

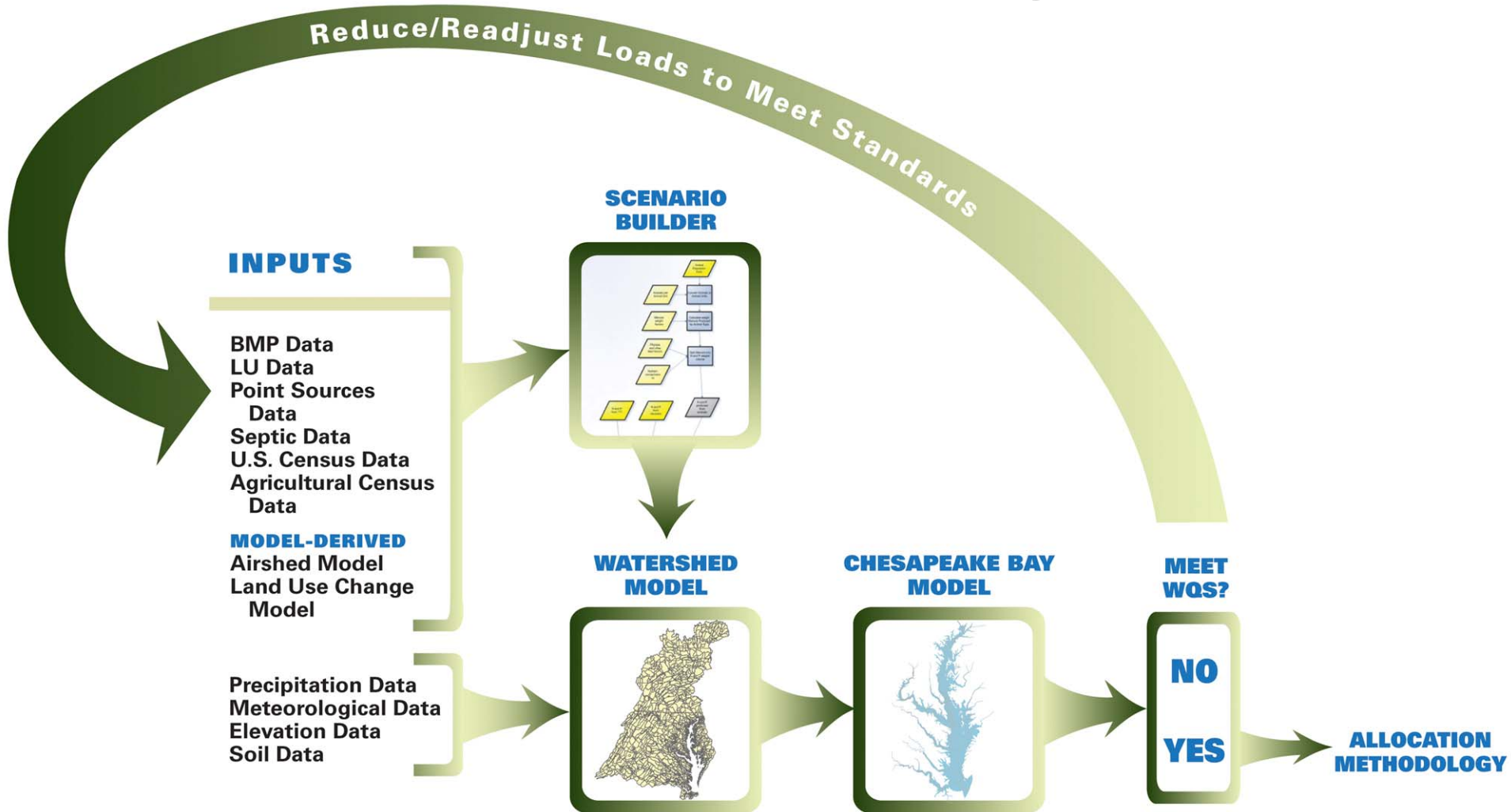
# Phase 5.3.2 Watershed Model

WQGIT

Gary Shenk

1/24/11

# Role of the Bay Models In Decision-Making



# Changes Agreed to by AgWG/WQGIT/PSC

- Updated land use with more complete urban coverage
  - STAC reviewed and modifications incorporated
- Modified nutrient management
  - Increased non-NM application rates
  - Stop automatic transfer of manure
  - Dispose of excess manure in a sequence determined by the states
  - Details worked out in AgWG / WTWG 1/14/11

# Manure application excess

- If manure is applied to meet a nitrogen need, have the phosphorus in the manure count toward the total application even if it is not in the same month.
  - Should reduce total fertilizer P



# Nursery Crops

- Nursery was very small acreage, based on acreage under glass
- Nursery acres in the open added to nursery land use, increasing total nursery land area by 40 times



# Double Crop Dates

- Plant and harvest dates previously overlapped, resulting in high uptake, application, and cover percent in some months
- Plant and harvest dates separated for double crops, resulting in more realistic simulation



# CAFO/AFO acres

- P5.3.0 method based on number of farms
- Proposed method based on animal numbers
- Did not have sufficient information to make judgment



# Mass Balance of Manure BMPs

- Current method 'poofs' manure when BMPs are applied to storage system
- Proposed method recognizes that these BMPs make nutrients available for crop application





# Mortality Composting

- BMPs have been used for mortality composting, but no load existed for that source
- Proposal to add load to mass of manure for cafo/afo/application
- NASS data includes animals that have died, so database already includes manure from dead animals



**REJECTED**

# Revise application fractions

- Set of tables in scenario builder govern when nutrients are applied
- States are given the opportunity to revise these tables by 2/4/11
- No change if no data received from state



# Request Decision

- Approval of Agriculture and Watershed Technical Workgroup recommendations