University of Minnesota Agriculture



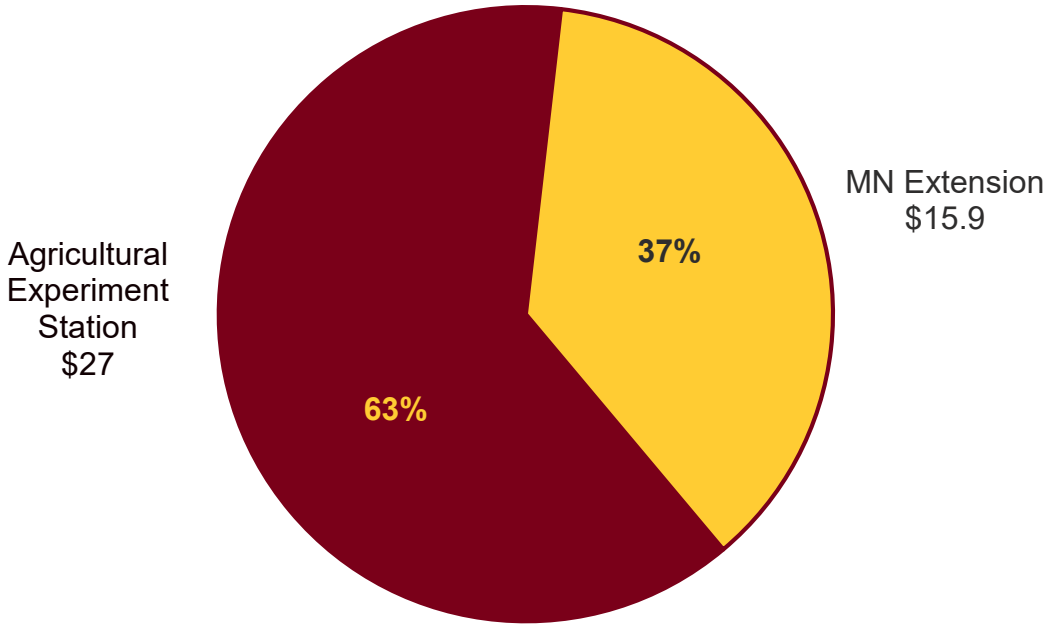
- Minnesota Agricultural Experiment Station
- Extension
- College of Food, Agricultural and Natural Resource Sciences
- College of Veterinary Medicine

University of Minnesota
Driven to Discover℠

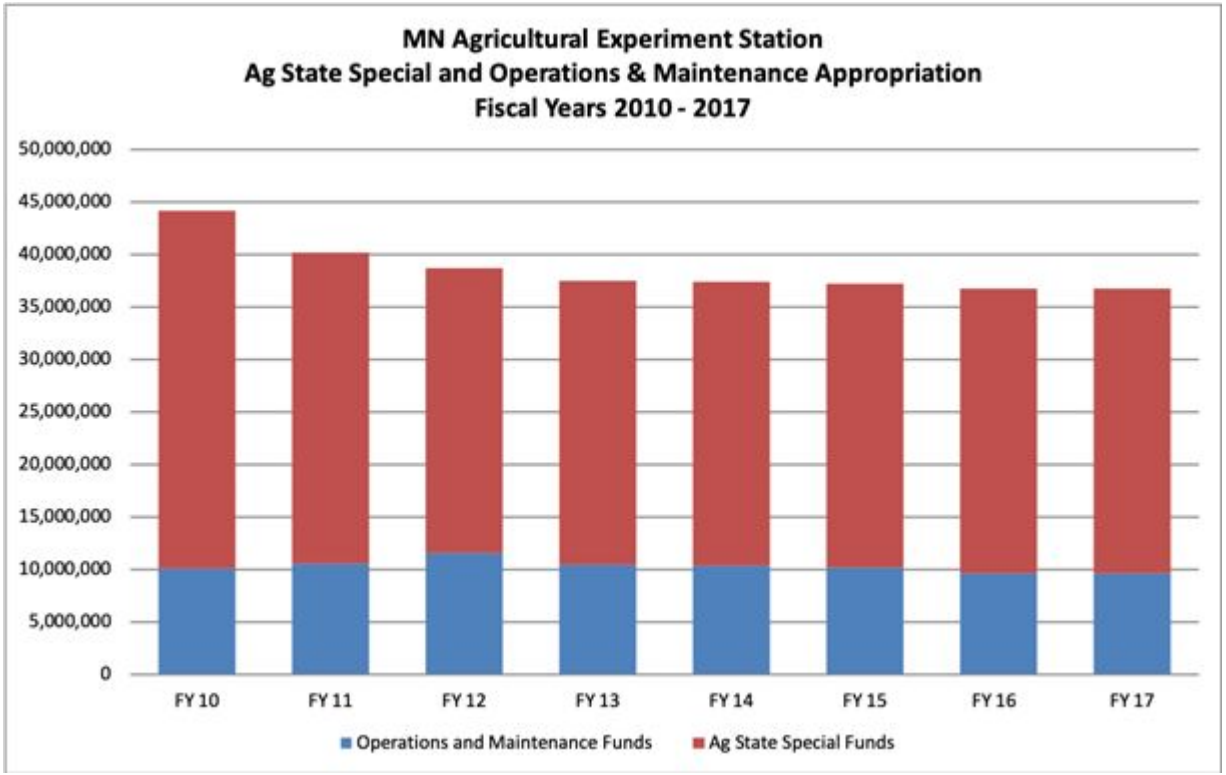
University of Minnesota

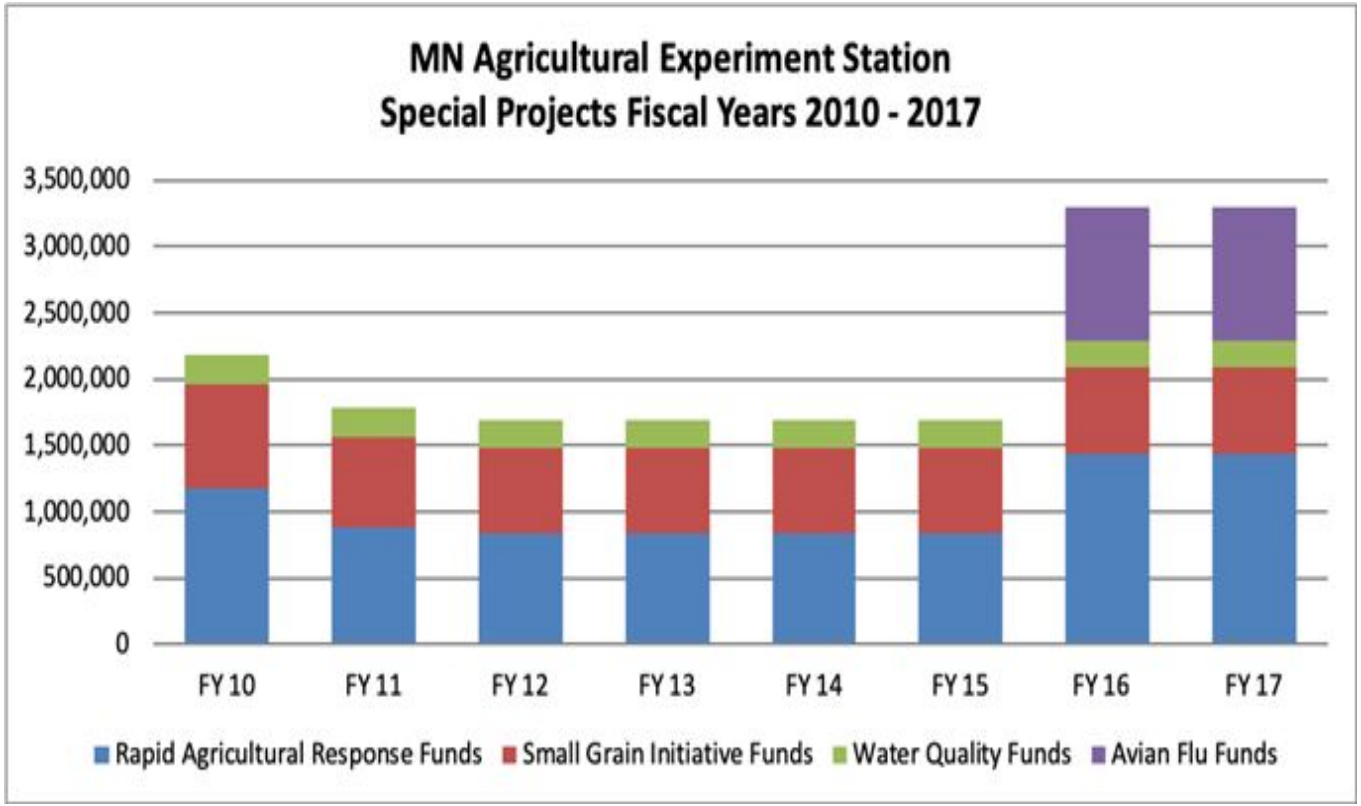
FY18 Agriculture State Special Appropriation $42.9M

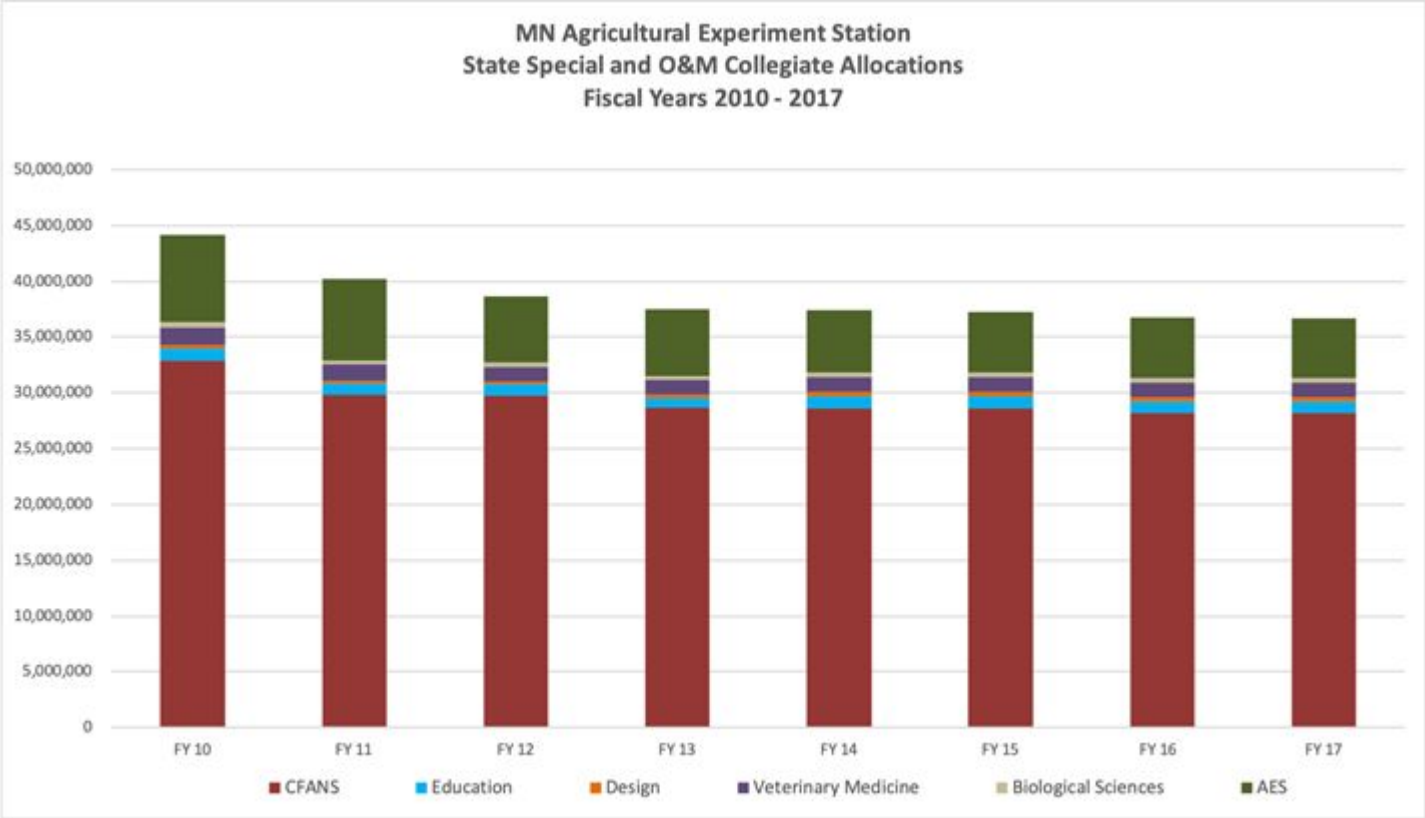
(Numbers in Millions)



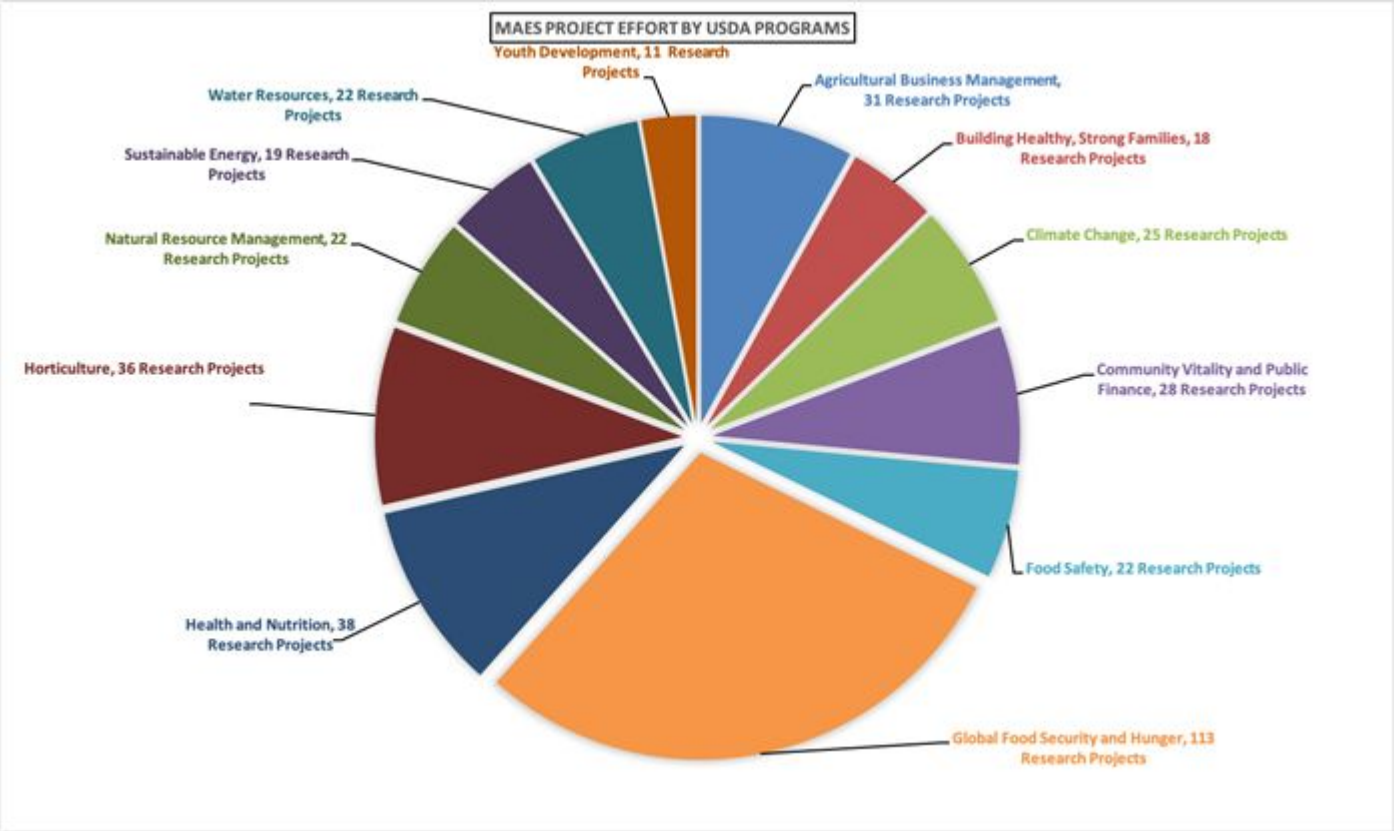
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MN Agricultural Experiment Station
Ag State Special and Operations & Maintenance Appropriation
Fiscal Years 2010 - 2017
50,000,000
45,000,000
40,000,000
35,000,000
30,000,000
25,000,000
20,000,000
15,000,000
10,000,000
5,000,000
0
FY 10
FY 11
FY 12
FY 13
FY 14
FY 15
FY 16
FY 17
Operations and Maintenance Funds
Ag State Special Funds

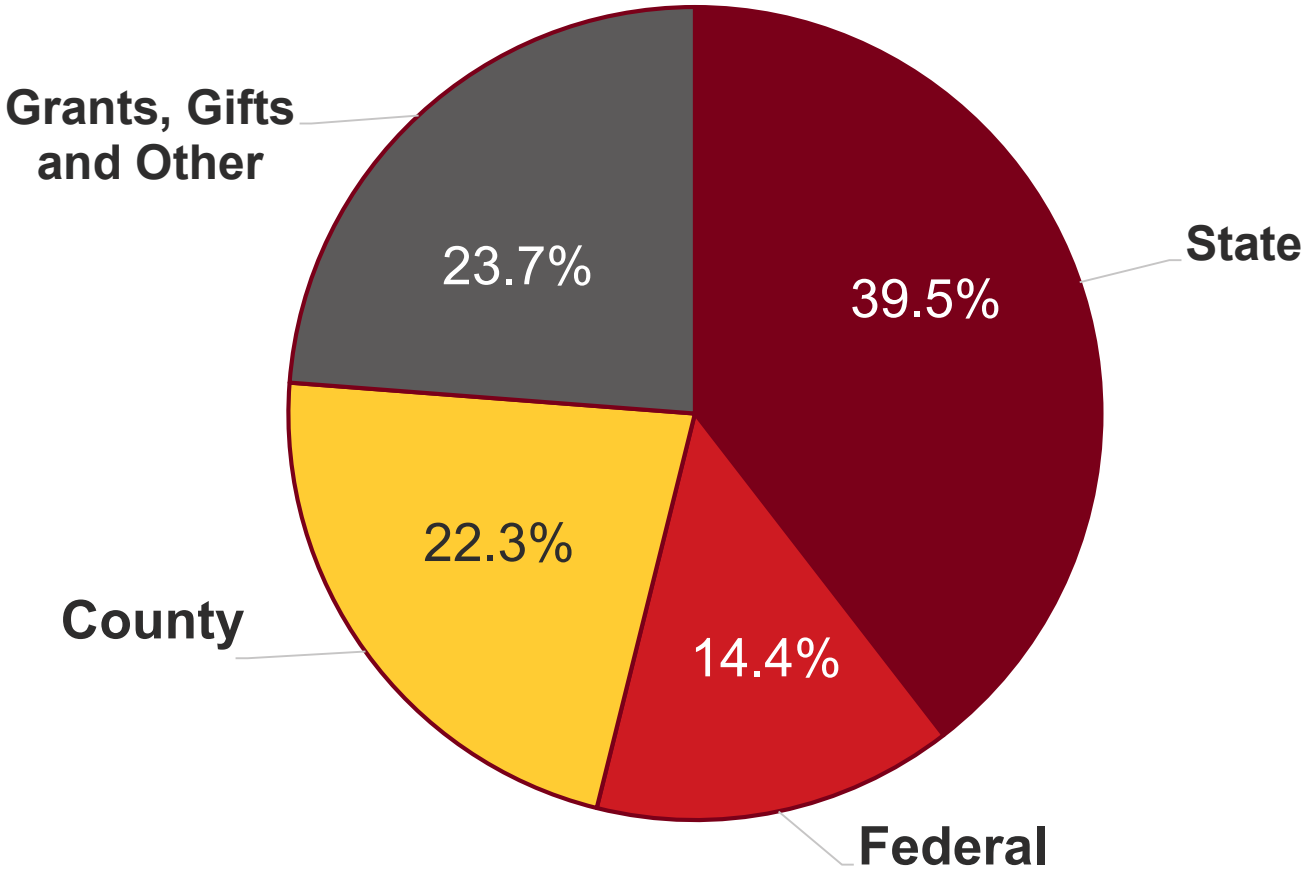

MN Agricultural Experiment Station
Special Projects Fiscal Years 2010 - 2017
3,500,000
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
FY 10
FY 11
FY 12
FY 13
FY 14
FY 15
FY 16
FY 17
Rapid Agricultural Response Funds
Small Grain Initiative Funds
Water Quality Funds
Avian Flu Funds



Minnesota Agricultural Experiment Station
University of Minnesota

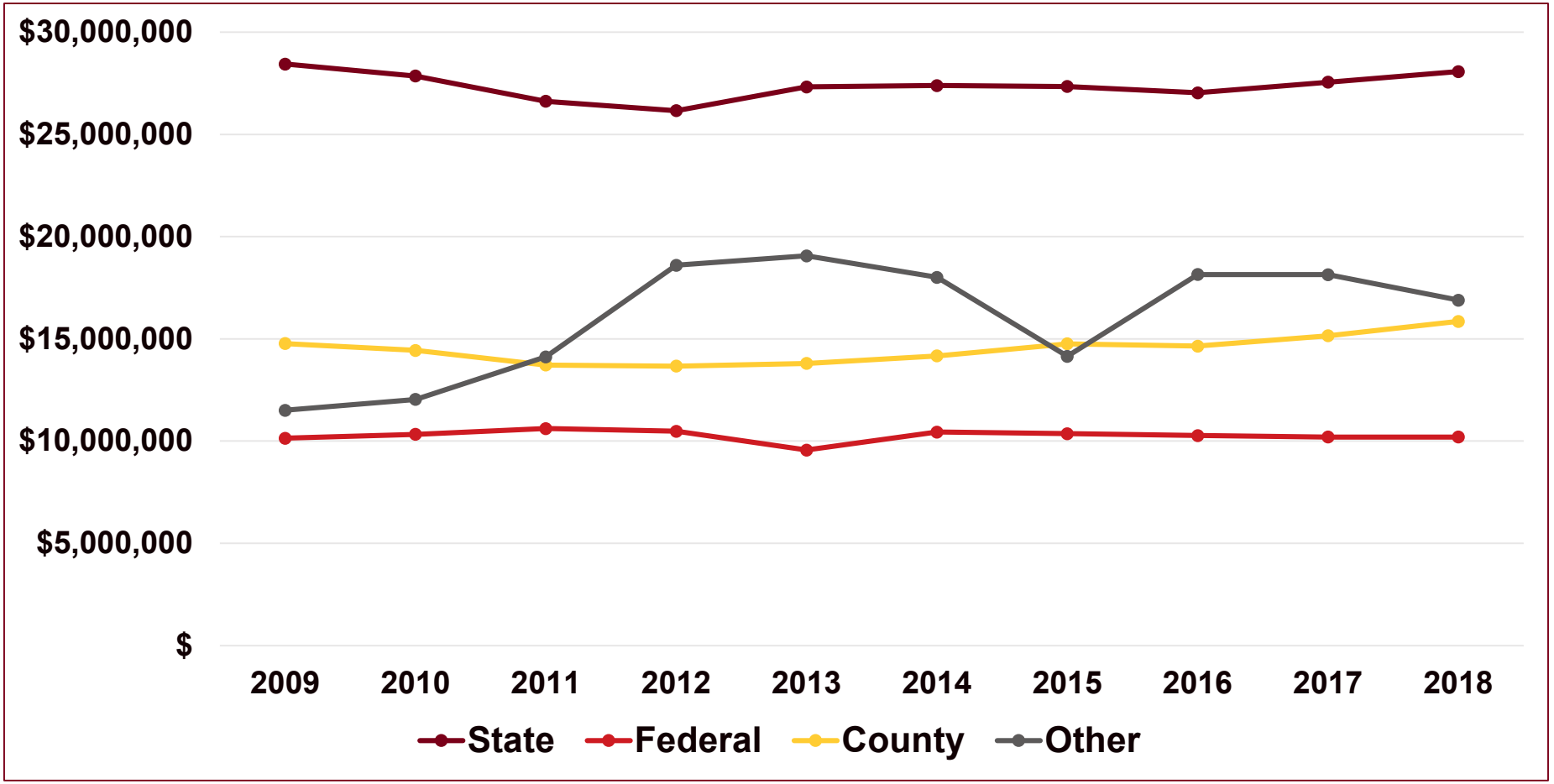

MAES PROJECT EFFORT BY USDA PROGRAMS
Youth Development, 11 Research Projects
Agricultural Business Management, 31 Research Projects
Water Resources, 22 Research Projects
Building Healthy, Strong Families, 18 Research Projects
Sustainable Energy, 19 Research Projects
Climate Change, 25 Research Projects
Natural Resource Management, 22 Research Projects
Community Vitality and Public Finance, 28 Research Projects
Horticulture, 36 Research Projects
Food Safety, 22 Research Projects
Health and Nutrition, 38 Research Projects
Global Food Security and Hunger, 113 Research Projects

EXTENSION 2018-19 BUDGET: $71M



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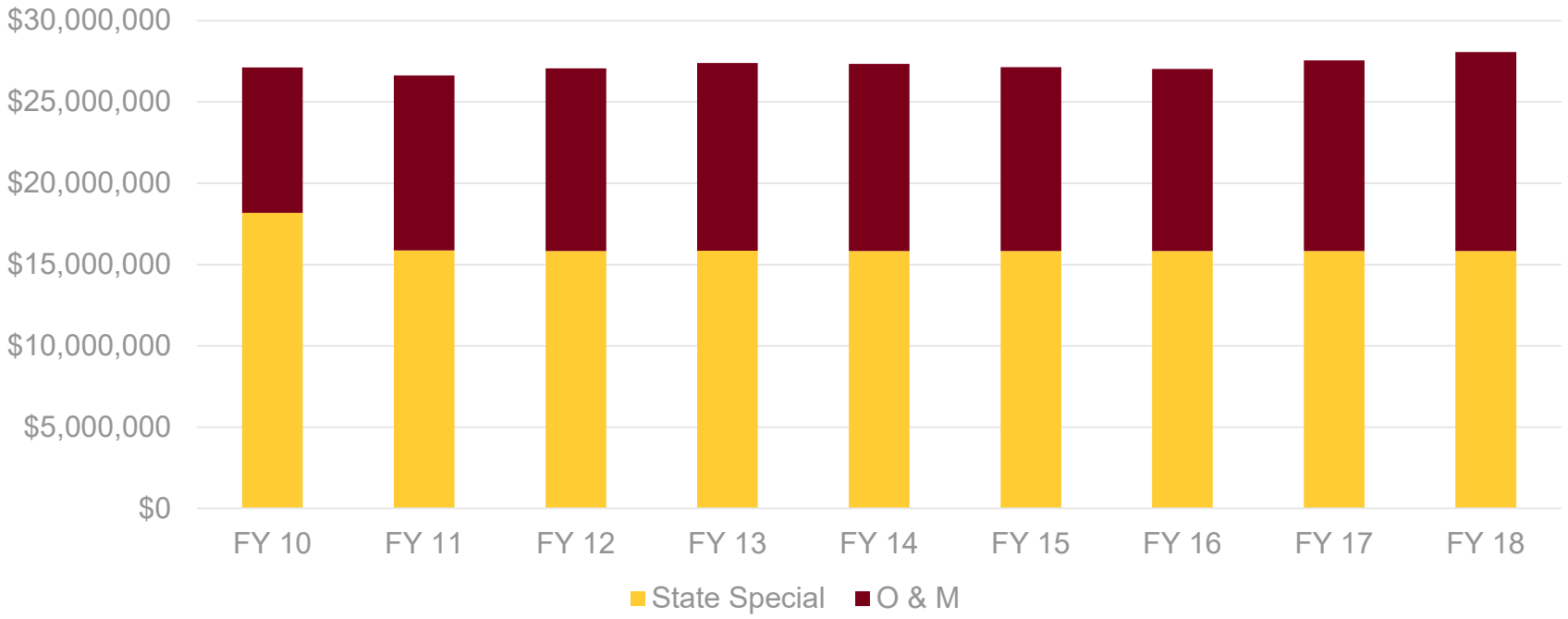
EXTENSION FUNDING TRENDS



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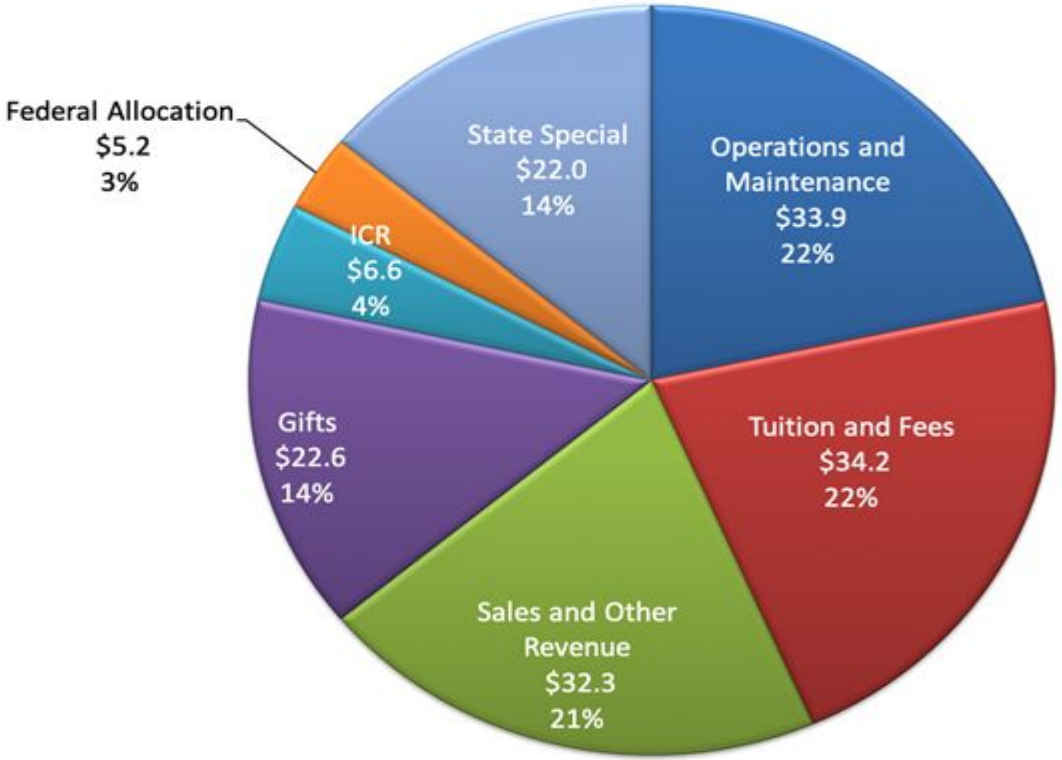
MN EXTENSION

State Specials and O&M FY10-FY18

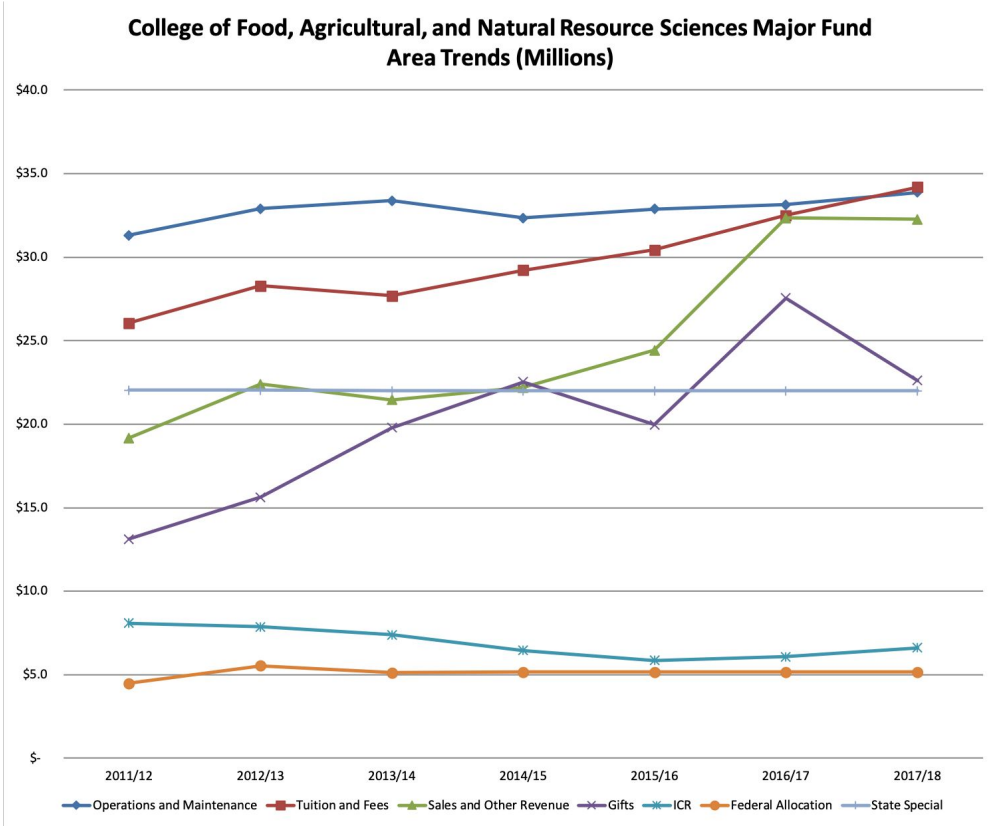


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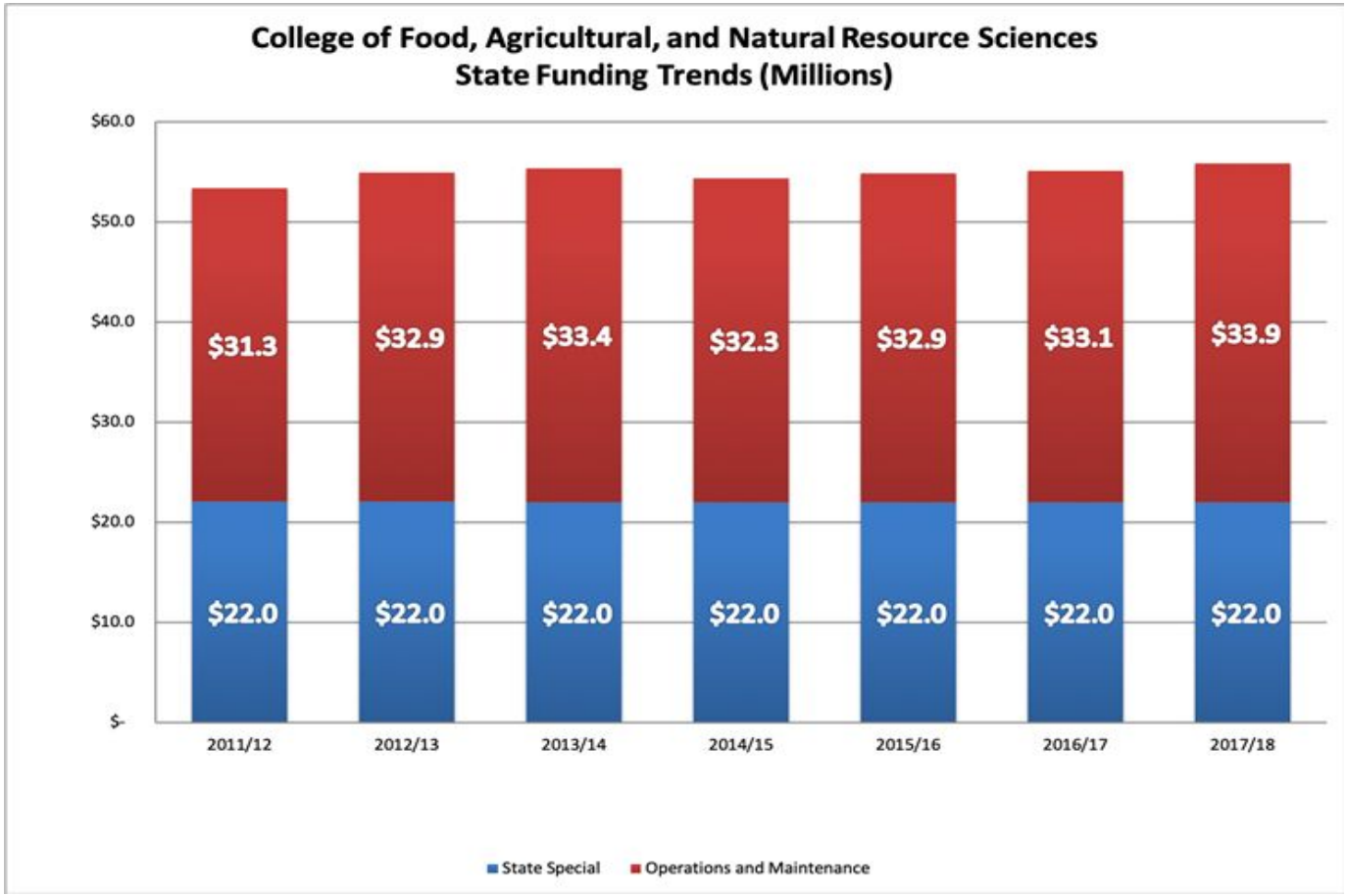
College of Food, Agricultural, and Natural Resource Sciences
2017-2018 Resources: $156.7 Million



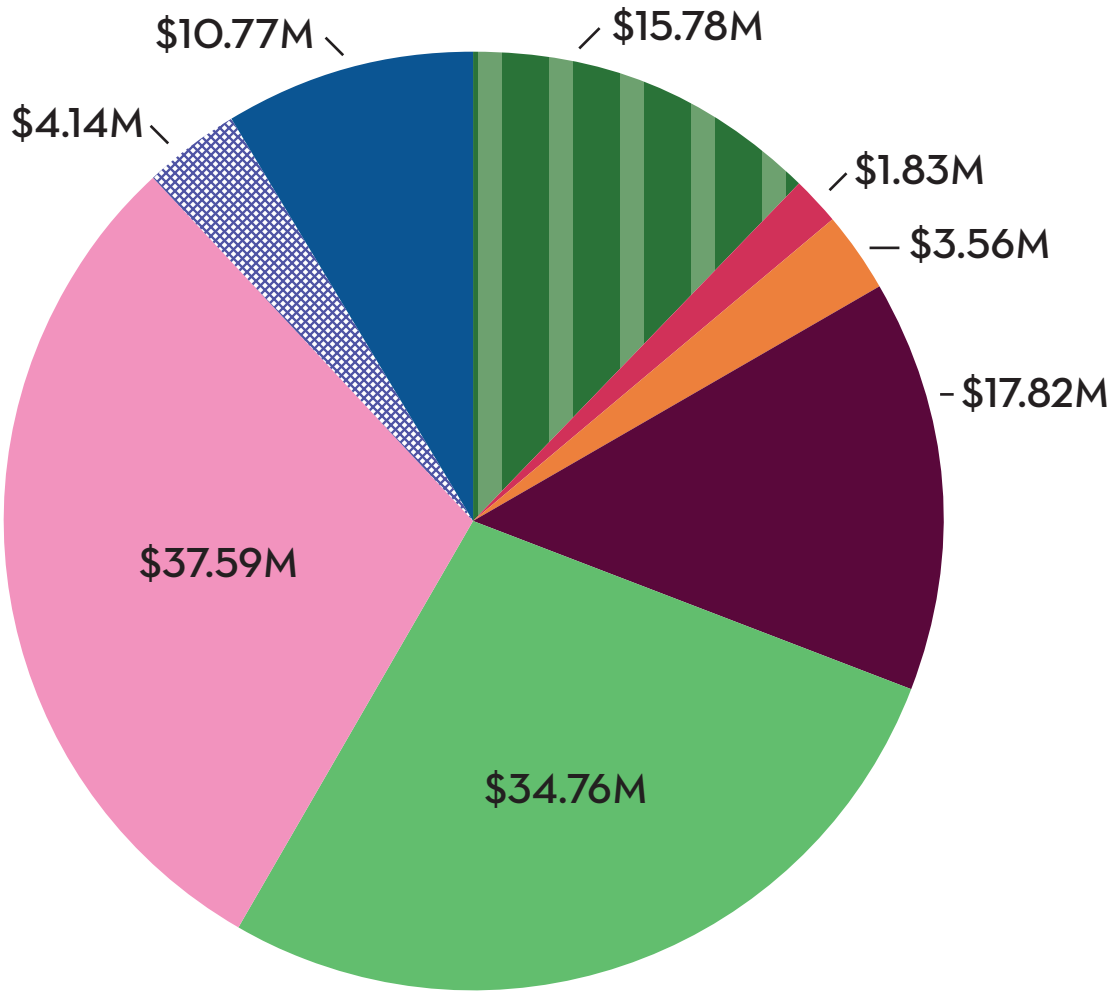
University of Minnesota | CFANS College of Food, Agricultural and Natural Resource Sciences



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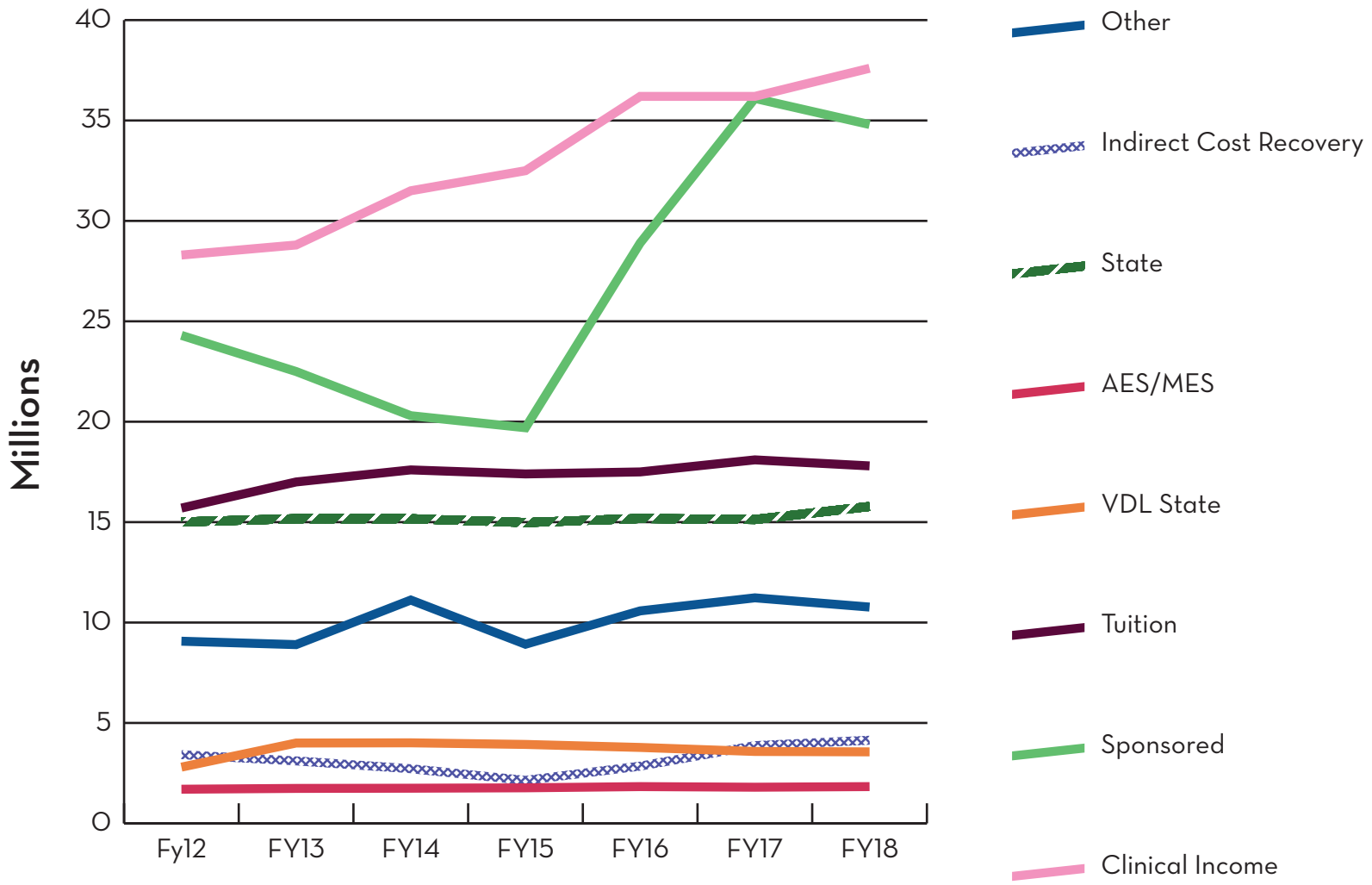

College of Food, Agricultural, and Natural Resource Sciences
State Funding Trends (Millions)
$60.0
$50.0
$40.0
$30.0
$20.0
$10.0
$-
$31.3
$32.9
$33.4
$32.3
$32.9
$33.1
$33.9
$22.0
$22.0
$22.0
$22.0
$22.0
$22.0
$22.0
2011/12
2012/13
2013/14
2014/15
2015/16
2016/17
2017/18
State Special
Operations and Maintenance

CVM FY2018 Budget – $126.25 Million



- Other
- Indirect Cost Recovery
- Clinical Income
- Sponsored
- Tuition
- VDL State Special
- AES/MES
- State

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



UNIVERSITY OF MINNESOTA

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.

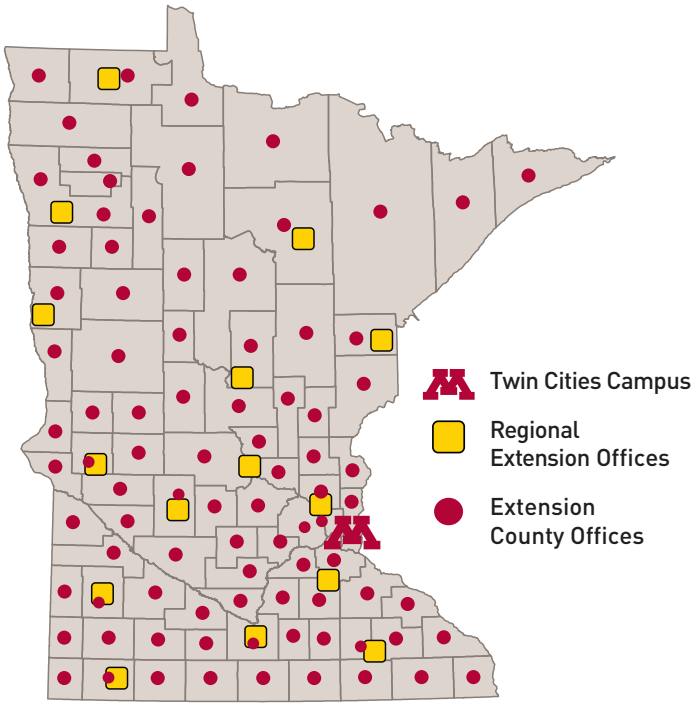
Connecting every county with the University of Minnesota

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

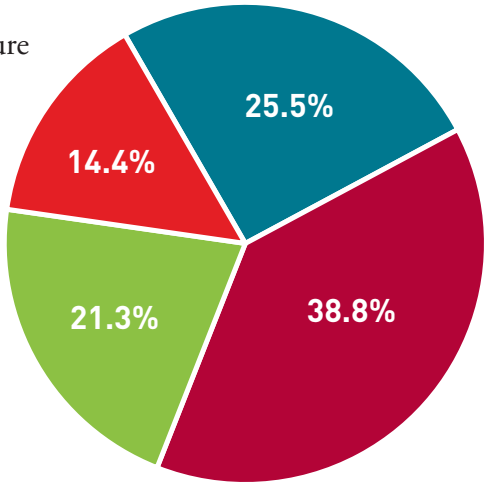
35K+ trained volunteers multiply our reach



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.



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.

Counties: $14.9 million
Investments ensure 4-H and other Extension programs are delivered locally.

MAKING A DIFFERENCE IN MINNESOTA: ENVIRONMENT + FOOD + AGRICULTURE + COMMUNITIES + FAMILIES + YOUTH

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

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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

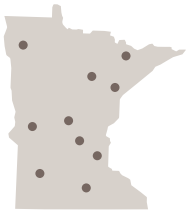
13 undergraduate and 16 graduate programs in plants, food, energy, business, and water

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

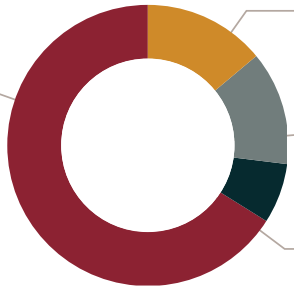
research and outreach centers



Undergraduate Hometowns

66% State of Minnesota

70 Minnesota counties represented in the 2017-18 undergraduate population



14% Wisconsin

13% Other States

7% International



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

CONNECT WITH US TO LEARN MORE

CFANS@UMN.EDU

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$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:

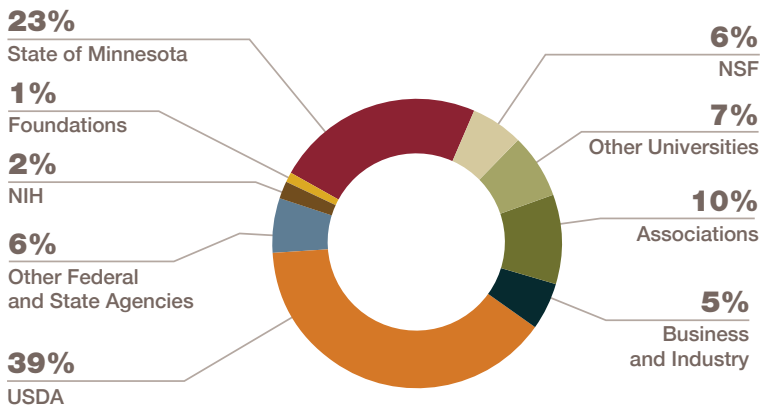
- Crop and livestock productivity
- Microbial science
- Advancing soil fertility and water quality
- Agricultural technology and decision-making
- Nutrient recycling and management
- Agro-ecological innovation
- Technologies for managing pest resistance and climate adaption

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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