

New Mexico State University Main Campus Combined Research and Extension Plan of Work 2020-2024

Status: Final
Date: 08/28/2019

I. Plan Overview

1. Executive Summary

New Mexico State University College of Agricultural, Consumer and Environmental Sciences (ACES) research, academic, and Extension activities fall into four broad strategic themes or pillars, which consist of our planned programs for this Plan of Work. Each planned program is comparable to a NIFA portfolio, with associated Knowledge Areas (KAs). The four college strategic themes are: Food & Fiber Production and Marketing, Water Use and Conservation, Family Development and Health of New Mexican, and Environmental Stewardship.

ACES uses the Academy of Sciences definition of agriculture: the service of producing, distributing, marketing, and consuming food and fiber. This incorporates use, conservation, development, and management of air, land, and water resources.

The Food & Fiber Production and Marketing planned program contains the KAs dealing with animal genetics and genomics, nutrition, reproduction, physiology, stresses, and management systems; genetics, genomics, stresses, efficiencies, and management systems of plants; and pests and pathogens of plants and animals, weeds, biological control and integrated pest management systems, and animal welfare/protection, as well as economics and marketing of agricultural products and businesses. It also incorporates the KAs dealing with new and improved food products and processing techniques, quality maintenance, and protection from pathogens. Additionally, it covers community development and economic policy.

The Water Use and Conservation planned program deals with water in its various facets, including irrigation, policy, conservation, use. These aspects naturally overlap with the production and environmental planned programs.

ACES' Family Development and Health of New Mexican strategic theme includes nutrition and nutrition education, healthy lifestyles, family resource management, family development, and how social changes affect individual. It also covers programs involved with youth development.

The Environmental Stewardship planned program contains the KAs covering Soil, Plant, Nutrient Relationships; Management of Saline and Sodic Soils and Salinity; Management of Range Resources; Management and Sustainability of Forest Resources; Urban Forestry; Aquatic and Terrestrial Wildlife; Conservation of Biological Diversity; Waste Disposal, Recycling, and Reuse; and Natural Resource and Environmental Economics.

2. FTE Estimates

Year	1862 Extension	1862 Research
2020	116.0	133.0
2021	120.0	140.0

2022	120.0	140.0
2023	120.0	140.0
2024	120.0	140.0

II. Merit / Peer Review Process

The Merit Review Process that will be Employed during the 5-Year POW Cycle

Internal University Panel

External University Panel

External Non-University Panel

We will use internal faculty review and external advisory group review of our planned programs. As appropriate, departments will be reviewed by a panel of NIFA and land-grant university peers.

III. Stakeholder Input

1. Actions to Seek

Use of media to announce public meetings and listening sessions

Targeted invitation to traditional stakeholder groups

Targeted invitation to non-traditional stakeholder groups

Targeted invitation to traditional stakeholder individuals

Targeted invitation to non-traditional stakeholder individuals

Targeted invitation to selected individuals from general public

Survey of traditional stakeholder groups

Survey of the general public

Survey specifically with non-traditional groups

New Mexico State University uses a variety of methods to inform and collect feedback from our stakeholders. We continually evaluate their effectiveness and consider new ways to communicate with our stakeholders.

2. Methods to Identify

Use Advisory Committees

Use Internal Focus Groups

Use External Focus Groups

Open Listening Sessions

Needs Assessments

Use Surveys

NMSU uses advisory committees, focus groups, and knowledge by specialists and agents to identify stakeholders.

3. Methods to Collect

Meeting with traditional Stakeholder groups

Survey of traditional Stakeholder groups

Meeting with traditional Stakeholder individuals

Meeting with the general public (open meeting advertised to all)

Survey of the general public

Meeting specifically with non-traditional groups

The College of ACES meets with individuals and groups throughout the year to garner input directly.

4. How Considered

In the Budget Process

To Identify Emerging Issues

Redirect Extension Programs

Redirect Research Programs

In the Staff Hiring Process

In the Action Plans

To Set Priorities

Feedback from our stakeholders is used to plan the College's priorities in research and extension. This includes budget allocations and hiring decisions.

IV. Critical Issues

1 Food & Fiber Production and Marketing

Description:

Food & Fiber Production and Marketing focuses on several key areas that support the growth and improvement of plant and animal agricultural products in New Mexico. This includes dealing with animal genetics and genomics, nutrition, reproduction, physiology, stresses, and management systems; genetics, genomics, stresses, efficiencies, and management systems of plants; and pests and pathogens of plants and animals, weeds, biological control, and integrated pest management systems. Additionally, this plan will support research for animal welfare/protection, as well as economics and marketing of agricultural products and businesses. NMSU is expanding transdisciplinary research with a focus on food processing, food safety, and developing value-added agricultural products that support community development and the New Mexico economy.

Term: Long

Science Emphasis Areas

Agroclimate Science
Bioeconomy, Bioenergy, and Bioproducts
Food Safety
Sustainable Agricultural Production Systems

2 Water Use and Conservation

Description:

Water is the most limiting resource for New Mexico. Therefore, research and extension efforts on water-related issues are critical. Efforts will focus on various facets of water management systems, including irrigation, policy, conservation, and use. These activities naturally overlap with the production and environmental aspects of programming.

Term: Long

Science Emphasis Areas

Agroclimate Science
Environmental Systems
Sustainable Agricultural Production Systems

3 Family Development and Health of New Mexicans

Description:

The NMSU College of ACES takes pride in caring for the whole family unit from physical to mental health. Research focuses on human behavior, child and adolescent development, human nutrition and food science, clothing and textiles and family resource management. This critical issue also includes youth development programs.

Term: Long

Science Emphasis Areas

Family & Consumer Sciences

Food Safety
Human Nutrition
Youth Development

4 Environmental Stewardship

Description:

Environmental stewardship research includes soil coverage, plant, nutrient relationships; management of saline and sodic soils, and salinity. This also includes management of range resources, management and sustainability of forest resources, urban forestry, aquatic and terrestrial wildlife, conservation of biological diversity; waste disposal, recycling, and reuse; and natural resource and environmental economics.

Term: Long

Science Emphasis Areas

Agroclimate Science
Environmental Systems
Sustainable Agricultural Production Systems