





 Personnel Matt Sanderson, Lead Scientist, Agronomist •Paul Adler, Agronomist, Biofuels Sarah Goslee, Landscape ecologist •Kathy Soder, Animal scientist Howard Skinner, Plant physiologist (40% time) •Curtis Dell, Soil carbon scientist (30% time) Technical Support ·John Everhart, Agricultural technician Jeff Gonet, Biologist, support scientist •Steve Lamar, Agricultural technician •Matt Myers, Agricultural technician •Melissa Rubano, Agricultural technician Rob Stout, Agronomist, support scientist Research Objectives Develop tools to aid the selection of species mixtures for pastures and the distribution of pasture types across a farm. 2. Identify new grazing management and supplementation strategies that complement grazing preferences of dairy cattle on mixedspecies cool-season pastures. 3. Identify management systems that minimize net greenhouse gas emissions in forage, grassland, and energy crop systems.

4. Determine optimal management and environmental outcomes of perennial and annual bioenergy cropping systems.









Managing Forage and Grazing Lands for Multiple Ecosystem Services Pasture Systems and Watershed Management Research Unit, University Park, PA

Research on plant diversity in northeastern U.S. pastures identified many plant

Research on biofuels focuses on switchgrass,