

## UNIVERSITY OF MINNESOTA

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TO: Chris Steller, Minnesota Legislative Reference Library

FROM: Keeya Steel, University of Minnesota Office of Government and Community Relations

DATE: February 1, 2019

RE: University of Minnesota Agriculture and Extension Services Mandated Report

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Enclosed are two copies of the mandated report, University of Minnesota Agriculture and Extension Service Report, pursuant to 2017 Minnesota Laws Chapter 89 Article 1 Section 4 Subdivision 4(a).

This report can also be found online: <http://government-relations.umn.edu/state/legislative-materials>

If you have any questions regarding this report or to obtain additional copies, please contact the Office of Government and Community Relations at 612-626-9234.

cc: Senator Paul Anderson, Senate Higher Education Finance and Policy Chair  
Representative Connie Bernardy, House Higher Education Finance and Policy Division Chair  
Senator Torrey Westrom, Senate Agriculture, Rural Development, and Housing Finance Chair  
Representative Jeanne Poppe, House Agriculture and Food Finance and Policy Division Chair

# University of Minnesota Agriculture



- Minnesota Agricultural Experiment Station
- Extension
- College of Food, Agricultural and Natural Resource Sciences
- College of Veterinary Medicine

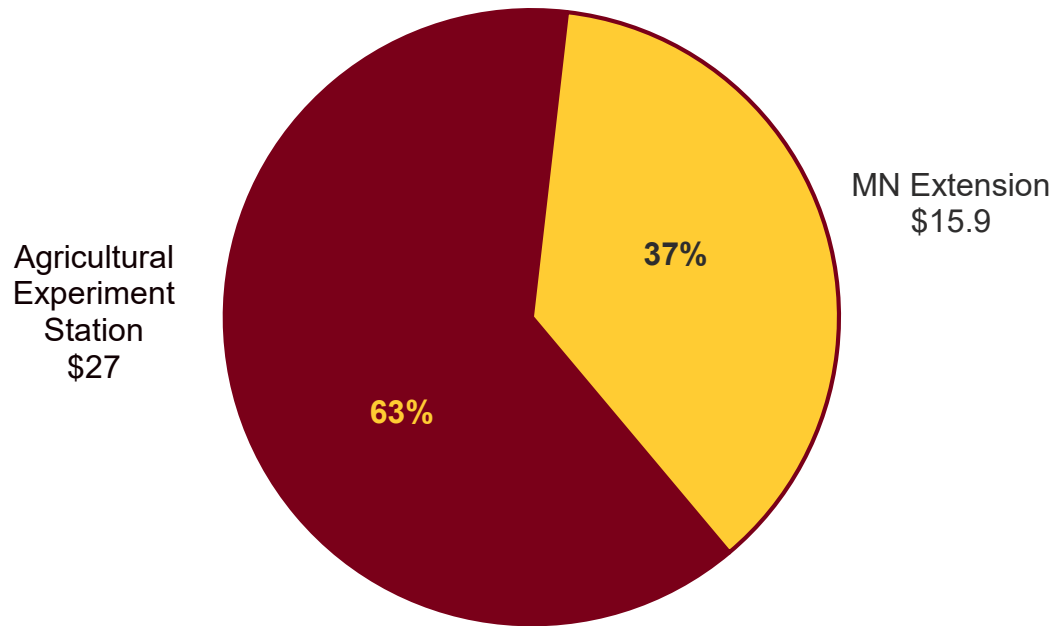


UNIVERSITY OF MINNESOTA  
**Driven to Discover<sup>SM</sup>**

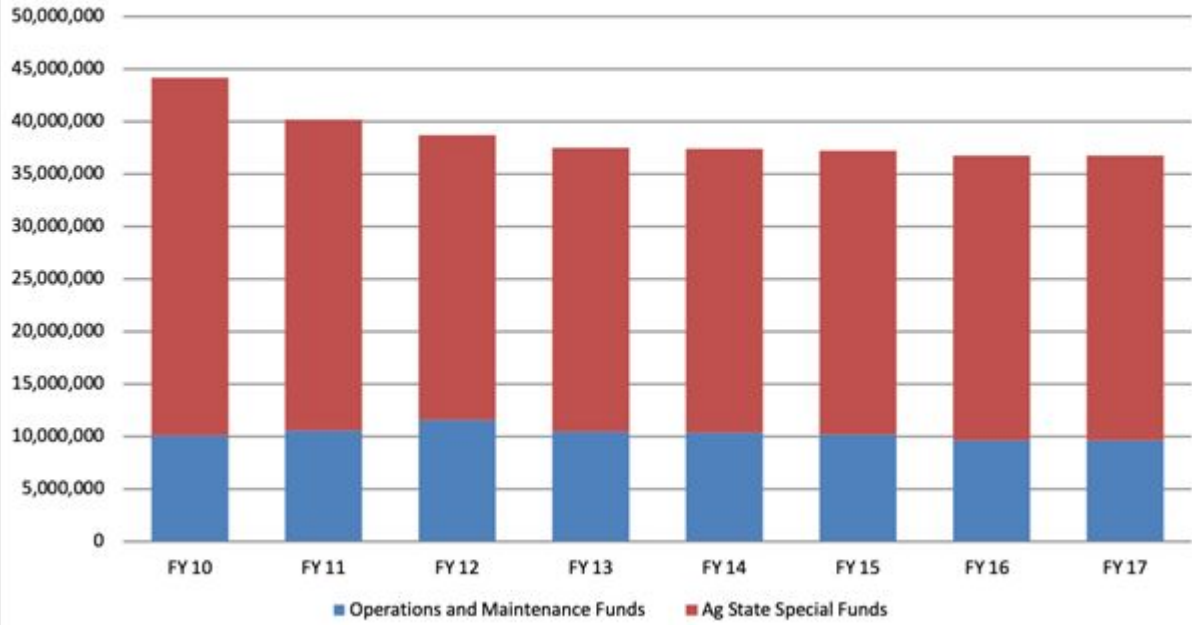
# University of Minnesota

FY18 Agriculture State Special Appropriation \$42.9M

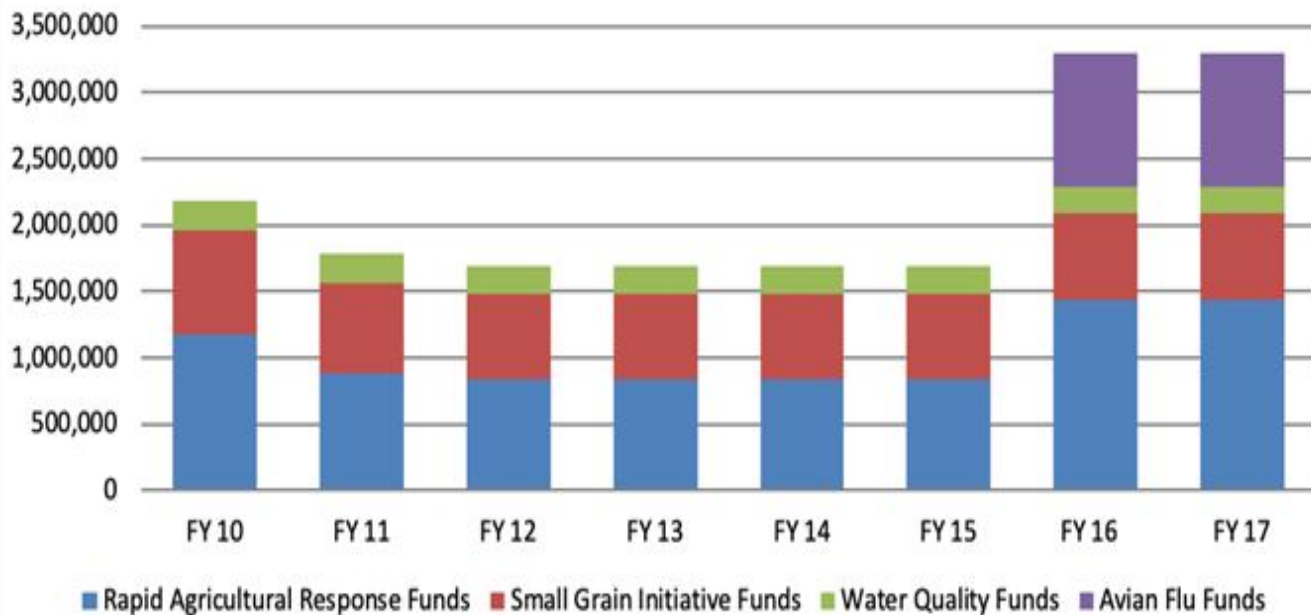
(Numbers in Millions)



**MN Agricultural Experiment Station  
Ag State Special and Operations & Maintenance Appropriation  
Fiscal Years 2010 - 2017**

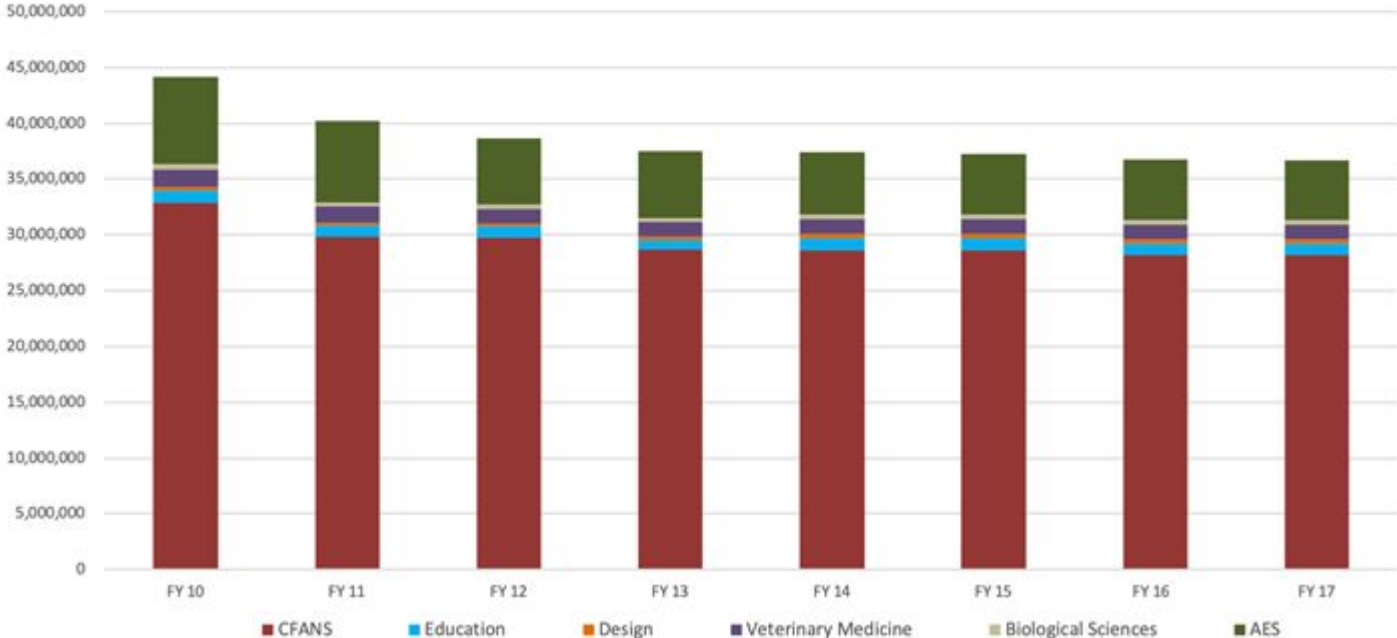


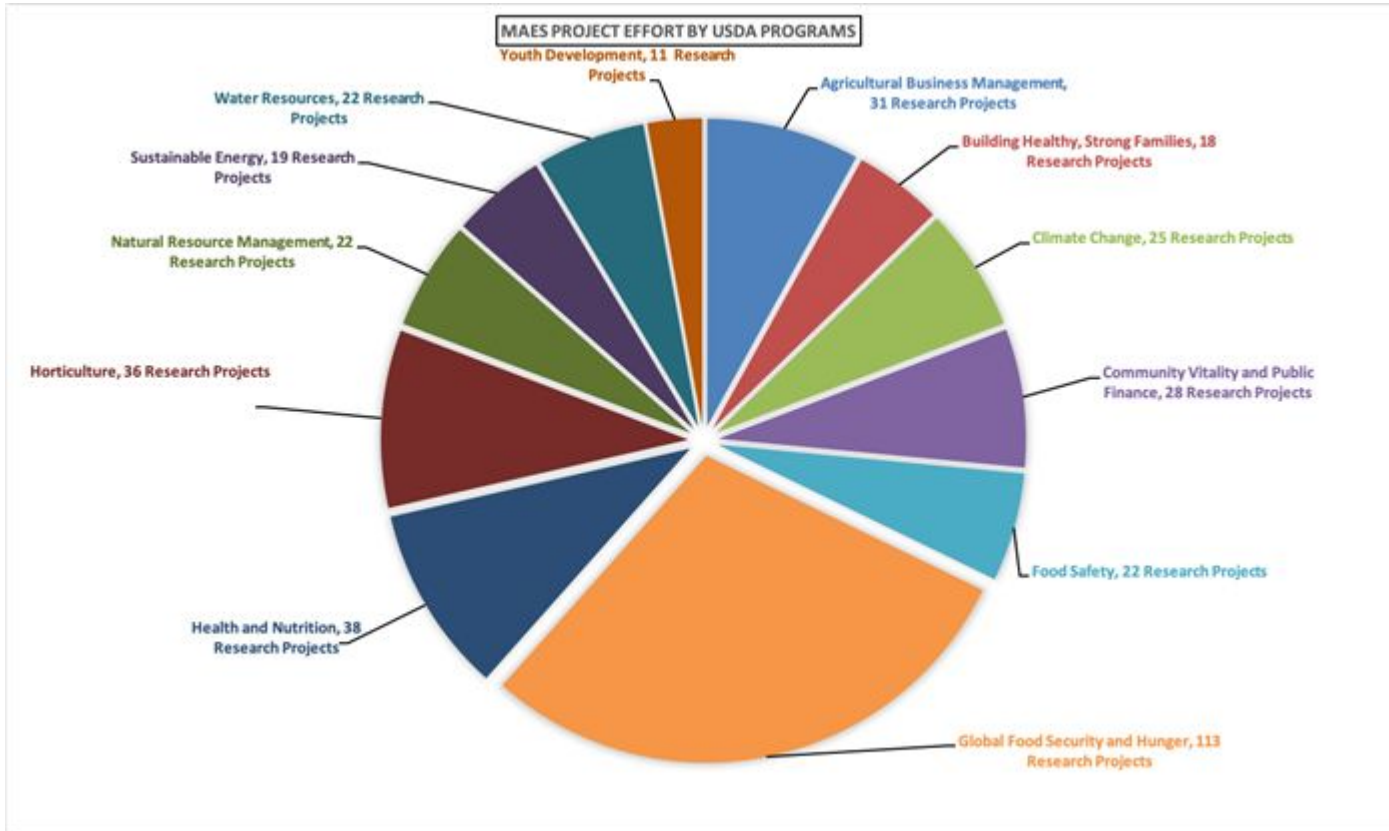
## MN Agricultural Experiment Station Special Projects Fiscal Years 2010 - 2017



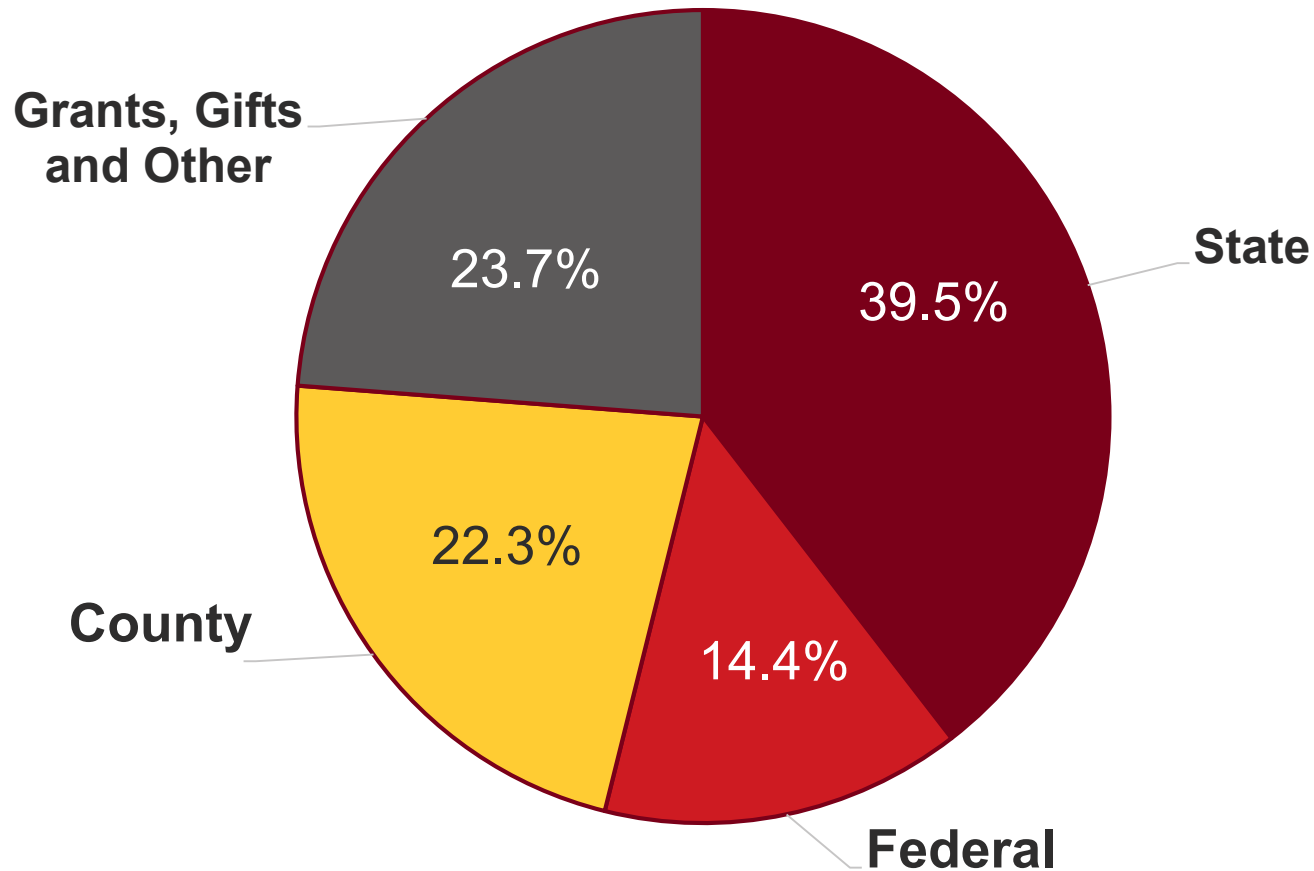


MN Agricultural Experiment Station  
 State Special and O&M Collegiate Allocations  
 Fiscal Years 2010 - 2017



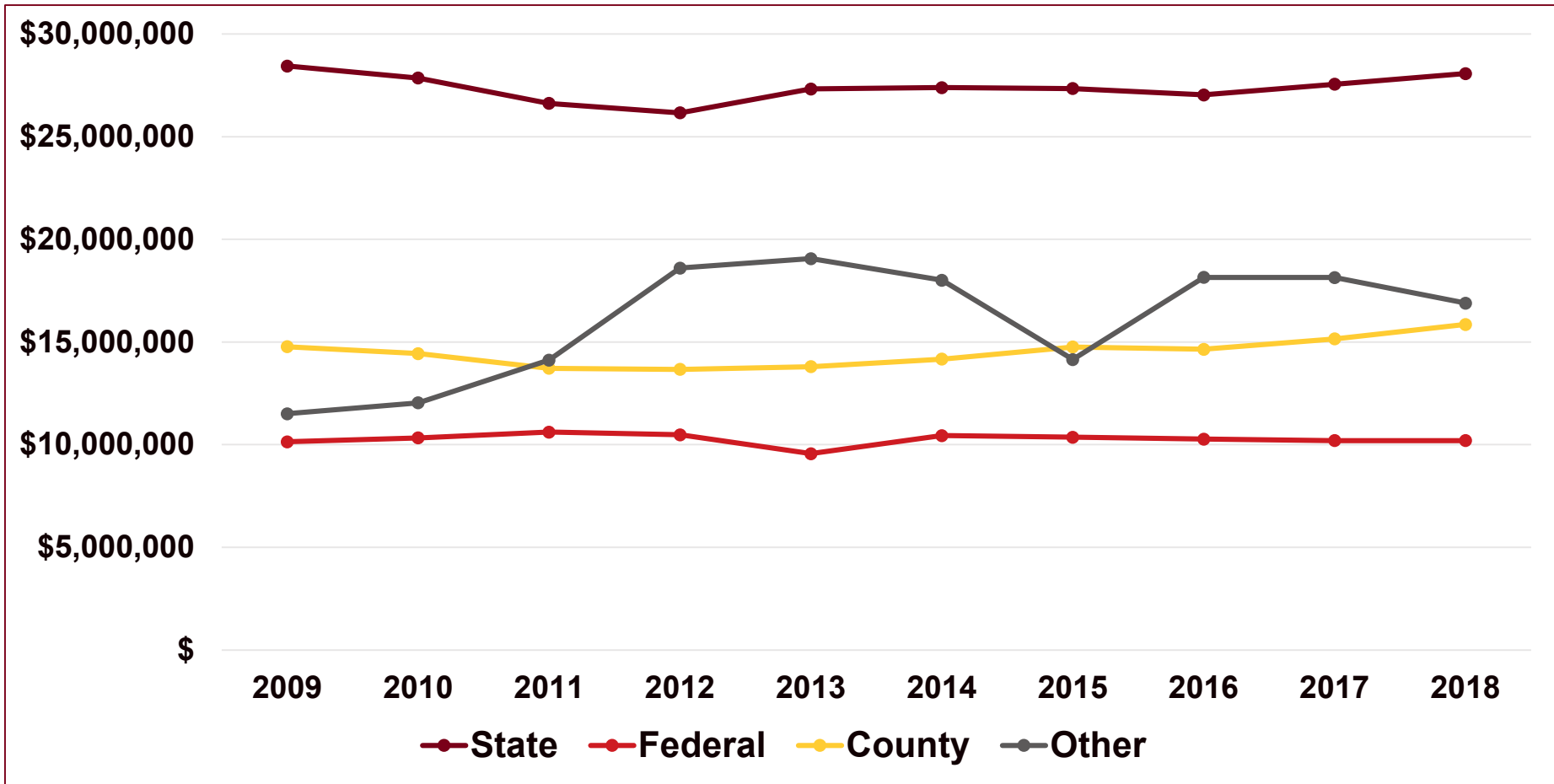


# EXTENSION 2018-19 BUDGET: \$71M



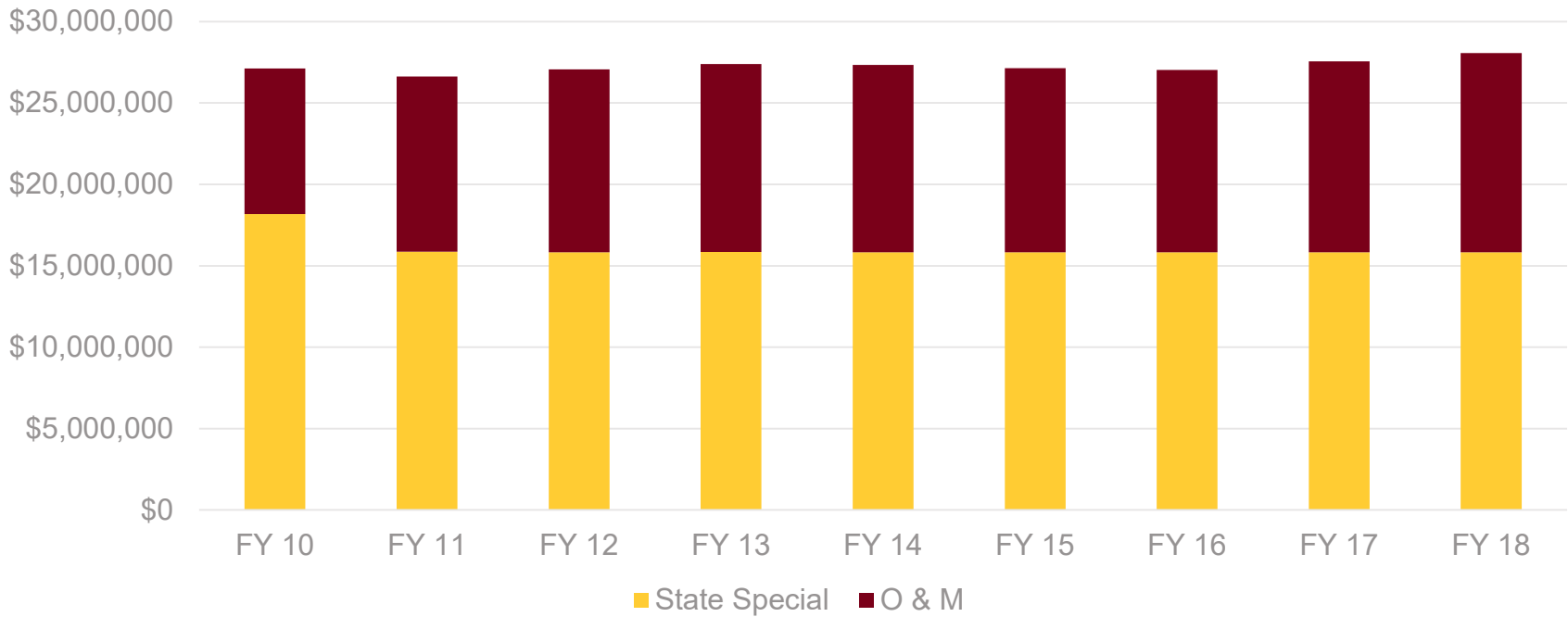


# EXTENSION FUNDING TRENDS

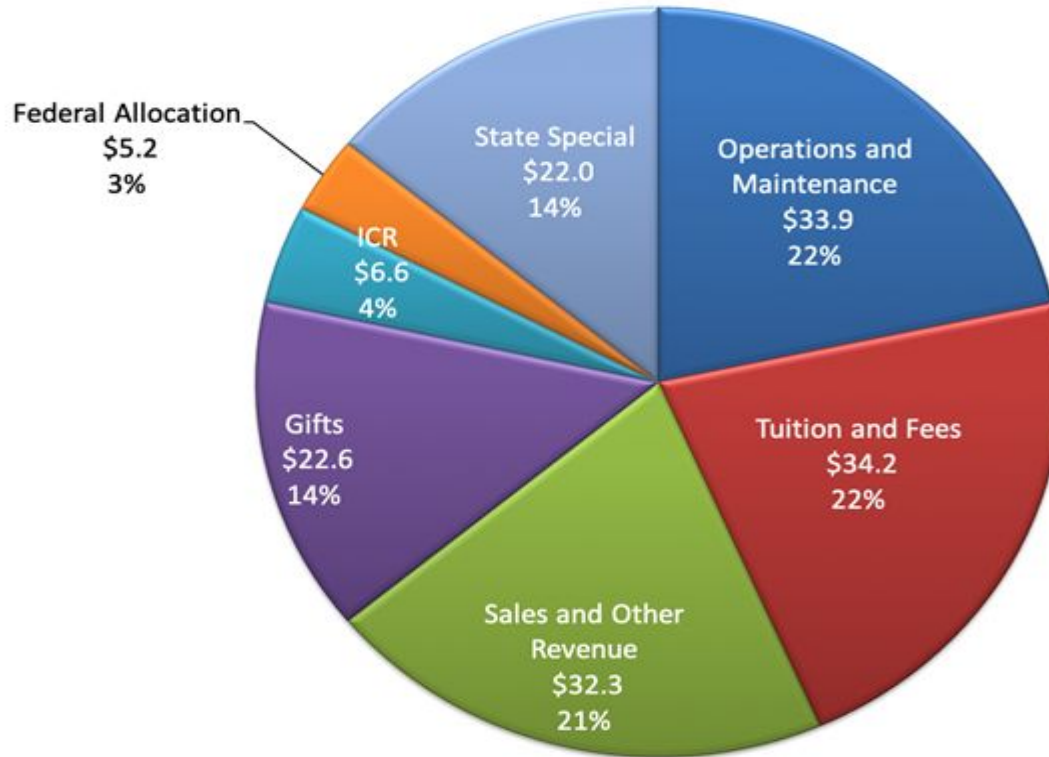


# MN EXTENSION

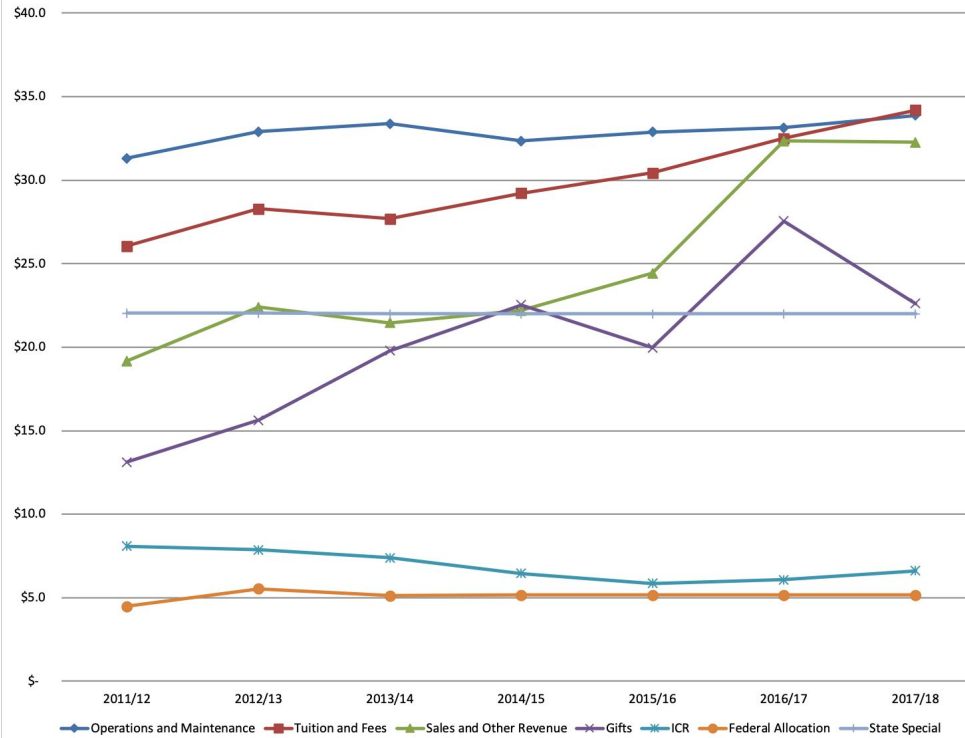
## State Specials and O&M FY10-FY18



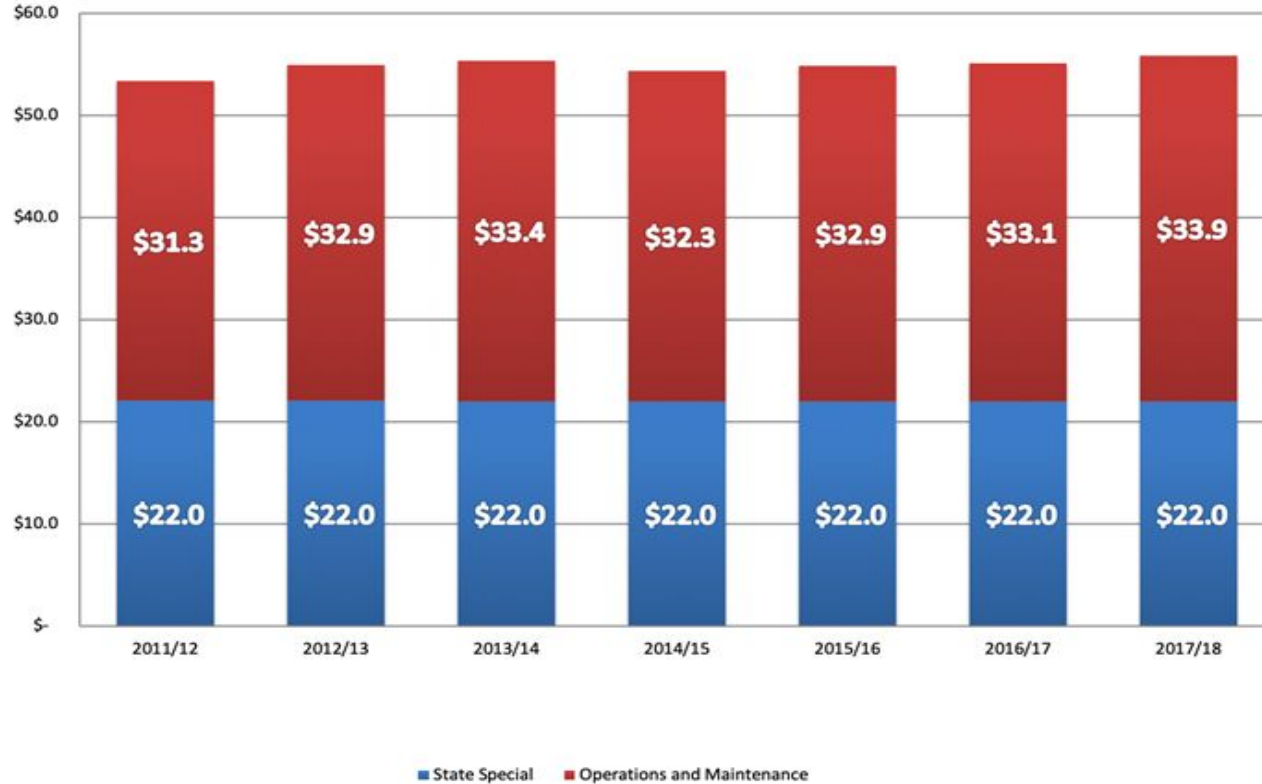
## College of Food, Agricultural, and Natural Resource Sciences 2017-2018 Resources: \$156.7 Million



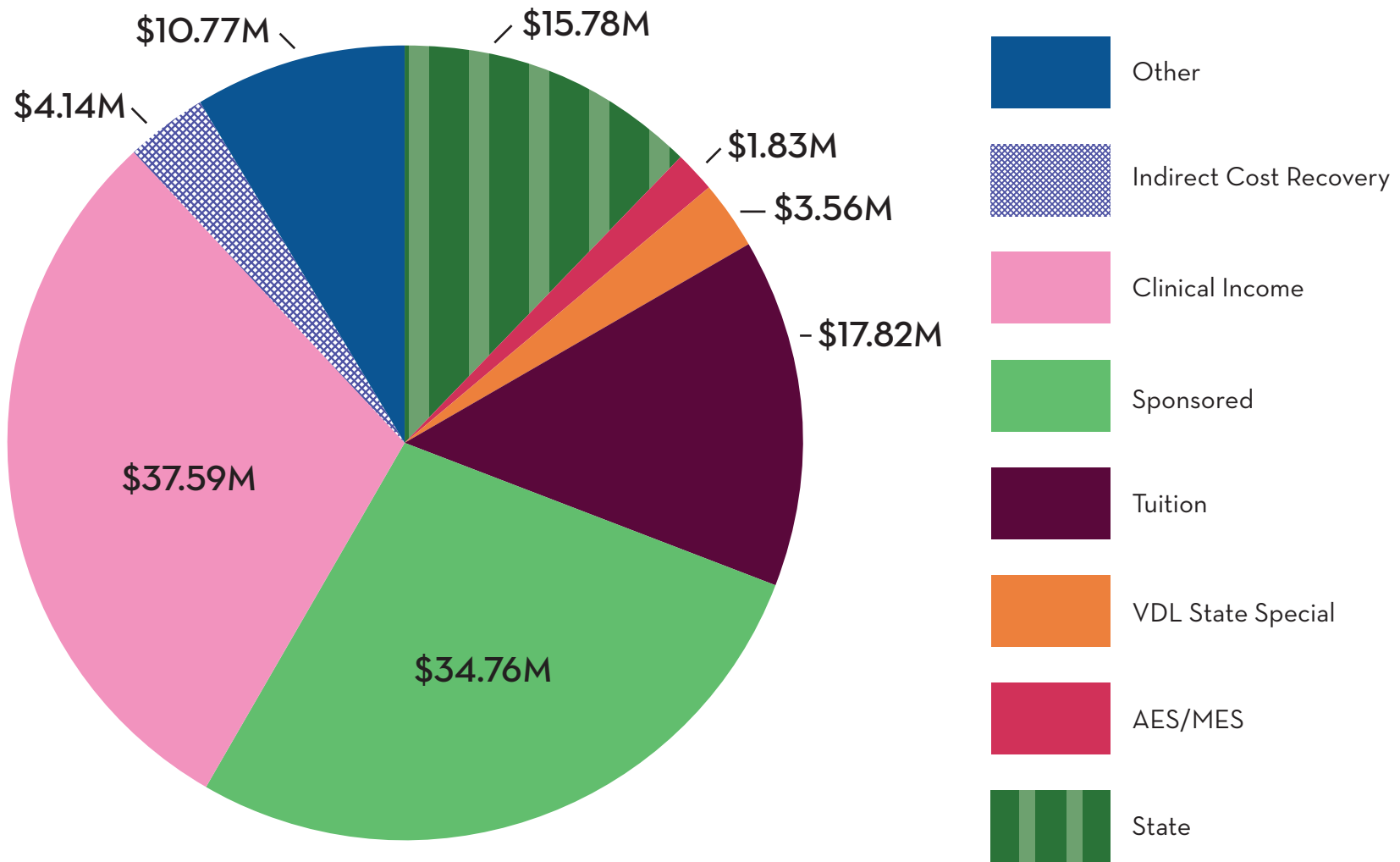
### College of Food, Agricultural, and Natural Resource Sciences Major Fund Area Trends (Millions)



## College of Food, Agricultural, and Natural Resource Sciences State Funding Trends (Millions)

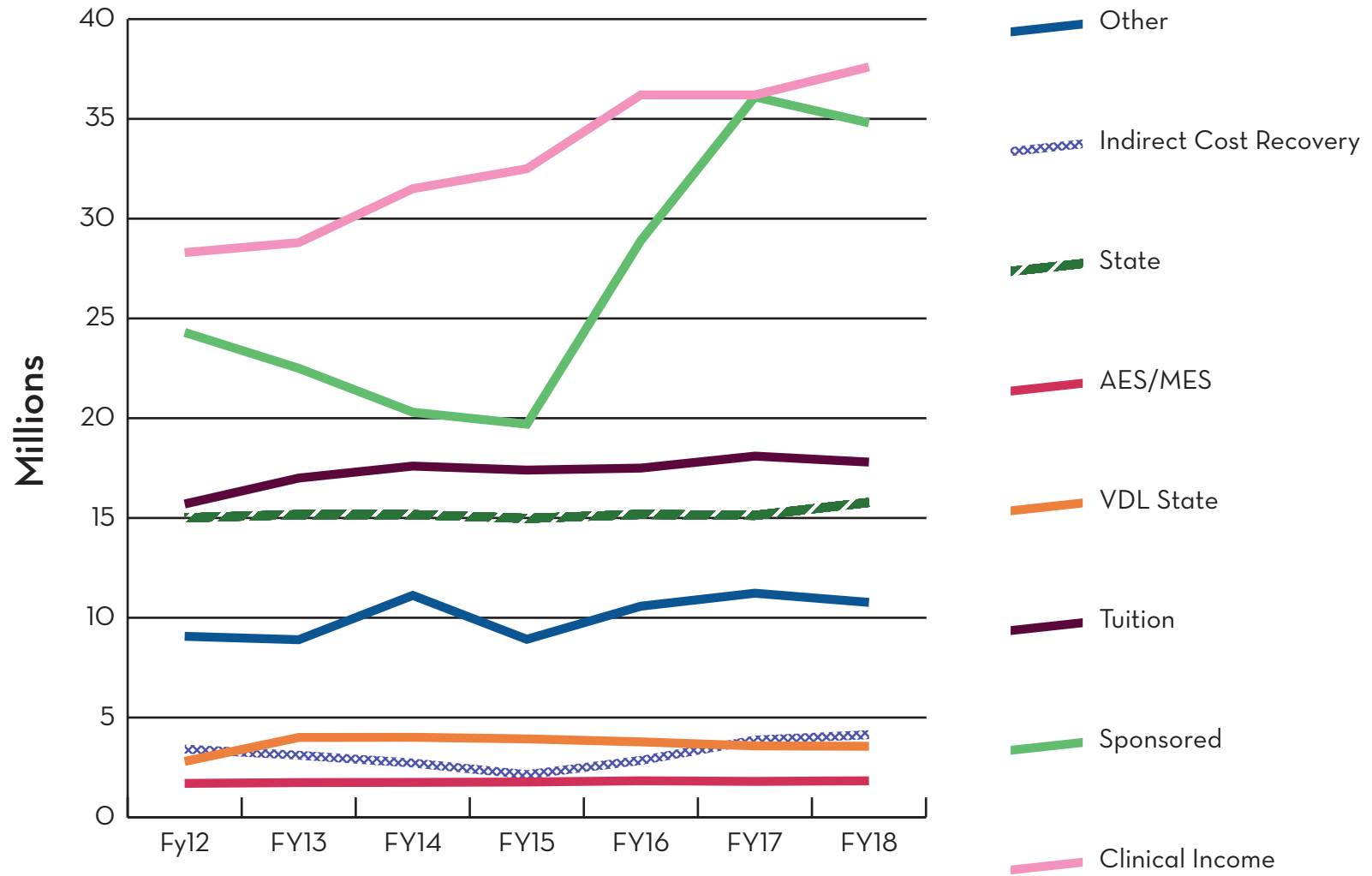


# CVM FY2018 Budget - \$126.25 Million





# CVM Funding Trends



# Agricultural Research, Education, Extension and Technology Transfer (AGREETT) Funding

- Positions Identified
  - 16 CFANS - 7 joint Extension
  - 9 Extension Educators
  - 5 CVM - 1 joint CFANS, 4 joint Extension
- First-Year Infrastructure Investment: Soils testing, oils testing, imaging tech AGP, Soil Testing Lab (\$3.56 mill), CVM and CFANS: Animal Health and Food Safety (\$550,000)
- Technician Bridging \$250k recurring
- RARF \$600,000 recurring
- HPAI \$1,000,000 recurring



# Rapid Agricultural Response Fund (RARF) Funded Projects FY18/19

- The Relationship Between Early Lactation Hoof Lesions and Behavior, Inflammatory Mediators, and Reproductive Performance in Dairy Cows
- Financial Counseling to Help Financially Stressed Producers Explore Options to Survive
- Improving Prediction of the Atmospheric Transport and Fate of Dicamba
- Spotted Wing Drosophila Risk and Management Solutions for the Wine Grape Industry
- MnPoPPA: Informing Strategies for Autogenous Vaccine Development in Poultry
- Development of Low-Carbon Footprint Energy Systems for Swine Production Facilities
- Investigating the Efficacy of Multiple Antimicrobial Interventions Against Salmonella Heidelberg Colonization in Turkeys - Renewal
- Evaluating Infestation and Potential Natural Enemies of Brown Marmorated Stink Bug in Minnesota Apple Orchards
- Development of a Novel Vaccine to Protect Turkeys from Hemorrhagic Enteritis Virus Infection
- Re-Emerging Turkey Arthritis Reovirus in Minnesota Turkeys: Development of Novel Diagnostic Assays and Control Strategies
- Characterization of Emergent Antimicrobial Resistance in Salmonella Strains Residing at the Animal-Human Interface to Guide Evidence-Based Antimicrobial Stewardship in Veterinary Medicine
- Atmospheric Pressure Non-Thermal Plasma for Sanitizing Animal Production Facility Air
- Minnesota's Rural Forests and the Expanding Emerald Ash Borer: Landscape Risks and Forest Management Response
- Stems of Steel: A Structural Engineering Approach to Improve Lodging Resistance in Cereals
- A Comprehensive Surveillance System to Control Influenza Virus in Pigs





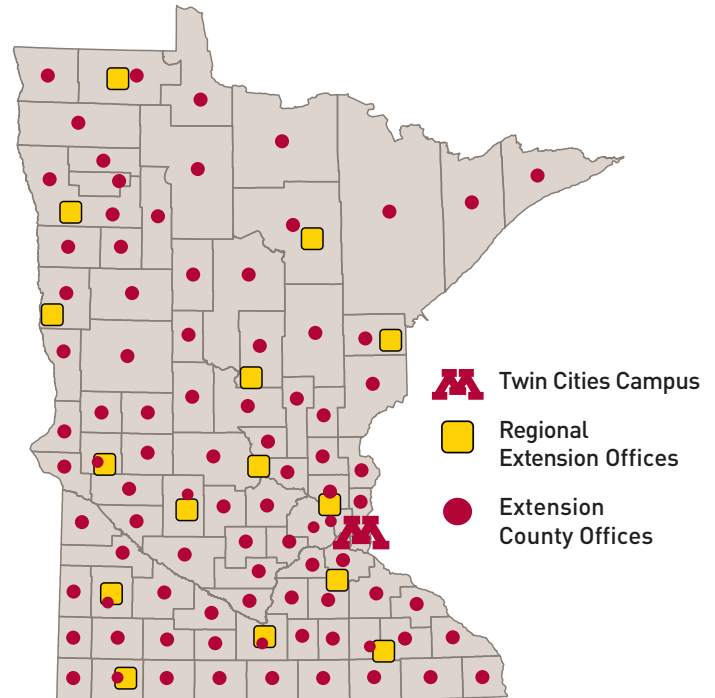
UNIVERSITY OF MINNESOTA  
**EXTENSION**

# Building a stronger Minnesota together

Extension plays a key role in the University of Minnesota's mission: We bring Minnesotans together to build a better future through University science-based knowledge, expertise and training.

## Connecting every county with the University of Minnesota

- 87** Extension is in every county
- 15** Regional offices are strategically located in communities across the state
- 65** percent of Extension faculty and staff work in Greater Minnesota
- 35K+** trained volunteers multiply our reach



## 2019 budget

### Grants, gifts and other: \$17.9 million

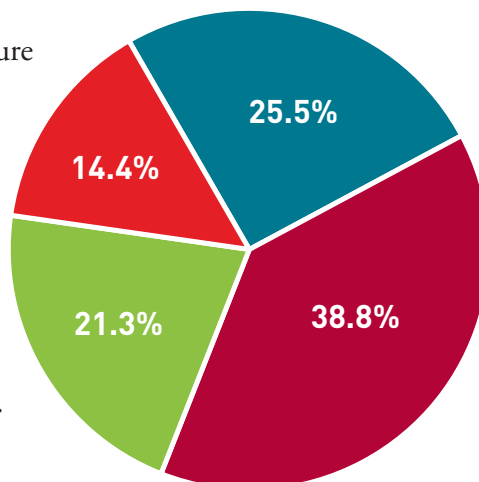
Individuals and organizations provide support for valuable Extension opportunities important to them.

### Federal: \$10.1 million

The U.S. Department of Agriculture supports wide-ranging research and Extension education.

### Counties: \$14.9 million

Investments ensure 4-H and other Extension programs are delivered locally.

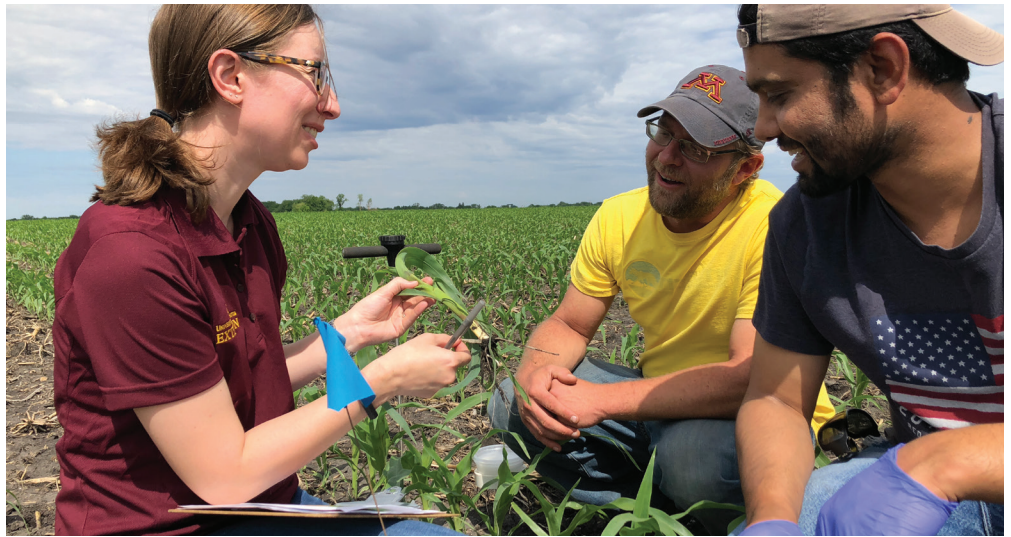


### State: \$27.2 million

Investments are leveraged through collaborations with Minnesota state agencies, including departments of agriculture, health and human services, natural resources, and tourism.

University of Minnesota  
Extension works in rural,  
suburban, urban, tribal  
communities and beyond.

More than 1,000,000 people  
are reached annually by  
Extension education.



**Shaping a lifetime of leadership in 140,000 young people through Minnesota 4-H**  
4-H'ers are more likely to go to post-secondary school and are **2X** more likely to contribute to their communities.



**Strengthening Minnesota's food and agriculture**

Extension research and education improves crop yields, animal health, farm productivity and water conservation across Minnesota's **73,200** farms.



**Encouraging responsible lawn and garden practices through a 2,300-strong Master Gardener volunteer force**

Master Gardener volunteers gave **145,134** hours last year to community initiatives.



**Helping 119,438 families make healthy decisions through SNAP-Ed and better money management**

**72%** of SNAP-Ed participants say classes helped them make healthier food choices.



**Protecting natural resources, including soil, water and woodlands**

Last year, more than **2,000** Minnesota Master Naturalists and citizen science volunteers restored public lands, collected scientific data and multiplied the reach of Extension's environmental education.



**Understanding what makes communities welcoming, economically vibrant and well-led**

**100+** economic analyses inform local community decisions each year.



UNIVERSITY OF MINNESOTA EXTENSION

# CFANS delivers bold science to Minnesota

With a legacy of bringing discoveries to life through science, CFANS educates the next generation of leaders to anticipate and adapt to a changing state and world, and solves the real challenges of nourishing people while enriching the environments in which we live. We are able to do this through the support of alliances with agricultural and natural resource partners.



## 29 majors

13 undergraduate and 16 graduate programs in plants, food, energy, business, and water

## 703 degrees

awarded to undergraduates and graduates by CFANS in 2017-18 to help fill critical needs in Minnesota's agriculture, food, and natural resource workforce

## 10

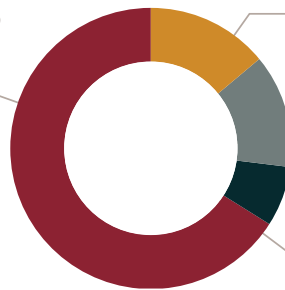
research and outreach centers



## Undergraduate Hometowns

**66%**  
State of Minnesota

**70** Minnesota counties represented in the 2017-18 undergraduate population



## 7 continents

on which CFANS scientists connect Minnesota with research and business opportunities

## Fall 2018 People

2,021	Undergraduates
620	Graduate Students
261	Faculty
815	Staff
29,105	Alumni

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[CFANS@UMN.EDU](mailto:CFANS@UMN.EDU)





# \$5 million

state investment through Agricultural Research, Education, Extension, and Technology Transfer (AGREETT) in agricultural productivity to hire new scientists and technicians to work in seven key areas:

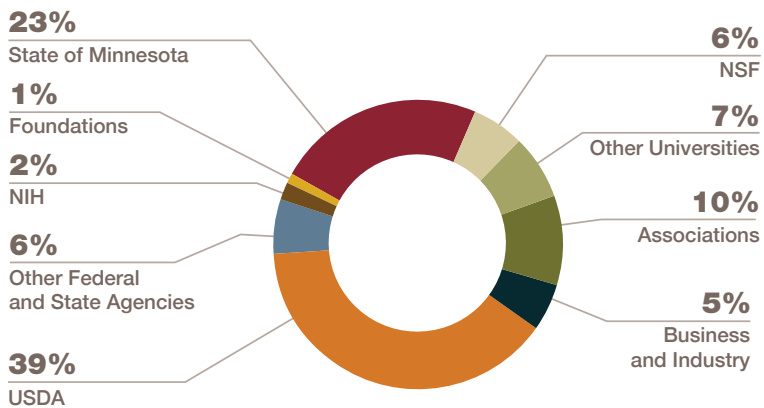
- Crop and livestock productivity
- Microbial science
- Advancing soil fertility and water quality
- Agricultural technology and decision-making
- Nutrient recycling and management
- Agro-ecological innovation
- Technologies for managing pest resistance and climate adaption

## Grand Challenge research and education investments

- Food security, agricultural productivity
- Invasive species and biodiversity/ pest and disease dynamics
- Renewable energy and climate adaption
- Water resources and uses
- Forestry
- Precision agriculture
- Educating future leaders in applied science and technology for agriculture, food and natural resource sciences

### Sponsored grant awards received

2017 Total:  
\$62.8 million



### Sponsored grant awards leverage state funding

\$62.8 million  
Sponsored Grant Award Projects

adds to

\$21,993,054  
State Special Funding

# \$1.56 million

in privately funded scholarships awarded to new CFANS students

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