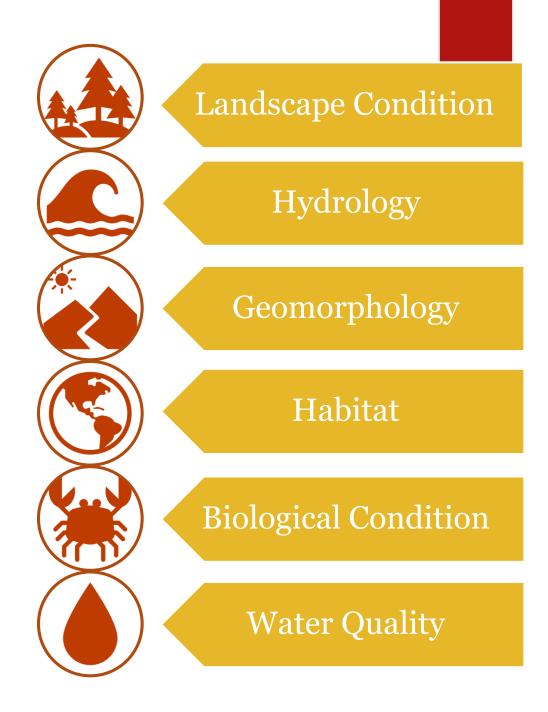
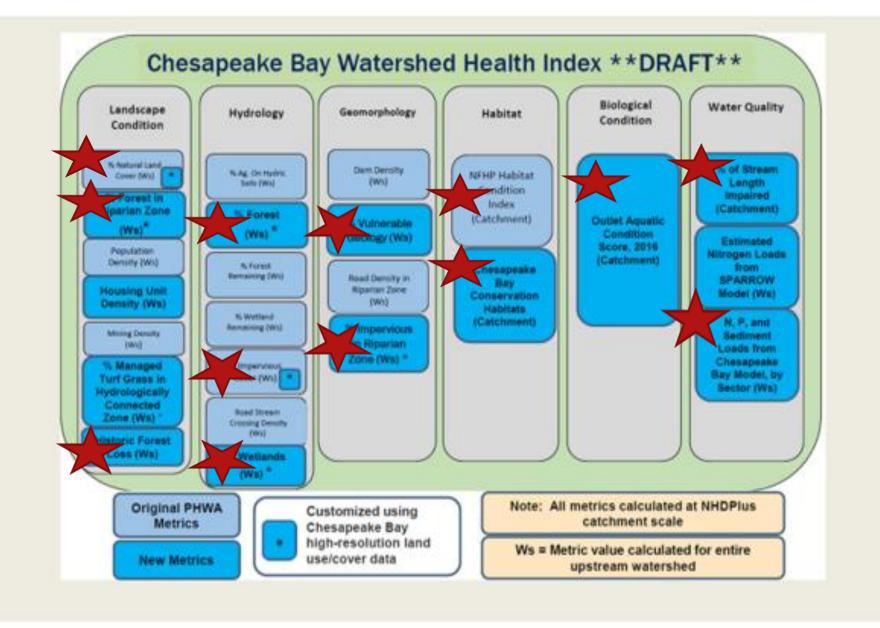
Chesapeake Healthy Watersheds Assessment

SIGNALS OF CHANGE INDICATORS TO SERVE MULTIPLE OUTCOMES UPDATES

Chesapeake Bay Watershed Health Index

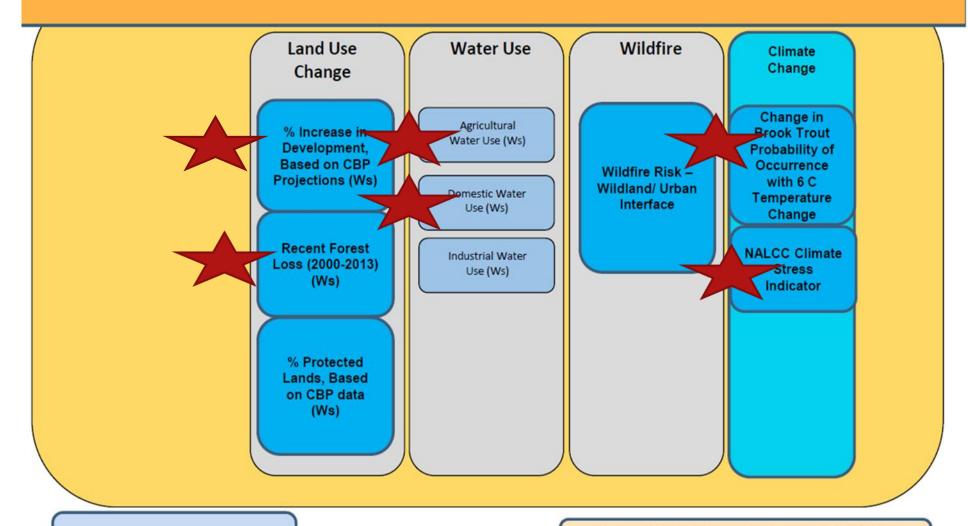




CHESAPEAKE BAY
WATERSHED
VULNERABILITY
INDEX



Chesapeake Bay Watershed Vulnerability Indicators **DRAFT**



Original PHWA Metrics

New Metrics

Note: All metrics calculated at NHDPlus catchment scale

Ws = Metric value calculated for entire upstream watershed



- % Impervious Cover
- Landscape Condition Index
- Hydrology Index
- Geomorphology Index
- Habitat Index
- Biological Condition Index
- Water Quality Index
- Vulnerability Indices
 - Land Use Change
 - Water Use
 - Wildfire
 - Climate Change

Watershed Characteristics (metrics and indices)

Statistical Hopper

- Stream flow alteration
- Stream temperature alteration
- Stream / floodplain connectivity
- Aquatic community composition
- Toxics
- Emerging contaminates
- Fish Diseases
- Bacteria
- Nutrients
- Sediment

Indicators
of
Watershed Health

Diagnostic Measures of Stream Health

WATERSHED HEALTH AND VULNERABILITY

Signals of Change

WATERSHED HEALTH AND VULNERABILITY

Management Questions