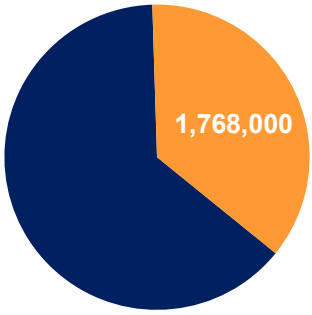
Centre County, Pennsylvania

Current Conditions

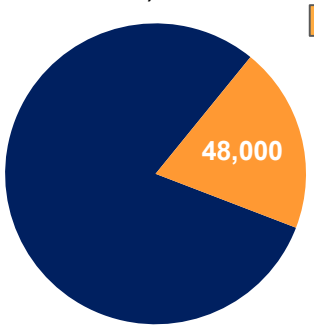
Centre County is one of the higher loading county in Pennsylvania's Chesapeake Bay Watershed. Current loading rates are 5.96 M lbs of nitrogen and 239K lbs of phosphorus annually. By 2025 Centre County needs to reduce 1.77M lbs of nitrogen and 48K lbs of phosphorus.

Nitrogen (N)
Current Load (lbs): 5,959,000

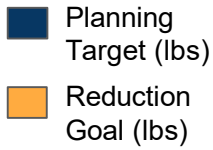


Planning Target (lbs): 4,191,000
Reduction Goal (lbs): 1,768,000

Phosphorus (P)
Current Load (lbs): 239,000

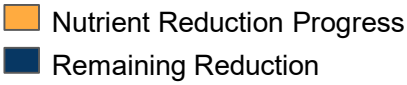


Planning Target (lbs): 191,000
Reduction Goal (lbs): 48,000

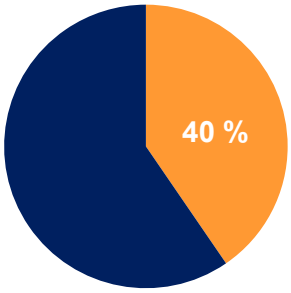


Pollutant Reduction Progress

By 2025, Centre County needs to reduce 1.77M lbs of nitrogen and 48K lbs of phosphorus. Centre County has developed a plan to reduce 715K lbs of nitrogen, which is 40% of the goal and 42K lbs of phosphorus, which is 88% of the goal. There is no planning target for sediment, but Centre County's plan reduced 72.10M lbs (14%) of the current load.

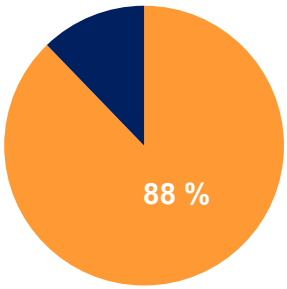


Nitrogen (N)
Reduction Goal (lbs): 1,768,000



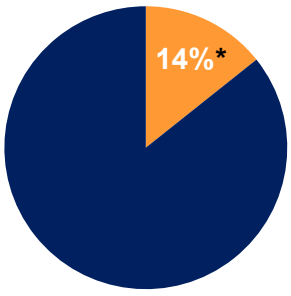
Reduction Progress: 715,000 lbs

Phosphorus (P)
Reduction Goal (lbs): 48,000



Reduction Progress: 42,000 lbs

Sediment (TSS)
Current Load (lbs): 504,238,000



Reduction: 72,100,000 lbs
***Percent of Current Load**

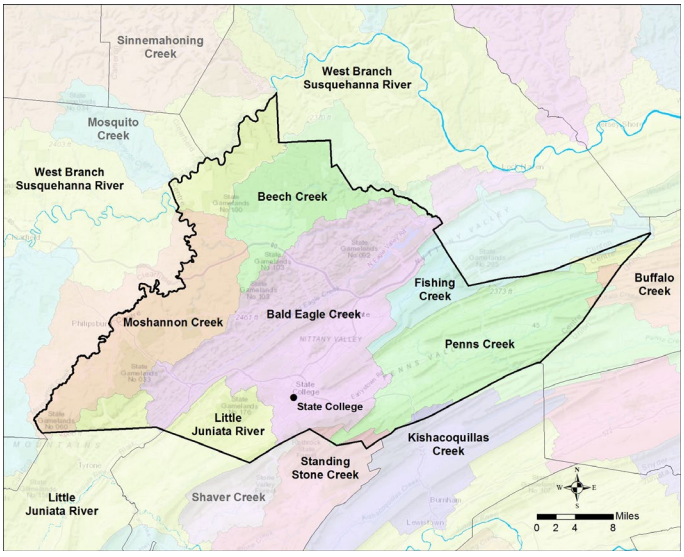
Sector Progress

Centre County has identified 2 sectors: agriculture and urban. Agriculture has identified practices that result in a reduction of 667K lbs of nitrogen. The developed sector has identified practices that reduce 26K lbs of nitrogen. Projected land use and population changes cause an additional reduction of 22K lbs of nitrogen by 2025. This results in a net reduction of 715K lbs of nitrogen.

Sector	Nitrogen (lbs.)	Phosphorus (lbs.)
Agriculture	-667,000	-45,000
Urban	-26,000	-2,000
Growth Projections	-22,000	+5,000
Total Reductions	-715,000	-42,000

***The summation of individual sectors will be different than the total reduction of all initiatives modeled together.**

Centre County Watershed Map



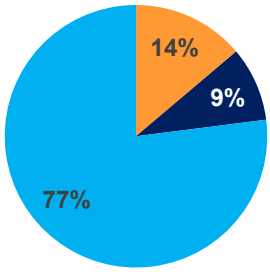
Information About the Watersheds

Centre County contains 7 major watersheds: Beech Creek, Moshannon Creek, Bald Eagle Creek, Fishing Creek, Little Juniata River, Penns Creek and the West Branch Susquehanna River. Watersheds in Centre County have elevated levels of nitrogen, phosphorus, and sediment. Of the 1,850 total stream miles in Centre County, approximately 16% have degraded aquatic communities due to causes such as disturbance, siltation (excessive sediment), metals, nutrient pollution and others.

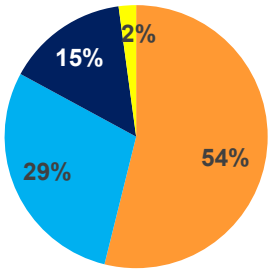
County Land Use:

Centre County has a total acreage of 712,306 acres. Agricultural land represents 14% of the total land with 98,469 total acres. Developed land represents another 9% of the total land in Centre County. Natural land, which is made up of forests, stream, and wetlands, represents the remaining 77% of the land in Centre County. Cropland makes up a majority of the Agriculture sector with 53,050 acres. The developed sector is mostly Non-Municipal Separate Storm Sewer Systems (MS4s) (81%) 52,812 acres and a smaller portion of MS4s (19%) 12,429 acres.

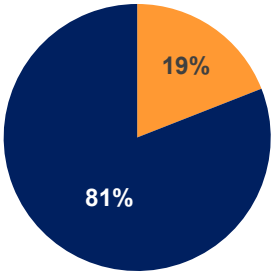
Centre County:
Total Acres: 712,306



Agriculture:
Total Acres: 98,469



Developed:
Total Acres: 65,241



Local Benefits:

Storm events are the number one way for nutrients and sediment to enter waterways. Increased runoff impacts: flooding, water quality, habitat, etc. Pollutants enter the waterways by two methods: overland runoff or leaching into groundwater.

Flooding affects safety, property, infrastructure, and economics.

Centre County relies on local water sources to supply drinking water to its residents.

Just like humans, Centre County's livestock depend on clean water.

Learn more and Get Involved

To get involved with the Watershed Implementation Plan (WIP) please visit:
https://bit.ly/2RE7Dzb

Clean water: Great for PA Good for the Bay