Watershed Agricultural Program 2014 Annual Report and 2015 Workload for the New York City Catskill/Delaware and Croton Watersheds

March 2015



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Cover Photos: WAP Staff Report Photos: WAP Staff

PRIMARY FUNDING SOURCES







Working Together to Improve Water Quality and Economic Viability

The Watershed Agricultural Program (WAP) had a very busy year of implementation of Best Management Practices (BMPs) to solve water quality issues on participant farms. There was a wide range of BMPs from calf housing to covered barnyards to manure storages to stream bank stabilization. These practices not only solve the water quality issue on the farm but add to the economic viability of the operation. In 2015, the WAP will be adding the Precision Feed Management program which is a science based program that develops feed management plans to deal with the large quantity of feed nutrients managed annually on participant farms.

Conservation Footprint is "The actions an organization conducts which result in a positive impact on the environment." Conservation Footprint is a new phrase that you will be hearing a lot more about as we move forward in 2015. A majority of farmers do not own all of the land that is needed for their production needs, so it is critical that WAP can identify the land either leased or loaned to the farmers that are managed under their Whole Farm Plans (WFPs). The Conservation Footprint encompasses all of these properties, 98,693 acres that are needed for agricultural production both owned and leased. To find out more about the Conservation Footprint view the 2014 Watershed Agricultural Council Annual report at http://www.nycwatershed.org.

In 2014, the WAP implemented 266 BMPs on 106 farms totaling over \$3.9 million. There were 333 Annual Status Reviews conducted and 5 new Whole Farm Plans and 94.2% of the Management BMPs completed. The Program partners with local county Soil and Water Conservation Districts (SWCD) and the USDA Natural Resources Conservation Service (NRCS) provided technical design and implementation of water quality BMPs. Farm participants actively followed 287 WFPs and 260 Nutrient Management Plans (NMPs) in the Catskill/Delaware Watersheds and 75 WFPs and 44 NMPs in the Croton Watershed. A percentage of the Nutrient Management Plans are reviewed and updated annually. Funding provided by the New York City Department of Environmental Protection (DEP), the USDA and other sources helped the Program realize its goals.

The 2010 Agriculture Water Enhancement Program (AWEP) grant with a 5-year agreement resulted in Nutrient Management contracts for 33 AWEP participants receiving \$285,555.

The second round of participants in 2011 has completed their 3 year contract in 2014 and if they meet the eligibility requirements they can participate in the expanded Nutrient Management Credit program.

Through the USDA Conservation Reserve Enhancement Program (CREP), 68.45 acres in riparian forest buffers were enrolled in 2014. CREP helps fence animals out of the surface water supply and provides for more filter areas to improve water quality.

The WAP continues to partner with Cornell Cooperative Extension (CCE) to provide educational programs to area farmers. In 2014, 820 farmers and farm advisors attended 40 educational programs.

Larry Hulle, Watershed Agricultural Council
Rick Weidenbach, Delaware County Soil & Water Conservation District
Dale Dewing, Cornell Cooperative Extension
Jan Surface, USDA Natural Resources Conservation Service

Watershed Agricultural Program

2014 Planning Goals and Accomplishments

Catskill/Dela	ware Large Farms	Croton Watershed			
Goal	Accomplishment	Goal	Accomplishment	Goal	Accomplishment
		Annual	Status Reviews		
168	169	90	95	67	69
New Whole Farm Plans					
as identified	2	3	2	2	1

2014 Implementation Accomplishments – Funding

BMP - Funding Sources	kill/Delaware .arge Farms	Ca	atskill/Delaware Small Farms	Cre	oton Watershed	Total
Watershed Agricultural Program						
- Non-CREP BMPs	\$ 1,016,015	\$	369,905	\$	429,833	\$ 1,815,753
- CREP (WAP)	\$ 118,024	\$	27,487	\$	<u>-</u>	\$ 145,511
Total Watershed Agricultural Program Funding	\$ 1,134,039	\$	397,392	\$	429,833	\$ 1,961,264
Other Funding Sources						
- CRP (FSA)	\$ 14,666	\$	7,250	\$	-	\$ 21,916
- CREP (FSA)	\$ 90,173	\$	25,513	\$	-	\$ 115,686
- DCSWCD	\$ 18,727	\$	-	\$	-	\$ 18,727
- EQIP						\$ -
- Landowner				\$	6,814	\$ 6,814
- AWEP						\$ -
- NRCS	\$ 	\$	_	\$	_	\$ -
Total Other Funding Sources	\$ 123,566	\$	32,763	\$	6,814	\$ 163,143
Total Funding	\$ 1,257,605	\$	430,155	\$	436,647	\$ 2,124,407
* In Progress Payments	\$ 1,355,983	\$	151,520	\$	288,288	\$ 1,795,791

2014 Implementation Accomplishments – Number of BMPs

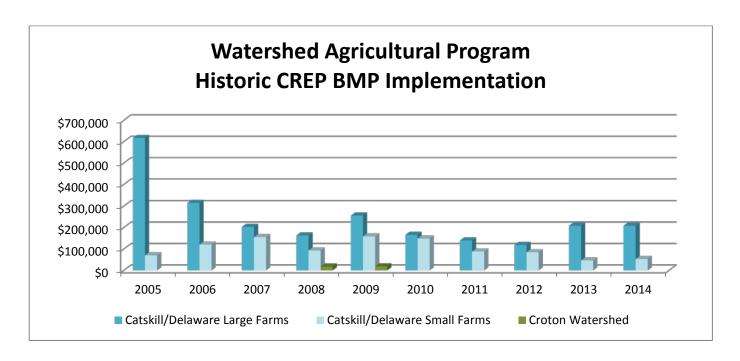
NRCS/WAC	Best Management Practices	Catskill/Delaware	Catskill/Delaware	Croton	Total
BMP Code		Large Farms	Small Farms	Watershed	
309	Agrichemical Handling Facility			1	1
313	Waste Storage Facility *	9	1	1	11
317	Manure Composting Facility *			3	3
340	Cover Crop	2		4	6
360	Closure of Waste Impoundment	3			3
362	Diversion *	5	1		6
378	Pond		1		1
382	Fencing	19	8	6	33
390	Riparian Herbaceous Cover				0
391	Riparian Forest Buffer	4			4
393	Filter Strip *			2	2
460	Land Clearing		1		1
468	Lined Waterway		1		1
484	Mulching			1	1
512	Forage and Biomass Planting - Lime	3		1	4
516	Pipeline	5	8	1	14
528	Prescribed Grazing - Lime	1		1	2
528	Prescribed Grazing	5	3	1	9
558	Roof Runoff Management System *		1	3	4
560	Access Road Improvement *	2	4	2	8
561	Heavy Use Area Protection *	1	3	4	8
574	Spring Development *	10	9		19
575	Animal Trails and Walkway *	12	4		16
578	Stream Crossing	6		1	7
580	Streambank Protection *	3			3
587	Structure for Water Control	1			1
590	Nutrient Management Plan	15	7	6	28
606	Subsurface Drain	1	1	1	3
612	Tree & Shrub Planting	5	1		6
612	Tree & Shrub - Natural Regeneration	3			3
614	Watering Facility	13	2		15
620	Underground Outlet		3		3
634	Waste Transfer System	2	2	2	6
635	Vegetated Treatment Area	-	_	3	3
642	Well	1	1	1	3
657	Wetland Restoration - Potholes	1	1	_	2
3010	Roofed Barnyard	4	2		6
3050	Waste Storage Facility		2		2
3110	Calf Greenhouse *	3			3
3110	Calf Housing - Pens	1			<u>3</u> 1
3130	Ventilation & Lighting	1			1
3178	Manure Transportation Credit	1			1
3410	Manure Spreader	2	1		3
3430	Manure Truck	1	1		<u>3</u> 1
3705	Livestock Trailer	1			1
3710	Water Wagon	1			1
3840	Rotational Feeding Area	1			1
4100	Wash Water Infiltration	1		1	1
5001	Utility Pole Relocation	3		1	3
5001	<u> </u>				
	Fencing - High visibility	1 152	60	AC.	266
Total	* Contains a modification, emergency repair, re	152	68	46	266

USDA Conservation Reserve Enhancement Program (CREP) 2014 Accomplishments

The USDA CREP Program within the NYC Watershed Agricultural Program utilizes the talents found within the multi-agency team assigned to work in the Watershed to promote, design and establish both Riparian Forest Buffers and Vegetative Buffers along watercourses. This year marked the 16th full year of the New York City Watershed Conservation Reserve Enhancement Program (CREP) Memorandum of Agreement between New York City, New York State and the United States Department of Agriculture (USDA). In 2014, 12 Riparian Forest Buffer contracts (8 new and 4 renewals) enrolled an additional 68.45 acres, increasing the total number of enrolled acres to 2,127.55.

2014 Total Implementation Expenditures

Total Rental Payments (USDA)	\$207,191
Sign-Up Incentive Payment (SIP-FSA)	\$ 3,239
Practice Incentive Payment (PIP-FSA)	\$ 54,653
BMP Cost (FSA)	\$ 74,122
BMP Cost (WAP)	\$145,511



Program	99-2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Catskill/Delaware Large Farms	\$3,244,634	\$616,929	\$315,034	\$202,979	\$162,811	\$255,789	\$165,823	\$139,466	\$118,538	\$202,339	\$208,197	\$5,632,539
Catskill/Delaware Small Farms	\$ 453,813	\$ 70,182	\$120,534	\$155,360	\$ 92,777	\$158,378	\$148,507	\$ 87,957	\$ 84,673	\$ 46,613	\$ 53,000	\$1,471,794
Croton Watershed					\$ 17,968	\$ 18,547	\$0	\$0	\$0	\$0	\$0	\$ 36,515

Nutrient Management Program 2014 Accomplishments

The Nutrient Management Team (NMT) is a multi-agency team that assists farmers in improving phosphorus and pathogen management. Nutrient Management Plans (NMPs) are designed to manage the amount, source, placement, form and timing of the application of nutrients from fertilizer, manure, and other organic sources. All plans are compliant with the NRCS 590 Standard and use the NY Phosphorus Index and Cornell University guidelines to ensure that environmental soundness and crop productivity. The NMT supports the farmer in implementing a Nutrient Management Plan (NMP), which will result in protection of water quality and producing optimum yields.

In planning year 2014, the Nutrient Management Team completed 61 nutrient management plans (41 large farms and 20 small farms). Significant effort was expended in 2014 developing plans to implement Precision Feed Management through the WAP in 2015, as well as implementing the 2014 farmer education plan. The breakdown of each category and percent current as of 12/31/2014 follows below.

Table 1. Large Farm NMP status as of 12/31/2014

Status	Number of Farms	% of Farms with NMPs
Current NMPs	173	97.7%
Plans 1 years out of date	1	0.6%
Plans 2 years out of date	0	0%
Plans 3 years out of date	0	0%
Plans >3 years out of date	0	0%
Needs NMP	3	1.7%
Total	177	

Table 2. Small Farm NMP status as of 1/1/2015

Status	Number of Farms	% of Farms with NMPs
Current NMPs	79	95.2%
Plans 1 years out of date	0	0%
Plans 2 years out of date	0	0%
Plans 3 years out of date	0	0%
Plans >3 years out of date	1	1.2%
Needs NMP	3	3.6%
Total	83	

Nutrient Management Credit (NM Credit)

The NM Credit Program encourages good stewardship of manure resources to improve water quality and provides the WAP a means to enhance implementation of NMPs. In 2014, the NM Credit Program was offered to 94 farms, with 93 submitting records. A total of \$401,378.76 was allocated in credit that farms can utilize to reimburse nutrient management related expenses. The WAP also reviewed and approved manure spreading records for 22 farms participating in the NRCS AWEP program, which is similar to NM Credit, but extends beyond the Cannonsville Basin. These farms earned a total of \$50,511.02 in federal funds for successfully implementing their nutrient management plans in 2014.

Farmer Education Program

The Farmer Education Program supports the water quality protection and farm viability mission of the Watershed Agricultural Council by providing educational programs that enhance farmers' abilities to manage their operations more profitably and in a way that nurtures their natural resources. In total, 40 educational programs were offered during 2014 with over 700 attendees.

In 2014, our farmer education efforts focused on the hands-on training and practical tools for profitable production. We held both classroom workshops and on farm tours for various audiences, addressing new technology, new crops, new markets, for both new and established farmers.

Attendee Demographics:		
Watershed Farmers	319	
Other Farmers	298	
Farm Advisors	166	
Students	29	
Other	8	



Attendance	Farmer Education Events 2014				
140	Catskill Regional Agriculture Conference				
56	Calf Health & Nutrition Conference				
10	Dairy Discussion Group				
13	Sheep & Goat Group: Production in Jordan				
23	Sweet Corn School				
28	Winter Crop School				
2	Soybean Workshop				
23	BMP Prioritization Feedback Meeting I				
21	Sheep & Goat Group				
8	Organic Dairy Discussion Group				
16	Beef Producers Group				
10	Beef Producers Group Event: Marketing				
10	Grass Fed Beef				
62	Soil Health Field Day				
11	Beef Producers Group Event: Glenanore				
	Beef				
24	A Day on Internal Parasites				
16	Sheep & Goat Group - AMZ Farm Tour				
10	Beef Producers Group Event: Greenane				
	Beef				
16	Sheep & Goat Group - Glenanore Farm				
	Tour				
8	Parasites and Parasite Loads in Delaware				
	County Farms Soil Health & Early Crop Evaluation Tag				
22	Meeting				
40	Beef and Sheep & Goat Producers Group				
43	Event: SMI Farm Tour				
7	2014 Grazing Tour				
6	Organic Dairy Discussion Group				
9	Sheep & Goat Group: Meadowood Dairy				
45	Sheep & Goat Group: Adventures in				
15	Scotland				
7	Organic Dairy Discussion Group				
7	Corn Dry Down Days I				
14	MPP-Dairy Webinar I				
12	MPP-Dairy Webinar II				
11	Corn Dry Down Days II				
11	BMP Prioritization Feedback Meeting II				
6	BMP Prioritization Feedback Meeting III				
34	Swine Health Management				
16	Sheep & Goat Group: Evans & Evans Farm				
25	Raising Pigs				
20	Farm Business Succession				
6	Sheep & Goat Group: Coach Farm				
19	Beef Production School				
23	Getting the Most from Dairy Records				
10	Beef Producers Group: Catskill Cattle Co.				
820	Total				

New Look, Same Feel

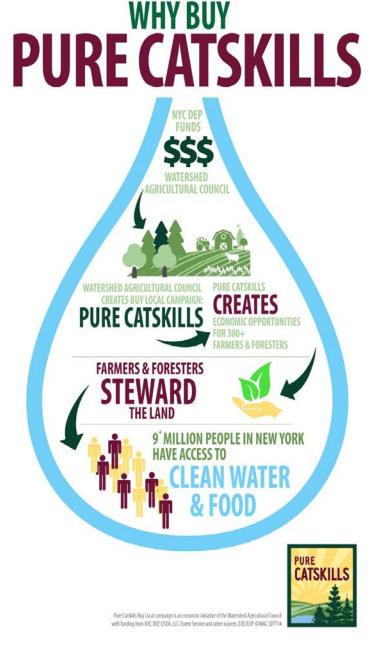
This year, the Economic Viability Program rebranded the Pure Catskills initiative, and launched a new logo to continue efforts of improving the economic viability of working landscapes in the

Catskills and preserve water quality in the NYC watershed region.

Pure Catskills creates marketing opportunities and provides resources for hundreds of farm, forest and local businesses throughout Delaware, Greene, Otsego, Schoharie, Sullivan and Ulster Counties, inside and outside of the watershed boundaries.

When the Pure Catskills initiative began in 2004, it started with a small group of farmers in the Catskills region. Now, it represents 300 diverse farm and forest-based businesses, restaurants, local artisans, other non-profit organizations and accommodations. The Pure Catskills brand is evolving to properly represent the diversity of its membership base, capitalize on current market trends and create economic opportunities for members.

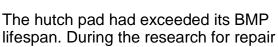
As we look to the future, the development of the regional food system, ongoing concerns about the environment and consumer demand for high-quality, natural products made in the Catskills, the Watershed Agricultural Council recognizes the distinct opportunity for Pure Catskills to set itself apart by becoming a premium and trusted brand for food and forest products.

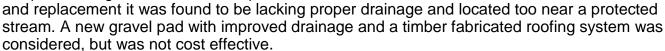


The new logo is one way we celebrate and look forward to a bright and diverse future for the Catskills, and keeping this region pristine.

Town of Walton, Delaware County Calf Housing

The Eternal Flame Farm is owned and operated by C. Leonard III and Angela Pieper and family who are milking approximately 140 dairy cows. They raise their own heifers and calves with a strong blood line which they and their children show during the summer months. 308 acres of cropland, pasture, and forest are owned and they rent an additional 517 acres. They have an approximate annual influx of 40 +/-heifer calves which they raised from 0-3 months in outside Poly hutches on a raised gravel pad.









The Piepers' have an existing tie stall dairy barn which is in good condition but required renovation and modification to support proper calf rearing and health. An interior calf pen system was requested from CANARM Hoop Style Comfy Calf Suites out of Canada; which fit on the existing six (6) foot wide re-surfaced concrete cow stall. Thirty-six (36) manufactured 5' x 6' galvanized steel with plastic poly panel sided calf pens were delivered and install in four (4) groups of nine (9) with all the required accessories to ensure positive calf rearing. In conjunction with Cornell University's PRO-DAIRY team, a positive ventilation

system was developed incorporating the existing Vent-O-Matic system and adding two (2) banks of eight (8) new fans, a temperature and static pressure control and an automatic baffle machine. The sixteen (16) new fans are mounted in the barn wall and are programmed to come on and run at pre-selected temperature gradients supplying continuous fresh air to the housed young stock.

Lenny and Angie are very pleased with the finished product and believe the calves they are currently weaning at three months of age could be up to 40#'s heavier and better finished then the ones raised previously in the Poly hutches. The entire project is a prime example of how existing infrastructure can be retrofitted in a timely manner and be cost effective.

Town of Tompkins, Delaware County Manure Storage/Roofed Barnyard

The Allen's 78 acre farm consists of 10 beef animals, 8 sows and a boar. There are two litters produced each year resulting in about 20 piglets each time. The manure from all the animals was piled on a flat pasture within 100' of Trout Creek which flows another five miles to the Cannonsville Reservoir.

To prevent the potential for manure to be washed away during high water events or leaching into the ground water, a roofed concrete manure storage was built to contain approximately seven months of manure. The structure is ramped down to the holding area so relatively dry and stackable manure can be moved in and out by use of a skid steer.

For the piglets, a renovated shed was not adequately sized to meet the



growing numbers and the site is just above a road ditch that would carry runoff to the nearby stream. A 35' x 40' roofed concrete barnyard was built that provides a small buckwall area for manure scraped out of the two exercise areas to be easily picked up and transported to the manure storage.





Town of Tompkins, Delaware County

Covered Feed Area

Bob Gardner is a farmer in the Town of Tompkins who raises pigs. He is also a member of the Small Farms division of the Watershed Agricultural Program. Gideon Frisbee is his Planner. Bob has beautiful looking animals that were being fed and housed on a concrete pad outside the barn. The pig manure was not being contained on the pad. When it rained or snowed, the manure would run off the pad into the nearby road ditch. That



road ditch discharged into Loomis Brook without filtration.

Gideon and Bob looked over the layout of Bob's property and came up with a plan to build a new pad, in a new location, for the animals and put a roof over it to limit the amount of clean water in contact with the manure produced. When the manure is cleaned out of the new roofed feed area, it needed to be stacked for a time in order for Bob to be able to follow his Nutrient Management Plan. A small Covered Manure Pad was also planned in conjunction with the Covered Feed Area.

These two covered buildings were designed by Paula O'Brien, who oversaw construction in the fall of 2014. The new Covered Feed Area was designed to line up with Bob's barn, and the Covered Storage is conveniently located only 15' from the feed area. Now all manure is contained and dealt with through Bob's Nutrient Management Plan. No more run off is going into the road ditch, and THAT makes us Happier than a pig in....well, you know.





Town of Meredith, Delaware County Wetland Enhancement

Sometimes potholes can be a good thing. Such is the case of the potholes installed on the John Janiszewski Farm in the Town of Meredith in Delaware County. When planning for wetland

enhancement through the Watershed Agricultural Program, Gideon Frisbee (SWCD Planner) noticed the presence of beaver in the area being reviewed for the CREP (Conservation Reserve Enhancement Program). Planting trees, when beavers are in the area, is difficult so John decided to try to build a few potholes instead. The potholes would serve as the wetland enhancement to the buffer area required for the CP-30 funding that was cost shared with FSA (Farm Service Agency).



Pothole construction is to enhance

wildlife habitat in shallow water and to encourage waterfowl, songbirds, and other types of wildlife to flourish. The shallow water holes are built in an irregular shape and vary in depth, typically 6-18", but never more than 4' deep. Side slopes are a gentle slope. The hole then fills with ground and/or surface water naturally.



The three potholes, approximately 5000 square feet each in area, have many water fowl already living in and around them states Paula O'Brien, SWCD Technician. Paula did construction oversight on the project and noticed the increase in song birds, almost immediately. Fencing, a spring development and three crossings were also installed to complete Mr. Janiszewski's Buffer Enhancement System. This time, potholes are a good thing!

Town of Kortright, Delaware County Covered Barnyard

The Reinshagen's 65 acre farm is located in the Village of Hobart and consists of approximately 20 cow/calf beef animals, 20 horses, sheep, goats, miniature donkeys and chickens.

The barn cannot hold all the animals so many milled about the barnyard all winter. This resulted in a large bedded pack of hay and manure, much of which was in the flow path of steep hillside runoff.



A 40' x 56' covered barnyard was designed and constructed this fall to correct this environmental concern. A water trough was provided to the side of the roofed area and Charlie will feed round bales inside to encourage the animals to spend the majority of their time under cover. A drainage swale protects the area from water flowing through the heavily manure laden pack.





Town of Halcott Center, Delaware County Streambank Stabilization

Stream banks were stabilized to facilitate a new Conservation Reserve Enhancement Program Riparian Buffer contract for Tim & Christl Johnson.

In order to do so, proper stream channel dimensions needed to be re-established. Channel width, bank full height and stream bank side slopes were determined by historical imaging as well as stream calculations.

The stream banks were re-graded to establish stable slopes. Many



undercut trees were removed to avoid future stream problems. Live fascines, willow stakes and rock riprap were also used to stabilize the stream banks.

A hardened riffle was installed upstream of the stream bank stabilization for grade control. This hardened riffle serves to prevent excessive sediment from washing down stream and undercutting of the installed stream bank protection measures that would compromise stability.

Upon completion of this project, a determination on the stability of the stream bank will be made and Tim & Christl Johnson will be eligible for CREP.

Implementation of CREP BMPs including livestock exclusion fence, limited access water supply and tree plantings will follow.



Town of Andes, Delaware County

Streambank Stabilization

The Andes Mountain Farm, run by Joe and Nancy Eisele, is situated on State Road in the Pepacton Reservoir drainage of Delaware County, NY. The State Road Hollow stream, which has flooded numerous times in the last decade runs through and adjacent to the farm property. The flowing water on an inside curve in the stream had begun to erode the streambank and was beginning to threaten the stability of the laneway around a cattle barn, as well as the cattle barn itself, creating a situation that was dangerous for the farmer as well as his livestock.



Technicians visited the site to perform a topographical survey of the affected area and then designed a solution to the problem, utilizing large rip rap rocks to build stack rock and slope rock structures, keyed into the streambank to stabilize the eroding bank.





Farming East of the Hudson

PLANNING & IMPLEMENTATION:

The East of Hudson (EOH) Agricultural Program had a full year of conservation activity, formed new partnerships and supported a variety of watershed education efforts. In 2014, forty-seven conservation practices were implemented in the Croton Watershed totaling \$806,584.27. Twenty-one farms had Best Management Practices installed including **Haviland Hollow Farm**

in Patterson, NY, which saw the completion of several projects to aid in the management of pastures and manure storage areas. Haviland Hollow Farm is a 250-acre horse boarding, training and polo facility located within New York City's East Branch Reservoir basin in the Croton Watershed. The property also sits next to the Great Swamp, which is a 19.8 mile long wetland of state significance encompassing 6,000 acres in Dutchess and Putnam Counties.

The farm has up to 120 horses at a given time so preventing overgrazing and soil erosion is a high priority. New pastures and a solar powered watering system were developed on higher ground away from wetland areas.

The new grazing system required four stream crossings so that horses can safely cross watercourses to graze in other areas of the new pasture. Additionally, two covered manure storage areas were built to house dumpsters where the manure is stored. The dumpsters are regularly carted off site by a waste management company. All projects were designed by the EOH engineering team, Andy Cheung, P.E. and Jamie Taylor.







PROJECT PARTNERSHIPS:

In 2014 the EOH Agricultural Program worked closely with the Westchester County Soil and Water Conservation District and Westchester County Parks to implement a half-acre **Forest Regeneration Demonstration Project** at Hilltop Hanover Farm in Yorktown Heights. The deer



enclosure project was funded by the County through the New York State Soil and Water Conservation Committee's Conservation Project Financial Assistance program. WAC Forester, Brendan Murphy provided the technical guidance on the site preparation and fence installation. The WAC Forestry Program also covered a portion of the deer fence costs through the Management Assistance Program (MAP).

This project will serve to educate thousands of visitors to the farm each year that come for guided tours and school and scout trips to learn about environmental sustainability on a working Westchester County farm in the New York City Watershed.

This November, the Lower Hudson-Long Island Resource Conservation & Development Council organized the Hudson Valley Agricultural Partnership's **Summit on Farmland Protection and Farm Viability** at Hilltop Hanover Farm. EOH Agricultural Program Coordinator, Carrie Davis was on the conference planning committee who assisted with the coordination of the event. The day was packed full of great speakers including opening remarks by New York State Department of Agriculture and Markets Commissioner, Richard Ball. The 50 conference attendees then participated in a series of roundtable discussions on recent successes and future challenges for Hudson Valley agriculture. Great ideas were shared and concerns identified, which will help influence future initiatives to support farm viability and farmland conservation in the Hudson Valley.





AGRICULTURAL EDUCATION:

This year, the EOH Agricultural Program staff participated in several education initiatives including the annual visit and tour of Snow Hill Farm by New York City elementary school



students. At the farm, the students learn about day to day operations, livestock, equipment, farming practices and composting. Each year, WAC Conservation Planner, Susanne Sahler uses a model watershed to demonstrate the fate of storm water runoff to the students and the importance of watershed protection on a farm in the New York City Watershed.

Also this year, EOH Agricultural Program Coordinator, Carrie Davis was a guest speaker at the Westchester

County Agriculture and Farmland Protection Board's Annual Education Forum – "Resources for Farming in Westchester County". Carrie shared a history of WAC's programs and explained the types of technical and financial assistance available to farmers in the New York City Watershed.

2015 Planning Goals

Catskill/Delaware Large Farms	Catskill/Delaware Small Farms	Croton Watershed
Goal	Goal	Goal

	Annual Status Reviews	
245	104	67

New Whole Farm Plans						
as identified	4	2				

2015 Projected Design & Implementation Workload

BMP - Funding Sources	Catskill/Delaware Large Farms		Catskill/Delaware Small Farms		Croton Watershed		Total	
Vatershed Agricultural Program								
- Non-CREP BMPs	\$	3,763,015	\$	1,785,759	\$	335,375	\$	5,884,149
- Non-CREP BMPs - repairs	\$	1,481,782	\$	109,750	\$	24,236	\$	1,615,768
- CREP (WAP)	\$	181,993	\$	117,395	\$	-	\$	299,388
- CREP (WAP) - Repairs	\$	4,000	\$	10,000	\$	-	\$	14,000
Total Watershed Agricultural Program Funding	\$	5,430,790	\$	2,022,904	\$	359,611	\$	7,813,30
Other Funding Sources								
- CREP (FSA)	\$	166,156	\$	102,894	\$	-	\$	269,05
- CREP (FSA) - Repairs	\$	4,000						
- AWEP	\$	-			\$	-	\$	
- DCSWCD	\$	208,255			\$	-	\$	208,25
- EQIP	\$	-	\$	-	\$	-	\$	
- Landowner	\$	-	\$	-	\$	-	\$	
- Other	\$	-	\$	-	\$	125,647	\$	125,64
Total Other Funding Sources	\$	378,411	\$	102,894	\$	125,647	\$	602,95
Total Projected Workload*	\$	5,809,201	\$	2,125,798	\$	485,258	\$	8,420,25

^{*} The Total Projected Workload represents BMPs in various stages of implementation. Not every BMP will be implemented (certified and paid) in 2015. For the calendar year 2015, the Catskill/Delaware Watershed Agricultural Program projects total BMP implementation in the amount of \$2,500,000. The Croton Watershed Program projects BMP implementation in the amount of \$400,000.

2015 Projected Design & Implementation Workload – Number of BMPs

NRCS/WAC BMP Code	Best Management Practices	Catskill/Delaware Large Farms	Catskill/Delaware Small Farms	Croton Watershed	Total
313	Waste Storage Facility *	4	3	2	9
314	Brush Management		1		1
317	Composting Facility	1	-	3	4
332	Contour Buffer Strip	1		1	1
340	Cover Crop			1	1
342	Critical Area Planting	1		<u> </u>	1
360	Closure of Waste Impoundment	1	1		1
362	Diversion*	6	4		10
367	Roof - Existing HUAP*	2	4		2
378	Pond *	1			1
382	Fencing *	61	31	7	99
390	Riparian Herbaceous Cover	01	31	1	1
	•	15	<u></u>	1	
391	Riparian Forest Buffer	15 2	6		21
412	Grassed Waterway		1		2
460	Land Clearing	1	1		2
468	Lined Waterway*		3	1	4
472	Access Control	_	1	1	2
490	Natural Regeneration	5	3		8
500	Obstruction Removal*	8			8
512	Pasture & Hayland Planting	2		3	5
516/614	Pipeline and Trough	19	17	2	38
528	Prescribed Grazing	4	1	1	6
533	Pumping Plant	3	1		4
558	Roof Runoff Management System *	3	4	4	11
560	Access Road Improvement*	14	2	1	17
561	Heavy Use Area Protection *	10	3	14	27
574	Spring Development *	23	9		32
575	Animal Trails and Walkway *	22	12		34
578	Stream Crossing*	12	8		20
580	Streambank Stabilization	3	1		4
587	Structure for Water Control	2	2		4
590	Nutrient Management Plan			6	6
606	Subsurface Drain			1	1
612	Tree & Shrub Planting	7	11		18
614	Watering Facility *	25	10	2	37
620	Underground Outlet *	1	5	4	10
634	Waste Transfer System *	9			9
635	Wastewater Treatment Strip	1		7	8
638	WASCOB	1	1	1	2
642	Well*	1	2		3
657		1	2		3
	Marginal Pastureland Wetland Buffer (CP30)			4	
3010	Roofed Barnyard *	9	6	1	16
3050	Covered Manure Storage/Barnyard*	1	4		5
3060	Covered Manure Storage and Heavy Use Area	1	1		2
3070	Manure Storage/Heavy Use Area Uncovered		1		1
3110	Solar Calf Housing * - Exterior	3	1		4
3130	Ventiliation and Lighting*		1		1
3230	Manure Transfer - Agitator Pump	2			2
3310	Above Ground Fuel Storage Facility			1	1
3410	Manure Spreader	6	3		9
3420	Front-End Loader	3	1		4
3425	Dump Trailer	2	1		3
3430	Manure Truck	2			2
3440-01	Tire Scraper	1			1
3450	Manure Agitation Pump*	2			2
3499	Misc. Manure Handling Equipment	1			1
3700	Misc, equipment - Bedding/Feed Chopper	1			1
3710	Water Wagon	3			3
4100	Washwater Infiltration System*			2	2
5001	Utility Pole	2	1		3
5004	Fencing - Semi-Permanent*	8	2		10
Total		316	167	67	550
	* Contains a modification, emergency repair, rep				

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