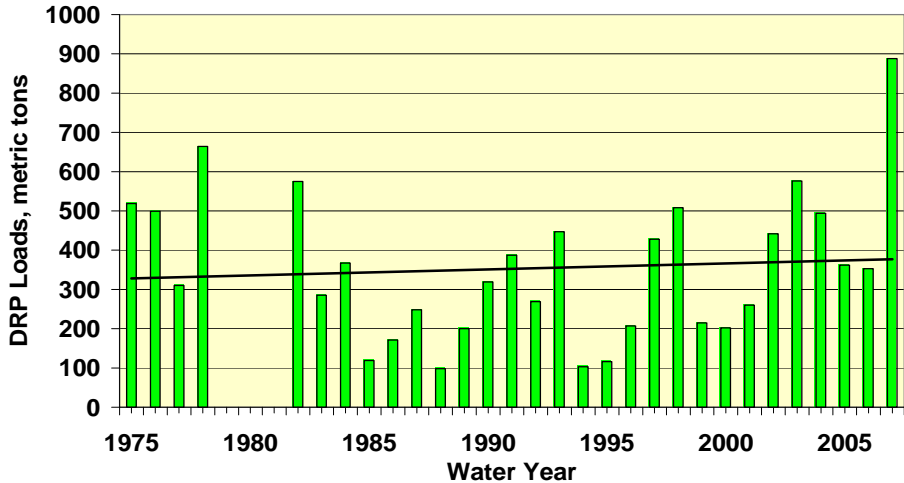
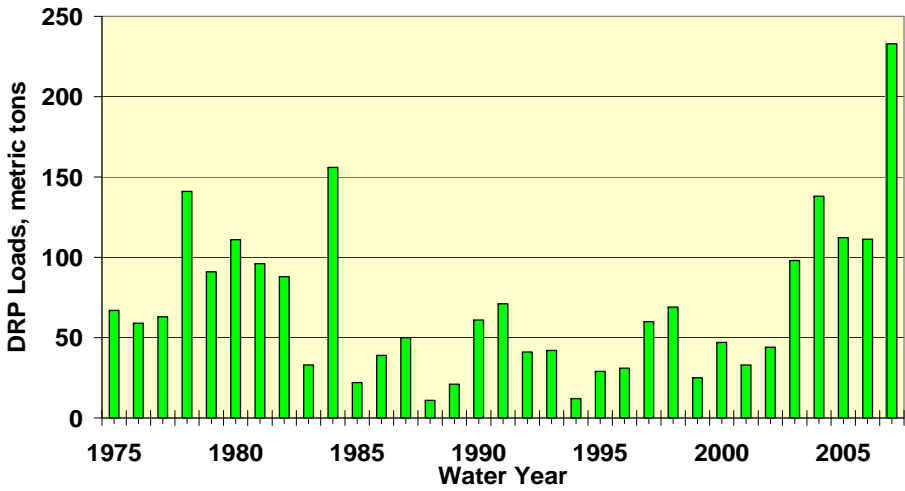


Trends in Annual Export of Dissolved Reactive Phosphorus From Northwestern Ohio Watersheds, 1975-2007

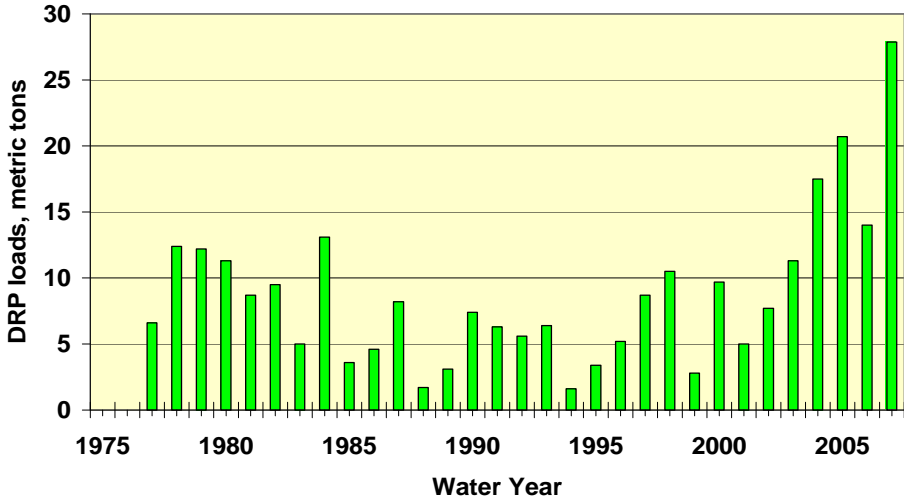
Maumee, Dissolved Reactive Phosphorus Loading



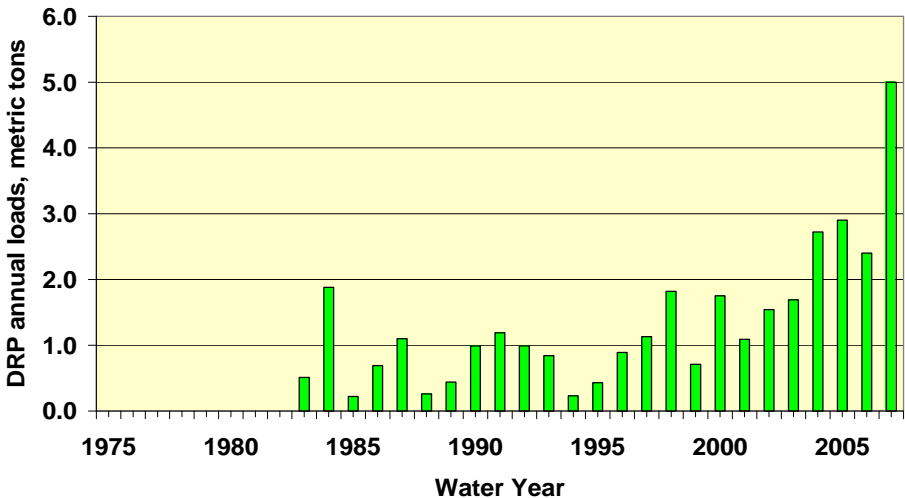
Sandusky River, Dissolved Reactive Phos. Loads



Honey Creek, Dissolved Reactive Phosphorus Loads



Rock Creek, Dissolved Reactive Phos. Loads

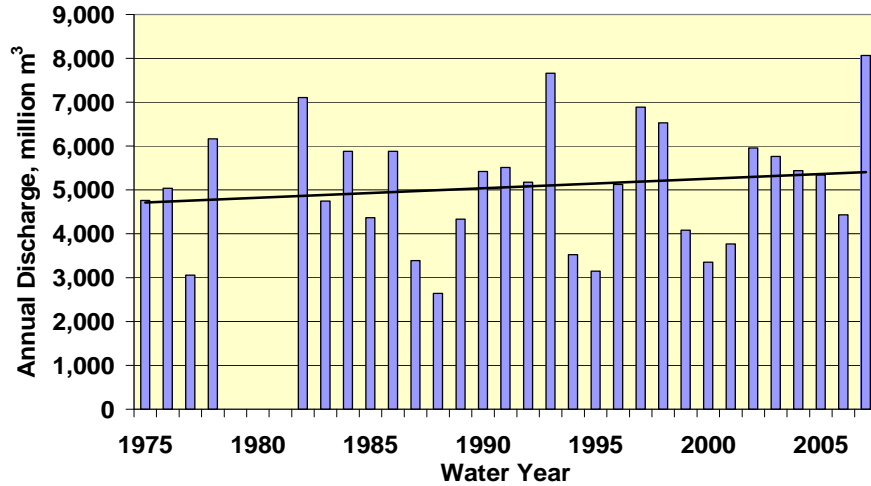


Data from the Heidelberg College National Center for Water Quality Research

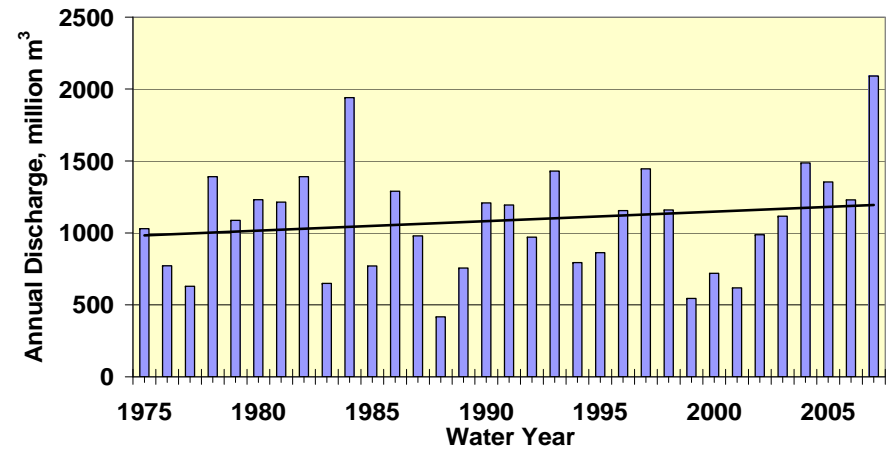
Trends in Annual Discharge (million cubic meters)

From Northwestern Ohio Agricultural Watersheds, 1975-2007

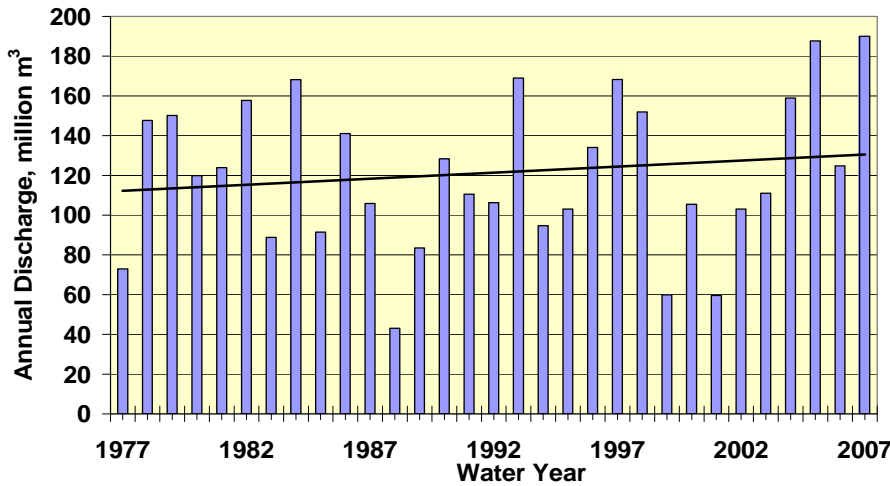
Maumee River, Annual Discharge



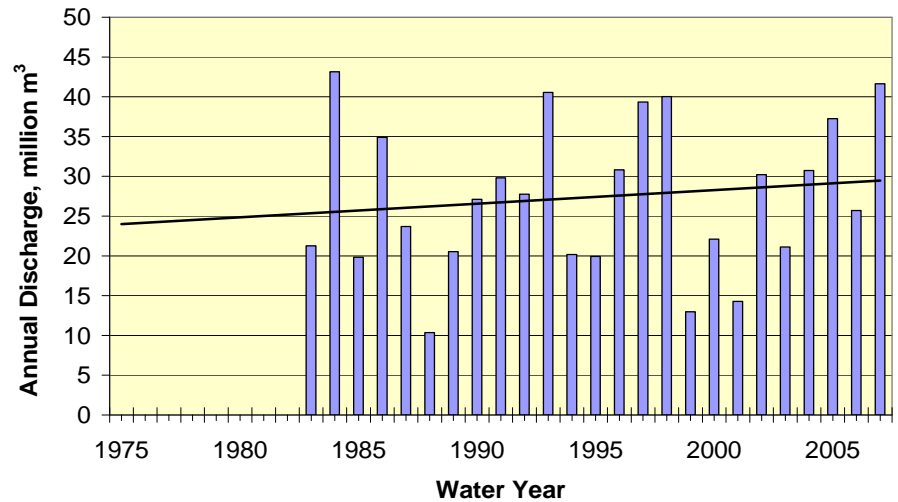
Sandusky River, Annual Discharge



Honey Creek, Annual Discharge



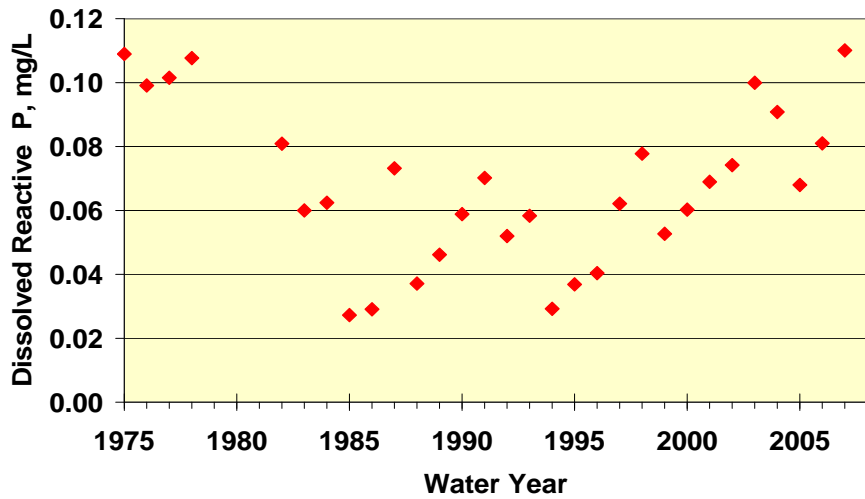
Rock Creek, Annual Discharge



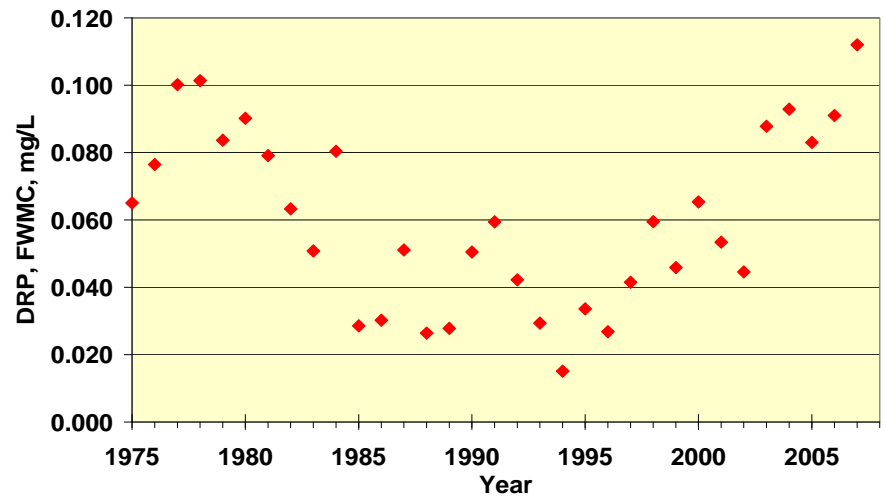
Data from the Heidelberg College National Center for Water Quality Research

Trends in Flow Weighted Mean Concentrations of Dissolved Reactive Phosphorus From Northwestern Ohio Watersheds, 1975-2007

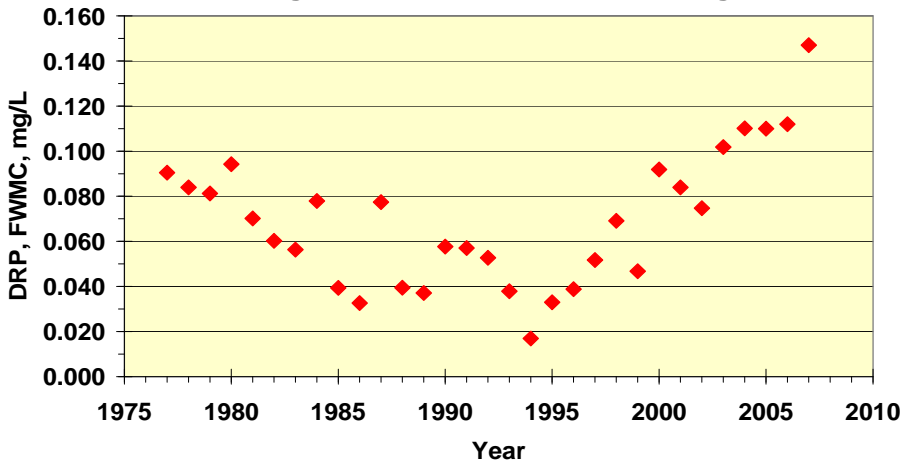
Maumee River, Flow Weighted DRP concentrations



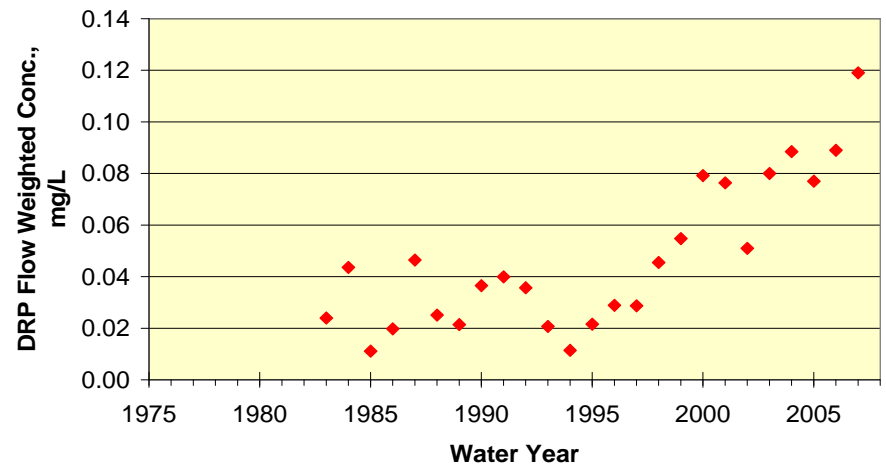
Sandusky River, Flow Weighted DRP concentrations



Honey Creek Dissolved Reactive Phosphorus Flow Weighted Mean Concentration, mg/L



Rock Creek, Dissolved Reactive Phosphorus, Flow Weighted Mean Concentrations, mg/L

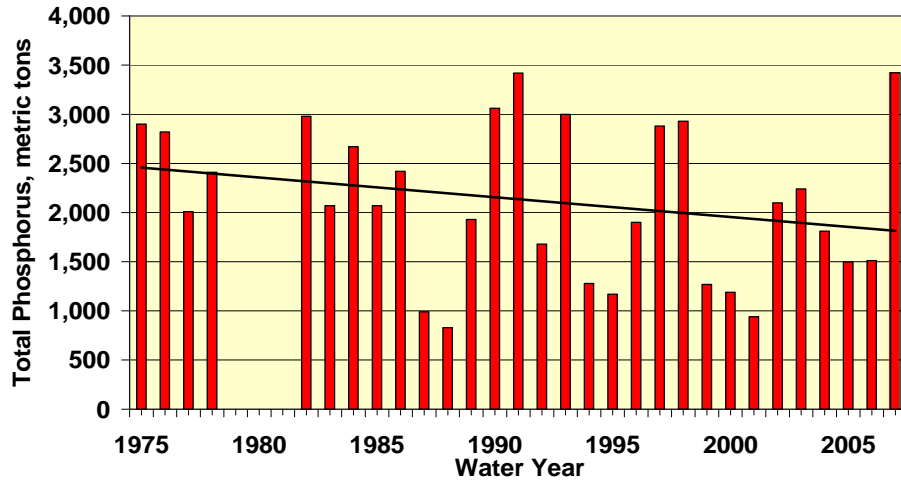


Data from the Heidelberg College National Center for Water Quality Research

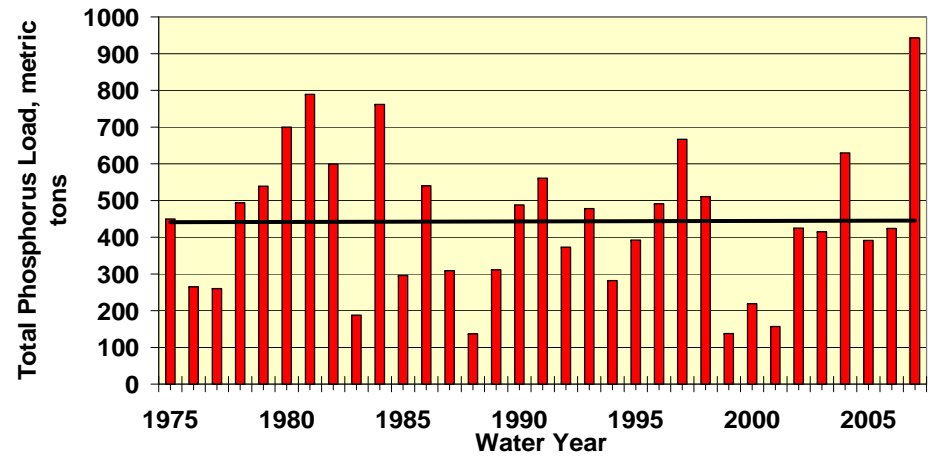
Trends in Annual Export of Total Phosphorus

From Northwestern Ohio Agricultural Watersheds, 1975-2007

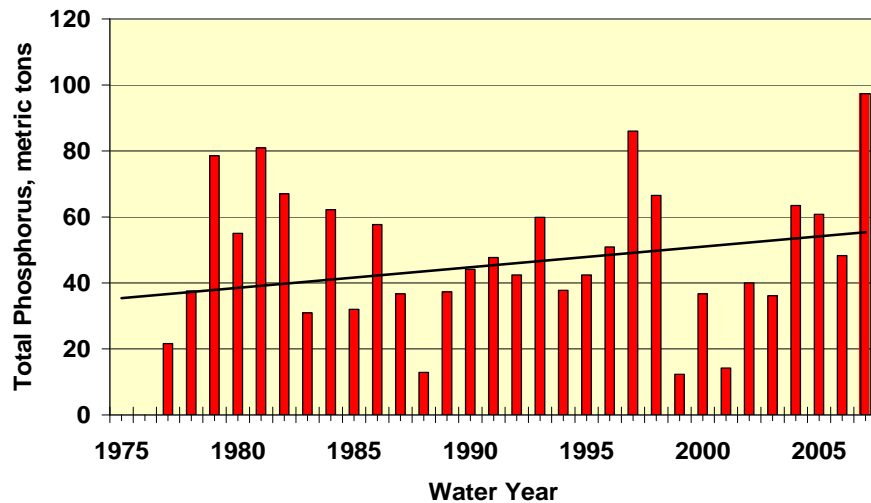
Maumee River, Total Phosphorus, Metric Tons



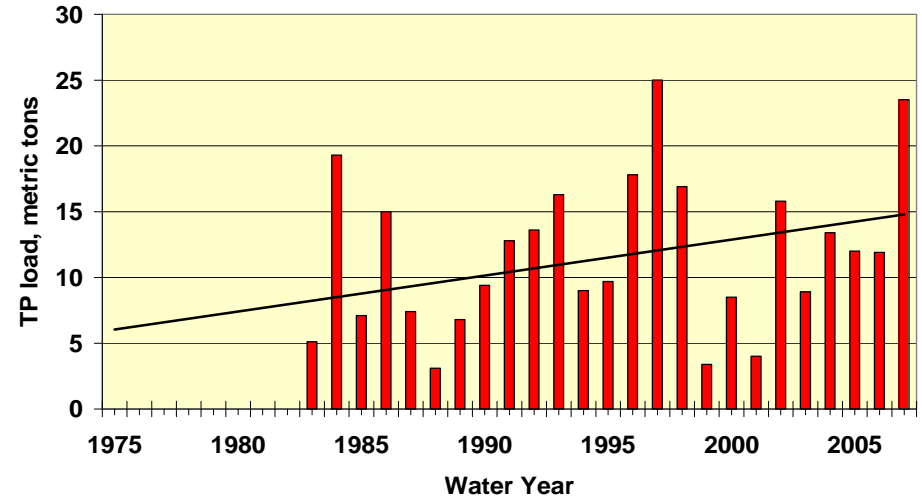
Sandusky River, Total Phosphorus, Metric Tons



Honey Creek, Total Phosphorus, Metric Tons



Rock Creek, Total Phosphorus Loads, Metric Tons

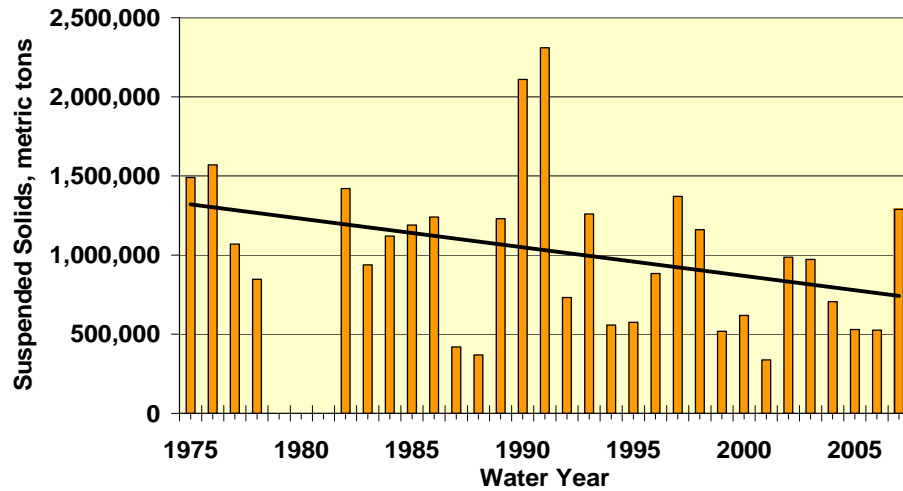


Data from the Heidelberg College National Center for Water Quality Research

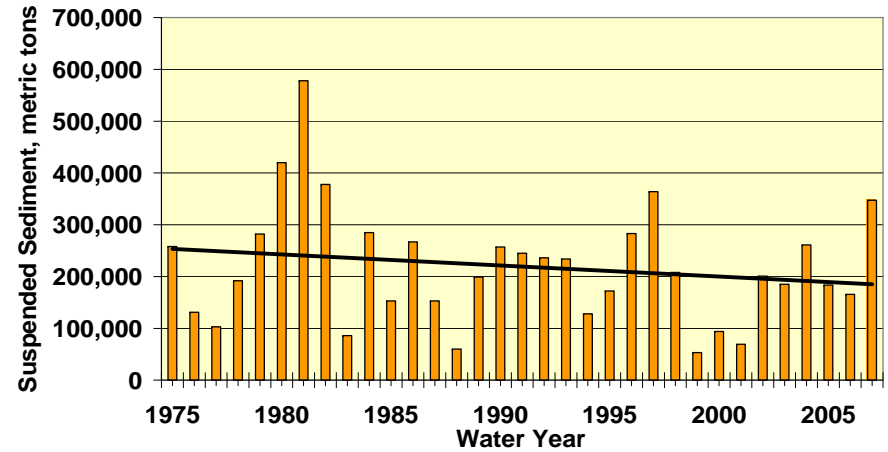
Trends in Annual Export of Suspended Solids

From Northwestern Ohio Agricultural Watersheds, 1975-2007

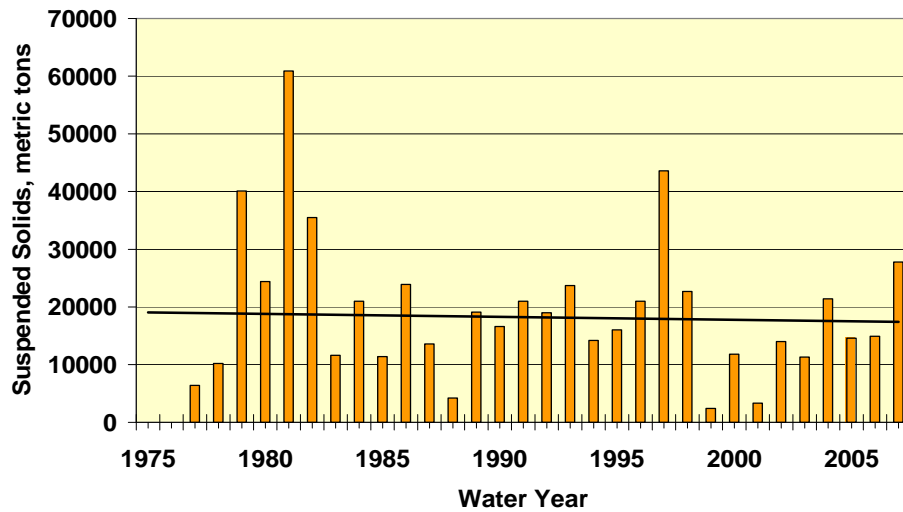
Maumee River, Suspended Solids Loads



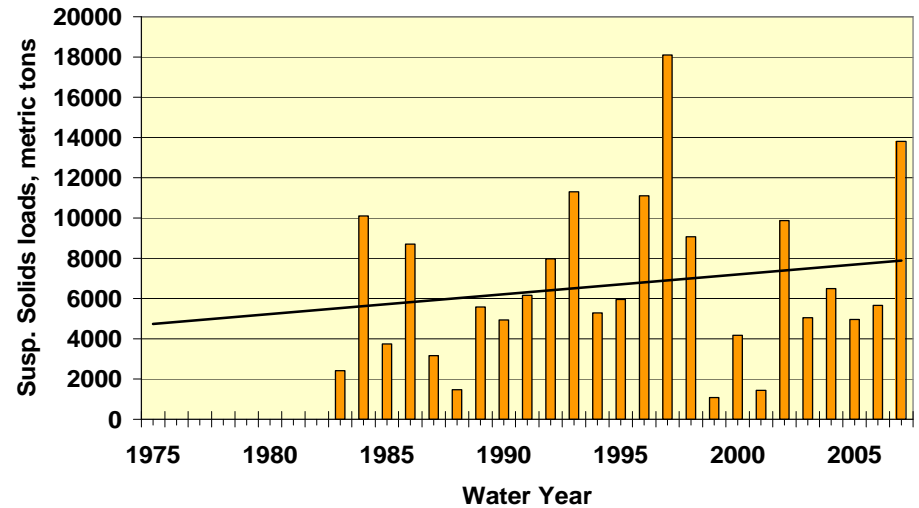
Sandusky R., Suspended Sediment, metric tons



Honey Creek, Suspended Solids Loading



Rock Creek, Suspended Solids Loads

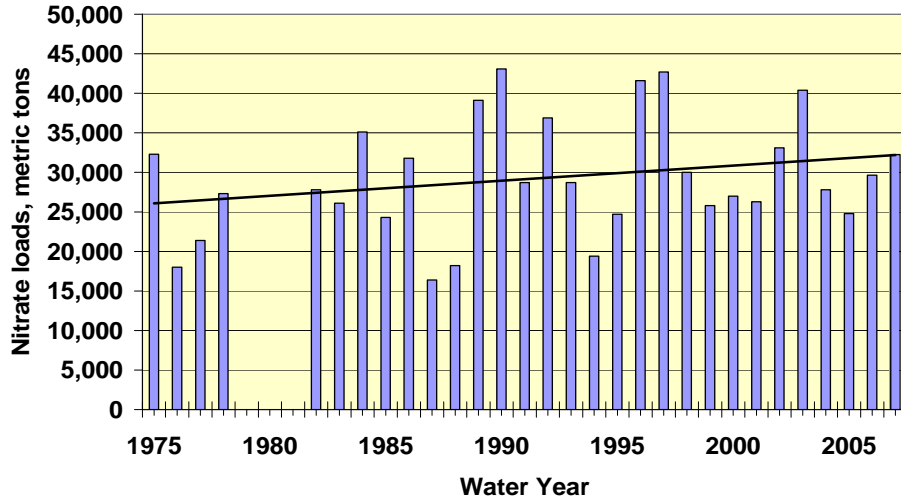


Data from the Heidelberg College National Center for Water Quality Research

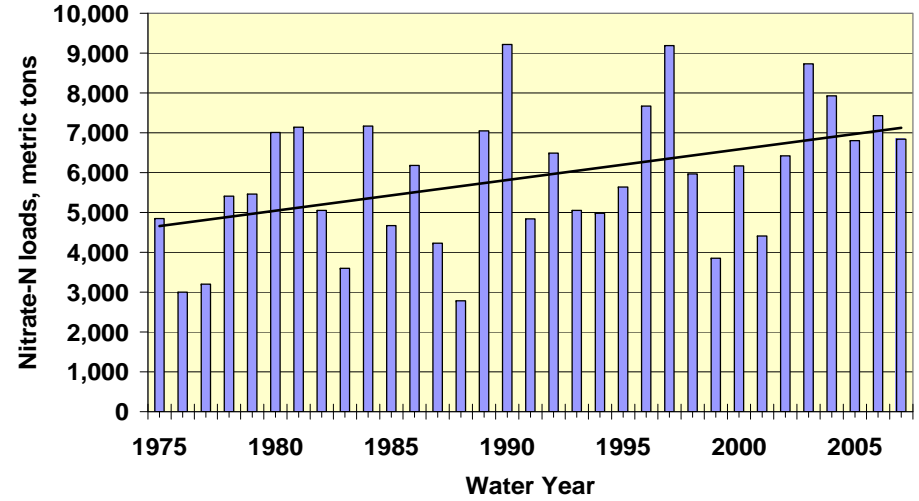
Trends in Annual Export of Nitrate-nitrogen

From Northwestern Ohio Agricultural Watersheds, 1975-2007

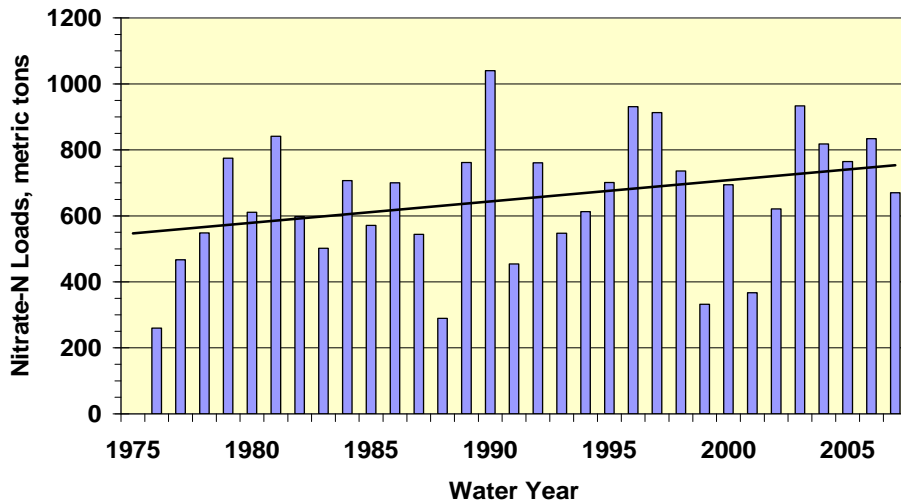
Maumee River, Nitrate-Nitrogen Export



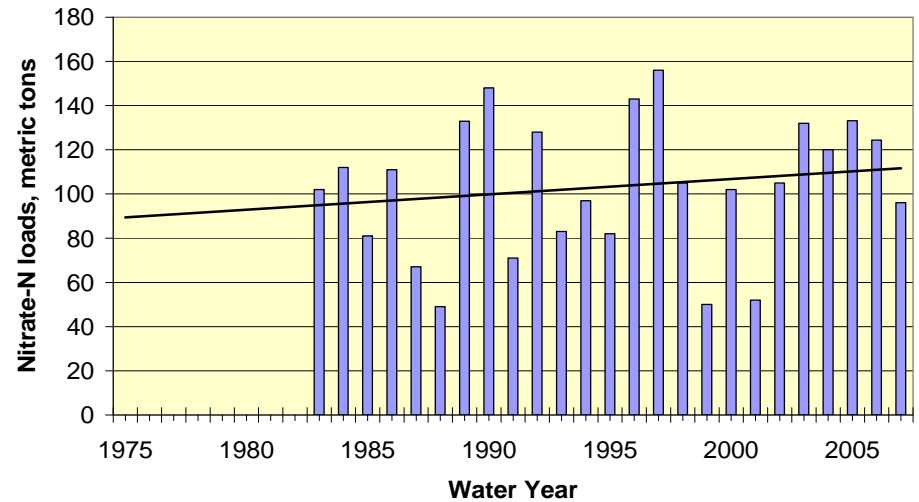
Sandusky River, Nitrate-N Loads



Honey Creek, Nitrate Export



Rock Creek, Nitrate Nitrogen Loads



Data from the Heidelberg College National Center for Water Quality Research

Why has dissolved phosphorus loading to Lake Erie increased so dramatically since 1995? (see adjacent graphs)

Are these increased loads contributing to current declines in Lake Erie water quality? (see adjacent article)

The above questions have been the focus of the Ohio Environmental Protection Agency's newly formed Ohio Lake Erie Phosphorus Task Force. Considerable data support the view that the increasing dissolved phosphorus loading is related to current farming practices in the northwestern and north central Ohio. Also data indicate that these nutrient loads are impacting the nearshore zone of Lake Erie.

Heidelberg's National Center for Water Quality Research has received two major grants to support implementation of measures to reduce phosphorus export from the Sandusky River Watershed and its tributaries. These grants come from the U.S. Environmental Protection Agency and the Great Lakes Protection Fund. The laboratory is working with area farmers, extension agents, crop advisors, soil testing groups, and researchers from The Ohio State University, Michigan State University and the University of Wisconsin to undertake this research program. This research is starting in 2007 and will continue over the next five years.