

2018 Ohio State University Combined Research and Extension OGF Multi-State and Integrated Activity Supplemental Forms

Status: Submitted
Date Submitted: 04/02/2019

I. Brief Summaries

- Use the 2018 Plan of Work in place of submitting a separate brief summaries document.**

Ohio State is involved with many multi-state cooperative projects and continues to build these relationships to create new collaborations. We participate in countless projects related to food, agriculture, and the environment. Currently, we are involved in multi-state projects related to all of our planned programs, including those studying soils, environmental management, control of pests and pathogens, water issues, energy, and food safety. One multi-state project is looking at disease resistance in soybean, specifically related to the soybean cyst nematode. Another project (that is reported on this year) looks at genetic resistance to Phytophthora and Pythium, two water molds that can cause soybean yield losses exceeding 90 million bushels nationwide. This project used the Soybean Nested Association Mapping (SoyNAM) populations developed by breeders at the University of Illinois and University of Nebraska to analyze various genetic profiles. Research was sped up by almost 3 years due to the availability of these genetic populations. Another highlight includes the creation of educational YouTube videos about controlled environment agriculture that have over 20,000 views and are used in curricula at many institutions (University of Arizona, Ohio State, and Rutgers University). These systems can be used to increase crop yields and can also increase the number of harvests that can be done annually (depending on the crop and production system). Additionally, a multi-media based training program on timely euthanasia created by researchers at The Ohio State University and Iowa State University will be distributed by the National Pork Board, potentially reaching 60,000 U.S. swine operations and their employees in the coming years. This innovative tool represents the first interactive euthanasia-specific training program in the U.S. These are only a few examples of how Ohio State is collaborating with other institutions to advance knowledge and outreach across the nation. These networks allow research to progress at a much faster rate by streamlining activities which also helps determine where resources should be focused.

- Separate Brief Summaries document (brief description of the multi-state and integrated program activities).**

{NO DATA ENTERED}

**U.S. Department of Agriculture
National Institute of Food and Agriculture
Supplement to the Annual Report of Accomplishments and Results
Actual Expenditures of Federal Funding for Multistate Extension and Integrated Activities
(OMB 0524-0036)
Fiscal Year: 2018**

Institution: Ohio State University

State: Ohio

NIFA-REPT Final	Integrated Activities (Hatch)	Multistate Extension Activities (Smith-Lever)	Integrated Activities (Smith-Lever)
Established target %	25.00	25.00	25.00
This FY Allocation (from 1088) \$	7,593,204.00	11,279,552.00	11,279,552.00
This FY Target Amount \$	1,898,301.00	2,819,888.00	2,819,888.00

Title of Planned Program Activity	Integrated Activities (Hatch)	Multistate Extension Activities (Smith-Lever)	Integrated Activities (Smith-Lever)
Climate Change \$	7,509.00	31,409.00	36,584.00
Sustainable Energy \$	21,701.00	222,082.00	258,666.00
Childhood Obesity \$	3,835.00	45,869.00	53,425.00
Food Safety \$	40,695.00	38,224.00	44,521.00
Global Food Security and Hunger \$	159,533.00	125,638.00	146,334.00
Soil, Air and Water \$	114,584.00	0.00	0.00
Plants Systems \$	895,949.00	0.00	0.00
Food, Agricultural, and Biological Engineering Systems \$	353,689.00	0.00	0.00
Animals Systems \$	147,481.00	0.00	0.00
Economics and Social Dimensions \$	206,375.00	0.00	0.00
Human Health \$	26,979.00	0.00	0.00
Advancing Employment and Income Opportunities \$	0.00	666,246.00	775,999.00
Enhancing agriculture and the Environment \$	0.00	1,020,806.00	1,188,968.00

Title of Planned Program Activity	Integrated Activities (Hatch)	Multistate Extension Activities (Smith-Lever)	Integrated Activities (Smith-Lever)
Preparing Youth for Success \$	0.00	452,635.00	527,199.00
Strengthening Families and Communities \$	0.00	244,632.00	284,932.00
Total \$	1,978,330.00	2,847,541.00	3,316,628.00
Carryover \$	0.00	0.00	0.00

Certification: I certify to the best of my knowledge and belief that this report is correct and complete and that all outlays represented here accurately reflect allowable expenditures of Federal funds only in satisfying AREERA requirements.

Director(s):

David Benfield
 Gary Pierzynski
 Roger Rennekamp

Date Submitted: 04/02/2019

**U.S. Department of Agriculture
National Institute of Food and Agriculture
Supplement to the 5-Year Plan of Work
Multistate Extension Activities and Integrated Activities
(OMB 0524-0036)**

Institution: Ohio State University

State: Ohio

1. Integrated Activities (Hatch Act Funds)

Estimated Costs

Title of Planned Program Activity	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Animals Systems \$	147,000.00	147,000.00	147,000.00	147,000.00	147,000.00
Childhood Obesity \$	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00
Climate Change \$	8,000.00	8,000.00	8,000.00	8,000.00	8,000.00
Economics and Social Dimensions \$	206,000.00	206,000.00	206,000.00	206,000.00	206,000.00
Food Safety \$	41,000.00	41,000.00	41,000.00	41,000.00	41,000.00
Food, Agricultural, and Biological Engineering Systems \$	354,000.00	354,000.00	354,000.00	354,000.00	354,000.00
Global Food Security and Hunger \$	160,000.00	160,000.00	160,000.00	160,000.00	160,000.00
Human Health \$	27,000.00	27,000.00	27,000.00	27,000.00	27,000.00
Plants Systems \$	896,000.00	896,000.00	896,000.00	896,000.00	896,000.00
Soil, Air and Water \$	115,000.00	115,000.00	115,000.00	115,000.00	115,000.00
Sustainable Energy \$	22,000.00	22,000.00	22,000.00	22,000.00	22,000.00
Total \$	1,980,000.00	1,980,000.00	1,980,000.00	1,980,000.00	1,980,000.00

2. Multistate Extension Activities (Smith-Lever Act Funds)

Estimated Costs

Title of Planned Program Activity	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Advancing Employment and Income Opportunities \$	666,246.00	666,246.00	666,246.00	666,246.00	666,246.00
Childhood Obesity \$	45,869.00	45,869.00	45,869.00	45,869.00	45,869.00
Climate Change \$	31,409.00	31,409.00	31,409.00	31,409.00	31,409.00
Enhancing Agriculture and the Environment \$	1,020,806.00	1,020,806.00	1,020,806.00	1,020,806.00	1,020,806.00
Food Safety \$	38,224.00	38,224.00	38,224.00	38,224.00	38,224.00

Estimated Costs

Title of Planned Program Activity	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Global Food Security and Hunger \$	125,638.00	125,638.00	125,638.00	125,638.00	125,638.00
Preparing Youth for Success \$	452,635.00	452,635.00	452,635.00	452,635.00	452,635.00
Strengthening Families and Communities \$	244,632.00	244,632.00	244,632.00	244,632.00	244,632.00
Sustainable Energy \$	222,082.00	222,082.00	222,082.00	222,082.00	222,082.00
Total \$	2,847,541.00	2,847,541.00	2,847,541.00	2,847,541.00	2,847,541.00

3. Integrated Activities (Smith-Lever Act Funds)

Estimated Costs

Title of Planned Program Activity	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Advancing Employment and Income Opportunities \$	775,999.00	775,999.00	775,999.00	775,999.00	775,999.00
Childhood Obesity \$	53,425.00	53,425.00	53,425.00	53,425.00	53,425.00
Climate Change \$	36,584.00	36,584.00	36,584.00	36,584.00	36,584.00
Enhancing Agriculture and the Environment \$	1,188,968.00	1,188,968.00	1,188,968.00	1,188,968.00	1,188,968.00
Food Safety \$	44,521.00	44,521.00	44,521.00	44,521.00	44,521.00
Global Food Security and Hunger \$	146,334.00	146,334.00	146,334.00	146,334.00	146,334.00
Preparing Youth for Success \$	527,199.00	527,199.00	527,199.00	527,199.00	527,199.00
Strengthening Families and Communities \$	284,932.00	284,932.00	284,932.00	284,932.00	284,932.00
Sustainable Energy \$	258,666.00	258,666.00	258,666.00	258,666.00	258,666.00
Total \$	3,316,628.00	3,316,628.00	3,316,628.00	3,316,628.00	3,316,628.00

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