

Physical Resources

Land and Facilities	Description
Public educational conveyance to Virginia Tech in 2002	1182 acres: office complex, labs, greenhouses, farm buildings, cropland, irrigation pond

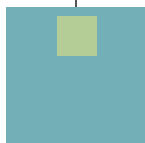
Director – Carol Wilkinson, 434-292-5331, wilki@vt.edu

Resident Faculty

Faculty	Research and Extension Focus Areas
Chuck Johnson Professor, Plant Plant Pathology, Physiology, and Weed Science (PPWS)	Disease management in tobacco and small fruits
David Reed Research Scientist, Crop and Soil Environmental Sciences (CSES)	Tobacco curing efficiency and technology
Paul Semtner Professor Emeritus, Entomology (ENTO)	Insect management in tobacco
Chris Teutsch Associate Professor, Crop and Soil Environmental Sciences (CSES)	Forage production and management
Brad Ellis Analytical Chemist Senior	Analytical analyses of tobacco, forages, small fruits, corn, and peanuts
Carol Wilkinson Associate Professor, Crop and Soil Environmental Sciences (CSES)	Tobacco genetics

Non-resident Faculty Conducting Research and Collaborative Work

Faculty	Research and Extension Focus Areas
Jon Eisenback Professor, Plant Plant Pathology, Physiology, and Weed Science (PPWS)	Nematode taxonomy
Gonzalo Ferreira Assistant Professor, Dairy Science (DASC)	Silage systems
John Fike Associate Professor, Crop and Soil Environmental Sciences, (CSES)	Grazing management systems
Michael Flessner Assistant Professor, Plant Plant Pathology, Physiology, and Weed Science (PPWS)	Weed science extension
Carl Griffey Professor, Crop and Soil Environmental Sciences, (CSES)	Wheat and barley variety development
Anne Jack University of Kentucky – Plant and Soil Sciences	Burley genetics and cured-leaf chemistry
Biswarup Muhopadhyay Associate Professor, Biochemistry (BCHM)	Metagenomics of rumen microbial processes
John Munsell Associate Professor, Forest Resources and Environmental Conservation (FREC)	FREC, Silvopasture
Mike Ruohoniemi Associate Professor, Electrical and Computer Engineering (ECE)	Super DARN radar
Jayesh Samtani Assistant Professor, Horticulture (HORT)	Sustainable berry crop production
Ryan Stewart Associate Professor, Biological Systems Engineering (BSE)	CSES, Soil-water interactions
Wade Thomason Associate Professor, Crop and Soil Environmental Sciences, (CSES)	Corn and small-grain variety testing



Postdoctoral Scientists, Graduate Students, and Student Interns

Individual	Advisor	Program and Focus Area
Noah Adamo	Johnson/Eisenback	Ph.D. candidate, Mechanisms of resistance to endoparasitism by <i>Meloidogyne javanica</i> and <i>Meloidogyne arenaria</i>
Taylor Brown	Reed	M.S. candidate, Renewable fuels in tobacco curing
Kelly Mercier	Teutsch/Fike	Ph.D. candidate, Silvopasture establishment and management
Kyle Quick	Teutsch	M.S. candidate, Alfalfa hay export

Farm Management, Technical, and Office Staff

Funding Category	Employees	Comment
State Funded, full-time	11	Includes farm manager, 2 office staff, 8 technical staff
Grants and Contracts, full-time	4	Technical staff employees
Grants and Contracts, part-time	24	Includes 1500 hour/year, seasonal and summer employees

Research and Extension Programs

- Greenhouse transplant production and investigation of alternative production systems. (Reed)
- Tobacco agronomic production practices. (Reed)
- Alternative MH application procedures and MH residue management. (Reed)
- Reducing the environmental footprint of tobacco production. (Reed)
- Tobacco conservation tillage. (Reed)
- Flue-cured tobacco curing efficiency and evaluation of new curing barn technologies (Reed)
- Tobacco variety evaluation of flue-cured, burley, and dark fire-cured tobacco. (Reed, Wilkinson)
- Factors affecting seed transmission of tobacco mosaic virus. (Wilkinson, Reed)
- Evaluating alternative methods to control *Pythium* stem and root rot in tobacco greenhouses. (Johnson, Reed)
- Identifying new crop protection agents and possible biocontrol agents to manage tobacco black shank, root-knot and tobacco cyst nematodes. (Johnson, Clarke, Barts)
- Evaluating tobacco cultivars for resistance to tobacco black shank, bacterial wilt, and root-knot and tobacco cyst nematodes. (Johnson, Clarke, Reed, Barts)
- Identifying the mechanisms of improved resistance to root-knot nematodes in flue-cured tobacco. (Johnson, Eisenback, Reed)
- Improving management of tobacco leaf spots by evaluating traditional and alternative crop protection agents. (Johnson)
- Identifying improved alternatives to traditional soil fumigation to manage black root rot of strawberry. (Johnson, Samtani)
- Improving management of strawberry fruit rots. (Johnson)
- Changes in rumen microflora populations influenced by genetics and endophyte type in cows grazing tall fescue. (Muhopadhyay, Teutsch)
- Development of grazing systems for ruminant livestock that are economically and environmentally sustainable. (Teutsch, Abaye, Fike)
- Silvopasture establishment and management. (Teutsch, Fike, Munsell)
- Summer annual grass for summer grazing. (Teutsch, Fike)
- Stabilizing silage yields in Virginia with BMR-6 forage sorghum. (Teutsch, Ferreira)
- Grazing strategies for stockpiled tall fescue. (Teutsch)
- Developing a hay export market in the humid eastern United States. (Teutsch)

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