

Water Quality Credit Trading: Alternative & New Credits

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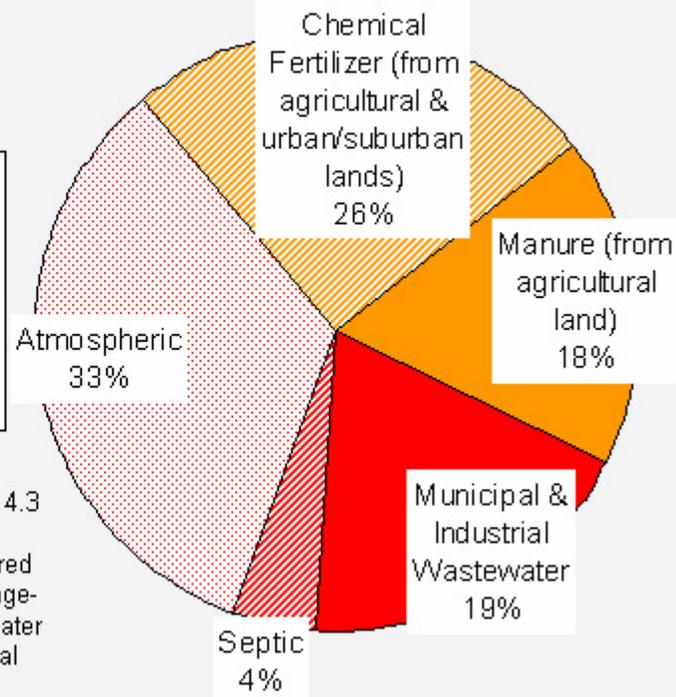
Sources of Nitrogen Loads to the Bay (2005)

Sources that emit nitrogen to the atmosphere:

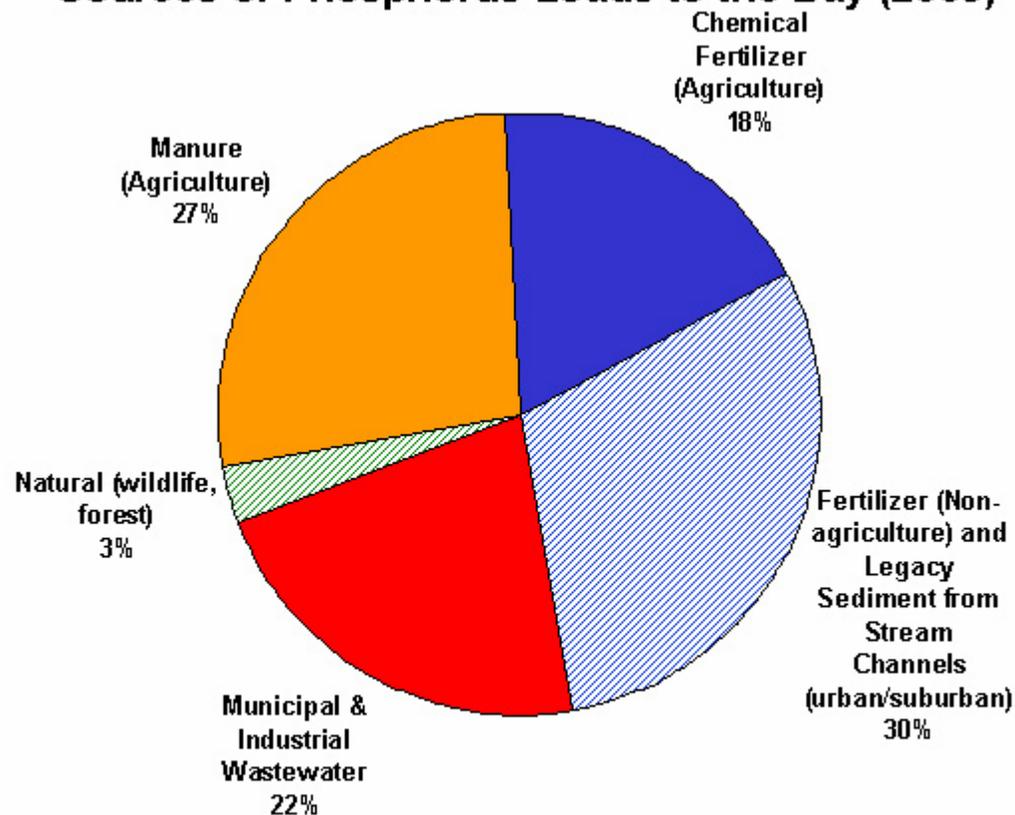
- Vehicles & other mobile sources
- Electric utilities & industry
- Livestock & fertilized soil

Source: Chesapeake Bay Program Phase 4.3 Watershed Model.

Notes: Wastewater loads based on measured discharges; the rest are based on an average-hydrology year. Includes loads from tidal water deposition. Does not include loads from tidal shoreline erosion or the ocean.



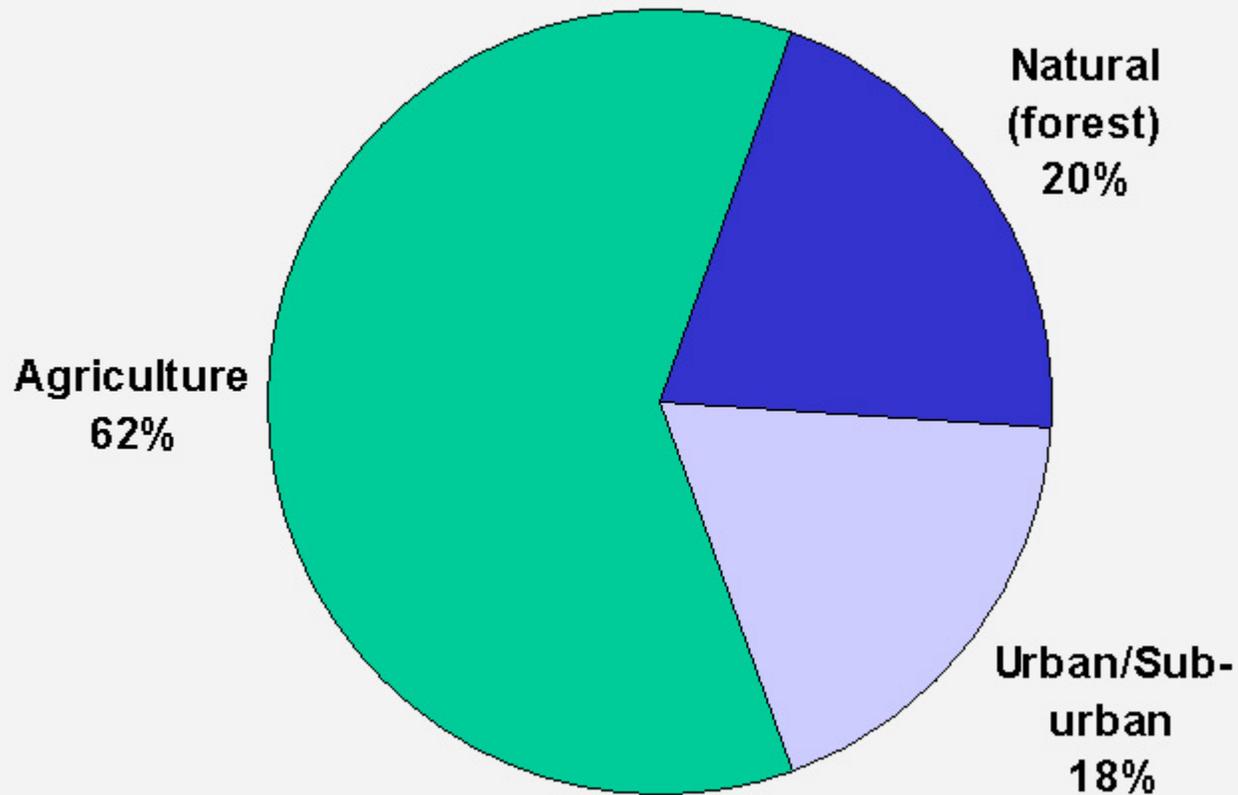
Sources of Phosphorus Loads to the Bay (2005)



Source: Chesapeake Bay Program Phase 4.3 Watershed Model.

Notes: Wastewater loads based on measured discharges; the rest are based on an average-hydrology year.

Sources of Sediment Loads to the Bay 2005



Source: Chesapeake Bay Program Phase 4.3 Watershed Model.
Note: Does not include loads from tidal shoreline erosion.

Alternative Sources: Agriculture

- Fertilizer and Manure Reduction Strategies
 - Reduced Nutrient Use
 - Nutrient Incorporation
 - Animal Feed Strategies
- Traditional Crop Choices
- Alternative Crop Choices
- Alternative Land Uses
- Forest Land Management

Alternative Sources: Agricultural Air Quality

- Air Quality Controls
 - Manure Generation
 - Manure Storage and Handling
 - Manure Usage
 - Commercial Fertilizer Handling and Usage

Alternative Sources: Non Agricultural

- Septic System Upgrade or Conversion
- Stormwater Management
- Low Impact Development
- Green Infrastructure
 - Energy Saving Development
 - Green Roofs
- Green Landscaping
 - Plant Selection
 - Fertilizer Handling and Usage
 - Drainage Design
- Legacy Sediments

Alternative Sources: Non Agricultural Air Quality

- Automobile Emissions
 - High MPG Vehicles
 - Alternative Fuel Vehicles
 - Public Transportation
 - Alternative forms of Transportation
- Power Plant Emissions
- Alternative Energy Emissions