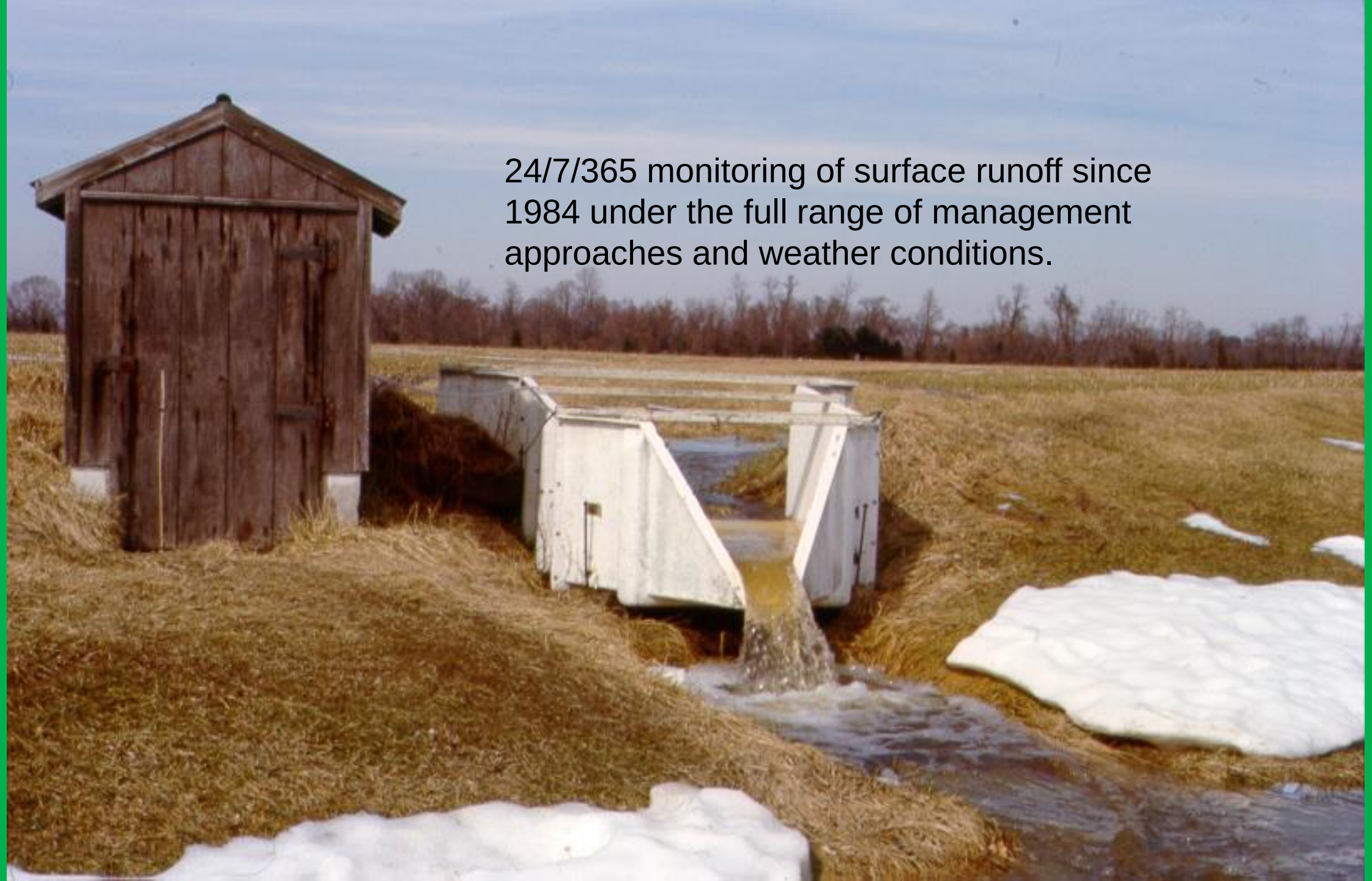
COLLEGE OF AGRICULTURE & NATURAL RESOURCES

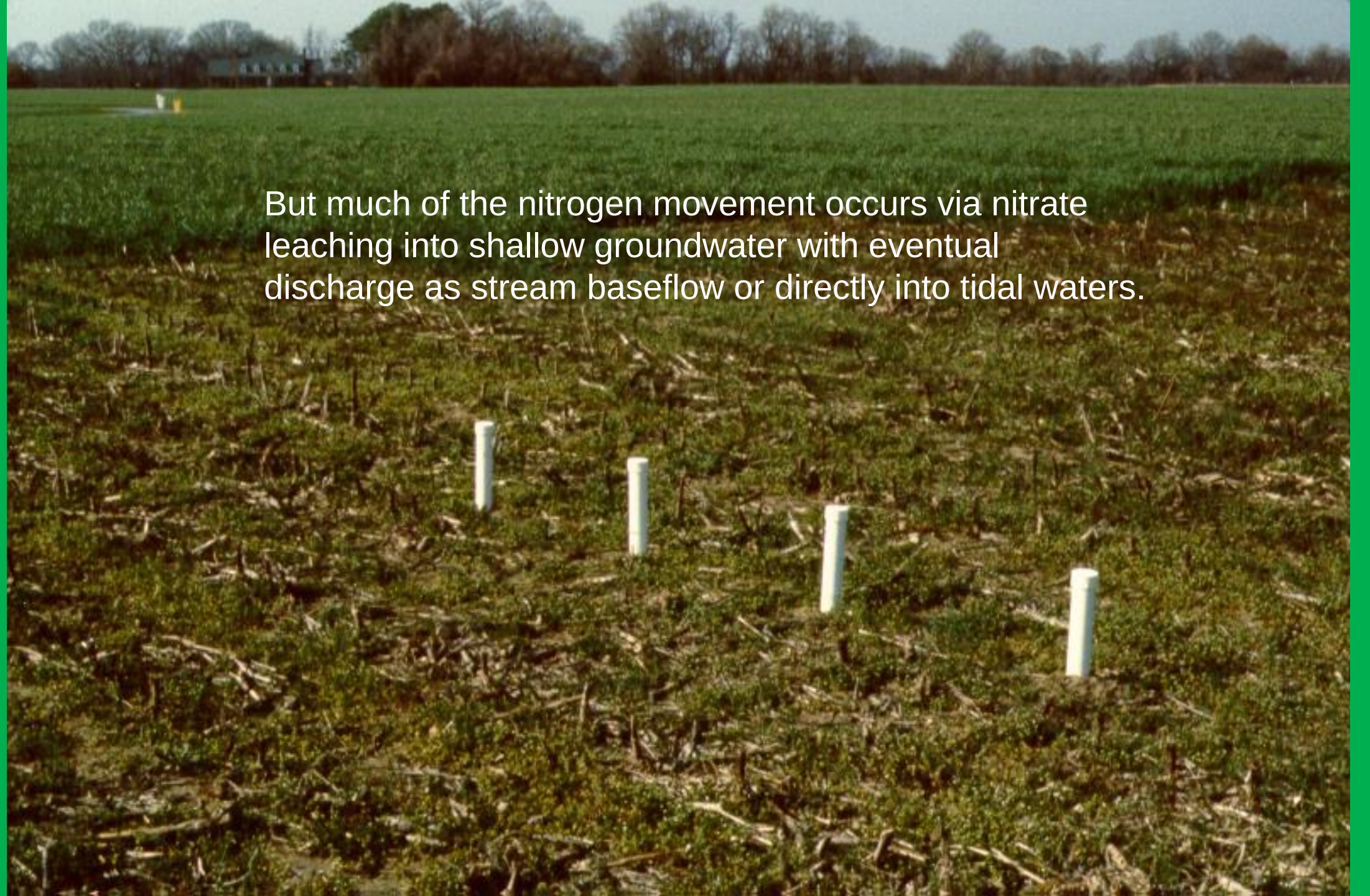
Water all around! Hydrologic connections and transport times between crop production and tidal waters are very short.

Wye Research and Education Center

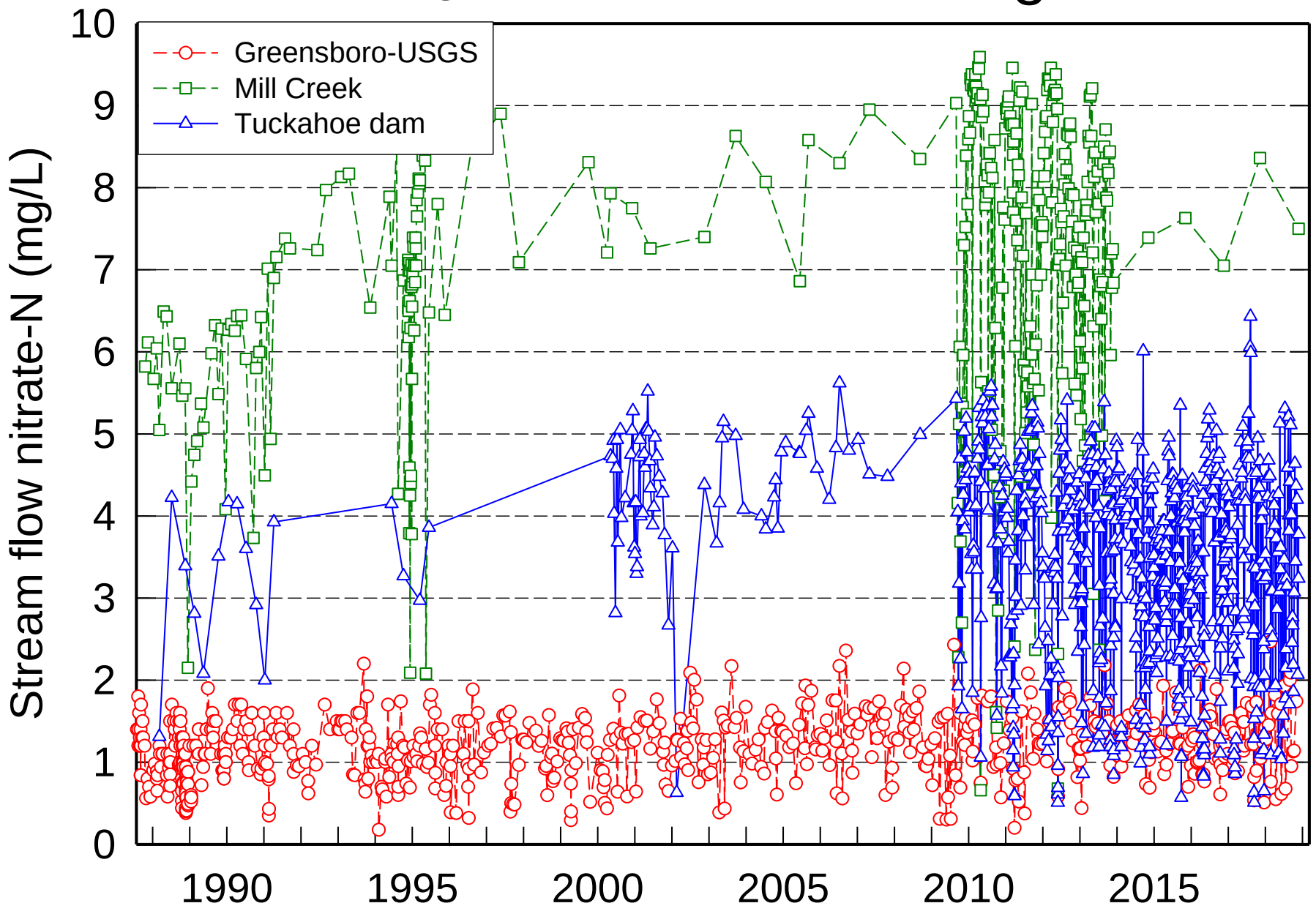

Queenstown
Grasonville
Wye Research Center
Cordova
Queen
Centreville Rd
Wye Mills Rd
College O
Queen Anne Hwy
Star Rd
Lewistown Rd
Tappers Corner Rd
Blue Star Memorial Hwy
Main St
Ocean Gateway
Google


Cornell Teaching and Research Center
Legend
128A
Google Earth
©2018 Google
N
1000 ft


24/7/365 monitoring of surface runoff since 1984 under the full range of management approaches and weather conditions.


But much of the nitrogen movement occurs via nitrate leaching into shallow groundwater with eventual discharge as stream baseflow or directly into tidal waters.

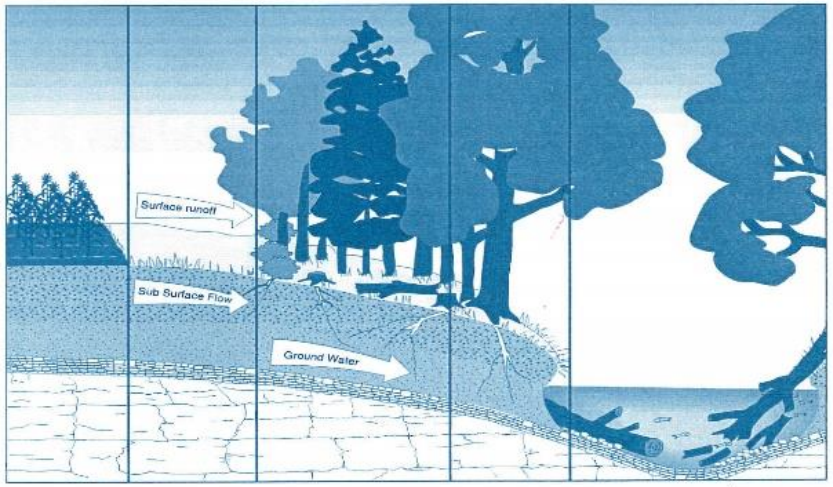
Long-term stream flow NO_3-N



Chesapeake Bay Program

Technology Transfer Report

Water Quality Functions of Riparian Forest Buffer Systems in the Chesapeake Bay Watershed



Prepared by the
Nutrient Subcommittee
of the
Chesapeake Bay Program

EPA 903-R-95-004
CBP/TRS 134/95
AUGUST 1995

Assessing the Impact of Changes in Management Practices on Nutrient Transport from Coastal Plain Agricultural Systems

Final Report Submitted to:

The Chesapeake Research Consortium

CRC Project CA NPS#3

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University of Maryland at College Park
College of Agriculture and Natural Resources
Wye Research and Education Center

August 1995

CBP/TRS-310-16

Cover Crops Practices For Use in Phase 6.0 of the Chesapeake Bay Program Watershed Model

Chesapeake Bay Program
Science. Restoration. Partnership.

January 2017

AG Stakeholder Perspectives?

1. AgWG originally focused on developing nutrient reduction values for different production systems and conservation practices. Stakeholder input was needed to develop baselines, and especially critical for evaluating research findings. Ag nutrient flows and stocks (applications, yields, soil P) remain a data challenge.

2. Need more communication regarding mechanics of nutrient transport. Soil erosion is obvious and intuitive. Dissolved nutrients less obvious and more complicated, and a major part of losses. Need education, communication, and trust. Also need ability to downscale watershed model accounting framework (CAST) to the management unit, that is, field and farm.