WV WATERSHED ASSESSMENT PILOT PROJECT





Gauley River ©Kent Mason

Expert Workshop #1, Round 2 Bridgeport Conference Center, October 10 & 11, 2012

Wetlands Model

Planning Units without Wetlands

- Several planning units did not have mapped NWI wetlands
- Null values for metrics dependent on presence of wetlands
- Only 2 indices had values for all planning units:
 Wetland Hydrology (presence of hydric soils)
 - Biodiversity

Wetland Function Metrics

Forested headwater wetlands, forested floodplain wetlands, etc



Wetland Hydrology Metrics

- Wetland area
- Hydric soils (potential for wetland restoration)
 But: these are not consistently mapped across WV
- Forested flood plain wetlands
- Floodplain area



Weakest Model

- Wetlands are our weakest model
 - Currently no reliable data on presence/absence or function of wetlands
 - Attempted to find appropriate surrogates for wetland function
- Missing values for indices make ranking of planning units not very reliable

Group Discussion

- How can we best handle lack of reliability for wetland results?
 - Alert users, provide caveats for use of these results
 - Change index weights for indices with many null values
 - As additional datasets become available, incorporate them into future assessments



COMMENTS/QUESTIONS?

Group Discussion After Results Presentations

> Are thresholds defined appropriately?

- Is the Very Good/Good threshold too stringent? Very difficult to attain
- > Is the Poor/Fair threshold too stringent?
- Should an alternate definition (i.e., quantiles, other?) be used where thresholds don't work?
- > How should metrics with missing thresholds be handled?
 - Keep as presence/absence
 - > Assign intermediate very good/good and poor/fair categories instead of forcing into good and fair only
 - > Assign arbitrary/"best guess" thresholds for all thresholds
- > How should results be presented in interactive web tool?
 - Suggest potential workflow for users

Next Steps

Please let us know any suggestions, especially on:

- Objective ranking methodology
- Thresholds
- Workflow for interactive web tool
- Wetlands model modifications
- Incorporate workshop feedback
- Second expert workshop will present consolidated analysis and potential strategies
- Spring: stakeholder/partner workshop
- April 2013: final watershed assessments and interactive webtool completed

Acknowledgments

- US Environmental Protection Agency
- WV Department of Environmental Protection
- Many individuals from several agencies, organizations, watershed associations:
 - US Geological Survey
 - US Army Corps of Engineers
 - US Office of Surface Mining
 - US Department of Agriculture NRCS
 - WV Division of Natural Resources
 - WV Geological and Economic Survey
 - Region 3 Intergovernmental Council
 - The Conservation Agency
 - Trout Unlimited
 - West Virginia University
 - Marshall University
 - WV Rivers Coalition
 - WV Land Trust
 - Canaan Valley Institute
 - Potesta & Associates
 - Triad Engineering
 - Morgantown Utility Board
 - Several Watershed Organizations



THANK YOU FOR YOUR HELP!