

**CIG in Pennsylvania**

Year	Component	Organization	Proposal Title	Project Director	Project Location	FGR	State Contact	Grant Funds	Status
2004	National	The Rodale Institute	No-Till Plus: A One-Pass Cover Crop Roller/Planter System that can Reduce or Eliminate Herbicide and Chemical Fertilizer Use on Most No-Till Acres	Jeff Moyer, jeff.moyer@rodaleinst.org	Berks Co.	Susan Andrews, Soil Quality Team Leader, Ecologist, East NTSC, Northwood Bld., Suite 410, 200 East Northwood Street, Greensboro, NC	Joel Myers, Joel.Myers@pa.usda.gov	\$541,050	
2004	National	Pennsylvania Environmental Council	Designing, Evaluating, and Implementing a Market-Based System for Delivery of Conservation Practice Funding	Andrew McElwaine 717-230-8044	Lancaster, PA	Frank Clearfield, Social Science Team Leader, East NTSC, Northwood Bld., Suite 410, 200 East Northwood Street, Greensboro, NC 27401	Brad Michael, District Conservationist, Brad.Michael@pa.usda.gov	\$939,734	
2005	National	Brian Brake	Planting Alternative Dairy Forages	Brian Brake, 717-816-9184	Franklin Co.	East NTSC-Core Team	Suzette L. Truax, Grazing Specialist Suzette.Truax@pa.usda.gov	\$9,265	
2005	National	Mifflin County Conservation District	Environmentally Sensitive Maintenance on Ag Access Roads to Eliminate Nutrient and Sediment Pollution in the Kishacoquillas Valley	Daniel Dunmire 717-248-4695	Mifflin Co.	East NTSC-Core Team	Terence Repine, District Conservationist	\$430,866	
2005	National	Chesapeake Bay Foundation	Precision Dairy Feeding to Reduce Nutrient Pollution in Pennsylvania's Waters and the Chesapeake Bay	Matthew Ehrhart 717-234-5550	PA, Chesapeake Bay Watershed	East NTSC-Core Team	Jana Malot, State Resource Conservationist	\$400,298	
2005	National	Chester County Conservation District	Horse Drawn No-Till Planter for Plain-Sect Farmers	Christian Strohmaier, 610-696-5126	Chester Co.	East NTSC-Core Team	Samuel A. High, DC Samuel.High@pa.usda.gov	\$10,700	complete
2005	National	Penn State University	Controlling Odor and Nutrient Losses to Surface Runoff, Groundwater and Air with New and Conventional Manure Injection Technologies on No-Till and Sod Soils	Douglas Begle, 814-863-1016, dbb@psu.edu	Centre & Clearfield Co.	West NTSC - Air Quality and Atmospheric Change - Greg Zwicke	Joel Myers, ACES Joel.Myers@pa.usda.gov	\$196,291	
2006	National Multistate includes PA	Agflex Inc.	Improving Conservation & Ag Economics with WQ Credit Trading & the BMP Challenge	Thomas Green, 1914 Rowley Ave. Madison, WI	working with PDA & K. Brown Susquehanna & Potomac rivers		Noel Soto, noel.soto@pa.usda.gov	\$683,567	
2006	National Multistate includes PA	Iowa Soybean Association	Multi-state Outcomes Based Nitrogen Efficiency Project for Corn production	Tracy Blackmer, 4554 114th St., Urbandale, IA 50322	Lancaster Co.		Kelly Ireland, Agronomist Kelly.Ireland@pa.usda.gov	\$750,000	
2006	National Multistate includes PA	Chicago Climate Exchange	Carbon Credit Generation Program: Cost Effective Procedures to Estimate, Aggregate, Verify & Deliver Carbon Credits to Private Sector Markets	Dr. Michael Walsh, 190 S. LaSalle St., Ste. 800 Chicago, IL 60603	Pennsylvania		Mark Goodson, Agronomist Mark.Goodson@pa.usda.gov	\$750,000	
2006	National	The Pennsylvania State University	Field Tests on Systems Approaches for Retooling Mid-Atlantic Orchards with Innovative Conservation Technologies	Tara Baugher, 670 Old Harrisburg Rd., Ste. 204 Gettysburg, PA 17325	Adams Co.	Holli Kuykendall, NRCS ENTSC, 336-370-3341	Mark Goodson, Agronomist Mark.Goodson@pa.usda.gov	\$122,274	
2006	PA	Kaolin Mushroom Farms, Inc.	Spent Mushroom Compost Baling for Various Transportation Methods	John Pia - 610-444-4800	Chester Co.	N/A, State CIG	Noel Soto	\$75,000	complete

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2006	PA	Collaborative Research and Designs for Agriculture d/b/a Protected Harvest (CA group, PSU & Farmer)	Setting the Standard for Pennsylvania Mushrooms: A Market Based Approach to Protecting Air Quality	Andrea Caroe - 858-780-1182	Adams Co.	N/A, State CIG	Noel Soto	\$75,000	complete
2006	PA	PSU	Leguminous and Brassica Cover Crops to Meet Nitrogen needs and Improve Soil Quality	Sjoerd Duiker - 814-863-7637	Centre Co.	N/A, State CIG	Noel Soto	\$75,000	complete
2006	PA	PSU	Verifying Environmental Benefits and Enhancing Grower Adoption of Ecologically Based IPM in Pennsylvania Apple Orchards	David Biddinger - 717-677-6116	Adams Co.	N/A, State CIG	Noel Soto	\$75,000	complete
2007	National	United Egg Producers	Feeding & Altering Diets for Egg Laying Hens				Jana Malot, Jana.Malot@pa.usda.gov	\$812,998	
2007	National	Pennsylvania Environmental Council	Use of Excess Manures for Mine Reclamation and Biofuel Production	Brian Hill -	Schuylkill Co.	Theodis Bunch	Noel Soto, noel.soto@pa.usda.gov	\$212,000	
2008	PA	PSU	Camelina & Conservation - Early cover crop & bioenergy production.	Joel M. Hunter, jmh7@psu.edu	Erie & Crawford counties	N/A, State CIG	Noel Soto	\$75,000	complete
2008	Chesapeake Bay	American Farmland Trust	Chesapeake Bay Water Quality Initiative. BMP Challenge/reduce N use with performance guarantees.	Brian Brandt, 814-221-8610, bbrandt@farmland.org	Maryland, Pennsylvania, Virginia	Lillian Woods		\$650,000	
2008	Chesapeake Bay	Chesapeake Bay Foundation, Inc.	The Chesapeake Nutrient Neutral Fund. Leverage private dollars to create fund for restoration. Nutrient credit standards & registry.	Laura Carrier, 410-268-8816, lcarrier@cbf.org	Ches. Bay Watershed-wide	Lillian Woods		\$500,000	
2008	Chesapeake Bay	Trout Unlimited	Controlling P in animal waste with mine drainage residuals	Amy G. Wolfe, 570-726-3118, awolfe@tu.org	Paul Dotterer & Sons Farm, Clinton County, PA	Lillian Woods		\$254,034	
2008	Chesapeake Bay	University of Pennsylvania	Integrated Nutrient Management Program to reduce nutrient loss and enhance productivity on dairy farms.	Kim Garrison, 215-898-2344, kimmg@pobox.upenn.edu	Lower Susquehanna, PA	Lillian Woods		\$607,866	
2008	Chesapeake Bay	Windview Farm	Manure Gasification Boiler Project (heating for turkey house)	William (Mac) Curtis, 570-374-9840, Windview@dishmail.net	Snyder County, PA	Lillian Woods		\$100,000	
2008	National	Environmental Credit Corporation	Enhancing Air Quality through the Adoption of Small-Scale Anaerobic Manure Digesters on Dairy Farms in Pennsylvania	Scott Subler, 814-235-1623; www.envcc.com	southeast PA			\$225,000	
2009	National (Bay)	Western Pennsylvania Conservancy	Aughwick Creek Streambank Stabilization and Fencing to Reduce the effects of Erosion and Nutrient	Jennifer Bennett 814-696-9356	Huntingdon & Fulton	Kale Gullett, NRCS ENTSC, 336-370-3343 Kale.gullett@gnb.usda.gov	Louis J. Pearce	\$84,000	
2009	National (Bay)	Chesapeake Bay Foundation, Inc.	Innovative Ways to Increase Ag BMP Adoption	Laura Carrier, 410-268-8816, lcarrier@cbf.org	Bradford Co.	William Boyd, NRCS ENTSC, 336-370-3334 William.Boyd@gnb.usda.gov	Noel Soto	\$800,314	

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2009	National (Bay)	The Pennsylvania State University	Promoting Adoption of Innovative Conservation Cropping System on Livestock Farms	Heather Karsten 814-863-3179	Bradford, Franklin, Lancaster & Berks	Gene Hardee, NRCS ENTSC, 336-370-3365 gene.hardee@gnb.usda.gov	Mark Goodson	\$223,927	
2009	National (Bay)	The Food Alliance	Market Incentives for Conservation in Pennsylvania	Scott Exo, 503-493-1066		David Lamm, NRCS ENTSC, 336-370-3339, david.lamm#gnb.usda.gov	Gwendolyn Crews	\$350,000	
2009	National (multistate)	Xerces Society, Inc.	Develop and Test Pollinator Habitat Job Sheets for Six Regions of the US	Scott Black, 503-323-6640	PA	Gilbert Wendell, NRCS WNTSC, 503-293-2426		\$255,312	
2009	National (multistate)	SureHarvest	The Stewardship Index for Specialty Crops	Jeff Dlott, 831-477-7797	PA	David Lamm, NRCS ENTSC, 336-370-3339, david.lamm#gnb.usda.gov		\$630,000	
2009	National (multistate)	Agflex Inc.	BMP Challenge Across the Corn Belt and Rapid Adoption of Conservation Tillage in California through Improved Technical Assistance and managing Risk	Thomas Green, 1914 Rowley Ave. Madison, WI, 608-232-1425	PA	Dave Buland, NRCS CNTSC, 817-509-3577, david.buland@ftw.usda.gov	Dan Dostie	\$930,703	
2009	PA	Advanced Technologies & Land Services Tree Farm	Installation of Compressed Natural Gas Fill station and Conversion of farm delivery & utility truck to CNG bi-fuel system	Michael Studer, 269-921-1290, studer6@aol.com	Armstrong Co.	N/A, State CIG	Noel Soto	\$75,000	complete
2010	National (multistate)	Cornell University	"Precise Nitrogen Management for Corn Production: Mitigating Environmental Nitrogen Losses and Adapting to Climate Change"		PSU	Philip Mcloud, philip.mcloud@gnb.usda.gov		284,444	
2010	National	PSU	"Without Carrot or Stick: Promoting BMPs on Small Dairy Farms,"	Sjoerd Duiker - 814-863-7637	Berks, Bradford, Columbia, Dauphin, Franklin, Lancaster, Lebanon, York	Ray Arculeta ray.arculets@gnb.usda.gov	Mark Goodson, Mark Goodson@pa.usda.gov	256,960	
2010	National (multistate)	National Center for Appropriate Technology	Integrating Sustainable and Organic Agriculture into NRCS Programs	Jeff Schahczenski		Giulio Ferruzzi, giulio.ferruzzi@por.usda.gov		502,659	
2010	National (multistate)	World Resources Institute	A Multistate Water Quality Trading Platform for the Chesapeake Bay	Mindy Selman, 202-729-7704		Shaun McKinney, shaun.mckinney@por.usda.gov		600,000	
2010	National (multistate)	The Forest Guild	Promoting Adoption of Innovative Conservation Practices for Sustainable Forest Biomass	Bob Perschel, 508-829-9984		Thomas Ward, thomas.ward@gnb.usda.gov		147,057	
2010	National (multistate)	Dairy Research Institute	Farm Energy Audit Data Collector Training Program	Erin Fitzgerald -DRI		Stefanie Aschmann, stefanie.aschmann@por.usda.gov	Noel Soto, noel.soto@pa.usda.gov	225,000	
2010	PA	Rodale Intitute	Taking Soil C Measurement Results and Management Decision Support Technologies from Lab-and Trial-Scale to the Farm-Scale	Elaine N. Viglione	Berks Co.			74,954	complete
2010	PA	Octoraro Watershed	Conservation Outreach and Technology Transfer to the Amish Farming Community	John Shuman	Lancaster Co.		Noel Soto	55,300	complete
2010	PA	Penn Soil RC&D	Northwest PA Nutrient Reduction Demonstration Project 1	Rosemary Adomites	RC&D Area NW PA			69,746	complete
2011	PA	Twin Springs Fruit Farm, Inc.	On farm fuel switch from fossil fuels to woody biomass for thermal energy production	Tom Childs	Adams Co.		Noel Soto	\$75,000	complete

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2011	PA	Rodale Institute	Demonstration of improved compost management to effectively utilize animal waste nutrient resources and support increased soil nutrient	Dr. Elaine Ingham	Berks Co.		Mark Goodson	\$73,078	complete
2011	PA	PSU	Engine and heating fuel from farm grown crops. (SVO)	Douglas Schaufler	Crawford & Perry		Noel Soto	\$27,728	complete
2011	PA	PSU	Swine manure odor reduction using a humic amendment: on-farm demonstration	Robin C. Brant	Mifflin Co.		Noel Soto	\$40,000	complete
2011	National-Multistate	SureHarvest	Stewardship Index for Specialty Crops					\$ 761,820	
2011	National-Multistate	National Fish and Wild Foundation	Using excess manure to generate farm income in the Chesapeake's phosphorous hot spots		Chesapeake B. Area			\$ 848,424	
2011	National-Multistate	The American Chestnut Foundation	Use chestnut to establish forest plantings on reclaimed mine sites in Appalachia, develop an online trees database to store, share & track data, run workshops to evaluate mined sites for plantings					\$ 541,136	
2011	National-Multistate	Rodale Institute	Nutrient Management in Organic No-Till Systems			Mark Gross		\$ 468,519	
2011	National-Multistate	Cornell University	Demonstration and validation of vermicompost-based fertilizers and substrates in greenhouse production as an organic nutrient source that returns animal waste to plant production while reducing nutrient leaching to the environment					\$ 203,723	
2011	National-PA	The Pennsylvania State University	Use of a Stackable Material Anaerobic Digester for Combined Heat and Power Generation, Manure Odor Reduction and Food Waste Energy		Centre Co. (PSU)			\$ 1,000,000	
2011	National-PA	The Pennsylvania State University	Pennsylvania Small Farm Environmental Stewardship Program: Implementing conservation Practices on Small Farms and Using Environmental Stewardship as a		Chesapeake B. Area			\$ 363,424	
2011	Nat-Multistate-AirQ.	Dairy Science Institute, Inc.	Dairy Farm Stewardship Toolkit-software to help farmers reduce GHG					\$1,102,000	
2012	Nat-Multistate	Alliance for the Chesapeake Bay, Inc.	Facilitating forest-based offsets in water quality trading		PA, MD, VA			\$437,756	
2012	Nat-Multistate	Chesapeake Bay Foundation	Operationalizing Water Quality trading in the Chesapeake Bay		PA, VA			\$700,880	
2012	National PA	Borough of Chambersburg	Local Utilization of Agricultural Credits Program		PA			\$336,150	
2012	National-PA	The Pennsylvania State University	Refining and Harmonizing Phosphorus Indices in the Chesapeake Bay Region to Improve Critical Source Area Identification and to Address Nutrient Management		PA			\$801,535	

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2012	Nat-Multistate	The Pennsylvania State University	Maximizing conservation in the Chesapeake Bay watershed with an innovative new 3-way interseeder to early establishment of cover crops in no-till corn and soybean		NY, PA, MD			\$688,684	
2012	Nat-Multistate	The University of Vermont and State Agricultural College	Energy savings through holistic planned grazing and management		WV, PA, NY, NH, NJ, VT, ME, CT, RI, MA, OH, MD, DE, VA			\$66,365	
2012	Nat-Multistate	The Xerces Society, Inc	Next steps in pollinator conservation: Operations and maintenance, organic habitat restoration, expanding seed mix choices, and assessing conservation effectiveness		CA, OR, MN, MI, WI, NJ, PA, MA, NH, FL, WY, MT, IN, TX			\$997,815	
2012	Nat-Multistate	University of Arkansas	Identify Methods to Refine Phosphorus Indices and Synthesize and Extend Lessons and Outcomes from Three Regional Indexing Efforts		DE, MD, NY, PA, VA, WV, IA, KS, MO, NE, AR, FL, GA, KY, MS, NC, OK, SC, TN, TX			\$57,924	
2012	Nat-Multistate	University Of Delaware	Innovative Approaches to Capture Nitrogen and Air Pollutant Emissions from Poultry Operations		DE, AR, PA			\$967,461	
2013	Nat-Multistate	National Fish and Wild Foundation	SAM Initiative: Achieving Subsurface Application of Manures in the Chesapeake Bay Basin. (solid & liquid manure injection)		NY, PA, MD, DE, VA			\$821,384	
2013	PA CIG	Capital RC&D Council	Employing Short-Term Adaptive Management Strategies to Improve Pasture Soil Health on Prescribed Grazing Operations	Susan Richards srichards@capitalrcd.org	statewide	N/A		\$42,847	
2013	PA CIG	PSU	Mitigating and Measuring Manure Gas Risks Associated with Gypsum Bedding at Dairy Farms Using Appropriate Technologies and Disseminating Such Findings in User-Friendly Materials to the Agricultural	Dr. Eileen F. Wheeler efw2@psu.edu	central PA	N/A		\$70,000	
2013	PA CIG	Western PA Conservancy	Implementing innovative practices to reduce nutrient and sediment pollution in Allegheny River Headwaters	Kylie Maland kmaland@paconserv.org	McKean Co.	N/A		\$58,500	
2013	PA CIG	Rodale Institute	Plants Protecting Plants: Removing Weed Habitat and Improving Crop Health through Use of Permanent Weed-Competitive Plant Species and Maintenance of Beneficial Soil Organisms	Dr. Elaine Ingham elaine.ingham@rodaleinstitute.org	southeast PA	N/A		\$74,268	
2013	PA CIG	PennAg	Farm Adoption in Pennsylvania of Nutrient Stewardship Practices	Jennifer Reed-Harry jrharry@pennag.com	statewide	N/A		\$75,000	
2014	National-PA	PSU	Vegetative and Riparian Buffers for Environmental Stewardship and Renewable Fuels on Poultry Farms	Paul Patterson	select counties in PA		Noel Soto	\$290,650	
2014	PA CIG	Gettysburg College	Demonstrating season extension technology and training socially disadvantaged farmers in Adams Co., PA	Kim Davidson	Adams Co.	N/A	Noel Soto	\$ 21,865	
2014	PA CIG	PSU	Integration of grazing and no-tillage systems to improve soil health and farm productivity	Sjoerd Duiker	select counties in PA	N/A	Susan Parry	75,000	

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2014	PA CIG	PDA	Integrated pest management training for high tunnel vegetable production systems on Mennonite farms and other small farms of south central PA	Cathy Thomas	Lancaster & York	N/A	Noel Soto	50,000	
2014	PA CIG	Philadelphia Bee Co.	Philadelphia land reclamation initiative for strategic and innovative water conservation and pollinator forage restoration	Donald Shump	Philadelphia Co.	N/A	Noel Soto	10,000	
2014	PA CIG	Rodale Institute	Vertical gardening: demonstrating and evaluating the use of growing columns and walls in urban agriculture	Eric Carr	Reading, PHL & Lehigh	N/A	Noel Soto	72,215	
2014	PA CIG	Always Helpful, LLC	Best management practices and education for small farms to include pasture, manure, water and land management	Judith M. Shoemaker	Lancaster & Perry	N/A	Mark Goodson	75,000	
2015	PA CIG	Stroud Water Research Center	Improving stream water quality and reducing runoff by improving soil health through multi-species permanent cover cropping	Bernard Sweeney	Chester Co.	N/A	Mark Goodson	75,000	
2015	National-PA	PSU	Improving Forest Regeneration and Engaging Pennsylvania's Beginning Forest Landowners Through Peer-led Demonstration	Leslie Horner	statewide	N/A	Peter Hoagland	143,648	
2015	Nat-Multistate	CBF	Promoting Rotational Grazing in the Chesapeake Bay Watershed and Quantifying the Economic and Environmental Benefits	Beth McGee	VA, MD, PA			491,070	
2015	Nat-Multistate	Island Press-Center for Resource Economics	Accelerating the Contribution of Impact Investing to Increase Working Lands Conservation Benefits	Leigh Whelpton	Nationwide			487,000	
2015	Nat-Multistate	The Iowa League of Cities	Developing the Market Framework for Agricultural Water Quality Credit Trading in Iowa and the Groundwork for Market Expansion to the	Dustin Miller	IA, maybe MRB states			700,000	
2015	Nat-Multistate	NACD	Enlisting Conservation Districts to Accelerate Participation in Environmental Markets	Jeremy Peters	Great Lakes/Northeast			116,725	
2015	Nat-Multistate	Whatcom Conservation District	Demonstration and Implementation of a Nutrient Management Risk Advisory System for Protection of Water Quality in Runoff Prone Climates	Nichole Embertson	Cbay, Glakes & others			154,901	