

## Our Mission

... is to support environmentally and economically sustainable farming in the northeastern U.S. by improving agroecosystem management.

## Major Research Efforts

Developing fundamental information for establishing, maintaining, and managing diverse forage and grazing lands, recognizing ecosystem services beyond the traditional forage, food, and fiber production to include emerging services such as carbon sequestration, greenhouse gas mitigation, and bioenergy production.

Developing fundamental information linking agricultural management with water quality and developing management practices and strategies that balance production and agroecological services.

Using experimental measurements, model development, and whole farm simulation to evaluate system interactions and improve farm management effects on air, soil, and water quality.



## Research Scientists

**Dr. Peter J. A. Kleinman** – Research Leader/ Soil Scientist

Conducts research on nutrient management and water quality. Develops practices and strategies for farms, and action agencies.

(peter.kleinman@ars.usda.gov)

**Dr. Paul R. Adler** - Agronomist

Conducts research at multiple scales on the ecology and management of grasslands for production of biofuels, on production practices that impact their value as wildlife habitat, and life cycle analysis of energy crop rotations. (paul.adler@ars.usda.gov)

**Dr. Ray B. Bryant** - Soil Scientist

Uses soil information systems to assess resource potential for grazing lands and predict the impacts of farm management at pedon, field, farm, watershed, and regional scales. Conducts research on soil and landscape processes affecting nutrient transport.

(ray.bryant@ars.usda.gov)

**Dr. Anthony R. Buda** - Hydrologist

Researches effects of agriculture on water quantity and quality at field and watershed scales; advances alternative practices to improve water quality and enhance farm viability, focusing on hydrologic and nutrient cycling processes.

(anthony.buda@ars.usda.gov)

**Dr. Clinton Church** - Chemist

Conducts research on the fate and transport of nutrients and anthropogenic compounds at field and watershed scale. Research focuses on the biotic and abiotic processes controlling chemical transformations in ground and surface water.

(clinton.church@ars.usda.gov)

**Dr. Curtis J. Dell** - Soil Scientist

Conducts research on soil organic matter and nutrient cycling. Evaluates the impact of soil management and manure application on soil quality, greenhouse gas production, and soil carbon storage.

(curtis.dell@ars.usda.gov)

**Dr. Sarah C. Goslee** - Plant Ecologist

Studies the factors controlling plant species diversity in managed grasslands; including climate, soils, biotic interactions and landscape pattern. Develops methods to support pasture productivity and sustainability by managing plant community composition.

(sarah.goslee@ars.usda.gov)

**Dr. Casey Kennedy** – Hydrologist

Conducts research on water and nutrient management in cranberry systems to develop strategies that advance profitability and sustainability of cranberry production. Dr. Kennedy is located in East Wareham MA.

(casey.kennedy@ars.usda.gov)

**Dr. C. Alan Rotz** - Agricultural Engineer

Conducts research on farming systems for dairy or beef production. Uses modeling approaches to evaluate and refine strategies for improving the efficiency, profitability, and environmental sustainability of farms.

(al.rotz@ars.usda.gov)

**Dr. R. Howard Skinner** - Plant Physiologist

Conducts research and uses simulation models to examine plant-plant interactions and plant responses to biotic and abiotic stresses in multi-species mixtures. Uses micrometeorological and other techniques to study carbon fluxes in pasture systems.

(howard.skinner@ars.usda.gov)

**Dr. Kathy J. Soder** - Animal Scientist

Develops and evaluates feeding management strategies to improve the economic and environmental sustainability of pasture-based animal systems through improved nutrient utilization, animal productivity, and animal health. (kathy.soder@ars.usda.gov)

**Dr. Tamie L. Veith** - Agricultural Engineer

Researches land management effects on nutrient and sediment fate and transport through explanatory and predictive models. Evaluates the impact of land management selection and placement on field, farm, and watershed scale losses. (tamie.veith@ars.usda.gov)

## Staff

### Research Associates

Senorpe Asem-Hiablle – Agricultural Engineer  
Henry Bonifacio – Agricultural Engineer  
Sandra Leanne Dillard – Animal Scientist  
Kyle Elkin - Chemist

### Administrative Support

Donita Gibboney - Administrative Officer  
Karen Gardner – Contract Specialist  
Scott Spear – Maintenance Worker  
Carl Confer – Laborer

### Program Support

Allison Kay Mowery – Program Support Assistant  
James Beck – Office Automation Assistant

### Research Support

Dennis Bookhamer - Agricultural Science Technician  
John Everhart - Agricultural Science Technician  
Sarah Fishel - Biological Science Technician  
Gordon Folmar - Hydrologist  
Jeffery Gonet - Agricultural Science Technician  
Charles Montgomery - Physical Science Technician  
Matt Myers - Agricultural Science Technician  
David Otto - Research Laboratory Mechanic  
Michael Reiner - Hydrologic Technician  
James Richards - Hydrologic Technician  
Lou Saporito - Soil Scientist  
Paul Spock - Physical Science Technician  
Robert Stout - Agronomist  
Todd Strohecker - Hydrologic Technician  
Terry Troutman - Hydrologic Technician  
Joan Weaver - Physical Science Technician  
Sophie Wilderotter - Physical Science Technician

## ARS Mission Statement

As the principal in-house research arm of the United States Department of Agriculture (USDA), the Agricultural Research Service has a mission to:

Conduct research to develop and transfer solutions to agricultural problems of high national priority and provide information access and dissemination to: ensure high-quality, safe food and other agricultural products; assess the nutritional needs of Americans; sustain a competitive agricultural economy; enhance the natural resource base and the environment; and provide economic opportunities for rural citizens, communities, and society as a whole.

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United States Department of Agriculture  
Agricultural Research Service

# Pasture Systems & Watershed Management Research Unit

University Park, PA

