

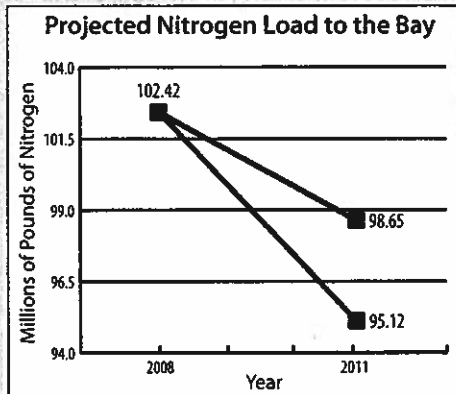


Pennsylvania

2011 Milestones to Reduce Nitrogen and Phosphorus



Nitrogen Reduction Milestone

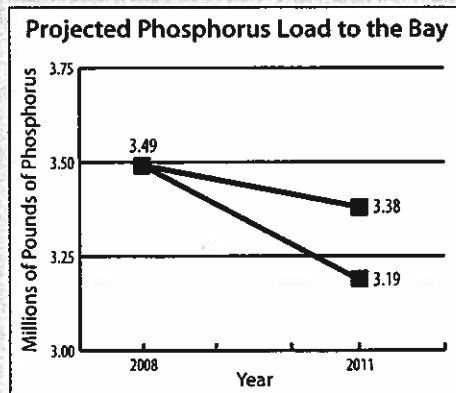


Pennsylvania's 2011 milestone commitment is to reduce nitrogen by 7.3 million pounds over the three year period (2009-2011).

	Projected*
Reduction at Previous Rate of Progress	3.78M
Pollution Load after Previous Rate of Progress	98.65M
Reduction at Milestone Rate of Progress	7.30M
Pollution Load after Milestone Rate of Progress	95.12M
Increase in Rate of Progress	93%

M = Millions of Pounds of Nitrogen

Phosphorus Reduction Milestone

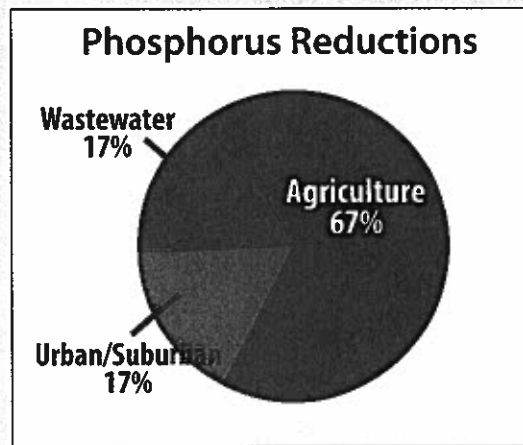
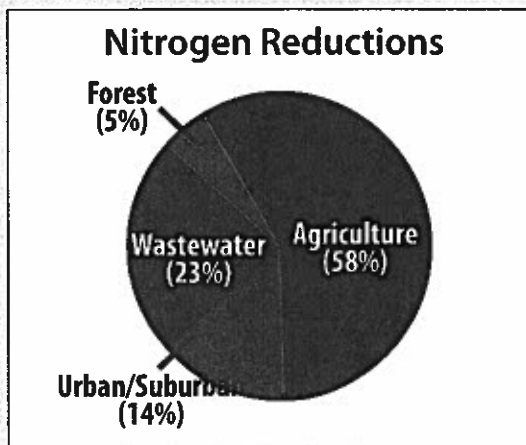


Pennsylvania's 2011 milestone commitment is to reduce phosphorus by 300,000 pounds over the three year period (2009-2011).

	Projected*
Reduction at Previous Rate of Progress	116,000 lbs.
Pollution Load after Previous Rate of Progress	3.38M
Reduction at Milestone Rate of Progress	300,000 lbs.
Pollution Load after Milestone Rate of Progress	3.19M
Increase in Rate of Progress	159%

M = Millions of Pounds of Phosphorus

Pollution Reductions by Source



* Nitrogen and phosphorus reductions are based on Phase 4.3 Watershed Model data for agricultural, urban/suburban and air reductions and monitored data for wastewater reductions.

Funding During Milestone Period

Pennsylvania Department of Environmental Protection (DEP)

Nutrient Management Delegation Agreements	\$1,749,000
Conservation District Fund Allocation Program	\$2,065,320
Chesapeake Bay Implementation Grant State Match Plus	\$3,410,000
PA Stormwater Planning and Management (Act 167)	\$2,200,000
Growing Greener Watershed Protection Grant Program	\$13,512,087

Pennsylvania State Conservation Commission (SCC)

Dirt and Gravel Road Maintenance Program	\$2,441,000
Nutrient Management Program	\$2,301,000
Conservation District Fund Allocation Program	\$1,091,600
NRCS Engineering Assistance for BMP installation	\$64,000
Commercial Manure Hauler and Broker Certification Program	\$89,400
Resource Enhancement and Protection Program (REAP)	\$8,450,000

Pennsylvania Infrastructure Investment Authority (PENNVEST)

Loans and grants for wastewater projects	\$30,078,120
--	--------------

TOTAL **\$67,451,527**

Pollution Reduction Actions by End of 2011

Abandoned Mine Reclamation	2,219 acres	Nutrient Management	473,801 acres
Animal Waste Management Systems	275 units	Off-Stream Watering with Fencing	6,143 acres
Carbon Sequestration/Alternative Crops	25,740 acres	Off-Stream Watering w/ Fencing & Rotational Grazing	21,249 acres
Conservation Plans/SCWQA	327,599 acres	Off-Stream Watering without Fencing	7,335 acres
Continuous No-Till	86,567 acres	Other Conservation Tillage	88,924 acres
Cover Crops (late planting)	174,818 acres	Poultry Litter Transport Out of Watershed	55,659 tons
Dirt and Gravel Road Erosion and Sediment Control	124,913 feet	Poultry Litter Transport Into Watershed	3,256 fewer tons
Enhanced Nutrient Management	450 acres	Poultry Phytase	19,626 pounds P
Erosion and Sediment Control	181 acres	Septic Connections	7,353
Forest Buffers (all land uses)	19,059 acres	Tree Planting	15,065 acres
Forest Harvesting Practices	125 acres	SWM Practices	8,690 acres
Grass Buffers	1,161 acres	Urban Stream Restoration	4,400 feet
Land Retirement	58,876 acres	Wetlands	1,548 acres
Mortality Composters	22 units	Heavy Truck Anti-Idling Rule	9.78M fewer hours
Non-Urban Stream Restoration	215,088 feet		

Additional Reduction Options

Erosion and Sediment Control Regulations

- Codification of post-construction stormwater requirements
- Mandatory riparian forest buffers for exceptional value waters
- Conservation Plan revision to include animal heavy use areas

Stormwater Management Planning Act expansion to provide for Integrated Water Resource Planning

Legacy Sediment BMP Development and Implementation

Phosphate Dishwasher Detergent Ban