

 Use of Adaptive Management to Enhance Restoration and Conservation of the Chesapeake Bay Ecosystem

- National Conference on Ecosystem Restoration
- Session 7



Chesapeake: Nation's Largest Estuary

- What it provides...
 - Biodiversity
 - 18 M people
 - Economic benefits
- Degraded conditions
 - Declining fish and wildlife
 - Ecosystem pressures
- Caused by...
 - Population growth
 - Climate variability
 - Land to water ratio
- Restoration effort





Ecosystem Pressures

Population growth



Development Habitat loss Land use

Climate Change



Sea level rise Warmer temperatures Storm intensity

Air & Water Pollution



Nutrients
Sediment
Chemical Contam.

Natural Variability



High temperatures River flows

Consumption



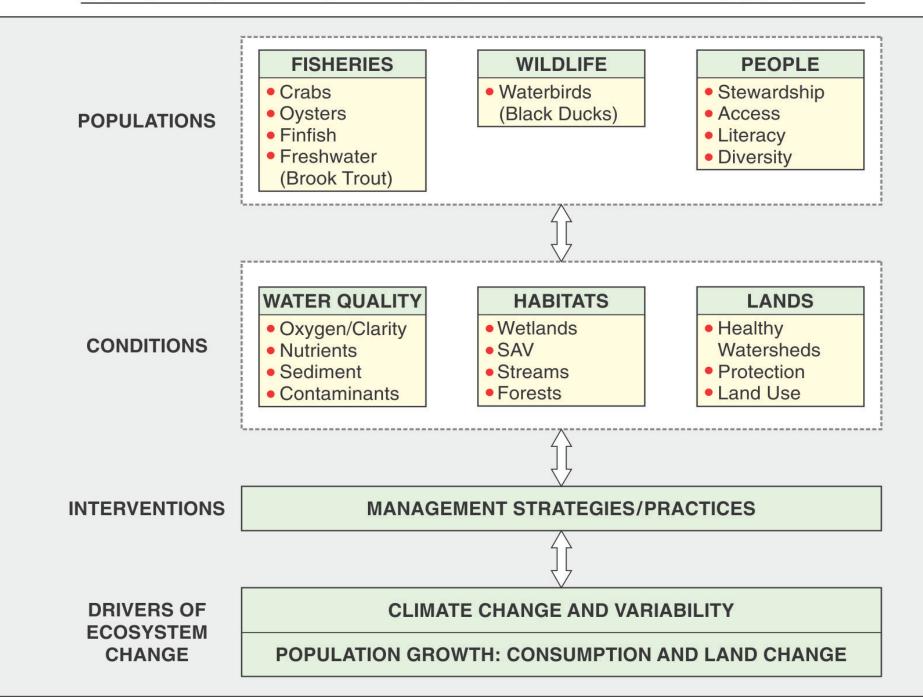
Over-harvesting Fish, wildlife Resources

Invasive Species



Nutria Phragmites Blue catfish

CONCEPTUAL DIAGRAM OF CHESAPEAKE BAY ECOSYSTEM





Decision Framework

- Goals
- Factors
- Existing efforts/gaps
- Stategy
- Monitoring
- Assess
- Adapt

Set goals.

Adaptively manage.

Identify factors influencing work toward goals.

Assess performance.

Develop a monitoring program.

Identify gaps or overlaps in existing management efforts.

Develop a management strategy.



Topics and Speakers

- Overview of CBP
 - Carin Bisland
- Decision framework
 - Carl Hershner
- Indicators to assess progress
 - Doreen Vetter
- Science to support decision making
 - Scott Phillips

