

4561 - The Science and Engineering for a Biobased Industry and Economy

Scheduled to Terminate: 09/30/18

Department Responsible for Report: [Agricultural and Biological Engineering](#)

Investigator(s):

A. Demirci (Leader)
T. L. Richard
H. M. Salis
P. M. Smith

Other Department(s):

None

4574 - Beneficial Reuse of Residuals and Reclaimed Water: Impact on Soil Ecosystem and Human Health (formerly W2170)

Scheduled to Terminate: 09/30/19

Department Responsible for Report: [Agricultural and Biological Engineering](#)

Investigator(s):

H. A. Elliott (Leader)
H. E. Gall
R. C. Stehouwer
J. E. Watson

Other Department(s):

Ecosystem Science and Management

4594 - Engineering for Food Safety and Quality

Scheduled to Terminate: 09/30/20

Department Responsible for Report: [Food Science](#)

Investigator(s):

R. C. Anantheswaran (Leader)
R. C. Anantheswaran
A. Demirci
V. Puri

Other Department(s):

Agricultural and Biological Engineering
Agricultural Experiment Station

4602 - Characterizing, Measuring, and Modeling the Properties of Native and Treated Biological and Biobased Materials for Processing and Novel Materials

Scheduled to Terminate: 06/30/21

Department Responsible for Report: [Agricultural and Biological Engineering](#)

Investigator(s):

V. M. Puri (Leader)
N. R. Brown
J. M. Catchmark
J. Liu

Other Department(s):

None

4437 - Impact Analyses and Decision Strategies for Agricultural Research

Scheduled to Terminate: 09/30/16 *****Final Report Due*****
Department Responsible for Report: Agricultural Economics, Sociology, and Education
Investigator(s): L. L. Glenna (Leader)
 J. K. Harper
 A. Patel-Campillo
 C. E. Sachs
Other Department(s): None

4440 - Risk and Resiliency in Youth, Families, and Positive Development Promotional Strategies and Interventions

Scheduled to Terminate: 06/30/16 *****Final Report Due*****
Department Responsible for Report: Agricultural Economics, Sociology, and Education
Investigator(s): D. F. Perkins (Leader)
 C. C. Mincemoyer
Other Department(s): None

4453 - Catalysts for Water Resources Protection and Restoration: Applied Social Science Research

Scheduled to Terminate: 09/30/16 *****Final Report Due*****
Department Responsible for Report: Agricultural Economics, Sociology, and Education
Investigator(s): K. J. Brasier (Leader)
 K. J. Brasier
Other Department(s): None

4499 - Renewing an Agriculture of the Middle: Value Chain Design, Policy Approaches, Environmental and Social Impacts

Scheduled to Terminate: 09/30/17
Department Responsible for Report: Agricultural Economics, Sociology, and Education
Investigator(s): C. C. Hinrichs (Leader)
Other Department(s): None

4500 - Benefits and Costs of Natural Resources Policies Affecting Ecosystem Services on Public and Private Lands

Scheduled to Terminate: 09/30/17
Department Responsible for Report: Agricultural Economics, Sociology, and Education
Investigator(s): D. H. Wrenn (Leader)
 C. W. Abdalla
 K. A. Fisher-Vanden
 M. G. Jacobson
 J. S. Shortle
 K. Y. Zipp
Other Department(s): Ecosystem Science and Management

4501 - Agri-Environmental Program Design under Multiple Policy Objectives

Scheduled to Terminate: 09/30/16 *****Final Report Due*****
Department Responsible for Report: Agricultural Economics, Sociology, and Education
Investigator(s): D. G. Abler (Leader)
 D. Blandford
Other Department(s): None

4503 - Community Health and Resilience

Scheduled to Terminate: 09/30/17

Department Responsible for Report: Agricultural Economics, Sociology, and Education

Investigator(s):

S. J. Goetz (Leader)
T. R. Alter
T. W. Kelsey

Other Department(s):

None

4504 - The Great Recession, Its Aftermath, and Patterns of Rural and Small Town Demographic Change

Scheduled to Terminate: 09/30/17

Department Responsible for Report: Agricultural Economics, Sociology, and Education

Investigator(s):

L. I. Jensen (Leader)
S. M. Monnat
A. R. Tickamyer

Other Department(s):

None

4510 - Improving Economic And Environmental Sustainability In Tree-fruit Production Through Changes in Rootstock Use

Scheduled to Terminate: 09/30/17

Department Responsible for Report: Plant Science

Investigator(s):

J. R. Schupp (Leader)
R. M. Crassweller
R. M. Crassweller
J. K. Harper
R. P. Marini
J. R. Schupp

Other Department(s):

Agricultural Economics, Sociology, and Education
Fruit Research and Extension Center

4521 - Agriculture Instructional Effectiveness Impact on Program Graduates Entering Postsecondary Education or Employment in Local Communities

Scheduled to Terminate: 03/31/18

Department Responsible for Report: Agricultural Economics, Sociology, and Education

Investigator(s):

J. C. Ewing (Leader)
D. D. Foster
E. P. Yoder

Other Department(s):

None

4526 - National and International Community and Leadership Development

Scheduled to Terminate: 07/31/18

Department Responsible for Report: Agricultural Economics, Sociology, and Education

Investigator(s):

M. A. Brennan (Leader)
C. D. Baggett
C. C. Mincemoyer

Other Department(s):

None

4542 - Intergenerational Strategies for Promoting Healthy Aging, Supporting Families, and Strengthening Communities

Scheduled to Terminate: 09/30/18

Department Responsible for Report: Agricultural Economics, Sociology, and Education

Investigator(s):

M. S. Kaplan (Leader)

Other Department(s):

None

4544 - Building Social Capital through Positive Engagement for Youth

Scheduled to Terminate: 11/30/18

Department Responsible for Report: [Agricultural Economics, Sociology, and Education](#)

Investigator(s):

N. S. Webster (Leader)

Other Department(s):

None

4546 - EFNEP Related Research, Program Evaluation and Outreach

Scheduled to Terminate: 09/30/18

Department Responsible for Report: [Agricultural Economics, Sociology, and Education](#)

Investigator(s):

J. F. Scholl (Leader)

J. F. Scholl

Other Department(s):

None

4567 - Retail Food Prices, Shopping Behavior, Health, and the Food Environment

Scheduled to Terminate: 06/30/19

Department Responsible for Report: [Agricultural Economics, Sociology, and Education](#)

Investigator(s):

E. C. Jaenicke (Leader)

S. J. Colby

Other Department(s):

None

4599 - Specialty Crops and Food Systems: Exploring Markets, Supply Chains and Policy Dimensions

Scheduled to Terminate: 09/30/20

Department Responsible for Report: [Plant Science](#)

Investigator(s):

K. M. Kelley (Leader)

K. M. Kelley

R. D. Weaver

Other Department(s):

[Agricultural Economics, Sociology, and Education](#)

4603 - Supporting Military Families Through Dissemination and Implementation Science

Scheduled to Terminate: 06/30/21

Department Responsible for Report: [Agricultural Economics, Sociology, and Education](#)

Investigator(s):

D. F. Perkins (Leader)

C. C. Mincemoyer

Other Department(s):

None

4459 - Reproductive Performance in Domestic Ruminants

Scheduled to Terminate: 09/30/16 *****Final Report Due*****

Department Responsible for Report: [Animal Science](#)

Investigator(s): W. Liu (Leader) **Other Department(s):** None

4511 - Ovarian Influences on Reproductive Success in Ruminants

Scheduled to Terminate: 09/30/17

Department Responsible for Report: [Animal Science](#)

Investigator(s): J. L. Pate (Leader)
F. J. Diaz
T. L. Ott **Other Department(s):** None

4539 - Metabolic Relationships in Supply of Nutrients for Lactating Cows (NC-1009)

Scheduled to Terminate: 09/30/18

Department Responsible for Report: [Animal Science](#)

Investigator(s): A. N. Hristov (Leader)
K. J. Harvatine
G. A. Varga **Other Department(s):** None

4541 - Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprises (Rev. NC-1119)

Scheduled to Terminate: 09/30/18

Department Responsible for Report: [Animal Science](#)

Investigator(s): A. J. Heinrichs (Leader)
L. A. Holden
L. A. Holden **Other Department(s):** None

4549 - Genetic Improvement of Dairy Cattle Efficiency and Well-being

Scheduled to Terminate: 09/30/18

Department Responsible for Report: [Animal Science](#)

Investigator(s): C. D. Dechow **Other Department(s):** None

4552 - Nutritional Influences on Gastrointestinal Health in Horses

Scheduled to Terminate: 09/30/18

Department Responsible for Report: [Animal Science](#)

Investigator(s): W. B. Staniar (Leader)
P. A. Bartell **Other Department(s):** None

4554 - National Animal Genome Research Program

Scheduled to Terminate: 09/30/18

Department Responsible for Report: [Animal Science](#)

Investigator(s): W. Liu (Leader) **Other Department(s):** None

4562 - Exploring the Validation & Safety of Meat Processing Procedures

Scheduled to Terminate: 03/31/19

Department Responsible for Report: [Animal Science](#)

Investigator(s):

J. A. Campbell (Leader)

E. W. Mills

Other Department(s):

None

4575 - Poultry Production Systems and Well-being: Sustainability for Tomorrow

Scheduled to Terminate: 09/30/19

Department Responsible for Report: [Animal Science](#)

Investigator(s):

R. M. Hulet (Leader)

R. M. Hulet

P. H. Patterson

P. H. Patterson

Other Department(s):

None

4577 - Environmental Impacts of Equine Operations

Scheduled to Terminate: 09/30/19

Department Responsible for Report: [Animal Science](#)

Investigator(s):

A. A. Swinker (Leader)

Other Department(s):

None

4580 - Advanced Technologies for the Genetic Improvement of Poultry (was NC-168)

Scheduled to Terminate: 09/30/18

Department Responsible for Report: [Animal Science](#)

Investigator(s):

A. L. Johnson (Leader)

R. Ramachandra

Other Department(s):

None

4586 - Developing Avian Gene Manipulation System Using CRISPR

Scheduled to Terminate: 12/31/19

Department Responsible for Report: [Animal Science](#)

Investigator(s):

C. S. Shashikant (Leader)

Other Department(s):

None

Progress and/or Final Reports Due

Cooperative Fish and Wildlife Research Unit

October 1, 2015 through September 30, 2016
as of September 22, 2016

4570 - Linking Fish and Wildlife Habitat and Population Dynamics for Managed Species in Pennsylvania

Scheduled to Terminate: 06/30/19

Department Responsible for Report: Cooperative Fish and Wildlife Research Unit

Investigator(s):

D. R. Diefenbach (Leader)

T. Wagner

W. D. Walter

Other Department(s):

Ecosystem Science and Management

4463 - Sustaining Pennsylvania's Forests: Blending Management and Society

Scheduled to Terminate: 12/31/16 *****Final Report Due*****
Department Responsible for Report: Ecosystem Science and Management
Investigator(s): J. C. Finley (Leader)
M. E. McDill
Other Department(s): None

4479 - Assessment and Management of Soil and Land Resources Using Geospatial

Scheduled to Terminate: 06/30/16 *****Final Report Due*****
Department Responsible for Report: Ecosystem Science and Management
Investigator(s): R. L. Day (Leader)
Other Department(s): None

4484 - Addressing Conceptual and Technological Bottlenecks to Advance Subsurface

Scheduled to Terminate: 06/30/16 *****Final Report Due*****
Department Responsible for Report: Ecosystem Science and Management
Investigator(s): H. S. Lin (Leader)
Other Department(s): None

4500 - Benefits and Costs of Natural Resources Policies Affecting Ecosystem Services on Public and Private Lands

Scheduled to Terminate: 09/30/17
Department Responsible for Report: Agricultural Economics, Sociology, and Education
Investigator(s): D. H. Wrenn (Leader)
C. W. Abdalla
K. A. Fisher-Vanden
M. G. Jacobson
J. S. Shortle
K. Y. Zipp
Other Department(s): Ecosystem Science and Management

4516 - Developing Silvicultural Strategies for Guiding Forest Structural Complexity to Achieve Desired Ecosystem Services

Scheduled to Terminate: 12/31/17
Department Responsible for Report: Ecosystem Science and Management
Investigator(s): E. K. Zenner (Leader)
K. C. Steiner
Other Department(s): None

4518 - Marketing and Development of Environmentally Responsible Wood-Based Building, Bio-Packaging, and Energy Materials

Scheduled to Terminate: 12/31/16 *****Final Report Due*****
Department Responsible for Report: Ecosystem Science and Management
Investigator(s): C. D. Ray (Leader)
J. J. Janowiak
J. H. Michael
C. D. Ray
Other Department(s): Agricultural and Biological Engineering

4524 - Linking Aquatic Habitat, Freshwater Fishes, and Benthic Macroinvertebrates**Scheduled to Terminate:** 03/31/18**Department Responsible for Report:** Ecosystem Science and Management**Investigator(s):**

C. P. Ferreri (Leader)

Other Department(s):

None

4525 - Impacts of Land-use History, Fire, Deer Browsing and Global Change on Forest Structure and Function in the Eastern United States**Scheduled to Terminate:** 06/30/18**Department Responsible for Report:** Ecosystem Science and Management**Investigator(s):**

M. D. Abrams (Leader)

M. W. Kaye

Other Department(s):

None

4532 - Biological Improvement of Chestnut through Technologies that Address Management of the Species, its Pathogens and Pests**Scheduled to Terminate:** 09/30/18**Department Responsible for Report:** Ecosystem Science and Management**Investigator(s):**

J. E. Carlson (Leader)

G. W. Micsky

Other Department(s):

District 1

4558 - Effects of unpredictability and uncertainty during development on animal cognition and behavior**Scheduled to Terminate:** 12/31/18**Department Responsible for Report:** Ecosystem Science and Management**Investigator(s):**

V. A. Braithwaite (Leader)

Other Department(s):

None

4563 - Conservation and Management of Pennsylvania Birds**Scheduled to Terminate:** 03/31/19**Department Responsible for Report:** Ecosystem Science and Management**Investigator(s):**

M. Brittingham-Brant (Leader)

Other Department(s):

None

4564 - Ozone Monitoring in Non-urban Regions of Pennsylvania and Effects of Ozone on Vegetation**Scheduled to Terminate:** 04/30/19**Department Responsible for Report:** Plant Pathology and Environmental Microbiology**Investigator(s):**

D. D. Davis (Leader)

J. E. Carlson

D. R. Decoteau

Other Department(s):

Ecosystem Science and Management

Plant Science

4566 - Synthetic Nanoclays, Nanophases, and Nanocomposites for Remediation of Cations and Anions**Scheduled to Terminate:** 06/30/19**Department Responsible for Report:** Ecosystem Science and Management**Investigator(s):**

S. Komarneni (Leader)

Other Department(s):

None

4570 - Linking Fish and Wildlife Habitat and Population Dynamics for Managed Species in Pennsylvania

Scheduled to Terminate: 06/30/19

Department Responsible for Report: Cooperative Fish and Wildlife Research Unit

Investigator(s):

D. R. Diefenbach (Leader)
T. Wagner
W. D. Walter

Other Department(s):

Ecosystem Science and Management

4571 - Fates of Soil Carbon and Nitrogen in Agricultural and Bioenergy Crop Systems

Scheduled to Terminate: 06/30/19

Department Responsible for Report: Plant Science

Investigator(s):

A. R. Kemanian (Leader)
M. A. Bruns
J. P. Kaye

Other Department(s):

Ecosystem Science and Management

4573 - Hydrogeology of Vernal Pool Systems

Scheduled to Terminate: 09/30/19

Department Responsible for Report: Ecosystem Science and Management

Investigator(s):

P. J. Drohan (Leader)
H. S. Lin

Other Department(s):

None

4574 - Beneficial Reuse of Residuals and Reclaimed Water: Impact on Soil Ecosystem and Human Health (formerly W2170)

Scheduled to Terminate: 09/30/19

Department Responsible for Report: Agricultural and Biological Engineering

Investigator(s):

H. A. Elliott (Leader)
H. E. Gall
R. C. Stehouwer
J. E. Watson

Other Department(s):

Ecosystem Science and Management

4578 - Soil, Water, and Environmental Physics Across Scales

Scheduled to Terminate: 09/30/19

Department Responsible for Report: Ecosystem Science and Management

Investigator(s):

H. S. Lin (Leader)

Other Department(s):

None

4584 - Ecology and Systematics of Freshwater Fishes

Scheduled to Terminate: 01/31/20

Department Responsible for Report: Ecosystem Science and Management

Investigator(s):

J. R. Stauffer (Leader)

Other Department(s):

None

4585 - The National Atmospheric Deposition Program (NADP)

Scheduled to Terminate: 09/30/19

Department Responsible for Report: Ecosystem Science and Management

Investigator(s):

E. W. Boyer (Leader)

Other Department(s):

None

4591 - Root Biology, Physiology, and Ecology in Woody Species

Scheduled to Terminate: 06/30/20

Department Responsible for Report: [Ecosystem Science and Management](#)

Investigator(s):

D. M. Eissenstat (Leader)

Other Department(s):

None

4610 - Preferential Flow (PF) Patterns in Different Soil-Landscapes

Scheduled to Terminate: 06/30/21

Department Responsible for Report: [Ecosystem Science and Management](#)

Investigator(s):

H. S. Lin (Leader)

Other Department(s):

None

4445 - Interactions between Insects and Pathogens/Parasites for Disease Control

Scheduled to Terminate: 06/30/16 *****Final Report Due*****

Department Responsible for Report: Entomology

Investigator(s):

L. Cui (Leader)
O. N. Bjornstad
D. P. Hughes
A. F. Read
M. B. Thomas

Other Department(s):

None

4464 - Understanding and Managing Arthropod Pests, Natural Enemies and Pollinators through Ecologically-Based Integrated Pest Management Approaches on Tree Fruits in Pennsylvania

Scheduled to Terminate: 12/31/16 *****Final Report Due*****

Department Responsible for Report: Entomology

Investigator(s):

D. J. Biddinger (Leader)
D. J. Biddinger
J. L. Frazier
G. Krawczyk
G. Krawczyk
C. A. Mullin
E. G. Rajotte

Other Department(s):

Fruit Research and Extension Center

4478 - The Chemical Ecology of Interactions among Plants, Insects and Microorganisms

Scheduled to Terminate: 06/30/16 *****Final Report Due*****

Department Responsible for Report: Entomology

Investigator(s):

J. F. Tooker (Leader)
T. C. Baker
A. G. Jared
J. H. Tumlinson

Other Department(s):

None

4481 - Insect Ecology and Management in Agroecosystems

Scheduled to Terminate: 06/30/16 *****Final Report Due*****

Department Responsible for Report: Entomology

Investigator(s):

S. J. Fleischer (Leader)
M. E. Barbercheck
M. E. Barbercheck
A. R. Deans
M. C. Saunders

Other Department(s):

None

4553 - Management of the Brown Marmorated Stink Bug

Scheduled to Terminate: 09/30/18

Department Responsible for Report: Entomology

Investigator(s):

G. Krawczyk (Leader)
G. Krawczyk

Other Department(s):

Fruit Research and Extension Center

4576 - Invasive Insect Pests of Ornamentals, Forest Trees, and Crop Plants

Scheduled to Terminate: 09/30/19

Department Responsible for Report: [Entomology](#)

Investigator(s):

K. Hoover (Leader)
G. W. Felton
R. J. Schilder
J. M. Urban

Other Department(s):

None

4579 - Sustainable Solutions to Problems Affecting Bee Health

Scheduled to Terminate: 09/30/19

Department Responsible for Report: [Entomology](#)

Investigator(s):

D. L. Cox-Foster (Leader)
C. M. Grozinger
H. M. Hines
C. A. Mullin
N. M. Ostiguy
H. M. Patch
E. G. Rajotte
E. G. Rajotte

Other Department(s):

None

4595 - Ecology and Management of Arthropods in Corn

Scheduled to Terminate: 09/30/20

Department Responsible for Report: [Entomology](#)

Investigator(s):

J. F. Tooker (Leader)
J. F. Tooker

Other Department(s):

None

4596 - Harnessing Chemical Ecology to Address Agricultural Pest and Pollinator Priorities

Scheduled to Terminate: 09/30/20

Department Responsible for Report: [Entomology](#)

Investigator(s):

G. W. Felton (Leader)
J. G. Ali
J. F. Tooker
J. F. Tooker
J. H. Tumlinson

Other Department(s):

None

4598 - Facilitating Registration of Pest Management Technology for Specialty Crops and Specialty Uses

Scheduled to Terminate: 09/30/20

Department Responsible for Report: [Entomology](#)

Investigator(s):

G. Krawczyk (Leader)
G. Krawczyk
G. Krawczyk
G. Krawczyk

Other Department(s):

Fruit Research and Extension Center

4606 - Insect Ecology and Management in Agroecosystems

Scheduled to Terminate: 06/30/21

Department Responsible for Report: [Entomology](#)

Investigator(s):

A. R. Deans (Leader)
M. E. Barbercheck
M. E. Barbercheck
S. J. Fleischer
M. C. Saunders
J. F. Tooker

Other Department(s):

None

4608 - Interactions between Insects and Pathogens/Parasites

Scheduled to Terminate: 06/30/21

Department Responsible for Report: [Entomology](#)

Investigator(s):

D. P. Hughes (Leader)
O. N. Bjornstad
L. Cui
A. F. Read
M. B. Thomas

Other Department(s):

None

4609 - Chemical Ecology of Multi-trophic Interactions Among Insects, Plants and Microorganisms

Scheduled to Terminate: 06/30/21

Department Responsible for Report: [Entomology](#)

Investigator(s):

T. C. Baker (Leader)
J. G. Ali
E. Amsalem
J. H. Tumlinson

Other Department(s):

None

4522 - Reducing Incidences of Foodborne Disease through Preharvest Intervention, Postharvest Control, Molecular Tracking and Knowledge of the Biological Basis of Pathogen Function

Scheduled to Terminate: 03/31/18

Department Responsible for Report: Food Science

Investigator(s):

E. G. Dudley (Leader)
C. N. Cutter
C. N. Cutter
S. Doores
K. E. Kaylegian
S. J. Knabel

Other Department(s):

None

4528 - Enhancing Microbial Food Safety by Risk Analysis

Scheduled to Terminate: 09/30/17

Department Responsible for Report: Food Science

Investigator(s):

C. N. Cutter (Leader)
C. N. Cutter
S. Doores
L. F. LaBorde

Other Department(s):

None

4565 - Improving the Physical and Nutritional Functionality of Food Ingredients

Scheduled to Terminate: 06/30/19

Department Responsible for Report: Food Science

Investigator(s):

J. D. Lambert (Leader)
J. N. Coupland
R. J. Elias
F. M. Harte
J. E. Hayes
R. F. Roberts
J. K. Vanamala
G. R. Ziegler

Other Department(s):

None

4583 - Nutrient Bioavailability--Phytonutrients and Beyond

Scheduled to Terminate: 09/30/18

Department Responsible for Report: Food Science

Investigator(s):

J. Vanamala

Other Department(s):

None

4594 - Engineering for Food Safety and Quality

Scheduled to Terminate: 09/30/20

Department Responsible for Report: Food Science

Investigator(s):

R. C. Anantheswaran (Leader)
R. C. Anantheswaran
A. Demirci
V. Puri

Other Department(s):

Agricultural and Biological Engineering
Agricultural Experiment Station

- 4442 - Management of Annual Bluegrass on Golf Courses: Improved Practices for Maintenance, Pest Control, and Viable Techniques for Transition to More Desirable Grasses**
Scheduled to Terminate: 09/30/16 *****Final Report Due*****
Department Responsible for Report: Plant Science
Investigator(s):
D. R. Huff (Leader)
J. E. Kaminski
J. E. Kaminski
P. J. Landschoot
P. J. Landschoot
B. A. McGraw
W. Uddin
Other Department(s):
Plant Pathology and Environmental Microbiology
- 4480 - Biology and Epidemiology of Plant Pathogenic Agents Influencing Host Plant Resistance, Pathogen Virulence and Disease Management**
Scheduled to Terminate: 06/30/16 *****Final Report Due*****
Department Responsible for Report: Plant Pathology and Environmental Microbiology
Investigator(s):
T. W. McNellis (Leader)
S. A. Isard
M. J. Roossinck
C. Rosa
W. Uddin
Other Department(s):
Fruit Research and Extension Center
- 4508 - Biology and Management of Iris Yellow Spot Virus (IYSV), Other Diseases, and Thrips in Onions (from W1008)**
Scheduled to Terminate: 09/30/17
Department Responsible for Report: Plant Pathology and Environmental Microbiology
Investigator(s):
B. K. Gugino (Leader)
Other Department(s):
None
- 4509 - Collaborative Potato Breeding and Variety Development Activities to Enhance Farm Sustainability in the Eastern US**
Scheduled to Terminate: 09/30/17
Department Responsible for Report: Plant Pathology and Environmental Microbiology
Investigator(s):
X. Qu (Leader)
Other Department(s):
None
- 4517 - Ecological and Genetic Diversity of Soilborne Pathogens and Indigenous Microflora**
Scheduled to Terminate: 09/30/17
Department Responsible for Report: Plant Pathology and Environmental Microbiology
Investigator(s):
M. M. Jimenez-Gasco
Other Department(s):
None
- 4527 - Genomic Approaches to the Identification of Fungal Plant Pathogens and Understanding Host Defense Response**
Scheduled to Terminate: 06/30/18
Department Responsible for Report: Plant Pathology and Environmental Microbiology
Investigator(s):
D. M. Geiser (Leader)
S. Kang
Y. Yang
Other Department(s):
None

4564 - Ozone Monitoring in Non-urban Regions of Pennsylvania and Effects of Ozone on Vegetation

Scheduled to Terminate: 04/30/19

Department Responsible for Report: [Plant Pathology and Environmental Microbiology](#)

Investigator(s):

D. D. Davis (Leader)
J. E. Carlson
D. R. Decoteau

Other Department(s):

Ecosystem Science and Management
Plant Science

4589 - Developing Management Strategies for Mushroom Cultivation to Improve Substrate Utilization, Manage Diseases, and Improve Yield and Fresh Quality to Increase Profitability

Scheduled to Terminate: 06/30/20

Department Responsible for Report: [Plant Pathology and Environmental Microbiology](#)

Investigator(s):

D. M. Beyer (Leader)
J. A. Pecchia

Other Department(s):

None

4593 - Mycotoxins: Biosecurity, Food Safety and Biofuels Byproducts (NC129, NC1025)

Scheduled to Terminate: 09/30/20

Department Responsible for Report: [Plant Pathology and Environmental Microbiology](#)

Investigator(s):

G. A. Kuldau (Leader)

Other Department(s):

None

4604 - Biology, Epidemiology, and Management of Foliar Diseases

Scheduled to Terminate: 06/30/21

Department Responsible for Report: [Plant Pathology and Environmental Microbiology](#)

Investigator(s):

W. Uddin (Leader)
C. T. Bull
S. A. Isard
T. W. McNellis
M. J. Roossinck
C. Rosa

Other Department(s):

None

4442 - Management of Annual Bluegrass on Golf Courses: Improved Practices for Maintenance, Pest Control, and Viable Techniques for Transition to More Desirable Grasses

Scheduled to Terminate: 09/30/16 *****Final Report Due*****

Department Responsible for Report: Plant Science

Investigator(s):

D. R. Huff (Leader)
J. E. Kaminski
J. E. Kaminski
P. J. Landschoot
P. J. Landschoot
B. A. McGraw
W. Uddin

Other Department(s):

Plant Pathology and Environmental Microbiology

4452 - Molecular and Genetic Analysis of Interacting Signaling Pathways Required for Fungal and Insect Resistance in Maize

Scheduled to Terminate: 09/30/16 *****Final Report Due*****

Department Responsible for Report: Plant Science

Investigator(s):

S. Chopra (Leader)
D. S. Luthe

Other Department(s):

None

4455 - Ecological Bases for Weed Management in Sustainable Cropping Systems

Scheduled to Terminate: 09/30/16 *****Final Report Due*****

Department Responsible for Report: Plant Science

Investigator(s):

W. S. Curran (Leader)

Other Department(s):

None

4510 - Improving Economic And Environmental Sustainability In Tree-fruit Production Through Changes in Rootstock Use

Scheduled to Terminate: 09/30/17

Department Responsible for Report: Plant Science

Investigator(s):

J. R. Schupp (Leader)
R. M. Crassweller
R. M. Crassweller
J. K. Harper
R. P. Marini
J. R. Schupp

Other Department(s):

Agricultural Economics, Sociology, and Education
Fruit Research and Extension Center

4534 - Conservation and Utilization of Plant Genetic Resources

Scheduled to Terminate: 09/30/18

Department Responsible for Report: Plant Science

Investigator(s):

M. R. Foolad (Leader)

Other Department(s):

None

4547 - Integrated Systems Research and Development in Automation and Sensors for Sustainability of Specialty Crops

Scheduled to Terminate: 09/30/18

Department Responsible for Report: [Agricultural and Biological Engineering](#)

Investigator(s):

P. H. Heinemann (Leader)
T. A. Baugher
J. Liu
J. R. Schupp
J. R. Schupp
J. R. Schupp

Other Department(s):

District 16
Fruit Research and Extension Center
Plant Science

4550 - Enhancing Green Infrastructure in Pennsylvania

Scheduled to Terminate: 09/30/18

Department Responsible for Report: [Plant Science](#)

Investigator(s):

R. D. Berghage (Leader)
R. M. Bates
J. C. Sellmer

Other Department(s):

None

4551 - Integrated Weed Management at a Crossroads

Scheduled to Terminate: 09/30/18

Department Responsible for Report: [Plant Science](#)

Investigator(s):

D. A. Mortensen (Leader)

Other Department(s):

None

4564 - Ozone Monitoring in Non-urban Regions of Pennsylvania and Effects of Ozone on Vegetation

Scheduled to Terminate: 04/30/19

Department Responsible for Report: [Plant Pathology and Environmental Microbiology](#)

Investigator(s):

D. D. Davis (Leader)
J. E. Carlson
D. R. Decoteau

Other Department(s):

Ecosystem Science and Management
Plant Science

4569 - Endowed Program in the Molecular Biology of Cacao: Discovery and Functional Analysis of Genes for Disease Resistance

Scheduled to Terminate: 06/30/19

Department Responsible for Report: [Plant Science](#)

Investigator(s):

M. J. Gultinan (Leader)

Other Department(s):

None

4571 - Fates of Soil Carbon and Nitrogen in Agricultural and Bioenergy Crop Systems

Scheduled to Terminate: 06/30/19

Department Responsible for Report: [Plant Science](#)

Investigator(s):

A. R. Kemanian (Leader)
M. A. Bruns
J. P. Kaye

Other Department(s):

Ecosystem Science and Management

October 1, 2015 through September 30, 2016
as of September 22, 2016

4572 - Multi-state Evaluation of Winegrape Cultivars and Clones**Scheduled to Terminate:** 09/30/17**Department Responsible for Report:** [Plant Science](#)**Investigator(s):**

R. M. Crassweller (Leader)
 M. Centinari
 R. M. Crassweller

Other Department(s):

None

4582 - Root Traits for Better Crop Performance Under Abiotic Stress**Scheduled to Terminate:** 12/31/19**Department Responsible for Report:** [Plant Science](#)**Investigator(s):**

K. M. Brown (Leader)
 J. P. Lynch

Other Department(s):

None

4590 - Improving Berry Crop Cultural Systems and Productivity**Scheduled to Terminate:** 06/30/20**Department Responsible for Report:** [Plant Science](#)**Investigator(s):**

K. Demchak (Leader)
 W. J. Lamont
 R. P. Marini

Other Department(s):

None

4592 - A multidisciplinary approach to sustainable turfgrass systems management**Scheduled to Terminate:** 06/30/20**Department Responsible for Report:** [Plant Science](#)**Investigator(s):**

M. J. Schlossberg (Leader)
 D. R. Huff
 J. E. Kaminski
 P. J. Landschoot
 B. A. McGraw
 A. S. McNitt

Other Department(s):

None

4597 - Regulation of Ethylene Biosynthesis**Scheduled to Terminate:** 09/30/20**Department Responsible for Report:** [Plant Science](#)**Investigator(s):**

R. N. Arteca (Leader)

Other Department(s):

None

4599 - Specialty Crops and Food Systems: Exploring Markets, Supply Chains and Policy Dimensions**Scheduled to Terminate:** 09/30/20**Department Responsible for Report:** [Plant Science](#)**Investigator(s):**

K. M. Kelley (Leader)
 K. M. Kelley
 R. D. Weaver

Other Department(s):

Agricultural Economics, Sociology, and Education

4600 - Advancing Agronomic Cropping Systems in the Northeast

Scheduled to Terminate: 03/31/21

Department Responsible for Report: [Plant Science](#)

Investigator(s):

W. S. Curran (Leader)

D. B. Beegle

R. L. Day

S. W. Duiker

M. H. Hall

H. D. Karsten

A. R. Kemanian

G. W. Roth

J. A. Williamson

Other Department(s):

None

4446 - Bordetella-Host Interactions

Scheduled to Terminate: 06/30/16 *****Final Report Due*****
Department Responsible for Report: Veterinary and Biomedical Science
Investigator(s): **Other Department(s):**
 E. T. Harvill (Leader) None
 M. J. Kennett
 G. S. Kirimanjeswara
 N. Xiong

4451 - Regulation of Environmental Diseases by Soluble Receptors

Scheduled to Terminate: 06/30/16 *****Final Report Due*****
Department Responsible for Report: Veterinary and Biomedical Science
Investigator(s): **Other Department(s):**
 J. M. Peters (Leader) None
 A. B. Glick
 C. J. Omiecinski
 A. D. Patterson
 G. H. Perdew

4470 - Regulation of Immune Function and Gastrointestinal Homeostasis by Nutrients: Especially Vitamin D

Scheduled to Terminate: 03/31/17
Department Responsible for Report: Veterinary and Biomedical Science
Investigator(s): **Other Department(s):**
 M. T. Cantorna (Leader) None
 N. Xiong

4475 - Redox Modulation of Inflammatory Pathways by Micronutrient Selenium in Health and Disease - eff

Scheduled to Terminate: 06/30/16 *****Final Report Due*****
Department Responsible for Report: Veterinary and Biomedical Science
Investigator(s): **Other Department(s):**
 K. S. Prabhu (Leader) None

4497 - Pathogenesis of Paramyxoviruses

Scheduled to Terminate: 09/30/16 *****Final Report Due*****
Department Responsible for Report: Veterinary and Biomedical Science
Investigator(s): **Other Department(s):**
 A. P. Schmitt (Leader) None

4512 - Mycobacterial Diseases of Animals

Scheduled to Terminate: 09/30/17
Department Responsible for Report: Veterinary and Biomedical Sciences
Investigator(s): **Other Department(s):**
 V. Kapur (Leader) None
 E. P. Hovingh

4514 - Mastitis Resistance to Enhance Dairy Food Safety

Scheduled to Terminate: 09/30/17

Department Responsible for Report: [Veterinary and Biomedical Sciences](#)

Investigator(s): E. P. Hovingh (Leader) **Other Department(s):** None

4523 - Peroxisome Proliferator-Activated Receptors (PPARs) in Nutrition and Disease

Scheduled to Terminate: 12/31/16 *****Final Report Due*****

Department Responsible for Report: [Veterinary and Biomedical Sciences](#)

Investigator(s): J. P. VandenHeuvel (Leader) **Other Department(s):** None

4568 - Infection, Inflammation, and Leptin in Cancer

Scheduled to Terminate: 06/30/19

Department Responsible for Report: [Veterinary and Biomedical Sciences](#)

Investigator(s): V. Kapur (Leader) **Other Department(s):** None

4581 - Mechanisms Regulating the Response to Anemic Stress

Scheduled to Terminate: 12/31/19

Department Responsible for Report: [Veterinary and Biomedical Sciences](#)

Investigator(s): R. F. Paulson (Leader)
P. H. Hankey **Other Department(s):** None

4588 - Application of Veterinary Diagnostic Medicine to Detect and Diagnose Mammalian and Avian Diseases

Scheduled to Terminate: 06/30/20

Department Responsible for Report: [Veterinary and Biomedical Sciences](#)

Investigator(s): B. M. Jayarao (Leader)
V. R. Beasley
J. W. Brooks
S. Kariyawasam **Other Department(s):** None

4605 - Redox Modulation of Inflammatory Pathways by Micronutrient Selenium in Health and Disease

Scheduled to Terminate: 06/30/21

Department Responsible for Report: [Veterinary and Biomedical Sciences](#)

Investigator(s): K. S. Prabhu (Leader)
M. J. Kennett
G. S. Kirimanjeswara **Other Department(s):** None

4607 - Environmental Stressors of Cellular Receptors and Disease Response

Scheduled to Terminate: 06/30/21

Department Responsible for Report: [Veterinary and Biomedical Sciences](#)

Investigator(s): C. J. Omiecinski (Leader)
A. B. Glick
A. D. Patterson
G. H. Perdew
J. M. Peters **Other Department(s):** None