environmental organizations, and society in general. As such, we rely heavily on well-trained quantitative ecologists that can help use scientifically rigorous approaches to assessing the environmental impacts of development as well as advancing plans to restore and protect ecosystems. We currently employ over 60 PhD's with degrees in statistics, ecology, and environmental sciences, as well as hundreds of other professionals with advanced degrees. Together, our project teams tackle many of the major ecological challenges of today and tomorrow. These teams lean on our quantitative PhD scientists to provide strong study design, implementation, and analysis of rigorous project studies that will stand up to scientific, legal, and financial scrutiny.

We appreciate the efforts of New Mexico State University to help develop a new generation of conservation ecologists that can help support our company in New Mexico, the southwest, and throughout the US. Please keep me informed as your Program develops.

Sincerely,



Clayton Derby
CEO

TETRA TECH

June 25, 2025

Dr. Martha Desmond

Department Head

Department of Fish, Wildlife, and Conservation Ecology

New Mexico State University

Las Cruces, NM 88003

Dear Dr. Desmond,

Tetra Tech is pleased to offer its strong support for the development of a PhD program in Wildlife and Fisheries Ecology at New Mexico State University (NMSU). As a global leader in consulting and engineering services, with a robust presence in the Southwestern U.S., we recognize the need for advanced training and research in the ecological sciences—particularly in regions with rapidly changing landscapes and biodiversity challenges.

Tetra Tech employs hundreds of environmental scientists across North America, including PhD-level scientists and subject matter experts in fields ranging from wildlife biology and fisheries ecology to landscape-scale habitat modeling and climate resilience. Our teams are deeply involved in a wide range of wildlife and fisheries-related projects, including:

- Endangered species surveys and habitat assessments;
- Ecosystem restoration and mitigation planning;
- Aquatic biology and water quality monitoring;
- Environmental impact analysis under NEPA and other regulatory frameworks; and
- Long-term ecological monitoring for government and industry clients.

We work closely with federal and state agencies—including the U.S. Fish and Wildlife Service, Bureau of Land Management, and state departments of game and fish—as well as tribal governments and private sector clients. These organizations rely on Tetra Tech to deliver science-based, technically sound solutions for conservation and resource management.

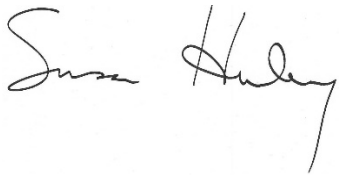
The establishment of a PhD program in Wildlife and Fisheries Ecology at NMSU would significantly enhance the region's capacity to address pressing environmental challenges. It would also help develop the next generation of ecological leaders—scientists who are equipped not only with advanced academic training, but with the applied research skills needed to make tangible, lasting impacts in the field.

Tetra Tech, Inc.
1750 S Harbor Way, Suite 400, Portland, OR 97201
Tel 503.221.8636 Fax 503.227.1287 www.tetratech.com

We believe this program would create valuable opportunities for future collaboration between NMSU and firms like Tetra Tech, and we look forward to engaging with your faculty, students, and graduates as partners in science and stewardship.

Please do not hesitate to reach out if we can provide additional information or support.

Sincerely,



Susan Hurley
Vice President, Tetra Tech Inc.
Susan.hurley@tetratech.com
503-432-5974

Souder, Miller & Associates ♦ 3500 Sedona Hills Parkway ♦ Las Cruces, NM 88011
(575) 647-0799 ♦ (800) 647-0799 ♦ fax (575) 647-0680

Dr. Martha Desmond
Department Head
Department of Fish, Wildlife and Conservation Ecology
New Mexico State University
Las Cruces, NM 88003

June 4, 2025

Dear Dr. Desmond,

On behalf of the Souder, Miller & Associates (SMA) family of companies, I am writing to express our enthusiastic support for the establishment of a Ph.D. program in Wildlife and Fisheries Ecology at New Mexico State University. As a multidisciplinary engineering and environmental consulting firm with almost 40 years of experience across the Southwest, we recognize the critical need for advanced scientific training to address increasingly complex environmental and ecological challenges.

SMA currently employs three Ph.D.-level scientists and technical specialists, including wildlife biologists, ecologists, and engineers. In fact, one of our Ph.D. scientists, Niki Harings received her Ph.D. at NMSU with her Ph.D. advisor in the Department of Fish, Wildlife and Conservation Ecology. Our team works extensively in habitat assessment, threatened and endangered species surveys, wetland delineation, water quality and aquatic ecosystem monitoring, environmental permitting. We are proud to support clients ranging from tribal governments and state agencies to private industry, all of whom depend on sound ecological science to guide sustainable development and resource management.

We see first-hand the growing demand for highly trained wildlife and fisheries professionals who not only understand ecological systems but also possess the research and analytical skills necessary to innovate and lead in this field. A Ph.D. program at NMSU would fill a critical regional gap in advanced ecological education and provide a valuable pipeline of scientific talent for both public and private sectors.

As a New Mexico-based firm, we are committed to supporting educational programs that benefit the communities and ecosystems we serve. We look forward to opportunities for collaboration with NMSU's future Ph.D. candidates and graduates on research, fieldwork, and applied conservation projects throughout the region.

Thank you for your leadership in advancing ecological education in New Mexico. Please do not hesitate to contact us if we can provide further support or input.

Sincerely,

SOUDER, MILLER AND ASSOCIATES

Sonja Jamilla, CEO
Business Development
sonja.jamilla@azuritepc.com
575.323.2148

Jay Vanlandingham, P.E.
Environmental Technical Sector Manager
jay.vanlandingham@soudermiller.com
575.449.2966

Niki Harings, Ph.D.
Senior Scientist, P.M.
niki.harings@soudermiller.com
575.323.8918

Eagle Environmental, Inc.
30 Fonda Road
Santa Fe, NM 87508
505-93-4466
www.eagleenvironmental.net

Date: June 18, 2025

To Whom It May Concern,

I am writing on behalf of Eagle Environmental, Inc. to express our strong support for the establishment and continued development of a PhD program in Wildlife and Fisheries Ecology. As a science-based environmental consulting firm, we recognize the critical need for advanced training and research in these fields to address complex ecological challenges and inform sustainable natural resource management.

Eagle Environmental provides comprehensive environmental consulting services across the United States. Our expertise encompasses environmental assessments, wildlife survey and monitoring, and regulatory compliance for a diverse range of public, private and tribal sector projects.

We currently employ one PhD-level scientist with a specialized background in wildlife biology, raptor research and monitoring, and conservation science. This scientist leads complex ecological studies and contributes to peer-reviewed publications, ensuring scientific excellence across all aspects of our work. This person is a valuable leader to our small team and we value their scientific expertise and guidance.

Our projects frequently involve long-term monitoring of threatened species, wildlife movement corridor analyses, and the development of mitigation and conservation strategies under federal, state and tribal regulations, such as the Bald and Golden Eagle Protection Act.

The skills and training developed in a rigorous PhD program—particularly those focused on applied ecological research, statistical modeling, field-based data collection, and interdisciplinary collaboration—are directly relevant to the type of high-level work we perform. We rely on the contributions of doctoral-level scientists to solve real-world environmental challenges and guide policy decisions with credible science.

We strongly support the development of a PhD program in Wildlife and Fisheries Ecology and believe it will help prepare future leaders in the environmental field. Eagle Environmental is committed to fostering partnerships with academic institutions and mentoring early-career professionals dedicated to advancing conservation science.

Sincerely,
Megan Ruehmann
Wildlife Biologist
Eagle Environmental, Inc.

21 May 2025

Dr. Martha Desmond
Department of Fish, Wildlife and Conservation Ecology
New Mexico State University
Las Cruces, NM 88003

Dear Dr. Desmond,

On behalf of The Wildlife Society, I am writing to express our enthusiastic support for the proposed Ph.D. program in Wildlife and Fisheries Ecology at New Mexico State University. As the international professional organization dedicated to advancing the science and practice of wildlife management and conservation, we recognize the crucial role that academic institutions play in training the next generation of wildlife professionals and researchers.

New Mexico State University has long demonstrated a strong commitment to wildlife science in the southwest and nationally through its established programs, expert faculty, and robust field research opportunities. The creation of a doctoral program in Wildlife and Fisheries Ecology would build upon these strengths and fill a critical regional and national need for advanced training in this field. With only one current PhD program in wildlife ecology in the southwest this proposed program will fill a critical need for students in your area and provide a much-needed pipeline for preparing leaders equipped to address pressing conservation challenges, such as habitat fragmentation, climate change, biodiversity loss, disease ecology, and human-wildlife conflict.

A Ph.D. program at NMSU would offer students unparalleled access to diverse ecosystems ranging from desert to mountain habitats, opportunities for collaborative research with state and federal agencies and non-governmental organizations, and strong mentorship from a faculty deeply engaged in applied and theoretical wildlife science. Together, these elements position NMSU to become a national leader in wildlife and fisheries ecological research and education. Furthermore, this proposed program aligns with NMSU's commitment to elevate research and creativity and build a robust university system, as detailed in *NMSU Leads 2025 Strategic Planning Framework*.

The Wildlife Society stands ready to support this initiative and looks forward to seeing the contributions your future Ph.D. students and graduates will make to the profession. We commend NMSU for its vision and leadership in advancing wildlife education and conservation in the American Southwest and beyond.

Please do not hesitate to contact us if we can provide additional support or resources as this proposal moves forward.

Sincerely,



Edward B. Arnett, Ph.D.
Chief Executive Officer
The Wildlife Society
TWS Fellow and Certified Wildlife Biologist ®
earnett@wildlife.org
www.wildlife.org

American Fisheries Society
425 Barlow Place
Bethesda, MD 20814
301.897.8616
fisheries.org

09 May 2025

Dr. Martha Desmond
Department Head, Fish, Wildlife and Conservation Ecology
2980 South Espina St
New Mexico State University
Las Cruces, NM 88003

Dr. Desmond:

On behalf of the American Fisheries Society (AFS) I am writing to offer our support for the PhD program in Fish and Wildlife Ecology at New Mexico State University. AFS is considered the leading source of fisheries science and management information across North America. Our membership includes almost 7,000 fisheries professionals and students and we host regional chapters and student subunits across North America as well as publishing five prestigious journals and hundreds of books. Our mission is to improve the conservation and sustainability of fishery resources and aquatic ecosystems by advancing fisheries and aquatic science and promoting the development of fisheries professionals. With only one current PhD program in fish and wildlife ecology in the southwest we are delighted to learn about NMSUs efforts to develop a program that would include training PhD level fisheries scientists.

A doctoral program that includes fisheries ecology and management will address the growing need to understand, manage and conserve fisheries in the southwest where dwindling water resources and competing needs for water have placed intensifying demands on our native fish and aquatic ecosystems. Fostering the next generation of fisheries scientists is vital to the mission of AFS to ensure future generations of scientists will have the knowledge and skillsets to tackle emerging challenges to sustainably manage aquatic resources. This is critical for New Mexico where competition from non-native species, habitat degradation due to wildfires and climate change and water scarcity and declining water quality are impacting lakes, streams and rivers.

By investing in the training and mentorship of future generations of fisheries scientists, New Mexico State University will have a role in shaping scientific progress and addressing emerging research and management needs in the southwest. Students graduating with advanced degrees in fisheries ecology and management will have diverse career opportunities that include academia, federal

American Fisheries Society
425 Barlow Place
Bethesda, MD 20814
301.897.8616
fisheries.org

and state agencies, non- profit organizations, and consulting. These future professionals will be responsible for leading research innovation, managing important public resources, and driving policy changes.

The American Fisheries Society supports the development of this needed PhD program in Fish and Wildlife Ecology at New Mexico State University. We urge all involved to take this proposal seriously support it. We look forward to working with the Department of Fish, Wildlife and Conservation Ecology with this PhD program.

Sincerely,

Jeff Kopaska

Jeff Kopaska
Executive Director, American Fisheries Society

National Association of University Fisheries and Wildlife Programs

We represent, strengthen, and advocate for all college and university programs educating fish and management professionals.

21 May 2025

Dr. Martha Desmond
Department of Fish, Wildlife and Conservation Ecology
PO 30003, MSC 4901
New Mexico State University
Las Cruces, NM 88003

Subject: Letter of Support for Proposed Ph.D. Program in Wildlife and Fisheries Ecology at New Mexico State University

Dear Dr. Desmond,

On behalf of the National Association of University Fish and Wildlife Programs (NAUFWP), I am writing to express our strong support for the proposed development of a doctoral program in Wildlife and Fisheries Ecology at New Mexico State University (NMSU).

As a national organization representing over 50 academic institutions with fish and wildlife programs, NAUFWP is deeply committed to advancing higher education, research, and workforce development in wildlife and fisheries sciences. We recognize the urgent need for highly trained scientists and professionals to address the growing complexity of ecological challenges, conservation needs, and sustainable management of natural resources—especially in regions like the American Southwest, where unique ecosystems and resource pressures converge. Despite these complexities, the region currently has only one Ph.D. program in wildlife and fisheries, creating a significant gap in training capacity for advanced research and leadership in this field. Establishing a doctoral program at NMSU will not only help meet the growing demand for highly skilled professionals but will also position the university as a leader in addressing regional conservation and management priorities.

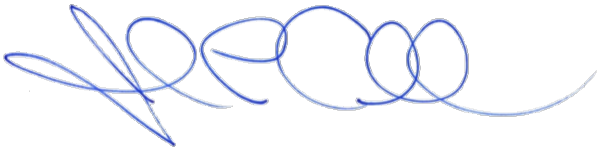
NMSU's Department of Fish, Wildlife and Conservation Ecology has a longstanding reputation for excellence in undergraduate and master's-level training, impactful research, and applied outreach that directly supports state, federal, and tribal conservation efforts. The proposed Ph.D. program is a natural and necessary extension of these strengths. It will not only elevate the research capacity of the institution but also help meet the increasing demand for advanced ecological expertise among state and federal agencies, and NGOs working on conservation issues in arid and semi-arid landscapes.

Moreover, the program's emphasis on applied ecology, quantitative methods, and the integration of traditional ecological knowledge aligns with national and global priorities in biodiversity conservation, climate resilience, and inclusive natural resource stewardship.

We believe the proposed Ph.D. program at NMSU will make a significant contribution to the academic and professional training of future leaders in wildlife and fisheries ecology. NAUFWP fully supports this initiative and encourages its approval and implementation.

Thank you for your consideration.

Sincerely,



Dr. John P Carroll, President
National Association of University Fish and Wildlife Programs
Professor, School of Natural Resources, University of Nebraska

LIBRARY IMPACT STATEMENT - New Program Proposal: PhD in Fish, Wildlife, and Conservation Ecology
LIBRARIAN'S ASSESSMENT
The Collections Coordinator, along with the Department Head of Reference and Research Services, will complete this form as requested, assess library materials and collections as detailed below, and return it.

Program: New Program Proposal PhD Fish, Wildlife and Conservation Ecology
Department, College: ACES
To: Faculty Member: Martha Desmond
Date returned to Faculty: June 16, 2025
From: Librarian Completing Assessment: Elana Karshmer, DH Reference and Research Services
Collection Coordinator: Mariaelena De la Rosa
Through: Katherine Terpis, Associate Dean, and Dean Comerford, NMSU Library
Assessment of:
• Suitability of existing library resources;
• New library resources required to support the program;
• Information skills education required by the students; and
• Funds needed for library materials and services.
Please include:

1. See below for the chart of the NMSU Library's Fish, Wildlife, and Conservation Related Subjects holdings. Total holdings are 58,769. New chart of library holdings, etc.

NMSU Library Holdings for FW&CS-Related Subjects

Division	Category	NMSU Holdings
AGRICULTURE	General – Physics, Ecology, Melioration, Conservation, Education, etc.	17,163
	Plant culture	10,864
	Aquaculture & Fisheries	2,221
	Wildlife Management – Game protection, Wild animal trade, Wildlife-related recreation	695
BIOLOGICAL SCIENCES	Natural History, General – Nature conservation, Geographical location	4,952
	Biology, General – Evolution, Genetics, Reproduction, Life, Ecology and Cytology, Economic biology	9,016
	Botany	7,111
	Zoology, General	3,831
	Fishes	562
	Microbiology	2,354
	TOTAL	**58,769**

Data from OCLC

For this program, 13 databases provide scholarly research content to support the research needs of the students. See the table below.

DATABASE	PROVIDER
All About Birds	Cornell Lab of Ornithology
BioOne	BioOne Digital Library (OA)
Ecology Abstracts	ProQuest
Encyclopedia of Environment and Society	Gale
Environment Abstracts	ProQuest
Environment Complete	EBSCO
Environmental Issues Online	Alexander Street
GreenFILE	EBSCO
HathiTrust	HathiTrust
Pollution Abstracts	ProQuest
Water Resources Abstracts	ProQuest
Wildlife & Ecology Studies Worldwide	EBSCO
Zoological Record	Web of Science

2. NMSU Library provides access to the following core journals (see below) that support the curriculum and the research needs of students and faculty in this program.

Title	Print	Electronic Subscription	Aggregator Subscription	Notes
African Journal of Ecology		Wiley 1997 (vol. 35) - Current		
American Naturalist		University of Chicago Press Journals (Current Content) - 1997 (vol. 150) - 2019 (vol. 194)	Biodiversity Heritage Library - 1867 (vol.1) - 1921 (vol.55); JSTOR Early Journal Content - 1867 (vol. 1) - 1929 (vol. 63); JSTOR Biological Sciences Collection - 1930 (vol. 64) - 2018 (vol. 193)	6 year embargo. Parts of 2020 - 2025 are available Open Access
Animal Behaviour	1958 (vol. 6) - 2003 (vol. 66)	Portico - 2005 (v. 69) - 2020 (v. 170)		Publication Ceased

Animal Conservation		Wiley - 1998 (vol.1) - current		
Avian Conservation and Ecology		DOAJ 2005 (vol.1) - current		Open Access
Biodiversity and Conservation			Energy & Power Source Available from 01/01/2011. Environment Complete Available from 01/01/2011. ProQuest Agricultural & Environmental Science Collection Available from 01/01/1997 volume: 6 issue: 1. Springer Nature - Complete Springer Journals Available from 1997 until 2010.	
Biological Conservation	v.1(1968/1969)-v.114(2003) [bound]	Portico Available from 2005 until 2020		Publication Ceased
BioScience	v.30 (1980) - v.53 (2003)	Oxford University Press Journals Current (2010)	Environment Complete (1964 -); JSTOR Biological Sciences Collection (1964 -); MasterFILE Complete (1964-); Science Reference Center (1964 -); Vocational & Career Collection (1964 -)	Most have 1 year embargo. JSTOR has 4 year embargo.
Canadian Journal of Fisheries and Aquatic Sciences	v.37 (1980) - v.60 (2003)		Academic Search Complete (2001 -); Environment Complete (2001 -); NRC Research Press (1996 - 2010)	
Conservation Biology	v.1 (1987) - v.16 (2002)	Wiley Online Library All Journals (1997 -)	JSTOR Biological Science Collection (1987 -)	JSTOR has 6 year embargo
Conservation Genetics		Springer Nature - Complete Spring Journals (2000 - 2010)	Environment Complete (2011 -);	1 year embargo
Conservation Letters		Wiley Online Library Open Access (2008 -)	Academic Search Ultimate (2008 -); DOAJ (2015 -);	Open Access since 2015
Conservation Physiology				Open Access since v.1 #1 (2013)
Conservation Science and Practice				Open Access since v.1 #1 (2019)
Copeia (Changed name to Ichthyology			Academic Search Ultimate (2011 - 2020; 2021 -); Biodiversity Heritage Library (1913-1917); JSTOR Biological Science	Title change to Ichthyology & herpetology in 2021

and Herpetology)			Collection (1913-1929; 1930-2020; 2021 -); JSTOR Early Content Free (1913-1929)	
Diseases of Aquatic Organisms			Free E-Journals (1985 -)	Open Access from v.1 #1 (1985)
Diversity and Distributions	v.7 (2001) - v.8 (2002)	Wiley Online Library All Journals (1998 -)	Academic Search Ultimate (1999 -); DOAJ (2019 -); Environment Complete (1990 -); JSTOR Biological Sciences Collection (1998 -);	Open Access from 2019
Ecography		Wiley Online Library All Journals (1997 - 2010)	DOAJ (2020 -); JSTOR Biological Science Collection (1992 -);	Open Access since 2020; JSTOR has 8 year embargo
Ecological Applications	v.1 (1991) - v.26 (2016)	Wiley Online Library All Journals (1997 -)	JSTOR A&S I (1991 -); JSTOR Biological Sciences Collection (1991 -)	JSTOR has 3 year embargo
Ecology	v.1 (1920) - v.96 (2015)	Wiley Online Library All Journals (1997 -)	JSTOR A&SI (1920 - 1929; 1930 -); JSTOR Early Journal Content Free (1920_1929)	JSTOR has 3 year embargo
Ecology and Evolution				Open Access from v.1 #1 (2011 -)
Ecology and Society			DOAJ (2004 -); Environment Complete (2006 -); Free E-Journals (2004 -);	Open Access from 2004
Ecosphere				Open Access from v.1 #1 (2010 -)
Ecological Indicators			DOAJ (2021 -)	Open Access from 2021 some Open access before that date.
Ecological Modelling	v.1(1975)-v.170(2003) [bound]	Portico Archive Available from 2005 until 2020.		issues available from 2005-2020
Ecology of Freshwater Fish		Wiley online library all Journals		
Ecology Letters		Wiley online library all Journals	Available from 1998 volume: 1 issue: 1.	
Environmental Microbiology		Wiley online Library Journals	Available frrom 1999 vol. 1 issue 1	
Evolutionary Ecology		Spring Nature - Complete Springer Journals 1997 - 2016	Energy & Power source from 2010; Environment Complete from 2010;	

FEMS Microbiology Ecology			-	Open Access Available from 02/01/1985 volume: 1 issue: 1
Freshwater Biology	v.1(1971)-v.46(2001)	Wiley Online Library All Journals - Available from 1997 until 2010.; Wiley Online Library Database Model 2023 - Available from 1997 volume: 37 issue: 1.		
Freshwater Science			DOAJ Directory of Open Access Journals	open access from 2023
Frontiers in Ecology and the Environment	2009-10, Vol.90		JSTOR Biological Sciences Collection - available from 01/01/1917	
Fundamental and Applied Limnology				Articles only open access
Global Change Biology	Vol. 1, no. 1 (Feb. 1995)-	Wiley online Library		open access
Global Ecology and Conservation			DOAJ Directory of Open Access Jounrals available from 2014	
Herpetologica	v.65(2009)-v.66(2010)			
Herpetological Conservation Biology			Free E-Journals Available from 2006 volume 1 issue 1	
Human Dimensions of Wildlife			Academic Search Ultimate - Available from 01/01/2008; DOAJ Directory of Open Access Journals - Available from 2006; Public Library of Science (PLoS) Journals Open Access - Available from 2006 volume: 1 issue: 1; PubMed Central - Available from 2006 volume: 1 issue: 1.	
Hydrobiologia	v.55(1977)-v.57(1978),v.65(1979)...	Springer Nature - Complete Springer Journals - available from 1997 - 2010	Academic Search Ultimate - Available from 01/01/200; Environment Complete - Available from 01/01/2003;	
Ibis	ser.9:v.1(1907)-ser.9:v.6(1912) ser.10:v.1(1913)-ser.10:v.6(1918) ser.11:v.1(1919)-ser.11:v.6(1924) ser.12:v.1(1925)-ser.12:v.6(1930) ser.13:v.1(1931)-ser.13:v.6(1936)	Wiley Online Library Database Model 2023	DOAJ Directory of Open Access Journals	

	ser.14:v.1(1937)-ser.14:v.6(1942) v.85(1943)-v.144(2002) [BOUND]			
Infection, Genetics and Evolution			DOAJ - Available from 2006.	
Journal of Animal Ecology			JSTOR Arts & Sciences XIV	Available from 07/01/1919 volume: 14 issue: 53 until 04/30/1933 volume: 27
Journal of Applied Ecology		Wiley Online Library All Journals - Available from 1998 - 2010	JSTOR Biological Science Collection - available from 05/01/1964	JSTOR 6 year embargo
Journal of Arid Environments	v.6(1983)-v.55(2003)		Portoco Archive - 2010 - 2020	
Journal of Avian Biology		Wiley Online Library All Journals - Available from 2000	Academic Seaarch Ultimate - available from 03/1998; DOAJ - Available from 2022; Environment Complete - available from 03/1998; JSTOR Biological Sciences Collection Available from 03/1994.	JSTOR embargo 8 years
Journal of Fish and Wildlife Management			Environment Complete - Available from 06/01/ 2011; Free E- Journals - Available from 2010 until 2021; US Government Documents - Available from 2010.	
Journal of Herpetology	v.43(2009)-v.46no.2(2012) [BOUND].		Academic Search Ultimate - available from 12/2010; JSTOR Biological Sciences Collection - Available from 03/1968	JSTOR embargo 4 years
Journal of Mammalogy	v.90(2009)-v.95:no.6(2014) [BOUND]	Oxford University Press Journals Current -Available from 1996	Biodiversity Heritage Library - 1919 - 1922; JSTOR Biological Sciences Collections - 1919 - 1930; JSTOR Early Journal Content Free - 1919 - 1929	
Journal of North American Bat Research	Not Owned			
Journal of Ornithology		Springer Nature - Complete Spring Journals - available from 1997 - 2019	Academic Search Ultimate - available from 2010	Academic Search Ultimate 1 year embargo
Journal of Wildlife Diseases	v.6(1970)-v.55:no.4(2019)-		Free E-Journals available from 1965	Free E-Journals embargo 18 months

Journal of Wildlife Management	Microfilm v.1(1937)-v.24(1960)	Wiley Online Library All Journals	JSTOR Biological Sciences Collection available from 1937	JSTOR embargo 3 years
Journal of Raptor Research	v.20:no.1(1986) - v.21 (1987),v.26(1992)-v.44(2010) [BOUND]		Biodiversity Heritage Library - Available from 1972 - 2005; Academic Search Complete - Available from 2014; Searchable Ornithological Research Archive available from 1967 - 2005	
Landscape Ecology	Doc A 13.82/2:L 22	Springer Nature - Complete Springer Journals Available from 1997 until 2019	Environment Complete - Available from 01/01/2011	
Limnology and Oceanography		Wiley Online Library All Journals - available from 1997	Environment Complete - Available from 05/01/2014; JSTOR Biological Sciences Collection available from 1956	JSTOR embargo 4 years
Mammal Review		Wiley Online Library All Journals - available from 1996	Academic Search Ultimate - available from 03/1998; Environment Complete - available from 1998	Academic Search Complete and Environment Complete embargo 1 year
Mammalian Species		Springer Nature - Complete Springer Journals available from 1997 - 2010		
Methods in Ecology and Evolution		Wiley Online Library All Journals - 2010; Wiley Online Library Open Access - available from 2023	DOAJ - available from 2023; Environment Complete - available from 2012	
Molecular Ecology	v.4(1995)-v.11(2002)	Wiley Online Library All Journals - available from 1997		
Nature Ecology and Evolution			Lexis Nexis Uni - Available from 06/28/2023	
North American Journal of Fisheries Management	v.1(1981)-v.24(2004) [bound]....	Taylor & Francis Journals Complete - Available from 2011 until 2017; Wiley Online Library All Journals - Available from 1996; Wiley Online Library Database Model 2023 - Available from 1997 volume: 17 issue: 1.		
Oecologia		Springer Nature - Complete Springer Journals -Available from 1997 until 2018.	Energy & Power Source - Available from 03/01/2012; Environment Complete - Available from 01/01/2000; JSTOR Biological Sciences Collection - Available from 01/01/1968;	JSTOR embargo 4 years; Energy & Power Source and Environment Complete embargo 1 year
Oikos		Wiley Online Library All Journals - Available from 2000 until 2010; Wiley Online Library Database	JSTOR Biological Sciences Collection - Available from 01/01/1949;	JSTOR embargo 8 years

		Model 2023 - Available from 2000		
Operations Research			Business Source Ultimate - Available from 02/01/1956; Informs - Available from 1998; JSTOR Arts and Sciences IV - Available from 02/01/1956	JSTOR embargo 8 years
Ornithological Applications (The Condor)			Academic Search Ultimate - Available from 01/01/2003 until 10/31/2007; Biodiversity Heritage Library - Available from 1884 until 1885; Environment Complete - Available from 01/01/2003 to 10/31/2007, 01/01/2014 to 07/31/2020; JSTOR Biological Sciences Collection - Available from 01/01/1884 to 10/31/1929, available from 01/01/1930; JSTOR Early Journal Content Free - Available from 01/01/1884 to 10/31/1929; Psychology and Behavioral Sciences Collection - Available from 01/01/2003 until 10/31/2007; SORA Searchable Ornithological Research Archive - Available from 1884	Earlier title : The condor
Ornithology			Environment Complete - available from 2021	Environment Complete embargo 1 year
Oryx		Cambridge University Press Wholly Gold Open Access Journals - available from 2021	DOAJ Directory of Open Access Journals - Available from 2021	
PLoS One			Academic Search Ultimate - Available from 01/01/2008; DOAJ Directory of Open Access Journals - Available from 2006; Public Library of Science (PLoS) Journals Open Access - Available from 2006; PubMed Central - Available from 2006 volume: 1 issue: 1.	
PNAS	Microfilm - 1915 to 1976; East Storage 1920 to 1941, 1943,		Biodiversity Heritage Library - available from 1915 to 1922; JSTOR Early Content Free - available	PubMed embargo 6 months

	1945 to 1970, 1972 to 2003		from 1915 to 1929; PubMed Central - available from 1915	
Population Ecology	v.42(2000)-v.45(2003)	Springer Nature - Complete Springer Journals - Available from 2006 until 2018; Wiley Online Library Database Model 2023 - Available from 1952	Energy & Power Source - Available from 04/01/2000; Environment Complete - Available from 04/01/2000;	Energy & Power and Environment Complete embargos 1 year
Science	Microfilm - 1949 to 1969; MicroFiche - 1970 to 1991; Branson East - 1993 to 1999; CD - ROM Journal - 2001; General Collections - 2000 to 2012;		Academic Search Ultimate - available from 1990; JSTOR Early Journal Content Free - 1880 to 1929; American Association for the Advancement of Science - available from 2010	
Science of the Total Environment				Hybrid with some open access via Elsevier
Southwestern Naturalist	v.1(1956)-v.65:no.1(2020)		Academic Search Ultimate - Available from 12/01/2008; JSTOR Biological Sciences Collection - Available from 01/01/1956;	JSTOR embargo 4 years
Therya			DOAJ Directory of Open Access Journals Available from 2010.	
Transactions of the American Fisheries Society	Microfilm 1902 to 1928; v.59(1929)-v.133(2004)(BOUND)..	Wiley Online Library All Journals - Available from 1996; Wiley Online Library Database Model 2023 - Available from 1997; Taylor & Francis Journals Complete - Available from 2011 until 2017	Biodiversity Heritage Library - available from 1872 - 1923;	
Water Research	1967 to 1973, 1975 to 2003 (BOUND) Microfilm v.8(1974)		Portico Archive Available from 2005 until 2020.	
Western North American Naturalist	2000 - 2021		Academic Search Ultimate - Available from 04/01/2010; Free E-Journals - Available from 2000	Free E-Journals embargo 2 years
Wildlife Biology	1995 - 2005	Wiley Online Library Open Access - Available from 1997	Academic Search Ultimate - Available from 03/01/2010; DOAJ Directory of Open Access Journals - Available from 2014; Free E- Journals - Available from 1995	

Wildlife Society Bulletin		Wiley Online Library Open Access - Available from 2023	DOAJ Directory of Open Access Journals - Available from 2023; Environment Complete - Available from 03/01/2012; JSTOR Biological Sciences Collection - Available from 03/01/2011;	JSTOR embargo 3 years. Earlier title : Journal of wildlife management (Online)

3. What new resources are required to support the program (including media, electronic, or other non-print materials)?

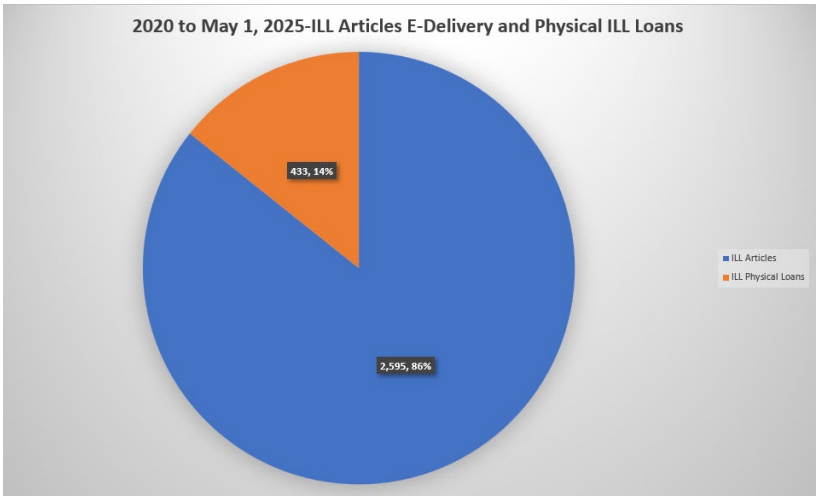
No new resources are indicated to support this new program proposal. Additionally, we offer Information Delivery Services (IDS) that provide access to research content, whether owned by NMSU Library or another library/organization. IDS also offers electronic or home delivery to distance education students and faculty. Stats are provided (see next page) of how we currently support the Fish, Wildlife and Conservation Ecology program. The statistics show that faculty and graduate students utilize these services more than staff and undergraduates.

Stats for Document Delivery & ILL 2020-May 1, 2025

Stats	Faculty	Graduate	PhD	Staff	Undergraduate	Totals
2020 Doc Del	39	24	11	2	8	84
2020 ILL	30	40	11	0	3	84
2021 Doc Del	205	81	55	11	55	407
2021 ILL	255	236	135	48	144	818
2022 Doc Del	193	104	18	10	33	358
2022 ILL	287	305	53	48	61	754
2023 Doc Del	96	74	13	12	27	222
2023 ILL	210	186	70	76	43	585
2024 Doc Del	95	94	31	8	35	263
2024 ILL	160	183	100	26	44	513
2025 Doc Del*	34	63	9	6	3	115
2025 ILL*	67	113	37	38	15	270
Total	1,671	1,503	543	285	471	4,473
* end date of 5/1 for stats reporting for this report.						

From 2020-May 1, 2025

E-delivery of ILL article loans and physical ILL loans
This chart for those in this program reflects the percentage of e-delivery of ILL article loans (86%) and the smaller percentage of physical ILL loans (14%).



4. What information mastery sessions will be required for the students?

Faculty members teaching in this program may submit requests for information literacy sessions to be held by a faculty librarian. The primary libguide for Fish, Wildlife, and Conservation Ecology has usage from 2020 to present, with a total of 468.

5. No new resources are indicated for this new program proposal. For additional resources, faculty in this department may suggest purchasing new materials that will support the program. When funds allow, larger purchase proposals can be submitted to the library's collection development team.

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # G-4

☒ Action Item
☐ Consent Item
☐ Informational Item

Presented By: Kim Rumford, Chief Budget Officer
Shelley Lusetti, Academic Department Head
Lisa Osborne, Operations Manger

Agenda Item:

Chemistry Course Fee Request

Requested Action of the Board of Regents:

Approval of Chemistry Course Fee increase request

Executive Summary:

Requesting an increase from $5 per SCH ($20 per course) to $10 per SCH ($40 per course) for CHEM 1215G and CHEM 1120G to cover the costs associated with teaching the course and ensuring student safety. Effective Fall 2026.

Subject to report back to Regents Financial Strategies, Performance and Budget Committee on the issue of how to address the issue of students who take the class more than once and do not need additional safety equipment.

References:

N/A

Prior Approvals:

Provost 08/18/2025
University System Budget Committee 08/22/2025
President
Regents Financial Strategies, Performance and Budget Committee 09/09/2025

Course Fee Discussion
CHEM 1120 and CHEM1215

Lisa Osborne, Operations Manager
Shelley Lusetti, Academic Department Head

College of Arts & Sciences Department of Chemistry and Biochemistry



BE BOLD. Shape the Future.®
New Mexico State University

Request for Increase of Course Fees

- **Gen Chem I** 1215G (for STEM majors)
- **Intro to Chem** 1120G (for non-majors)

- Increase from $5 per SCH to $10 per SCH ($20 to $40)

Reason for request:

- Increase in the cost of the lab coats
- The requirement has changed to 100% cotton lab coats
  - Polyester tends to melt, and flames spread
  - Department's commitment to higher safety standards

CHEM 1120: Labs & Demos – Cost Analysis of Chemicals & Supplies

Lab 1: Basic Laboratory Techniques	Price per units	Units per Pric	Total units use	Total costs	Total cost of Lab
Liquid – water yellow food color (liters)	$ -	0	2	$ -	
Aluminum, pellets (grams)	$ 13.36	500	0	$ -	
Aluminum, foil, (box of sq. ft.)	$ 12.00	200	6	$ 0.36	
Sugar, table sugar (grams)	$ 3.00	1814	200	$ 0.33	$ 0.69
Lab 2: Chemical and Physical Properties					
Set of 8 elements in glass vials for observation (not opened)					
Iron, Nickel, Sulfur, Tin, Arsenic, Copper, Carbon, Silicon					
Iodine,(grams)	$ 232.18	500	1	$ 0.46	
Magnesium ribbon (cm)	$ 113.00	1390	5	$ 0.41	
Mineral oil, (ml)	$ 11.85	473	250	$ 6.26	
Copper II chloride, dihydrate (grams)	$ 29.85	500	45	$ 2.69	
Aluminum, foil, (box of sq. ft.)	$ 12.00	200	6	$ 0.36	
Copper wire, (22ga) (meters)	$ 10.70	50	0.3	$ 0.06	
Zinc (granular) (grams)	$ 36.61	500	45	$ 3.29	
Silver nitrate (grams)	$ 261.37	100	4	$ 10.45	
Lead II Nitrate (grams)	$ 65.65	500	8	$ 1.05	
Potassium Iodide (grams)	$ 239.00	500	4	$ 1.91	
Hydrochloric acid (ml conc.)	$ 15.20	500	125	$ 3.80	
Food color (commercial) (ml)	$ 4.74	473	7	$ 0.07	
ICE	$ -	0	20	$ -	$ 30.83
Lab 3: Qualitative Analysis- Na^+, K^+, NH^{4+}, Ag^+, Cu^{2+}, Bi^{3+}					
Calcium oxide (grams)	$ 13.67	500	50	$ 1.37	
Ammonium carbonate (grams)	$ 30.54	500	50	$ 3.05	
Conc. Ammonium Hydroxide (grams)	$ 19.12	500	276	$ 10.55	
Conc. Nitric Acid (ml conc.)	$ 18.75	500	76	$ 2.85	
Conc. Hydrochloric Acid (ml conc.)	$ 13.90	500	100	$ 2.78	
Conc. Acetic Acid (ml conc.)	$ 22.43	500	69	$ 3.10	
32% Sodium Hydroxide (ml)	$ 30.80	500	50	$ 3.08	
Tin (II) chloride dihydrate (grams)	$ 78.00	500	4.6	$ 0.72	
Sodium Chloride (grams)	$ 5.23	1814	2.4	$ 0.01	
Potassium Chloride (grams)	$ 35.05	500	3	$ 0.21	
Potassium Ferrocyanide trihydrate (grams)	$ 59.16	500	17	$ 2.01	
Copper II nitrate hemi-pentahydrate (grams)	$ 58.83	500	53	$ 6.24	
Ammonium nitrate (grams)	$ 37.13	500	18	$ 1.34	

CHEM 1215 – Cost Analysis of Chemicals & Supplies

Exp. 1: Basic Lab Techniques	Price per units	Units per Price	Total units used	Total costs	Total cost of Lab
Liquid – water yellow food color (liters)	$0	1	7	$0	
Aluminum, pellets, Resused (grams)	$16.45	500	0	0	
Aluminum, foil, (box sq.ft.)	$10.80	200	25	1.35	
Sugar, table sugar, (grams)	$2.84	1814	1200	$1.88	$ 3.23
Exp. 2: Chemical & Physical Properties					
Set of 8 elements in glass vials for observation (not opened)					
Iron, Nickel, Sulfur, Tin, Arsenic, Copper, Carbon, Silicon					
Iodine (grams)	$232.18	500	4	$ 1.86	
Magnesium ribbon (cm)	$113.00	1390	20	$ 1.63	
Mineral oil (ml)	$11.85	473	1000	$ 25.05	
Copper II chloride, dihydrate (grams)	$29.58	500	175	$ 10.35	
Aluminum, foil, (box sq.ft.)	$10.80	200	25	$ 1.35	
Copper wire, 22ga, (meters)	$10.70	50	1.2	$ 0.26	
Zinc (granular), (grams)	$36.61	500	175	$ 12.81	
Silver nitrate, (grams	$261.37	100	17	$ 44.43	
Lead II Nitrate, (grams)	$65.65	500	33	$ 4.33	
Potassium Iodide, (grams)	$239.00	500	16	$ 7.65	
Hydrochloric acid, (ml conc.)	$15.20	500	500	$ 15.20	
Food color (commercial), (ml)	$4.74	473	30	$ 0.30	
ICE (buckets)	$0	1	20	$ -	$ 125.22
Exp. 3: Chemistry in Everyday Life					
Ammonium Carbonate (grams)	$42.07	500	0	$ -	
Sodium Iodide, (grams)	$119.03	500	200	$ 47.61	
conc. Sulfuric Acid, (ml conc.)	$19.50	500	1000	$ 39.00	
Hydrochloric acid (ml conc.)	$13.90	500	170	$ 4.73	
32% Sodium Hydroxide (ml)	$30.80	500	280	$ 17.25	
Nitric Acid, (ml conc.)	$18.75	500	200	$ 7.50	
Barium Hydroxide (grams)	$36.55	500	40	$ 2.92	

Lab Coats and Goggles

- Fall of 2024
  - Each student receives a lab coat and goggles
  - **Required** in every teaching lab
  - Prior to this adjustment, the student paid after enrollment
  - Course fees can be included in financial aid

Chem 1215 and Chem 1120



- 4 credit hour classes
- Classes and labs are separate meeting times, but the final grade is a combined grade for passing the course.
- Independent classes; the classes are not sequential. Students would not be subjected to 2 separate course fees; after taking one, they would not take the other.

Chem 1215 and Chem 1120 and beyond

- The lab coats and goggles belong to the student
- In case of financial hardship, follow university policy
- UNM's course fees for Gen Chem I- $85.00



Student Success and Retention

- POGIL – Training for all TAs and 12 Faculty
  - Grant for training
- Added Recitation to Gen Chem 1 and Gen Chem II
- Student Advising
- Added an intro to the intro class

Questions?

Chemistry Course Fee Justification

Shelley Lusetti, PhD, Department Head
Lisa Osborne, Operation Manager
Department of Chemistry and Biochemistry
August 25, 2025

The department of Chemistry and Biochemistry is asking for an increase in course fees.

- Chemistry 1215G – increase from $5per SCH to $10 per SCH
- Chemistry 1120G – increase from $5per SCH to $10 per SCH

The department has reassessed the cost of lab coats that are required for the lab portions for both **Gen Chem I, Chem 1215G** and **Introduction to Chemistry Chem 1120G**. This increase would apply to every incoming student taking either Gen Chem I (for STEM majors) or Introduction to Chemistry (for non-majors).
The last increase in 2023, was to add a lab coat and goggles, to be included for each student in their course fees. That increase was assessed using pricing for a lab coat of polyester blend. The department has since been required to use 100% cotton lab coats, which have increased the cost. The 100% cotton is resistant to flames and flare ups and more resistant to chemicals. Polyester blends tend to melt, and flames spread quickly.

The fees were calculated by evaluating the cost of each lab class and then dividing by the number of students. The lab coats at $35.03 and goggles at $1.79, were added to the cost of lab supplies equaling $39.10 (1215G) and $39.06 for (1120G). These numbers were rounded up to $40.00 per class or $10 per SCH.

To Note:

- Chem 1215 and Chem 1120 are 4 credit classes; class and labs are separate classes but he final grade is a combined grade for passing the course.
- Chem 1215G and Chem 1120G are independent classes; the classes are not sequential. Students would not be subjected to 2 separate course fees, after taking one they would not then take the other.
- Lab coats and goggles are <u>required</u> for lab classes. If not included in course fees, the student would purchase after enrollment.
    - This led to IOUs and holds and the end of the semester.
- Course fees are eligible to be included in financial aid, therefore, there is no out of pocket expense at the start of the semester.
    - The students appreciate receiving them.
- The coats and goggles belong to the student for use in future classes.
- In case of financial hardship, the department would comply with the universities policies on fee waivers, but lab coast and goggle will still be required to be used in labs.
- UNMs course fees, for similar courses are, $70.00 per class.
- If a student loses their lab coat or goggles, there are used coats and goggle at a reduced cost.

Budget Office
MSC 3AA
New Mexico State University
P.O. Box 30001
Las Cruces, NM 88003-8001
575-646-2431, budget@nmsu.edu

Request for Course Fees

Date:	04-09-2025	Requesting Department:	Chemistry and Biochemistry
College:	Arts And Sciences	Contact Name & Phone Number:	Lisa Osborne 575 646-2506
Requested Effective Semester	Spring 2026	Course Prefix & Number	CHEM 1120
Course Name	Introduction to Chemistry	No. of Credit Hours	4

Amount Requested 40.0 ☑ Per Course ☐ Per Credit Hour (If multiple courses, attach summary.)

Please Forward to Next Reviewer/Approver.

Submitted By:	*Date of Approval*	*Comments:*
Shelley Lusetti Digitally signed by Shelley Lusetti Date: 2025.04.09 14:12:45 -06'00' **Department Head**	Date	
Dean, College	Date	LC LC

Review-Budget Office	*Date of Review*	*Comments*
Kim Rumford **Chief Budget Office**	8/15/2025 Date	Reviewed by Budget Office

☒ **Forward to Provost for Approval** ☐ **Forward to University System Budget Committee Approval**

Approval – Provost & Chief Academic Officer	*Date of Approval*	*Comments:*
Lakshmi Reddi **Provost & Chief Academic Officer**	8/18/25 Date	Approved

Approval – University System Budget Committee	*Date of Approval*	*Comments:*
Meeting Date: 8/22/2025 Voting Results: X yes ____No	8/22/2025 Date	Approved

Please attach detailed request to include:

- Justification
- Itemized Costs
- Average number of students enrolled in course
- A copy of the syllabus when possible

Course Fee Request CHEM 1120 SP26 04-09-2025

Final Audit Report 2025-04-15

Created:	2025-04-09
By:	Lisa Osborne (lisaosbo@nmsu.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAyKGVZ_HyGKfTJHZl3dLxTHnz66VH9CU5

"Course Fee Request CHEM 1120 SP26 04-09-2025" History

Document created by Lisa Osborne (lisaosbo@nmsu.edu)
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Signer asdeansapproval@nmsu.edu entered name at signing as Lucille Casas
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Signature Date: 2025-04-15 - 3:15:32 AM GMT - Time Source: server- IP address: 76.127.39.245

Agreement completed.
2025-04-15 - 3:15:32 AM GMT

Adobe Acrobat Sign

Chemistry Course Fee Increase Justification

- The Chemistry Department did an analysis of the costs of consumables required for each of the first-year chemistry labs and calculated cost per student, see attached itemized list. These number were assembled in March 2025.
- Fall of 2023, the department started suppling each new student a lab coat and a pair of goggles to be used in the lab. The cost of lab coats has increased significantly, from $13.49 to $35.03 each. Lab coats are required for chemistry labs. In the past, students were required to purchase lab coats from the stockroom, the bookstore or other sources. This resulted in students requiring having a cash or check to pay for the coat if purchasing from the stockroom. Many students did not have cash or checks, and this resulted in IOUs at the end of each semester. The owed money put a hold on any unpaid balance resulting in obstacles in enrollment.
- Each student having a lab coat and goggles has increased safety in the labs.
- Students have retained their lab coats for their next chemistry course.

Chemistry Lab Cost Analysis – Summary

Enrollment:

CHEM 1120		**CHEM 1215**	
Summer 2024 =	online	Summer 2024 =	25
Fall 2024 =	188	Fall 2024 =	547
Spring 2025 =	111	Spring 2025 =	376
Total =	**299**	**Total =**	**948**

CHEM 1120

Consumable Chemicals and Supplies per year:	$2.24
Lab coats and Goggles:	$36.82
Lab cost per CHEM 1120 student:	$39.06

CHEM 1215

Consumable Chemicals and Supplies per year/student:	$2.28
Lab coats and Goggles:	$36.82
Lab cost per CHEM 1215 student:	$39.10

CHEM 1120: Labs & Demos – Cost Analysis of Chemicals & Supplies

Lab 1: Basic Laboratory Techniques	Price per units	Units per Pric	Total units use	Total costs	Total cost of Lab
Liquid – water yellow food color (liters)	$ -	0	2	$ -	
Aluminum, pellets (grams)	$ 13.36	500	0	$ -	
Aluminum, foil, (box of sq. ft.)	$ 12.00	200	6	$ 0.36	
Sugar, table sugar (grams)	$ 3.00	1814	200	$ 0.33	$ 0.69
Lab 2: Chemical and Physical Properties					
Set of 8 elements in glass vials for observation (not opened) Iron, Nickel, Sulfur, Tin, Arsenic, Copper, Carbon, Silicon Iodine,(grams)	$ 232.18	500	1	$ 0.46	
Magnesium ribbon (cm)	$ 113.00	1390	5	$ 0.41	
Mineral oil, (ml)	$ 11.85	473	250	$ 6.26	
Copper II chloride, dihydrate (grams)	$ 29.85	500	45	$ 2.69	
Aluminum, foil, (box of sq. ft.)	$ 12.00	200	6	$ 0.36	
Copper wire, (22ga) (meters)	$ 10.70	50	0.3	$ 0.06	
Zinc (granular) (grams)	$ 36.61	500	45	$ 3.29	
Silver nitrate (grams)	$ 261.37	100	4	$ 10.45	
Lead II Nitrate (grams)	$ 65.65	500	8	$ 1.05	
Potassium Iodide (grams)	$ 239.00	500	4	$ 1.91	
Hydrochloric acid (ml conc.)	$ 15.20	500	125	$ 3.80	
Food color (commercial) (ml)	$ 4.74	473	7	$ 0.07	
ICE	$ -	0	20	$ -	$ 30.83
Lab 3: Qualitative Analysis- Na^+, K^+, NH^{4+}, Ag^+, Cu^{2+}, Bi^{3+}					
Calcium oxide (grams)	$ 13.67	500	50	$ 1.37	
Ammonium carbonate (grams)	$ 30.54	500	50	$ 3.05	
Conc. Ammonium Hydroxide (grams)	$ 19.12	500	276	$ 10.55	
Conc. Nitric Acid (ml conc.)	$ 18.75	500	76	$ 2.85	
Conc. Hydrochloric Acid (ml conc.)	$ 13.90	500	100	$ 2.78	
Conc. Acetic Acid (ml conc.)	$ 22.43	500	69	$ 3.10	
32% Sodium Hydroxide (ml)	$ 30.80	500	50	$ 3.08	
Tin (II) chloride dihydrate (grams)	$ 78.00	500	4.6	$ 0.72	
Sodium Chloride (grams)	$ 5.23	1814	2.4	$ 0.01	
Potassium Chloride (grams)	$ 35.05	500	3	$ 0.21	
Potassium Ferrocyanide trihydrate (grams)	$ 59.16	500	17	$ 2.01	
Copper II nitrate hemi-pentahydrate (grams)	$ 58.83	500	53	$ 6.24	
Ammonium nitrate (grams)	$ 37.13	500	18	$ 1.34	

Sodium nitrate (grams)	$	33.95	500	20	$	1.36		
Potassium nitrate (grams)	$	41.30	500	25	$	2.07		
Silver nitrate (grams)	$	261.37	100	39	$	101.93	$	142.66
Lab 4: Types of Chemical Reactions								
Zinc, pieces (pieces)	$	18.00	288	25	$	1.56		
Magnesium, turnings (grams)	$	63.00	500	22	$	2.77		
Magnesium, ribbon (cm)	$	113.00	1390	150	$	12.19		
Potassium Iodide (grams)	$	293.00	500	22	$	12.89		
Calcium, turnings (grams)	$	289.00	500	22	$	12.72		
Copper Sulfate pentahydrate (grams)	$	25.27	500	100	$	5.05		
Sodium Bicarbonate (grams)	$	11.13	500	100	$	2.23		
Lead Nitrate (grams)	$	65.65	500	8	$	1.05		
Potassium Iodide (grams)	$	293.00	500	6	$	3.52		
Hydrochloric Acid (ml conc.)	$	13.90	500	750	$	20.85		
Wood splints (box)	$	8.98	1	0.5	$	4.49	$	79.32
Lab 5: Soluble and Insoluble Salts								
Sodium Carbonate (grams)	$	55.40	500	3	$	0.33		
Sodium Chloride (grams)	$	1.86	1814	1.5	$	0.00		
32% Sodium Hydroxide (ml)	$	30.80	500	2.5	$	0.15		
Sodium Nitrate (grams)	$	33.95	500	2	$	0.14		
Sodium Phosphate tribasic dodecahydrate (grams)	$	19.38	500	10	$	0.39		
Sodium Sulfate anhydrous (grams)	$	29.00	500	3	$	0.17		
Potassium Nitrate (grams)	$	41.30	500	2.5	$	0.21		
Calcium Nitrate tetrahydrate (grams)	$	25.10	500	6	$	0.30		
Barium Nitrate (grams)	$	27.70	500	7	$	0.39		
Aluminum Nitrate nonahydrate (grams)	$	83.00	500	10	$	1.66		
Silver Nitrate (grams)	$	261.37	100	6	$	15.68		
Copper II Nitrate hemi-pentahydrate (grams)	$	58.83	500	5	$	0.59		
Lead II Nitrate (grams)	$	65.65	500	8	$	1.05		
Iron II Chloride tetrahydrate (grams)	$	83.90	500	5	$	0.84		
Well plates (packs)	$	96.75	50	3	$	5.81	$	27.71
Lab 6: Ideal Gas Law								
Magnesium, ribbon, (cm)	$	113.00	1390	150	$	12.19		
Copper, wire (22 ga.)(meters)	$	10.70	50	10	$	2.14		
Hydrochloric Acid (ml conc.)	$	13.90	500	1.5	$	0.04		

Sand paper (sheets)	$	6.74	6	2	$	2.25	$	16.62
Demo 1: Separation by Distillation								
Cyclohexane & Toluene, 50% mixture (reused) (ml)	$	-	0	0	$	-	$	-
Demo 2: Separating Components of a Mixture								
50% Sodium chloride (Table Salt) (grams)	$	5.23	1814	10	$	0.03		
25% Ammonium chloride (grams)	$	39.07	500	5	$	0.39		
25% Silicon Dioxide (Quartz Sand) (grams)	$	73.70	500	5	$	0.74	$	1.16
Demo 3: Compounds and their Bonds								
Chemicals for observation only (reused and not consumed):								
Sodium chloride (rock salt) (grams)	$	1.92	1814	0	$	-		
Potassium carbonate (grams)	$	32.00	500	0	$	-		
Iron III chloride (anhydrous) (grams)	$	19.00	500	0	$	-		
Water	$	-	0	0	$	-	$	-
Demo 4: Chemical Reactions and Equations								
Magnesium ribbon (cm)	$	113.00	1390	10	$	0.81		
Zinc mossy (grams)	$	32.00	500	20	$	1.28		
Copper beads (grams)	$	82.00	500	10	$	1.64		
Sodium carbonate (grams)	$	55.40	500	20	$	2.22		
Conc. Hydrochloric acid (ml conc.)	$	13.90	500	4	$	0.11		
Copper sulfate pentahydrate (grams)	$	25.27	500	1	$	0.05		
Calcium chloride (grams)	$	42.15	500	1	$	0.08		
Sodium phosphate (grams)	$	35.70	500	1	$	0.07		
Iron III chloride tetrahydrate (grams)	$	83.90	500	1	$	0.17		
Potassium thiocyanate (grams)	$	65.96	500	1	$	0.13		
Potassium iodide (grams)	$	293.00	500	1	$	0.59		
3% Hydrogen peroxide (ml)	$	1.00	946	30	$	0.03	$	7.18
Demo 5: Acid/Base Titration, Buffers, and pH								
Conc. Hydrochloric acid (ml conc.)	$	13.90	500	15	$	0.42		
32% Sodium hydroxide (ml conc.)	$	30.80	500	1.8	$	0.11		
Sodium chloride (grams)	$	5.23	1814	1.2	$	0.00		
Conc. Acetic acid (ml conc.)	$	22.43	500	0.6	$	0.03		
Sodium acetate trihydrate (grams)	$	51.10	500	0.9	$	0.09		

Conc. Ammonium hydroxide (ml conc.)	$	19.12	500	0.7	$	0.03		
Ammonium chloride (grams)	$	23.00	500	0.6	$	0.03		
Phenolphthalein Indicator (grams)	$	35.60	100	0.1	$	0.04		
Vinegar (liters)	$	19.00	3.8	0.1	$	0.50		
Window cleaner (liters)	$	2.96	1.9	0.02	$	0.03		
Shampoo (liters)	$	2.29	1	0.02	$	0.05		
Hair conditioner (liters)	$	5.98	1	0.02	$	0.12		
Detergent (ml)	$	5.44	435	20	$	0.25		
Mouth wash (liters)	$	5.94	1.5	0.02	$	0.08		
Tums (tablets)	$	4.28	160	8	$	0.21		
Aspirin (tablets)	$	0.98	100	8	$	0.08	$	2.06
Demo 6: Oxidation-Reduction Reactions								
Zinc nitrate hexahydrate (grams)	$	29.85	500	1	$	0.06		
Copper II sulfate pentahydrate (grams)	$	25.27	500	1	$	0.05		
Bromine (grams)	$	77.65	100	1	$	0.78		
Iodine (grams)	$	243.83	500	1	$	0.49		
Methanol (liters)	$	140.00	4	0.05	$	1.75		
Sodium Bromide (grams)	$	62.50	500	1	$	0.13		
Sodium Iodide (grams)	$	119.03	500	1	$	0.24		
Tin, metal (grams)	$	68.00	500	5	$	0.68		
Zinc mossy (grams)	$	32.00	500	5	$	0.32		
Magnesium ribbon (grams)	$	12.00	25	1	$	0.48		
Copper beads (grams)	$	82.00	500	5	$	0.82		
Hydrochloric Acid (ml conc.)	$	13.90	500	25	$	0.70		
Hexanes (liters)	$	170.00	4	0.05	$	2.13		
Potassium (grams)	$	145.00	50	5	$	14.50		
Sodium (grams)	$	59.00	100	5	$	2.95		
Calcium (grams)	$	53.00	500	5	$	0.53		
Phenolphthalein Indicator (grams)	$	35.60	100	0.1	$	0.04		
Sandpaper (sheets)	$	6.74	6	0.5	$	0.56	$	27.18

			Enrollment	Cost/Student
GRAND TOTAL				
semester cost	$	335.41		
yearly cost	$	670.82	299	$2.24
Lab Coats				$35.03
Safety Goggles				$1.79
				$39.06

Course Syllabus

Edit

NOTICE TO STUDENTS

This document and the information contained in the Student Support and Institutional Information Syllabus Supplement (https://dacc.nmsu.edu/student-services/student-resources/syllabus/) comprises the course syllabus. You are responsible for both the content in this document as well as the content in the associated web links.

No Use of Generative AI Permitted

This course assumes that all work submitted by students will be generated by students themselves, working individually or in groups. Students should not have another person/entity do the writing of any substantive portion of an assignment for them, which includes hiring a person or a company to write assignments and using AI tools.

Department of Chemistry and Biochemistry

CHEM, 1120G, Section M01, Introduction to Chemistry (Lec + Lab)
4 Credits, Spring, 2025

This course is an In Person course and attendance will be taken for course credit. The lectures are Tuesday and Thursday, 10:30-11:45 AM, CB Rm 153

Instructor Information

Dr. Barbara Lyons
Canvas email (preferred) or blyons@nmsu.edu (mailto:subdeep3@nmsu.edu)
Phone number: 575-636-4072. This is my cell number. Please be courteous and only call me when it is an emergency. You can text too. If you text don't forget to identify yourself and tell me which class are in!
Office: CB W296.

Office hours: Two office hours are scheduled per week: Tuesday 2:00-3:00 pm, and Thursday 2:00-3:00 pm (subject to change based upon what the dept does to my schedule!). They are in my office Chemistry W296 and you can drop in as you like. There is a third meeting called "study session" that will meet in CB Rm 110 every Wednesday from 2:00-3:30 pm. This is open to anyone in the class and is a relaxed and friendly tutoring atmosphere.

Course Description

This course surveys the properties and uses of the elements and their compounds. In addition to classical chemistry, attention is paid to the materials from which consumer products are made, to the production of energy, and to environmental considerations.

Prerequisites

MATH 1215 or higher.

Course Delivery Method

This is an in person course. The course is flexible with 8 modules paced throughout the 15-week duration. It is crucial to complete the given module on time to be able to do well on the quizzes and exams. Students are expected to **learn from the e-text, power-points (lectures), pdf files, videos,**

simulations (if available), and dynamic module assignments (if available) before taking quizzes, exams and final exams.

Course Organization

This course is divided into 8 modules- each module contains module objectives, instructional videos, power-points and pdf files. The E-text (which is your textbook) is found under Module 0. However, I believe to access it you need to have paid for an access code (available when you pay for the course).

The "assignment" tab shows you all the assignments with the due dates and grade points.

Mid term Exams and the Final Exam

All three midterm tests and the Final Exam will take place in person at our regularly scheduled lecture time, in CB Rm 153. See farther in the syllabus for the exact dates.

General Education Essential Outcomes

All "G" (general education) courses are required to include instruction and evaluation of a variety of essential skills. There are three such skills associated with this course: All NMSU System courses have now been certified under the new model and should be taught in accordance with the state's essential skills criteria.)

- Quantitative Reasoning: Communication/Representation of Quantitative Information; Analysis of Quantitative Arguments; Application of Quantitative Models
- Critical Thinking: Problem Setting; Evidence Acquisition; Evidence Evaluation; Reasoning/ Conclusion
- Personal and Social Responsibility: Intercultural Reasoning and Intercultural Competence; Sustainability and the natural human worlds; Ethical reasoning; Collaboration skills, teamwork, and value systems; Civic discourse, civic knowledge, and engagement – local and global

Program Goals

1. Apply the scientific method of constructing and testing hypotheses leading to newer understanding in the discipline
2. Identify assumptions within a given context and be able to predict outcome through data analysis
3. Solve problems with existing protocols and/or be able to devise alternative procedures to complete a lab or design an experiment independently.
4. Obtain, interpret and analyze numerical information using appropriate tables, diagrams, and algorithms
5. Apply discipline-specific knowledge to solve human problems in real world
6. Effectively communicate knowledge in a way that is understandable to the general population.
7. Develop competency in conveying discipline-specific knowledge through laboratory reports and/or written assignments following proper APA documentation style.
8. Develop ethical arguments in science in favor of greater good through the discussion of pros and cons of advances resulting from newer scientific discoveries and inventions
9. Develop competence in appropriate scientific laboratory techniques
10. Work cooperatively in groups or teams to fulfill course objectives

Course Objectives

1. Apply conversion factors to different measurement systems
2. Recognize the organization of periodic table
3. Describe the basic structure of an atom as a fundamental unit of matter
4. Examine the nuclear changes
5. Distinguish between ionic and covalent compounds

6. Interpret the chemical reactions including energy changes
7. Perform the gas laws calculations
8. Interpret the acid-base concept as applied to solutions
9. Give examples of organic functional groups including their reactions
10. Examine the differences of the major bio-chemicals (carbohydrates, proteins, lipids and nucleic acid)
11. Prepare lab reports on the experiments conducted, using scientific methods, and applying the concepts learned in class

Learning outcomes

1. (Lecture) Use the different systems of measurements and perform conversions within the same system of measurement and between different systems of measurements
2. (Lecture) Identify elements from their name or symbol, use the periodic table to describe reactivity patterns of elements and to predict compound formation.
3. (Lecture) Describe the basic structure of an atom using subatomic particles, and apply these concepts to nuclear reactions.
4. (Lecture) Describe ion formation and the difference between covalent and ionic compounds. Name and write formulas for ionic and simple molecular compounds.
5. (Lecture) Write and balance chemical reactions. Use balanced reactions in stoichiometric calculations.
6. (Lecture) Describe the differences between the solid, liquid and gas phases. Use the gas laws in calculations, and apply these laws to everyday situations.
7. (Lecture) Explain different types of energy, and how energy is released or absorbed in a reaction
8. (Lecture) Describe acid and base behavior.
9. (Lecture) Explain the intermolecular attractive forces that determine physical properties; apply this knowledge to qualitatively evaluate these forces and predict the physical properties that result.
10. (Laboratory) Practice concepts associated with laboratory safety, including the possible consequences of not adhering to appropriate safety guidelines.
11. (Laboratory) Demonstrate the computational skills needed to perform appropriate laboratory-related calculations to include, but not be limited to determining the number of significant figures in numerical value, solving problems using values represented in exponential notation, solving dimensional analysis problems, and manipulating mathematical formulas as needed to determine the value of a variable.
12. (Laboratory) Perform laboratory observations (both qualitative and quantitative) using sensory experience and appropriate measurement instrumentation (both analog and digital).
13. (Laboratory) Record quantitatively measured values to the correct number of significant figures and assign the correct units.
14. (Laboratory) Master basic laboratory techniques including, but not limited to weighing samples (liquid and solid), determining sample volumes, measuring the temperature of samples, heating and cooling a sample or reaction mixture, decantation, filtration, and titration.
15. (Laboratory) Draw appropriate conclusions based on data and analyses.
16. (Laboratory) Present experimental results in laboratory reports of appropriate length, style and depth, or through other modes as required.
17. (Laboratory) Determine chemical formulas and classify different types of reactions.
18. (Laboratory) Relate laboratory experimental observations, operations, calculations, and findings to theoretical concepts presented in the complementary lecture course.

Textbooks and Materials

The textbook for the course is Timberlake Chemistry, An Introduction to General, Organic and Biological Chemistry, 13th edition, Pearson. ISBN-13: 9780134421353 or Digital ISBN-13: 9780134564586. You can purchase a hard copy from the NMSU bookstore, Amazon or other website, or rent a copy for a limited time from the publisher (Pearson).

Your laboratory materials are all available through this canvas course.

A calculator with exponential notation, log, and natural log is required. Alpha numeric calculators that can store equations and texts are **NOT** allowed in exams.

Laboratory and Demonstrations

20% of your course grade comes from the Laboratory and Demonstration component of the course. Because of space constraints the schedule for this is a bit complicated and best gone over in person. I will present that schedule the first day of class. In the future, you can see the schedule in the course Canvas page for the section you are in (either M2A or M3A). Therefore, you should always know where you are supposed to be each week for Lab/Demos.

How to succeed in course

Study group: Please make a study group of 3-4 students from your class. You can meet online or in-person based on your schedule and spend your meeting time on discussions on the projects, concepts learned in the chapters or modules, exam preparations, to name a few. Data shows, from my earlier classes, that students actively engaged in study groups do better on the exams.

Office hours: I strongly advise you to attend the office hours. Office hours are not mandatory but students attending the office hours regularly are more likely to succeed in class. Please come with any questions you may have related to the course.

Most importantly, studying EVERY day if possible ensures you keep up with course material and will learn gradually, instead of painfully in one binge session of studying.

Grading Policy

The number of assignments, points per assignment and overall weightage are tabulated below. There will be no extra credit assignments in this course.



Assignments	**Points Per Assignment**	**Total Points**	**Overall weight**
Quizzes (10 of them)	20	200	20%
Laboratory		200	20%
Exam (3 of them)	100	300	30%
Final exam (1 final)	200	200	20%
Attendance (all lectures)	-1% for every missed lecture, up to 10% lost		10%
Total		1000	100%

Homework Homework is assigned but you do not need to turn it in. It does not count for points in the course. However, doing/and understanding the homework is a great way to prepare for exams.

And I am happy to go over homework problems with you during office hour.

Grading Criteria

Grade will be assigned by the end of the semester based on the total points scored. **Fractional grading may be used at instructor's discretion.**

Grading Scale:

Points	**Percentage**	**Grade**
900-1000	90-100	A
800- 899	80-89	B
700-799	70-79	C
600-699	60-69	D
Below 600	Below 60	F

Late Work

Late work will be automatically graded as "0". If emergency situation arises affecting the completion of the assignment on time, student should let the instructor know as soon as possible along with a valid document.

Incomplete Grades

The grade of "I" may only be assigned if the student is unable to complete the course due to circumstances beyond the student's control that develop after the last day to withdraw from the course.

Class Withdrawals

Student is responsible for making decision regarding the withdrawal from the class and the deadlines.

Student Support

Discrimination and Disability Accommodation

Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act Amendments Act (ADAAA) covers issues relating to disability and accommodations. If a student has questions or needs an accommodation in the classroom (all medical information is treated confidentially), contact:

Student Accessibility Services (SAS)
Corbett Center Student Union, Rm. 208
Phone: (575) 646-6840
E-mail: sas@nmsu.edu (mailto:sas@nmsu.edu) (mailto:sas@nmsu.edu) Website: http://sas.nmsu.edu/ (Links to an external site.) (http://sas.nmsu.edu/)

New Mexico State University, in compliance with applicable laws and in furtherance of its commitment to fostering an environment that welcomes and embraces diversity, does not discriminate on the basis

of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, retaliation, serious medical condition, sex (including pregnancy),sexual orientation, spousal affiliation, or protected veteran status in its programs and activities, including employment, admissions, and educational programs and activities. Inquiries may be directed to:

Title IX and Section 504 Coordinator
Office of Institutional Equity
P.O. Box 30001, E. 1130 University Avenue
Las Cruces, NM 88003
575.646.3635; 575-646-7802 (TTY)
equity@nmsu.edu (mailto:equity@nmsu.edu)

Title IX prohibits sex harassment, sexual assault, intimate partner violence, stalking and retaliation. For more information on discrimination or Title IX, or to file a complaint contact:

Office of Institutional Equity (OIE)
O'Loughlin House, 1130 University Avenue
Phone: (575) 646-3635 E-mail: equity@nmsu.edu (mailto:equity@nmsu.edu)
Website: http://equity.nmsu.edu/ (Links to an external site.) (http://equity.nmsu.edu/)

Other NMSU Resources

NMSU Police Department:	(575) 646-3311	www.nmsupolice.com (Links to an external site.) (http://www.nmsupolice.com/)
NMSU Police Victim Services:	(575) 646-3424	
NMSU Counseling Center:	(575) 646-2731	
NMSU Dean of Students:	(575) 646-1722	
Any On-campus Emergencies:	911	

Academic Resources

NMSU provides students with academic resources such as tutoring, final exam schedules, library and research, and transcript information on the NMSU Current Student (Links to an external site.) (https://inside.nmsu.edu/current-students/) webpage.

Student Support Services

Find information and support on advising, registration, and financial aid on NMSU Current Student (Links to an external site.) (https://inside.nmsu.edu/current-students/) webpage. You will also find links to the academic calendar, Student Affairs, the student handbook, and Student technologies on this page.

Technology Requirements

- Access to a Windows or Macintosh desktop computer or laptop with internet access, sound, and speakers.
- Microsoft Office 2007 or higher(Links to an external site.) (https://studenttech.nmsu.edu/microsoft-office-365-pro-plus/get-verified-office-365-for-nmsu-students-faculty-staff/)

- Adobe Reader(Links to an external site.) (https://get.adobe.com/reader/) (for reading PDF files)>

Combined Minimum Technology Requirements for All Supported Software

- Canvas LMS(Links to an external site.) (https://community.canvaslms.com/docs/DOC-10720-what-are-the-browser-and-computer-requirements-for-canvas)
- Zoom(Links to an external site.) (https://support.zoom.us/hc/en-us/articles/201362023-System-requirements-for-Windows-macOS-and-Linux)
- Adobe Connect(Links to an external site.) (https://helpx.adobe.com/adobe-connect/tech-specs.html)
-
-

Computer

- 4GB of RAM or higher
- Dual Core 2Ghz or higher (Intel Core i5 processor or equivalent)
- Microphone (built-in, wired, USB, wireless or Bluetooth)
- Web camera (built-in or USB)

Operating System

- Windows 10 or higher
- OS X 10.13 or higher

Internet

- Broadband connection (25 Mbps download, 3Mbps upload as defined by the FCC)
  - FCC 2015 Broadband Progress Report(Links to an external site.) (https://www.fcc.gov/reports-research/reports/broadband-progress-reports/2015-broadband-progress-report)
  - FCC 2018 Broadband Progress Report(Links to an external site.) (https://www.fcc.gov/reports-research/reports/broadband-progress-reports/2018-broadband-deployment-report)
  - FCC 2019 Broadband Deployment Report(Links to an external site.) (https://docs.fcc.gov/public/attachments/FCC-19-44A1.pdf) (https://docreader.readspeaker.com/docreader/?cid=13068&lang=en_us&url=https%3A%2F%2Fdocs.fcc.gov%2Fpublic%2Fattachments%2FFCC-19-44A1.pdf)
- Wired connection (ethernet) preferred
- Stable wireless connection is acceptable
- Use the NMSU Checs Speedtest(Links to an external site.) (http://speedtest.checs.net/) to test your internet speed

Browsers

- Latest two versions of Chrome(Links to an external site.) (https://www.google.com/chrome/)
- Latest two versions of Firefox(Links to an external site.) (https://www.mozilla.org/en-US/firefox/new/)
- Javascript must be enabled

Use only the latest version of Google Chrome or Mozilla Firefox for Canvas. Safari, Internet Explorer, and Microsoft Edge have known issues that can interfere with performing basic tasks within Canvas. The links to ensure you have the latest version are listed below:

- How to update Google Chrome(Links to an external site.) (https://support.google.com/chrome/answer/95414?co=GENIE.Platform%3DDesktop&hl=en)
- How to update Mozilla Firefox(Links to an external site.) (https://support.mozilla.org/en-US/kb/update-firefox-latest-version)

Canvas does not fully support mobile devices; while there is a free Canvas mobile app available through iTunes store, a lot of functionality is unavailable when using a mobile phone. When you take this course, it is assumed you have access to a computer or laptop for full access to functionality in this course.

Other NMSU Resources

Technical Support

The ICT Customer Service Center is equipped to deal with all of your information technology (IT) and telecommunications needs at NMSU. Please feel free to contact them at (575) 646-1840 or via email at helpdesk@nmsu.edu (mailto:helpdesk@nmsu.edu) . You can also go to the Student Technology Help Student Technology Help (Links to an external site.) (http://studenttech.nmsu.edu/) web page and (Links to an external site.) (http://studenttech.nmsu.edu/learnnmsuedu/) Student Resources (Links to an external site.) (http://studenttech.nmsu.edu/learnnmsuedu/) located at the Canvas (Links to an external site.) (http://learn.nmsu.edu/) web page for additional information on Canvas.

Accessibility of eLearning Tools

This course uses several software programs and technologies. Please read the following for more information about their accessibility.

Note: A Voluntary Product Accessibility Template (VPAT) is a standardized form developed by the Information Technology Industry Council to show how a software product meets key regulations of Section 508 of the Rehabilitation Act.

- Canvas Accessibility(Links to an external site.) (https://www.canvaslms.com/accessibility) Standards and help.
  - Canvas-compatible Screen Readers: VoiceOver(Links to an external site.) (http://www.apple.com/accessibility/voiceover/) (Mac), JAWS (Links to an external site.) (http://www.freedomscientific.com/products/fs/jaws-product-page.asp) (PC)
- Adobe Products Accessibility(Links to an external site.) (https://www.adobe.com/accessibility/products.html) for Adobe Connect 9, Adobe Acrobat, and more.
- Apple Products VPATs(Links to an external site.) (https://support.apple.com/accessibility/vpat) and Accessibility features (Links to an external site.) (https://www.apple.com/accessibility/) for Safari Web Browser, Mac OS X, and more.
- Microsoft Products: Section 508(Links to an external site.) (https://www.microsoft.com/en-us/trustcenter/compliance/compliance-offerings/us-section-508) and Microsoft Accessibility (Links to an external site.) (https://www.microsoft.com/en-us/accessibility/resources?activetab=pivot_1%3aprimaryr3) for Office, Skype, and more.
- Google VPATs(Links to an external site.) (https://www.google.com/accessibility/initiatives-research.html) and Accessibility Products and Features (Links to an external site.) (https://www.google.com/accessibility/products-features.html) for Google Earth, Chrome Web Browser, Google Docs, and more.
- Firefox Web Browser: Section 508(Links to an external site.) (https://website-archive.mozilla.org/www.mozilla.org/firefox_vpat/firefox-vpat-3.html) (version 3.5 and up)

Privacy Policies

We take protecting and honoring your privacy very seriously at NMSU. Please note that several software and technology materials are used in the course. Their privacy policies are noted below.

- Canvas Privacy Policy(Links to an external site.) (https://www.canvaslms.com/policies/privacy)
- Adobe Privacy Policy(Links to an external site.) (https://www.adobe.com/privacy/policy.html)
- Firefox Privacy Policy(Links to an external site.) (https://www.mozilla.org/en-US/privacy/firefox/)

- Google Product Privacy Guide(Links to an external site.) (https://policies.google.com/technologies/product-privacy) (e.g., Chrome, Google Drive, YouTube)
- Microsoft Privacy Policy(Links to an external site.) (https://privacy.microsoft.com/en-us/privacystatement)
- Apple Privacy Policy for software and devices(Links to an external site.) (https://www.apple.com/privacy/)
- Privacy Policy | Labster
- PhET Simulations Android App Privacy Policy (Links to an external site.) (https://phet.colorado.edu/en/android-app-privacy-policy#:~:text=The%20PhET%20Simulations%20Android%20app%20is%20meant%20to%20provide%2
- Privacy Policy for Kahoot!(Links to an external site.) (https://kahoot.com/privacy-policy/#:~:text=We%20do%20not%20collect%20any,you%20participate%20in%20a%20Kahoot!&text=Our%20information%20practices%20are%20different,user%20from%20outside%20the%20U.S.)

Tentative Schedule

This will be uploaded by Monday Jan 20, 2025

Budget Office
MSC 3AA
New Mexico State University
P.O. Box 30001
Las Cruces, NM 88003-8001
575-646-2431, budget@nmsu.edu

Request for Course Fees

Date:	04-09-2025	Requesting Department:	Chemistry and Biochemistry
College:	Arts And Sciences	Contact Name & Phone Number:	Lisa Osborne 575 646-2506
Requested Effective Semester	Spring 2026	Course Prefix & Number	CHEM 1215
Course Name	General Chemistry I	No. of Credit Hours	4

Amount Requested_____40.0_____ [v] Per Course [ ] Per Credit Hour (If multiple courses, attach summary.)

Please Forward to Next Reviewer/Approver.

Submitted By:	*Date of Approval*	*Comments:*
Shelley Lusetti Digitally signed by Shelley Lusetti Date: 2025.04.09 14:12:45 -06'00' **Department Head**	Date	
Dean, College	Date	LC LC

Review-Budget Office	*Date of Review*	*Comments*
Kim Rumford **Chief Budget Office**	8/15/2025 Date	Reviewed by Budget Office

X Forward to Provost for Approval **X Forward to University System Budget Committee Approval**

Approval – Provost & Chief Academic Officer	*Date of Approval*	*Comments:*
Lakshmi Reddi **Provost & Chief Academic Officer**	8/18/2025 Date	Approved

Approval – University System Budget Committee	*Date of Approval*	*Comments:*
Meeting Date: 8/22/2025 Voting Results: X yes ____No	8/22/2025 Date	Approved

Please attach detailed request to include:

- Justification
- Itemized Costs
- Average number of students enrolled in course
- A copy of the syllabus when possible

Course Fee Request CHEM 1215 SP26 04-09-2025

Final Audit Report 2025-04-15

Created:	2025-04-09
By:	Lisa Osborne (lisaosbo@nmsu.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAvoMBIIGSj9EV_s4SlrQ0JPQ7RAAWtbqV

"Course Fee Request CHEM 1215 SP26 04-09-2025" History

Document created by Lisa Osborne (lisaosbo@nmsu.edu)
2025-04-09 - 8:37:45 PM GMT- IP address: 128.123.167.145

Document emailed to asdeansapproval@nmsu.edu for approval
2025-04-09 - 8:38:54 PM GMT

Email viewed by asdeansapproval@nmsu.edu
2025-04-09 - 9:38:14 PM GMT- IP address: 128.123.248.113

Signer asdeansapproval@nmsu.edu entered name at signing as Lucille Casas
2025-04-14 - 8:03:42 PM GMT- IP address: 128.123.249.213

Document approved by Lucille Casas (asdeansapproval@nmsu.edu)
Approval Date: 2025-04-14 - 8:03:44 PM GMT - Time Source: server- IP address: 128.123.249.213

Document emailed to Enrico Pontelli (epontell@nmsu.edu) for signature
2025-04-14 - 8:03:46 PM GMT

Email viewed by Enrico Pontelli (epontell@nmsu.edu)
2025-04-14 - 8:11:57 PM GMT- IP address: 172.225.198.44

Document e-signed by Enrico Pontelli (epontell@nmsu.edu)
Signature Date: 2025-04-15 - 3:15:10 AM GMT - Time Source: server- IP address: 76.127.39.245

Agreement completed.
2025-04-15 - 3:15:10 AM GMT

Adobe Acrobat Sign

Chemistry Course Fee Increase Justification

- The Chemistry Department did an analysis of the costs of consumables required for each of the first-year chemistry labs and calculated cost per student, see attached itemized list. These number were assembled in March 2025.
- Fall of 2023, the department started suppling each new student a lab coat and a pair of goggles to be used in the lab. The cost of lab coats has increased significantly, from $13.49 to $35.03 each. Lab coats are required for chemistry labs. In the past, students were required to purchase lab coats from the stockroom, the bookstore or other sources. This resulted in students requiring having a cash or check to pay for the coat if purchasing from the stockroom. Many students did not have cash or checks, and this resulted in IOUs at the end of each semester. The owed money put a hold on any unpaid balance resulting in obstacles in enrollment.
- Each student having a lab coat and goggles has increased safety in the labs.
- Students have retained their lab coats for their next chemistry course.

Chemistry Lab Cost Analysis – Summary

Enrollment:

CHEM 1120		**CHEM 1215**	
Summer 2024 =	online	Summer 2024 =	25
Fall 2024 =	188	Fall 2024 =	547
Spring 2025 =	111	Spring 2025 =	376
Total =	**299**	**Total =**	**948**

CHEM 1120

Consumable Chemicals and Supplies per year:	$2.24
Lab coats and Goggles:	$36.82
Lab cost per CHEM 1120 student:	$39.06

CHEM 1215

Consumable Chemicals and Supplies per year/student:	$2.28
Lab coats and Goggles:	$36.82
Lab cost per CHEM 1215 student:	$39.10

CHEM 1215 – Cost Analysis of Chemicals & Supplies

Exp. 1: Basic Lab Techniques	Price per units	Units per Price	Total units used	Total costs	Total cost of Lab
Liquid – water yellow food color (liters)	$0	1	7	$0	
Aluminum, pellets, Resused (grams)	$16.45	500	0	0	
Aluminum, foil, (box sq.ft.)	$10.80	200	25	1.35	
Sugar, table sugar, (grams)	$2.84	1814	1200	$1.88	$ 3.23
Exp. 2: Chemical & Physical Properties					
Set of 8 elements in glass vials for observation (not opened)					
Iron, Nickel, Sulfur, Tin, Arsenic, Copper, Carbon, Silicon					
Iodine (grams)	$232.18	500	4	$ 1.86	
Magnesium ribbon (cm)	$113.00	1390	20	$ 1.63	
Mineral oil (ml)	$11.85	473	1000	$ 25.05	
Copper II chloride, dihydrate (grams)	$29.58	500	175	$ 10.35	
Aluminum, foil, (box sq.ft.)	$10.80	200	25	$ 1.35	
Copper wire, 22ga, (meters)	$10.70	50	1.2	$ 0.26	
Zinc (granular), (grams)	$36.61	500	175	$ 12.81	
Silver nitrate, (grams	$261.37	100	17	$ 44.43	
Lead II Nitrate, (grams)	$65.65	500	33	$ 4.33	
Potassium Iodide, (grams)	$239.00	500	16	$ 7.65	
Hydrochloric acid, (ml conc.)	$15.20	500	500	$ 15.20	
Food color (commercial), (ml)	$4.74	473	30	$ 0.30	
ICE (buckets)	$0	1	20	$ -	$ 125.22
Exp. 3: Chemistry in Everyday Life					
Ammonium Carbonate (grams)	$42.07	500	0	$ -	
Sodium Iodide, (grams)	$119.03	500	200	$ 47.61	
conc. Sulfuric Acid, (ml conc.)	$19.50	500	1000	$ 39.00	
Hydrochloric acid (ml conc.)	$13.90	500	170	$ 4.73	
32% Sodium Hydroxide (ml)	$30.80	500	280	$ 17.25	
Nitric Acid, (ml conc.)	$18.75	500	200	$ 7.50	
Barium Hydroxide (grams)	$36.55	500	40	$ 2.92	

Ammonium Chloride,(grams)		$39.07	500	54	$	4.22		
Barium Chloride dihydrate (grams)		$71.00	500	50	$	7.10		
Silver Nitrate (grams)		$261.37	100	17	$	44.43		
Household Ammonia (liters)		$1.98	1.9	1	$	1.04		
Household Bleach (liters)		$4.52	2.4	1	$	1.88		
Household Vinegar (liters)		$3.94	3.8	1	$	1.04		
Household Mineral Oil (baby oil) (ml)		$0.40	60	200	$	1.33		
Household Sodium Chloride (grams)		$5.23	1814	250	$	0.72		
Household Baking Soda (grams		$0.92	453	250	$	0.51		
Household Epsom Salts,(grams)		$6.64	3629	250	$	0.46		
Household Plant Fertilizer, (grams)		$2.99	680	250	$	1.10		
Calcium carbonate (paint powder),(grams)		$46.20	500	250	$	23.10		
Potassium Carbonate(grams)		$27.05	500	50	$	2.71		
Potassium Iodide,(grams)		$293.00	500	50	$	29.30		
Sodium Chloride (table salt) (grams)		$1.86	1814	70	$	0.07		
Potassium Sulfate (grams)		$60.90	500	50	$	6.09		
Litmus paper, neutral (vials)		$0.97	100	3	$	0.03	$	244.14
Exp. 4: Atomic Spectra								
Calcium Chloride, (grams)	$	42.15	500	50	$	4.22		
Lithium Chloride, (grams)	$	176.00	500	50	$	17.60		
Copper II Chloride dihydrate (grams)	$	43.00	500	50	$	4.30		
Sodium Chloride (grams)	$	1.86	1814	50	$	0.05		
Strontium Chloride hexahydrate (grams)	$	37.65	500	50	$	3.77		
Potassium Chloride (grams)	$	35.05	500	50	$	3.51		
Activated Charcoal (grams)	$	48.00	500	25	$	2.40		
Hydrochloric Acid (ml conc.)	$	13.90	500	500	$	13.90		
Colored pencils (packs)	$	1.40	1	3	$	4.20		
Well plates (packs)	$	96.75	50	10	$	19.35	$	73.29
Exp. 5: Empirical Formulas								
Magnesium ribbon (cm)	$	113.00	1390	530	$	43.09		
Hydrochloric Acid (ml conc.)	$	13.90	500	6000	$	166.80	$	209.89

Exp. 6: Copper & Percent Yield

Copper, wire (meters)	$	10.70	50	9	$	1.93		
Zinc, granular (grams)	$	36.61	500	200	$	14.64		
Nitric Acid (ml conc.)	$	18.75	500	2000	$	75.00		
Hydrochloric Acid (ml conc.)	$	13.90	500	1200	$	33.36		
Sulfuric Acid (ml conc.)	$	19.50	500	335	$	13.07		
32% Sodium Hydroxide (ml)	$	30.80	500	830	$	51.13	$	189.12

Exp. 7: Compounds & Their Bonds, ionic

These chemicals are for observation lonely and are not used up.	0	0	0	0	
Sodium chloride, Iron III chloride, Potassium carbonate	0	0	0	0	0

Exp. 8: Soluble & Insoluble Salts

Sodium Carbonate (grams)	$	55.40	500	12	$	1.33		
Sodium Chloride (grams)	$	1.86	1814	6	$	0.01		
32% Sodium Hydroxide (ml)	$	30.80	500	10	$	0.62		
Sodium Nitrate (grams)	$	33.95	500	9	$	0.61		
Sodium Phosphate tribasic dodecahydrate (grams)	$	19.83	500	38	$	1.51		
Sodium Sulfate anhydrous (grams)	$	29.00	500	15	$	0.87		
Potassium Nitrate (grams)	$	41.30	500	10	$	0.83		
Calcium Nitrate tetrahydrate (grams)	$	25.10	500	24	$	1.20		
Barium Nitrate (grams)	$	27.70	500	26	$	1.44		
Aluminum Nitrate nonahydrate (grams)	$	83.00	500	38	$	6.31		
Silver Nitrate (grams)	$	261.37	100	17	$	44.43		
Copper II Nitrate hemi-pentahydrate (grams)	$	58.83	500	23	$	2.71		
Lead II Nitrate (grams)	$	65.65	500	33	$	4.33		
Iron II Chloride tetrahydrate (grams)	$	83.90	500	20	$	3.36		
Well plates (packs)	$	96.75	50	10	$	19.35	$	88.90

Exp. 9: Molecular Shapes

Marshmallows, large (bag)	$	2.38	1	20	$	47.60		
Marshmallows, mini (bag)	$	1.17	1	15	$	17.55		
Marshmallows, colored (bag)	$	1.17	1	7	$	8.19		

Toothpicks, round (boxes)	$	3.12	1	20	$	62.40		
Push pins (boxes)	$	1.12	1	2	$	2.24		
Copy paper (reams)	$	4.24	1	1	$	4.24	$	142.22
Exp. 10: Solutions, Electrolytes & Concentrations								
Potassium Permanganate (grams)	$	85.70	500	35	$	6.00		
Iodine (grams)	$	245.83	500	35	$	17.21		
Sucrose (table sugar) (grams)	$	2.84	1814	105	$	0.16		
Vegetable oil (ml)	$	3.47	1420	175	$	0.43		
Cyclohexane (ml)	$	42.33	500	6000	$	507.96		
Sodium Chloride (grams)	$	1.86	1814	15	$	0.02		
Hydrochloric acid (ml conc.)	$	13.90	500	20	$	0.56		
Acetic acid (ml conc.)	$	22.43	500	18	$	0.81		
32% Sodium Hydroxide (ml)	$	30.80	500	25	$	1.54		
Ammonium Hydroxide (ml conc.)	$	19.12	500	15	$	0.57		
Ethanol 200pf. (ml)	$	3.00	500	15	$	0.09	$	535.34
Exp. 11: Types of Chemical Reactions								
Zinc, pieces (pieces)	$	18.00	288	100	$	6.25		
Magnesium, turnings (grams)	$	63.00	500	90	$	11.34		
Magnesium, ribbon (cm)	$	113.00	1390	572	$	46.50		
Potassium Iodide (grams)	$	293.00	500	90	$	52.74		
Calcium, turnings, $53.00 / 500g	$	289.00	500	90	$	52.02		
Copper Sulfate pentahydrate (grams)	$	25.27	500	375	$	18.95		
Sodium Bicarbonate (grams)	$	11.13	500	350	$	7.79		
Lead Nitrate (grams)	$	65.65	500	33	$	4.33		
Potassium Iodide (grams)	$	293.00	500	17	$	9.96		
Hydrochloric Acid (ml conc.)	$	13.90	500	3000	$	83.40		
Wood splints (boxes)	$	8.98	1	2	$	17.96	$	311.25
Exp. 12: Ideal Gas Law								
Magnesium, ribbon (cm)	$	113.00	1390	610	$	49.59		
Copper, wire 22 ga. (meters)	$	10.70	50	40	$	8.56		

Hydrochloric Acid (ml conc.)	$ 13.90	500	6000	$ 166.80		
Sandpaper (sheets)	$ 6.74	6	10	$ 11.23	$	236.18

Grand Total	**Enrollment**	**Total**	**Per Student**
Per lab/year	948	$2,158.78	$2.28
Lab Coats			35.03
Safety Goggles			1.79
			$39.10

NEW MEXICO STATE UNIVERSITY
GENERAL CHEMISTRY I SYLLABUS

Course Title: GENERAL CHEMISTRY I LECTURE AND LABORATORY FOR STEM MAJORS
Course Number: CHEM 1215
Semester: Spring 2024
Course Section: M03

Class Delivery Method, Days, Times, and Location:
This course will be taught in a face-to-face setting.
Monday & Wednesday, 10:30 AM – 11:45 AM
HJLC 228

I. Instructor Information

Name: ***Paulette Vincent-Ruz***
Chemistry & Biochemistry Department Office: CB 218
E-Mail: pvr@nmsu.edu

Office Hours: Booking Link

II. General Course Information

General Chemistry I Lecture and Laboratory for STEM Majors, is a 4 credit lecture course that will provide students with a working knowledge of the basic foundations of chemistry and to strengthen your scientific / chemistry background. There is a laboratory component to the course and students must be registered in a laboratory section to remain enrolled in the course.

Course Description: Welcome to General Chemistry I! This course will give an overview of many foundational topics in Chemistry. We will explore the ways that the smallest pieces of matter make up the structure and properties of everything in the universe. I know all of you are taking Gen Chem for many different reasons, but I hope that after participating in this course, you understand why chemistry is an important science with a lot of impact in your everyday life and community

In this class we are going to learn about: what atoms are, how they interact to form molecules, how molecules interact with light, how molecules interact with each other, and how molecules change (chemical reactions). By the end of the class, you will be able to:

- Use data and evidence to construct scientific arguments.
- Use appropriate models and theories to describe chemical and physical phenomena.
- Construct representations of chemical species and use them to predict properties.
- Explain how and why atomic and molecular structure affect the properties and behavior of a substance.

Prerequisites: (1) grade of C- or better in **MATH 1215** or higher, or a Mathematics Placement Exam Score adequate to enroll in mathematics courses beyond **MATH 1215**.

Course website: A secure web space has been prepared on the university Canvas system. Important course announcements and copies of lecture presentations, assignments, etc. will be posted for your use. To access Canvas, go to https://learn.nmsu.edu

III. Learning Objectives

1. Use dimensional analysis, the SI system of units and appropriate significant figures to solve quantitative calculations in science. Understand the differences between physical and chemical changes to matter. Classify types of matter.
2. Understand the scientific method in the context of scientific discoveries.
3. Explain the structure of atoms, isotopes and ions in terms of subatomic particles.
4. Analyze how periodic properties (e.g. electronegativity, atomic and ionic radii, ionization energy, electron affinity, metallic character) and reactivity of elements results from electron configurations of atoms.
5. Understand the creation of different types of compounds (ionic and molecular), comparing and contrasting their structures, naming schemes and formulas. Apply knowledge of electronic structure to determine molecular spatial arrangement and polarity.
6. Understand bulk pure substances, their properties and their states of matter by understanding and identifying intermolecular forces. Apply kinetic molecular theory to relate atomic level behavior to macroscopic properties. Introduce the mole and apply the mole concept to amounts on a macroscopic and a microscopic level
7. Understand mixtures, solubility by considering intermolecular forces and expressing concentration in molarity.
8. Identify different reaction types. Apply the law of conservation of mass to reactions. Perform stoichiometry on balanced reactions. Laboratory Student Learning Outcomes
9. Demonstrate and apply concepts associated with laboratory safety, including the possible consequences of not adhering to appropriate safety guidelines.
10. Demonstrate the computational skills needed to perform appropriate laboratory related calculations to include, but not be limited to determining the number of significant figures in numerical value with the correct units, solving problems using values represented in exponential notation, solving dimensional analysis problems, and manipulating mathematical formulas as needed to determine the value of a variable.
11. Perform laboratory observations (both qualitative and quantitative) using sensory experience and appropriate measurement instrumentation (both analog and digital).
12. Prepare solutions with an acceptable accuracy to a known concentration using appropriate glassware.
13. Master basic laboratory techniques including, but not limited to weighing samples (liquid and solid), determining sample volumes, measuring the temperature of samples, heating and cooling a sample or reaction mixture, decantation, filtration, and titration.
14. Draw conclusions based on data and analyses from laboratory experiments.
15. Relate laboratory experimental observations, operations, calculations, and findings to theoretical concepts presented in the complementary lecture course.

Tentative Schedule

Day	Date	Unit	Topic
Wednesday	1/15/25	Course Introduction	
Monday	1/20/25	MLK Day No Classes	
Wednesday	1/22/25	Unit 1: Foundations of Chemistry	1.1. Basic Concepts of Matter and Energy
Monday	1/27/25	Unit 1: Foundations of Chemistry	1.1. Basic Concepts of Matter and Energy
Wednesday	1/29/25	Unit 1: Foundations of Chemistry	1.2 Measurement
Monday	2/3/25	Unit 2: Atoms, Molecules and Ions	2.3 Atomic Theory and the Periodic Table
Wednesday	2/5/25	Unit 2: Atoms, Molecules and Ions	2.3 Atomic Theory and the Periodic Table
Monday	2/10/25	Unit 2: Atoms, Molecules and Ions	2.4 Compounds and Chemical Formulas
Wednesday	2/12/25	Unit 2: Atoms, Molecules and Ions	2.4 Compounds and Chemical Formulas
Monday	2/17/25	Unit 3: Electronic Structure and Periodic Properties	3.5 Electromagnetic Energy and the Bohr Model of the Atom
Wednesday	2/19/25	Unit 3: Electronic Structure and Periodic Properties	3.6 Quantum Theory
Monday	2/24/25	Unit 3: Electronic Structure and Periodic Properties	3.7 Periodic Properties
Wednesday	2/26/25	Unit 3: Electronic Structure and Periodic Properties	3.7 Periodic Properties
Monday	3/3/25	Unit 4: Chemical Bonding and Molecular Geometry	4.8 Ionic and Covalent Bonding
Wednesday	3/5/25	Unit 4: Chemical Bonding and Molecular Geometry	4.9 Lewis Structures
Monday	3/10/25	SPRING BREAK	
Wednesday	3/12/25	SPRING BREAK	
Monday	3/17/25	Unit 4: Chemical Bonding and Molecular Geometry	4.9 Lewis Structures
Wednesday	3/19/25	Unit 4: Chemical Bonding and Molecular Geometry	4.10 Molecular Structure and Polarity
Monday	3/24/25	Unit 4: Chemical Bonding and Molecular Geometry	4.11 Advanced Theories of Covalent Bonding
Wednesday	3/26/25	Unit 5: Composition of Substances	5.12 Mole Calculations
Monday	3/31/25	Unit 5: Composition of Substances	5.12 Mole Calculations
Wednesday	4/2/25	Unit 5: Composition of Substances	5.13 Aqueous Solutions
Monday	4/7/25	Unit 6: Reactions and Stoichiometry	6.14 Chemical Reactions and Equations
Wednesday	4/9/25	Unit 6: Reactions and Stoichiometry	6.15 Chemical Reactions Stoichiometry
Monday	4/14/25	Unit 7: Gases	7.16 Gas Laws
Wednesday	4/16/25	Unit 7: Gases	7.18 The Kinetic-Molecular Theory
Monday	4/21/25	Unit 8: Thermochemistry	8.19 Introduction to Energy
Wednesday	4/23/25	Unit 8: Thermochemistry	8.21 Calorimetry & Enthalpy
Monday	4/28/25	Unit 9: Liquids and Solids	9.22 Intermolecular Forces
Wednesday	4/30/25	Unit 10: Solutions	10.26 Colligative Properties
Wednesday	5/7/25	FINAL EXAM	

III. Texts & Supplies

Textbook: **This class uses REALCHEM courseware. The textbook is free and access will be available through the canvas site.**

Calculator: any calculator with logarithm functions. Cell phones will not be allowed for use as calculators on exams.

Computer: A computer or tablet.

IV. Assignments & Exams

A. Warm-Ups 5%
In our class, warmups are like practice activities that you do before we dive into the main topic of the week. You'll have one warmup each week, and it's always due on Mondays. You've got the whole week to finish it, but if you turn it in late, there's a 10% penalty. Warm-ups can be submitted until the day of the corresponding quiz. Warm-ups are graded for good faith completion (actually making an effort to answer the questions) not correctness.

B. Class Participation 10%
In our class, we will do POGIL classroom activities. POGIL, which stands for Process Oriented Guided Inquiry Learning, is an engaging and collaborative teaching approach used in education. In a POGIL activity, students work together in small groups to explore and understand a concept or solve a problem. Rather than a traditional lecture-style format, POGIL encourages active participation and critical thinking. The activities will only be open until the start of the next Module.

C. Homework 10%
Homework is meant to help you practice the concepts learn in class. You get unlimited attempts with no penalty. You will keep the highest grade. Can submit any homework up to December 8th, 2024 11:59pm. There is a 10% penalty PER WEEK that the homework is submitted late.

D. Lab 20%
I am not the lab instructor. Any questions about lab must be directed to your TAs. If you want to change lab sections you need to go through a CRN number change, because this requires an add/drop, trying to change sections comes with the risk of losing your spot in lab.

E. Explorations 5%
Explorations are designed to make you think, learn, and explore. I want you to engage with the material, so don't wait until the last minute. Take your time to ponder the questions and develop your own answers. You can work on these problems individually or in teams. Remember, the goal is to understand and apply what you've learned.

F. Exams 40%
Exams will be given in class. Although each exam will primarily focus on a single portion of the course, each exam will build on what you have previously learned; thus, to some extent, every exam is comprehensive. Exams will be done through a web app during class. For each exam you will be provided a formula sheet.

NMSU Administrative Rules and Procedures Grade Reports policy (https://arp.nmsu.edu/4-55/) requires instructors to retain records used to compute final grades for two years after the

completion of the course. You can always make an appointment with the instructor to look at your previous exams even after the semester has finished.

G. Final Exam 10%

The final exam consists of a common exam across all General Chemistry I sections. The exam date is December 11th, 2024 Wednesday 3:30pm – 5:30pm in the same room we use for class.

V. Classroom Policies

A. Expectations

In order to be successful in this course, you should read, prepare, and study both **before and after** coming to lecture. To be successful, you should plan to spend a few hours outside of class per lecture on the lecture portion of this course. Completing homework assignments and preparing for exams will require additional time. Do not wait until the night before an exam to "cram" in all of your studying. Give your brain the time it needs to think about and understand key concepts.

B. Appointments

Feel free to attend my office hours, email BRIEF questions to me or email me to set up an appointment for more lengthy questions if you absolutely cannot make my office hours. Also be aware of the Campus Tutoring Services (https://campustutoring.nmsu.edu) that are available to you.

C. Attendance

Attendance is highly recommended (especially because classroom activities are worth 10% of your final grade). All exams will be based on both the lecture and text readings, although lecture coverage will predominate. You are strongly advised to take your own notes during class and to complete all text readings. You are responsible for all material covered in class, including any announcements. If you know you will miss a class, it is advised that you plan to get notes from another student.

Absences caused by legally obligated training or military deployment, obligated attendance or participation in a court or legal proceeding, religious practices or beliefs, or participation in a University activity at the request of University authorities will be excused if a student has requested a reasonable accommodation and/or has proper documentation. Where the reason for the absence is known in advance, the student **MUST** notify the instructor of the conflict **ahead of time**. Absences based on extenuating circumstances outside the control of the student (such as an illness) may be excused at the discretion of the instructor. Please see the NMSU Administrative Rules and Procedures Authorized Absences from Class policy (https://arp.nmsu.edu/4-46/) for a complete description of University policy.

Note that absences due to scheduling of vacations during class time will NOT be excused. If you have made plans that would cause you to miss an exam, then you should strongly consider changing these plans or consider dropping the course.

D. Classroom Conduct

Out of respect for the instructor and for other students in the class, each student is obligated to arrive on time and to conduct themselves in a mature and non-disruptive manner during the instructional period. **Cell phones, beepers, or any other potentially distracting electronic devices should be turned off during class time. Cell phones, etc. are NOT to be taken out at any time during an exam.** Note that cell phones or other recording devices may be used for voice recording of the lecture if desired, as long as the instructor has been notified. A clock will be provided for you to keep track of time. If a calculator is required, you must bring a separate calculator and not plan to use the one on your cell phone. If you bring a laptop in order to take notes, then only use it to take notes during

lecture. Using it for other purposes may be distracting to other students and the instructor.

In the unlikely event that a student's behavior is distracting the class, the instructor may ask that student to leave the class.

E. Use of Generative Artificial Intelligence (AI)

No Use of Generative AI Permitted. This course assumes that all work submitted by students will be generated by the students themselves, working individually or in groups. Students should not have another person/entity do the writing of any substantive portion of an assignment for them, which includes hiring a person or a company to write assignments and using AI tools.

F. Make-up Policies

Lectures: There are **no make-up** lectures. You are responsible for obtaining any lecture notes from classmates. Lecture presentation slides may be available on the course page on Canvas. In-class quizzes and/or activities **cannot** be made-up, although special arrangements may be possible – please contact the instructor in these cases.

Exams: Missed exams will receive a score of zero. The instructor reserves the right to deny make-up exams. You may **only** make up a missed exam if you have an **excused absence** (See Section V, *Attendance*). Know the exam schedule and plan accordingly (see Section IV, *Exams*). Students who miss a scheduled exam due to an excused absence should request and will be given the opportunity to take a make-up exam covering the same material. In most circumstances, the make-up exam must be taken **within one week** of the original exam date at a date, time, and location coordinated with your instructor.

G. Late Work

All online quizzes and assignments will be posted on the Canvas course site and **must be completed and turned in** by the posted due date(s) to receive **full** credit. If you will be absent or late on the day an assignment or online quiz is due, please submit it **before** the due date & time. All assignments have a due date and a late submission date. For general assignments (non-homework), submissions after the due date incur a **5% penalty per every 2 days late**. However, homework assignments follow different rules: they incur a **5% penalty per week late** and can be submitted until **May 4th, 2025, at 11:59 PM**, after which no submissions will be accepted.

H. Extra Credit

Extra credit is composed of completing the textbook activities and checkpoints online. You have the opportunity to do this from the beginning of the course. NO OTHER EXTRA CREDIT opportunities will be provided.

B. Grades

Grades in this course are assigned using Fractional Grading. Your final course grade will be assigned a letter grade as determined by the following table.

A+ = >97%	A = 93-97%	A- = 90-93%
B+ = 87-90%	B = 83-87%	B- = 80-83%
C+ = 77-80%	C = 73-77%	C- = 70-73%
D+ = 67-70%	D = 63-67%	D- = 60-63%
F = <60%		

Lower division courses are also required to submit grades for work completed as of the sixth (6^{th}) Friday of the semester. These grades will be used to facilitate opportunities for students to address performance issues.

C. Grade Disputes & Errors in Grading:

If you feel an error has been made in grading or calculating points on a quiz, exam, or assignment, notify the instructor immediately. Write a note detailing your reason for the dispute and give it to the instructor within **one week** of the day the grade for that exam was posted to the class. Your opportunity to appeal the grade expires after one week. Requests for re-grades that are submitted after this deadline will not be considered. The instructor reserves the right to re-grade the entire quiz, exam, or assignment, or to reject a re-grade. The instructor reserves the right not to return graded assignments. Students will then be given the opportunity to make an appointment and review their graded assignment.

D. Grade Appeals

If you feel that the final course grade you receive in the course is not justified, there is a formal grade appeal process that is outlined by the NMSU Administrative Rules and Procedures Undergraduate Student Academic Grievances policy (https://arp.nmsu.edu/5-13/) and the NMSU Administrative Rules and Procedures Graduate Student Academic Grievances policy (https://arp.nmsu.edu/5-14/).

VII. Syllabus Modifications Statement

This syllabus is subject to revision to best fit the educational needs of the class. Any changes or modifications will be announced in class and/or on Canvas.

VIII. University Policies

A. Email Communications

Your NMSU email account is the official means of communicating with the university. Information critical to your success at NMSU is delivered to you via this account, and you are expected to follow rules and policies provided to you via this communication method. Any email from you to the instructor should be sent either through the CANVAS course management system or through your official NMSU email account. Please be advised that due to privacy and security concerns, we are unable to respond to emails from or about students that do not originate from an official NMSU email address.

B. Plagiarism

Plagiarism is using another person's work without acknowledgment, making it appear to be one's own. Intentional and unintentional instances of plagiarism are considered instances of academic misconduct and are subject to disciplinary action such as failure on the assignment, failure of the course or dismissal from the university. The NMSU Library has more information and help on how to avoid plagiarism at http://lib.nmsu.edu/plagiarism/

C. Netiquette

Netiquette is the correct or acceptable way of communicating on the internet

Example of Web Netiquette Expectations

1. Always be polite and respectful online correspondences.
2. Do not attack. Listen gently to others views.
3. Pay attention to your word choice. Be sensitive to others.
4. Use spell check.
5. Avoid using all caps. (All caps is considered to be shouting.)

D. Student Support Services, Discrimination and Disability Accommodation, Academic Misconduct, Important Dates, and other NMSU information

Section 504 of the Rehabilitation Act of 1973 and the American with Disabilities Act Amendments Act (ADA) covers issues relating to disability and accommodations. If a student has questions or needs an accommodation in the classroom (all medical information is treated confidentially), contact your respective campus' office.

Disability Access Services
Corbett Center Student Union Room 204
575-646-6840
das@nmsu.edu

New Mexico State University, in compliance with applicable laws and in furtherance of its commitment to fostering an environment that welcomes and embraces diversity, does not discriminate on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, retaliation, serious medical condition, sex (including pregnancy), sexual orientation spousal affiliation, or protected veteran status in its programs and activities, including employment, admissions, and educational programs and activities. **You may submit a report online at https://equity.nmsu.edu. If you have an urgent concern, please contact the office of Institutional Equity at 575-646-3635. Title IX prohibits sex harassment, sexual assault, dating and domestic violence, stalking and retaliation. For more information on discrimination or Title IX, or to file a complaint, contact:**

Office of Institutional Equity (OIE)
O'Loughlin House, 1130 University Avenue
Phone: (575) 646-3635 E-mail: equity@nmsu.edu
Website: http://equity.nmsu.edu/

IX. Letters of Recommendation

I am happy to write recommendation letters for students; however, I require students to meet the following criteria:

- You must achieve a grade in this course of at least a B.
- You must have been a student in one of my classes within the last three years.
- Your overall GPA must be at least 3.0.
- You must meet with me for at least thirty minutes to discuss your educational and career goals, your past and current activities, and any other information you would like me to draw attention to in a recommendation letter.
- You must send me a Resume, Curriculum Vitae, personal statement, or other document detailing your relevant employment, volunteering, and academic history.
- You must send me links to the schools and programs you are applying to.
- You must provide me at least two weeks to write and submit a letter.

These requirements are not arbitrary; they are to ensure that I have the necessary resources, knowledge, and time to write a great recommendation letter for you.

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # G-5

☒ Action Item
☐ Consent Item
☐ Informational Item

Presented By: Kim Rumford, Chief Budget Officer
Rick Marlatt, Dean, College of HEST
Alexa Doig, Nursing Department Head

Agenda Item:

Nursing Anesthesiology Program Fee Request

Requested Action of the Board of Regents:

Approval of Nursing Anesthesiology Program Fee Increase Request

Executive Summary:

Requesting an increase from $1,000 to $1,300 per semester for Nursing Anesthesiology program fee to cover costs of program expenses related to supplies, equipment, and services consumed by students. Effective Fall 2026.

References:

N/A

Prior Approvals:

Provost 08/18/2025
University System Budget Committee 08/22/2025
President
Regents Financial Strategies, Performance and Budget Committee 09/09/2025 (Pending)

School of Nursing
College of Health Education and Social Transformation
New Mexico State University
P.O. Box 30001, MSC 3185
Las Cruces, New Mexico 88003-8001
Phone: (575) 646-3812 Fax: (575) 646-2167

To: Dr. Kimberly Rumford, Chief Budget Officer

Through: Dr. Rick Marlatt, College of HEST Dean Rick Marlatt

From: Dr. Alexa Doig, School of Nursing Director

Subject: Updated Student Program Fee for Nurse Anesthesiology DNP Students

Date: July 17, 2025; revised following UBC on 8/25/25

The NMSU School of Nursing is requesting approval to increase the semester-based program fee for students enrolled in the Nurse Anesthesiology DNP (DNP-NA) program (program code: MG-NURP-DNP (NUAN)) from $1,000 to $1,300 per semester, effective Spring 2026. This increase would apply to both current and future student cohorts.

Purpose of the Fee

The student program fee covers individual student expenses, including required equipment, software, and educational licenses, necessary for successful completion of the Nurse Anesthesiology DNP program.

Rationale for the Increase

After two years of implementation, the DNP-NA Program Director conducted a reassessment of the resources required for each student. Some items originally included in the fee have been removed, while new items—essential to the program's academic and clinical requirements—have been added. A detailed breakdown of the updated items and associated costs is provided in Table 1.

Even with this proposed fee increase, the NMSU DNP-NA program remains one of the most affordable nurse anesthesiology programs among peer institutions. A comparison of total program costs is included in Table 2.

Student Consultation and Support

Meetings were held with each student cohort to review the proposed change, and an anonymous survey was distributed to all enrolled students. The vast majority expressed support for the increase, noting that the original program fee proposal anticipated a higher amount of $1,600 per semester. Full survey results are attached.

Financial Impact for Students

New Mexico resident students currently receive a stipend of $1,500 per semester from the Nurse Anesthesiology RPSP fund. This stipend fully offsets the proposed program fee, ensuring no net increase in out-of-pocket costs for these students.

Justification of Expenses

Students in nurse anesthesiology programs are required to purchase academic subscriptions, standardized testing and certification preparation materials, and personal medical equipment necessary for both laboratory learning and clinical training. These resources are essential to meeting the accreditation standards set by the National Council on Accreditation of Nurse Anesthesia Educational Programs (COA). Table 1 provides a detailed breakdown of the items covered by the program fee.

Including these expenses within a semester-based program fee provides two key benefits for the students:

1. **Financial Aid Eligibility** – Program fees are included in the official cost of attendance, allowing students to use financial aid to cover these expenses.
2. **Cost Distribution** – Students are able to spread costs evenly over the length of the program rather than paying large, up-front expenses out of pocket.

Some items, such as the hand-held ultrasound device ($4,250), are prohibitively expensive for most students to purchase individually. Therefore, the SON will purchase 24 V-Scan Ultrasounds ($4250 each) every three years for use by the nurse anesthesiology students during labs and simulation experiences. This allows each student to have their own ultrasound to use during the labs, but distributes the cost over the three cohorts of students.

In addition, certain resources are only available through institutional licenses, and others can be obtained at a lower cost when purchased in bulk by the School of Nursing. These arrangements ensure that students receive all required resources at the most affordable rate possible.

The nine-semester, 102-credit, DNP-NA program enrolls approximately 24 graduate students each year. The total program fee cost per student is $11,821.

Table 1 - Itemized Expenses

ITEM	Program Year 1	Program Year 2	Program Year 3	Item TOTAL
Academic Subscriptions & Resources				
APEX Anesthesia Review: Anesthesia learning modules. Used in all anesthesia didactic classes.	$400			**$400**
APEX Testbank: Practice exams to accompany the APEX Anesthesia Review modules.	$119			**$119**
APEX Workbook & Clipboard Sheets: Quick reference guides	$93			**$93**
McGraw's Access Anesthesia: Program subscription includes digital textbooks, review questions, and other learning modules.	$88	$88	$88	**$264**
Complete Anatomy: Program subscription provides an anatomy reference with 3D images, lectures and learning modules.	$75			**$75**
Ninja Nerd: Subscription provides physiology and pharmacology lectures with graphics and handouts.	$118			**$118**
Exxat Prism: Online platform used to track clinical compliance, as well as documenting patient cases, clinical hours, and other student/resident information for accreditation purposes.		$250 (set up fee) + $80/year	$80	**$410**
Block Buddy: App that provides up to date references on how to anesthesia blocks, POCUS, and non-surgical pain management techniques.		$99	$99	**$198**
Maverick Education: Two-day course on point of care ultrasound (POCUS) and regional anesthesia class using specially prepared and transported cadavers. 12 online education modules included.		$3000		**$3000**
Apex Workbook & Laminated Clipboard Sheets		$93		**$93**
Student Equipment & Supplies				
V-Scan Ultrasound[1]: Portable Ultrasound for regional anesthesia, POCUS, and line placement. Used in anatomy labs, Principles of Anesthesia labs and simulation experiences.	$500	$500	$500	**$1500**
Lab Supplies (non-durable): Disposable supplies used in the SON skills lab and simulation center	$420	$420	$420	**$1,260**

Standardized Testing and Certification Exam Prep				
Self-Evaluation Examination (SEE): Mandatory standardized testing during the program.		$285	$285	**$570**
APEX CRNA Boards Bootcamp: Certification exam preparation program with a two-day intensive, learning resources and practice questions			$900	**$900**
NBCNRA Certification Exam: First attempt at the national certification exam.			$995	**$995**
Miscellaneous Items				
NMSU program apparel for clinical rotations: OR jacket ($29) and scrub hats ($30), name badge ($7) and SON polo shirt ($20)	$86.00			**$86**
Professional Coaching: $25,000/year for 48 students in YR 1 and 2.	$520	$520		**$1040**
AANA Associate Student Membership: One time student membership to professional organization that comes with multiple benefits.	$300			**$300**
AANA Annual Congress Registration Fee			$400	**$400**
TOTAL COST				**$11,821**

[1] The SON will purchase 24 V-Scan Ultrasounds ($4250 each) every three years for use by the nurse anesthesiology students during labs and simulation experiences. This allows each student to have their own ultrasound to use during the labs, but distributes the cost over the three cohorts of students.

Exact Amount of Program Fee (i.e., total cost distributed over 9 semesters): $1313/semester

Proposed Student Fee: **$1300/semester**

Average number of students enrolled in each course: 24 students are admitted each year into the three year program

Student Survey Results

Attached as separate document.

DNP-NA Degree Plan

New Mexico State University- School of Nursing
DNP Nurse Anesthesiology (DNP-NA) Program
Full Time Degree Plan for Students Admitted in Fall 2025

Year	Fall	Credit	Spring	Credit	Summer	Credit
Year 1	• NURS 6160 Chemistry and Physics of Anesthesia • NURS 6120 Quality Improvement in Healthcare • NURS 6150 Advanced Anatomy • NURS 6155 Advanced Physiology	3 3 3 3	• NURS 6125 Evidence Based Practice in Healthcare • NURS 6230 Advanced Clinical Pharmacology • NURS 6235 Advanced Pathophysiology for Nurse Anesthesiology Practice • NURS 6240 Advanced Health Assessment for Nurse Anesthesiology Practice • NURS 6700 Intro to Clinical Residency	3 3 4 3+1 1	• NURS 5120 Nursing Informatics • NURS 6245 Advanced Pharmacology for Nurse Anesthesiology Practice • NURS 6305 Intro to the DNP Project • NURS 6610 Nurse Anesthesiology Principles I	3 3 1 3+1
	Subtotal	12	Subtotal	15	Subtotal	11
Year 2	• NURS 6130 Epidemiology for Advanced Practice Nursing • NURS 6255 Innovations and Health Care Organizations • NURS 6620 Nurse Anesthesiology Principles II • NURS 6710 Clinical Residency I • NURS 6991 DNP Project Development	2 3 3+1 3 2	• NURS 6110 Intro to Population Health • NURS 6135 Interdisciplinary Leadership and Role Development for Practice Excellence • NURS 6630 Nurse Anesthesiology Principles III • NURS 6720 Clinical Residency II • NURS 6991 DNP Project Development	1 3 3+1 3 2	• NURS 6215 Professional Aspects of Nurse Anesthesiology Practice • NURS 6640 Nurse Anesthesiology Principles IV • NURS 6730 Clinical Residency III • NURS 6991 DNP Project Development	3 3+1 2 1
	Subtotal	14	Subtotal	13	Subtotal	10
Year 3	• NURS 6265 Strategic and Financial Planning for Clinical Programs • NURS 6650 Nurse Anesthesiology Principles V • NURS 6740 Clinical Residency IV	3 3+1 3	• NURS 6250 Healthcare Policy & Ethics • NURS 6750 Clinical Residency V • NURS 6270 Clinical Data Management and Analysis • NURS 6770 Rural Health Anesthesiology Seminar	3 3 2 3	• NURS 6771 Anesthesiology Integration/Clinical Correlation • NURS 6760 Clinical Residency VI	4 2
	Subtotal	10	Subtotal	11	Subtotal	6
	Anesthesiology Clinical Hours = 2400 (150 hours/credit) Skills Lab and Simulation Hours = 90 (15 hours/credit)		DNP Project Practicum/Leadership Hours = 128 (64 hours/credit)		**Grand Total**	**102**

*Revision Date: 03/20/2025 Degree plan subject to change

Table 2 - Comparison of Total program Costs (excluding textbooks) for Peer Institutions - Doctor of Nursing Practice (DNP) – Nurse Anesthesiology/Anesthesia Programs

[1]

Program name/location	Total program cost – base in-state tuition + tuition differential	Program Fees	Total Tuition & Fees (entire 3 year program)
Midwestern University	$166,347	Incl.	$166,347
University Southern California	$152,625	$4,000	$156,625
Oregon Health Sciences University	$132,219	Incl.	$132,219
The Ohio State University	$115,020	$16,551	$131,571
Westminster College, UT	$122,490	Incl.	$122,490
Texas Wesleyan University	$119,048	Incl.	$119,048
Baylor College of Medicine, TX	$79,566	$34,200	$113,766
Murray State University	$112,167	Incl.	$112,167
Samuel Merritt University, CA	$110,697	Incl.	$110,697
University of Wisconsin	$99,600	$9,800[2]	$109,400
Texas Christian University	$105,619	$1,150	$106,769
University of Arizona	$103,738	Incl.	$103,738
New Mexico State University	**$88,787**	**$11,821**	**$100,608**
Florida State University	$88,500	$7,095	$92,595
California State University – Fullerton[1]	$73,800	$16,500	$90,300
University of Iowa	$80,658	$3,234	$85,553
Missouri State University	$84,000	Incl.	$84,000

[1]Program supported and subsidized by Kaiser Permanente

[2]Additional out-of-pocket expenses that are included in NMSU's program fee

Budget Office
MSC 3AA
New Mexico State University
P.O. Box 30001
Las Cruces, NM 88003-8001
575-646-2431, budget@nmsu.edu

Request for Course Fees

Date:	6-17-25	Requesting Department:	School of Nursing
College:	HEST	Contact Name & Phone Number:	Alexa Doig 575-646-1668
Requested Effective Semester	Spring 2026	Course Prefix & Number	Semerster-based fee
Course Name	Semerster-based fee	No. of Credit Hours	Semerster-based fee

Amount Requested____$1600____per semester x 9 ☐ Per Course ☐ Per Credit Hour (If multiple courses, attach summary.)

Please Forward to Next Reviewer/Approver.

Submitted By:	*Date of Approval*	*Comments:*
Department Head	7-17-25 Date	
Rick Marlatt **Dean, College**	7/17/25 Date	

Review-Budget Office	*Date of Review*	*Comments*
Kim Rumford **Chief Budget Office**	8/15/2025 Date	Reviewed by Budget Office

☒ **Forward to Provost for Approval** ☒ **Forward to University System Budget Committee Approval**

Approval – Provost & Chief Academic Officer	*Date of Approval*	*Comments:*
Lakshmi Reddi **Provost & Chief Academic Officer**	8/18/2025 Date	Approved

Approval – University System Budget Committee	*Date of Approval*	*Comments:*
Meeting Date: 8/22/2025 Voting Results: X yes _____No	8/22/2025 Date	Approved

Please attach detailed request to include:

- Justification
- Itemized Costs
- Average number of students enrolled in course
- A copy of the syllabus when possible

1. What class are you in (i.e., Class of 2026 is when you graduate)?

2026: 17

2027: 18

2. Apex anesthesia is an online learning system used in conjunction with your program. Use of APEX anesthesia is associated with a higher pass rate on didactic exams and the National Certification Exam (NCE). The cost is $400 per student for 3 years.

Do you want APEX anesthesia included in your program fees?

2026: Yes- 16 No- 1

2027: Yes-18 No- 0

3. APEX Test Bank is a subscription to the last year of your program. The test bank provides thousands of questions to help prepare you for the National Certification Exam (NCE). Testing yourself is an important way to practice retrieval of important concepts. The cost is $119.

Do you want APEX Test Bank the last year included in your program fees?

2026: Yes -16 No -1

2027: Yes- 18 No- 0

4. Maverick Education is a two-day intensive cadaver POCUS and ultrasound regional class with online modules. The instructors and equipment come from Dallas and prepare you with hands on experience driving needles, placing blocks and doing FAST exams. The cost is $3000.

Do you want Maverick Education included in your program?

2026: Yes- 17 No- 0

2027: Yes- 17 No- 1

5. During orientation, you receive a GE handheld ultrasound. The ultrasound is used in various classes and in required labs to assess patients and perform regional anesthesia. The cost is $4250. Upon graduation and your degree confirmation, you may keep the ultrasound for your use.

Do you want the GE handheld ultrasound included in your program fees?

2026: Yes- 10 No- 0

2027: Yes- 17 No -1

6. After the didactic year, you will take your first Self-Evaluation Exam (SEE). You will take the second SEE six months before graduation. The SEE prepares you to take the NCE by learning the format, decreasing anxiety and giving you a breakdown on domains you did well in and those that need improvement. The SEE exams are $285 each. The NCE costs $1000. The total for 2 SEEs and 1 NCE is $1570.

Would you like the SEEs and NCE included in your program fees?

2026: Yes- 16 No- 1

2027: Yes- 18 No -1

7. APEX boot camp is an intensive board review program that prepares the NAR for the NCE. NMSU faculty highly recommend this comprehensive review, not only for the NCE but also to review concepts from earlier in the program. The cost is $900.

Would you like the APEX boot camp included in the program fees?

2026: Yes- 12 No- 5

2027: Yes- 17 No - 1

8. Becoming a CRNA is more than learning to do anesthesia. It is a new career and profession. Part of your professional responsibility is to support the American Association of Nurse Anesthesiologists with membership and meeting attendance. NMSU requires that all students and NARs be student members of the AANA. The cost is $300/year or $900 for the duration of the program. As part of one of your classes, attendance at one AANA meeting is required while in the program.

The registration is $400. Do you want $1300 (AANA membership and meeting registration) included in your program fees?

2026: Yes- 15 No-2

2027: Yes- 18 No- 9

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # G-6

☒ Action Item
☐ Consent Item
☐ Informational Item

Presented By: Chris Kinsley
Interim Vice President for
Administration and Finance

Agenda Item:

Capital Funding Amendment Request

Requested Action of the Committee:

Approval of Capital Funding Amendment Request

Executive Summary:

Amendment to the current capital funding request.

References:

N/A

Prior Approvals:

Board of Regents April 30, 2025

Regents Financial Strategies, Performance and Budget Committee 09/09/2025

Capital Funding Request Amendment

Interim Vice President For Administration And Finance
Chris Kinsley

September 15, 2025

BE BOLD. Shape the Future.®
New Mexico State University

Capital Request: As Approved April 30, 2025

Main Campus

1. $100,000,000 - New Multi-Disciplinary Academic Facility (MDAF)
2. $35,000,000 - NMSU Systemwide Infrastructure Modernization: Utilities, Telecommunications, and Transportation

Ag Science Centers

1. $30,000,000 - Ag Science Centers Facility Improvements – Statewide

Branch Campuses

1. $4,000,000 - DACC Sunland Park Upgrade/Renovation
2. $1,500,000 - Alamogordo Campus Electronic Access Control
3. $2,000,000 - Grants Campus Electronic Access Control

Capital Request: Proposed Change

Main Campus

1. $100,000,000 - New Multi-Disciplinary Academic Facility (MDAF)
2. $35,000,000 - NMSU Systemwide Infrastructure Modernization: Utilities, Telecommunications, and Transportation

Ag Science Centers

1. $30,000,000 - Ag Science Centers Facility Improvements – Statewide

Demolition Projects

$15 Million for Cole Village Completion

Branch Campuses

1. $4,000,000 - DACC Sunland Park Upgrade/Renovation
2. $1,500,000 - Alamogordo Campus Electronic Access Control
3. $2,000,000 - Grants Campus Electronic Access Control

Cole Village Demolition - $15 Million

- Completes funding of Phase 3 and 4 of Cole Village Demolition
- Includes Site Restoration
- Project Cost based on Independent Third Party Estimates

Questions?

Board of Regents Meeting
Meeting Date: September 15, 2025
Agenda Item Cover Page

Agenda Item # I

☐ Action Item
☐ Consent Item
☒ Informational Item

Presented By: **Les Owen**
Deputy Director
New Mexico Department of Agriculture

Agenda Item: Report from the New Mexico Department of Agriculture to the Regents of New Mexico State University (Board of Agriculture)

Requested Action of the Board of Regents: None. Information only.

Executive Summary: This is a quarterly report provided to the Board of Regents from the New Mexico Department of Agriculture

References:
See attached report.

Prior Approvals:
N/A

New Mexico Department of Agriculture

BOARD OF REGENTS REPORT

September 15, 2025

Red Imported Fire Ant Quarantine:

Over 25years ago, Doña Ana County was identified as a red imported fire ant infested county by USDA-Animal and Plant Health Inspection Service-Plant Protection and Quarantine Service. The county was placed on the federal quarantine list. The quarantine resulted in additional costs and increased pesticide use by impacted industries including those exporting sod and plant nursery stock. Doña Ana County is the only New Mexico county quarantined for red imported fire ant with no other adjacent states' counties identified as red imported fire ant infested.

Over an extended period, New Mexico Department of Agriculture conducted targeted eradications, collaborations with New Mexico State University on improved molecular-based identification techniques and conducted county-wide ant surveys. In July, Secretary Witte submitted a data packet to USDA-Animal and Plant Health Inspection Service-Plant Protection and Quarantine Service requesting the delisting of Doña Ana County as a red imported fire ant county.

Early August, New Mexico Department of Agriculture received notification from USDA-Animal and Plant Health Inspection Service-Plant Protection and Quarantine Service's Acting Deputy Administrator that Secretary Witte's request for delisting was approved. The delisting represents the first county or area in the U.S. that has met the requirements for removal from the federal red imported fire ant quarantine list.

NM State Fair:

During the 2025 New Mexico State Fair (NMSF), NMDA's participation featured new exhibits, the NM Country Store, and courtyard promotions at the historical Agriculture Building at the NM Expo fairgrounds.

NMDA hosted dignitaries from the United Kingdom at a reception in the Agricultural Building September 4th. Deputy Head of Mission James Roscoe and Jennifer Groover, Head of Agriculture Policy for the British Embassy in Washington, DC visited NM. In addition to the reception at the fair, attended by leaders in the agriculture community, state legislators and other

dignitaries, we toured several farms, ranches, grape orchards and agribusinesses in the Bernalillo, Sandoval and Valencia County region.

Western United States Agricultural Trade Association (WUSATA):

Staff executed a WUSATA South America Outbound trade mission to Bogota, Colombia. Staff led a delegation of eleven (11) western U.S. agribusiness on a trade mission that included USDA Agricultural Trade Office (ATO) meeting, business-to-business (B2B) meetings, product showcase, Expo Alimentos Trade Show, and retail site visits. Two (2) of 11 Western U.S. companies participating were from New Mexico (NM).







United States Livestock Genetics Export Inc. (USLGE):

Staff led a delegation of U.S. livestock producers on a USLGE trade mission to the *Confederacion Nacional Ganadera* (CNOG) Trade Show. CNOG is Mexico's largest cattlemen convention. The trade mission included participation in a booth at the trade show, ranch site

visits, and the US/MEX/CA Tri Lateral meetings. Participants were staff and producers from New Mexico, Kansas, Missouri, and Tennessee.





Staff participated in Nutrition and Livestock Genetics Seminar in Chihuahua, Mexico. The seminar was hosted by the USDA Foreign Agricultural Service (FAS) Agricultural Trade Office (ATO), USLGE, U.S. Soybean, and the *Union Ganadera of Chihuahua*. Notable participants included USDA Agricultural Minister in Mexico City Morgan Perkins, USDA FAS ATO Mexico Agricultural Attaché, and Dan Archabal, USDA FAS Agricultural Marketing Specialist Glasgow.





USDA Secretary of Agriculture Brooke Rollins Visit to NM:

Staff coordinated a farm visit by Secretary of Agriculture Rollins to Silver Leaf Farms in Corrales, NM. Although brief, Secretary Rollins, experienced firsthand a great example of regenerative, sustainable farming in a highly intensive urban farm that markets local produce to institutional markets (schools, food banks, early child care and senior centers), as well as area farmers markets and Community Supported Agriculture (CSAs) using USDA programs and assistance. Secretary Witte also invited agricultural industry leaders from NM Cattle Growers, Dairy Producers of NM, NM Farm and Livestock Bureau, NM Wine and Grape Growers Association, and the NM Food and Agriculture Policy Council to meet at the farm and network with Secretary Rollins and her team to highlight challenges (and opportunities) that our farmers and ranchers are experiencing.




Get Your Fix:

Staff executed an extensive nationwide NM green chile marketing campaign in 2025. Staff conducted technical seminars with grocery retailer produce departments in Phoenix, Dallas, Atlanta, Wichita, Topeka, Vancouver, and Seattle to implement green chile roasting workshops. The workshops cover fresh NM chile general information, marketing tips, safety, and roasting techniques.

Staff supported the New Mexico Chile Association (NMCA) in the development and implementation of a comprehensive a national chile marketing and promoting plan utilizing a $1.0 million FY state appropriation. The marketing plan included: sponsorship opportunities, distributor marketing support (Melissa's Produce, Inc.), advertising (video, billboards, chef ambassador demos), digital media, in-person technical training, and tradeshow support.

Staff coordinated 14 influencers across the U.S. to execute a green chile social media marketing campaign. These social media influencers will be creating unique and innovated recipes infused with green chile through the Instagram platform.



DC NMSU-NMDA Annual Get Your Fix Green Chile Roast:

The popular New Mexico Get Your Fix Green Chile Roast returned to Washington DC again in 2025. The NMSU Sam Steele Council, supported by NMDA, successfully coordinated a green chile roasting at a Harris Teeter grocery store. Over 2000 pounds of green chile were roasted for alumni, ex-pats, foodies, and local consumers.







Get Your Fix Kroger Event:

Staff participated in the 2025 Kroger Corporate Hatch Event in Cincinnati, Ohio, hosting an educational booth dedicated to NM green chile. Approximately 1,200 Kroger corporate employees attended, provided an opportunity to highlight the crop's significance and promote awareness of New Mexico agriculture to a national retail audience.



National Restaurant Association Show:

Six (6) New Mexico Food Companies exhibited in the NMDA pavilion as part of the National Association of State Departments of Agriculture (NASDA), A Taste of the States Pavilion, at the National Restaurant Association Show (NRA) in Chicago, Il. NRA is the largest foodservice industry gathering in the Western Hemisphere. Staff supported New Mexico exhibitors and their efforts to market and promote their perspective products to national and international buyers. NMSU Hotel, Restaurant and Tourism Management (HRTM) students prepared food samples for attendees using ingredients supplied by the NM food companies. Highlighted products within our pavilion included Chile pepper products (salsa, sauces, purees), value-added pecans and oils and canned cocktails.







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Day at the Isotopes:

Staff executed a New Mexico Grown with Tradition/Taste the Tradition logo program booth at the annual NM Farm and Livestock Bureau Ag Day event at the Isotopes Stadium in Albuquerque. Staff engaged attendees and fans our new “Exhibit Farm” displays,

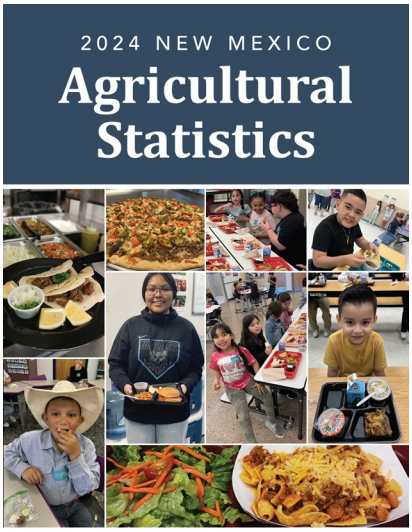
communicating the importance of agriculture to our state's economy while promoting NMDA's state food and agricultural branding program.





2024 Agricultural Statistics Bulletin:

Staff successfully published the 2024 edition of the Agricultural Statistics Bulletin in coordination with USDA National Agricultural Statistics Service (NASS). This year's bulletin cover was dedicated to our state farmers and ranchers and the high quality, nutritious, safe foods they produce for our public-school meal programs.



USDA Grant Program Status Update:

As a result of the federal government's ongoing review of grant programs administered by NMDA, updates, and status of three (3) core USDA grant programs are provided below:

Local Food Purchase Assistance Program (LFPA)- USDA allowed for a one-year extension of the original LFPA and LFPA Plus programs. This no-cost one-year extension allowed The Food

Depot to purchase local foods through September 2025, fully expending the combined $6.3 million-dollar allocation. All food purchases will be completed by the end of September to allow ample time to complete final administrative tasks for the program close out.

Specialty Crop Block Grant Program (SCBGP)- USDA released the RFA for the 2025 cycle in May, and the team has since maintained steady progress to ensure activities remain on schedule. Revision requests from USDA have been addressed and submitted, and preparatory work on drafting subcontracts is already underway. All site visits for 2025 have been completed, with any identified needs or concerns either resolved or currently being addressed.

Resilient Food Systems Infrastructure Program (RFSI)- Nine (9) of eighteen (18) approved subcontracts are fully executed, the majority being the equipment only grants due to the accelerated timeline imposed by USDA. Equipment only grants must finish by December 2025, more than one year sooner than originally expected, and the full infrastructure projects must be completed by December 2026, approximately five months earlier than the original period of performance.

American Association of Meat Processors (AAMP):

Staff hosted four (4) New Mexico meat processing companies to the 2025 AAMP Convention in Kansas City, Missouri. NM meat processing businesses met with trade show exhibitors, participated in information seminars, networked with industry suppliers and manufacturers, engaging with like-businesses across the nation. While at the trade show, NM participants made significant investments in procuring new pieces of equipment to expand their value-added product lines.

State meat processing businesses in New Mexico have since formed the New Mexico Association of Meat Processors (NMAMP). During the tradeshow, one of our state meat processing business owners was elected to the board of directors of the National American Association of Meat Processors (AAMP).



New Mexico Local Meat Processing Grant (LMPG):

Pursuant to one-time state funding FY 25 $3.0 million appropriation to NMDA, staff created and deployed a grant program to specifically address challenges state meat processors face with regards to meat byproduct disposal and wastewater compliance. Benefits from this grant will resolve environmental compliance issues, develop new innovative products in the state, less waste to landfills, more employment opportunities and business sustainability. Staff coordinated this new grant program from scratch, coordinated Requests for Proposals (RFPs), formed a grant review committee to recommend projects for funding, while providing technical support to applicants. LMPG was significantly oversubscribed (over $5.5 million in total). Ten (10) out of fifteen (15) applicants were chosen as finalists by the committee. Staff are now presently engaged in the subaward process that will be completed by the end of September 2025.

Chef Ambassadors Program:

Chefs Becky Windels and Julian Griego were recently chosen to serve as NMDA's third class of NEW MEXICO–Taste the Tradition® Chef Ambassadors, proudly representing local agriculture and cuisine across the state.

Chef Becky Windels, Executive Chef at FARMesilla in Las Cruces, brings decades of culinary expertise and a passion for local ingredients to her role as a NEW MEXICO–Taste the Tradition® Chef Ambassador. Dedicated to showcasing the state's diverse agricultural bounty, she inspires others to cook with fresh, New Mexico–grown products and to celebrate the farmers, ranchers and food artisans who make it possible.

With over 20 years of experience in the culinary industry, Chef Julian Griego is the Executive Chef and Culinary Educator at Albuquerque's Street Food Institute. A Le Cordon Bleu graduate,

Chef Julian combines fine dining experience with a commitment to culinary education and community impact, using local ingredients to train future food entrepreneurs while supporting New Mexico's agricultural producers.





Matriarch of New Mexico Marketing Campaign:

2025 marks the inaugural year of NMDA's "Matriarch of New Mexico Agriculture" campaign. The purpose of this new campaign is to recognize the respected, hard-working, and often humble women in New Mexico Agriculture who have devoted most of their lives to improving our state's agriculture industry, their community, and their family. These women are leaders, mentors, and advocates. For information on Mary Alice Garay and Margie McKeen, the 2025 "Maiden Matriarchs" who inspired this imitative, visit https://www.elevatenmag.com/matriarchs-of-nm-ag/





Nominations for the 2026 honorees were sought, and two additional "matriarchs" were selected. Their names will be released this fall.

All honorees will be featured on TV and on other digital platforms beginning in January in alignment with the United Nation's Year of the Woman Farmer initiative aimed at recognizing the critical role that women play in global food production. NMDA is also planning an in-person celebration and recognition for later this year.

Land of Enchantment (LOE) Legacy Fund:

In the second year of LOE Legacy funding, NMDA awarded over $3.3 million to 84 conservation projects. This represents a nearly $700,000 increase from FY25, showing that the state investment is already paying dividends. The LOE Legacy Fund supports three of NMDA's statutory programs: Healthy Soil Program, Noxious Weed Management Program, and Soil and Water Conservation District Program.

Soil and Water Conservation District (SWCD) Capacity Building Funding:

In the 2025 Legislative Session, NMDA received a $9 million appropriation for the SWCDs in FY26-28, intended to support and improve their organizational capacity. NMDA is administering the majority of the funding through $160,000 grants to each SWCD to implement an approved capacity building proposal. This provides the SWCDs with funding to fill critical staffing needs, secure contractors for technical and administrative services, and improve their capacity to fulfill their responsibilities under the SWCD Act.

N.M. Archaeology Field Training Program:

In the 2025 Legislative Session, NMDA received a $300,000 FY26 appropriation to develop and implement a statewide archaeology field school program in consultation with the New Mexico Department of Cultural Affairs (DCA). NMDA is currently collaborating with DCA to deliver a program focused on professional skill development through a hybrid learning model and intensive field trainings. NMSU faculty in the Cultural Resources Management Program have been consulted on curriculum development and will help advertise program to NMSU students and alumni. The program rollout occurred at end of August 2025.

Temporary Suspension of New Mexico's Biodiesel Mandate:

The New Mexico Department of Agriculture is responsible for regular and periodic monitoring of biodiesel supplies and price concerning the implementation of the biodiesel mandate (Petroleum Products Standards Act, section 57-19-28 NMSA 1978). While the biodiesel mandate was a well-intentioned tool to incentivize the production and use of biodiesel in the state, it has not been utilized. NM has never approached levels of biodiesel sales or blending to fulfil the mandate, and the Secretary of the Department of Agriculture, in consultation with the Secretary of Energy Minerals and Natural Resources Department, have been suspending the mandate requirements per statute since 2011. Challenges result from incentives offered by other states which limit the supply available to NM, as well as from the state's petroleum retail infrastructure which does not facilitate appropriate distribution statewide.

----------END OF REPORT----------