

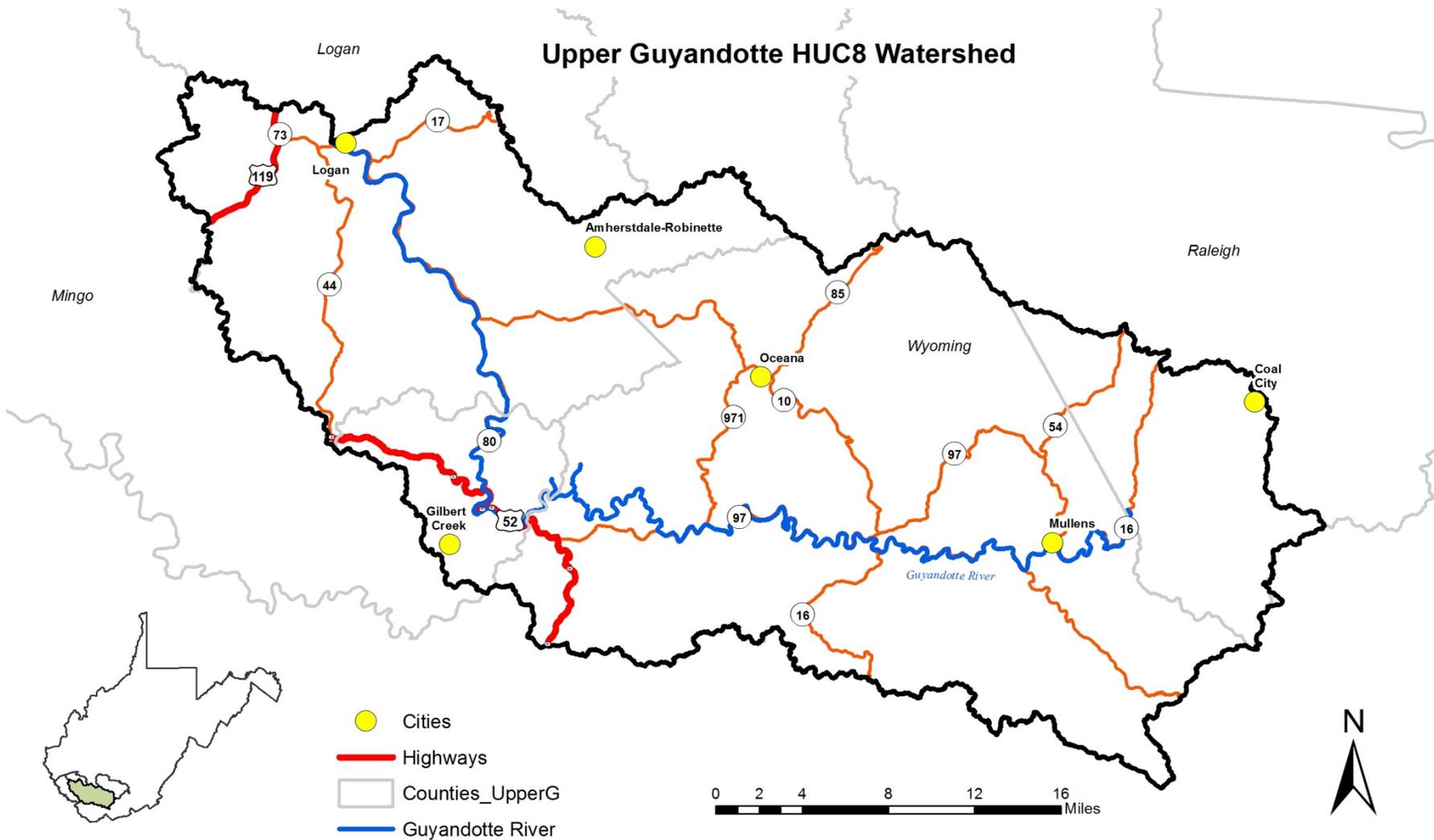


WEST VIRGINIA WATERSHED ASSESSMENT PILOT PROJECT

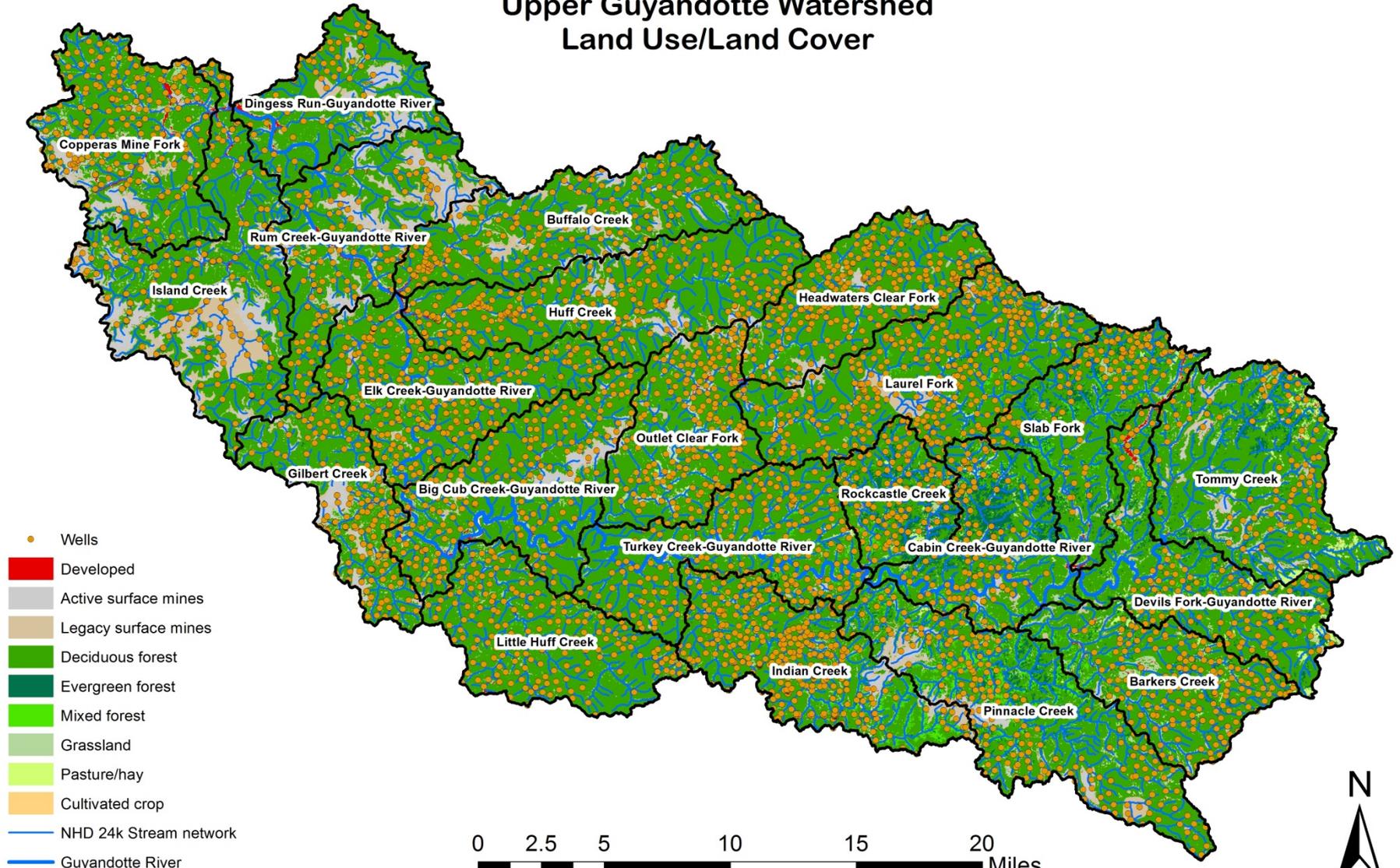
Elk River, Southeast Flyfishing forum

Upper Guyandotte Watershed Assessment
October 10, 2012

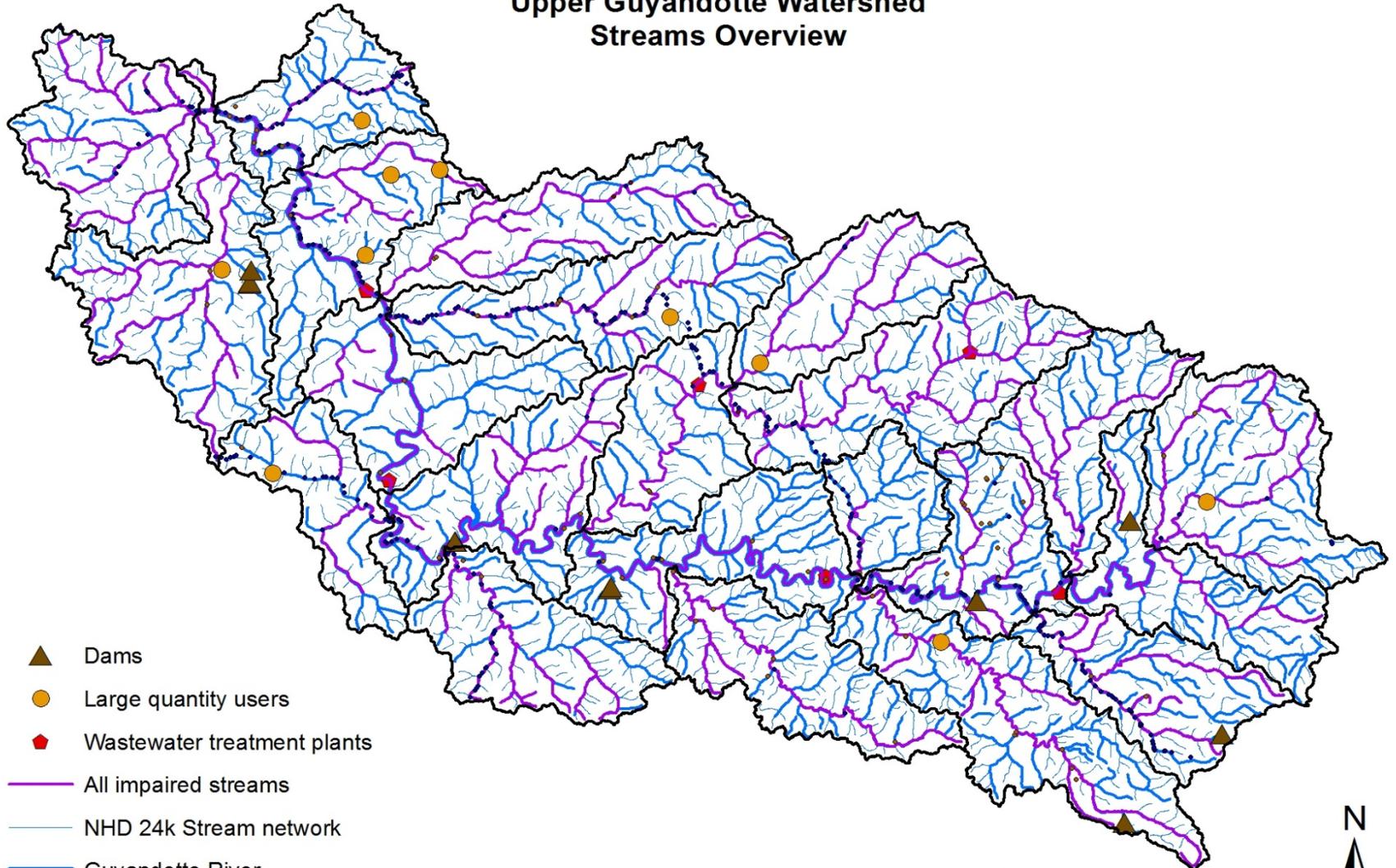
Upper Guyandotte HUC8 Watershed



Upper Guyandotte Watershed Land Use/Land Cover



Upper Guyandotte Watershed Streams Overview

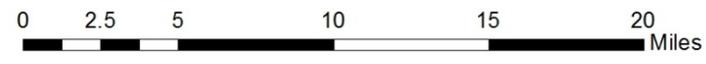


- ▲ Dams
- Large quantity users
- ◆ Wastewater treatment plants

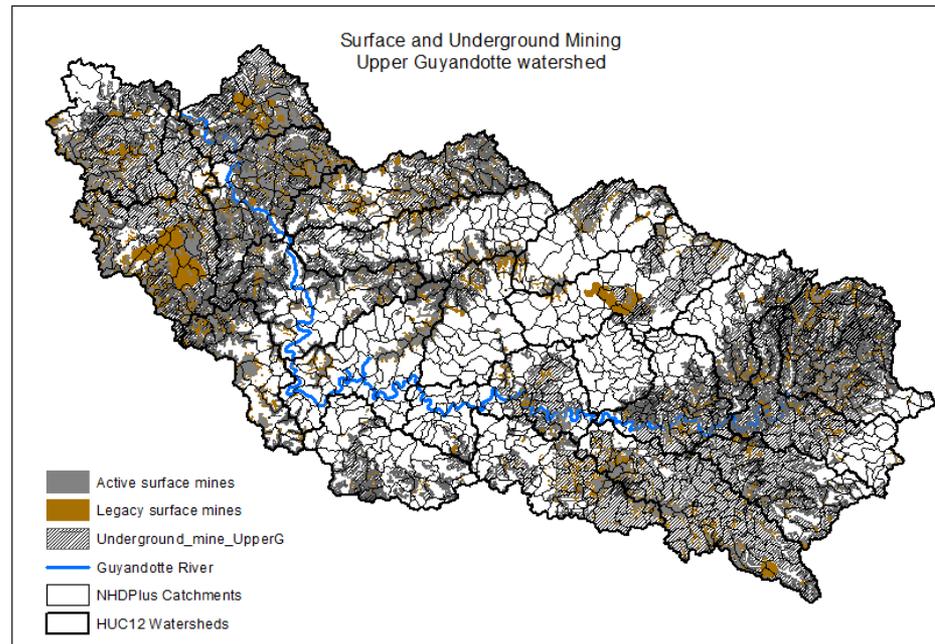
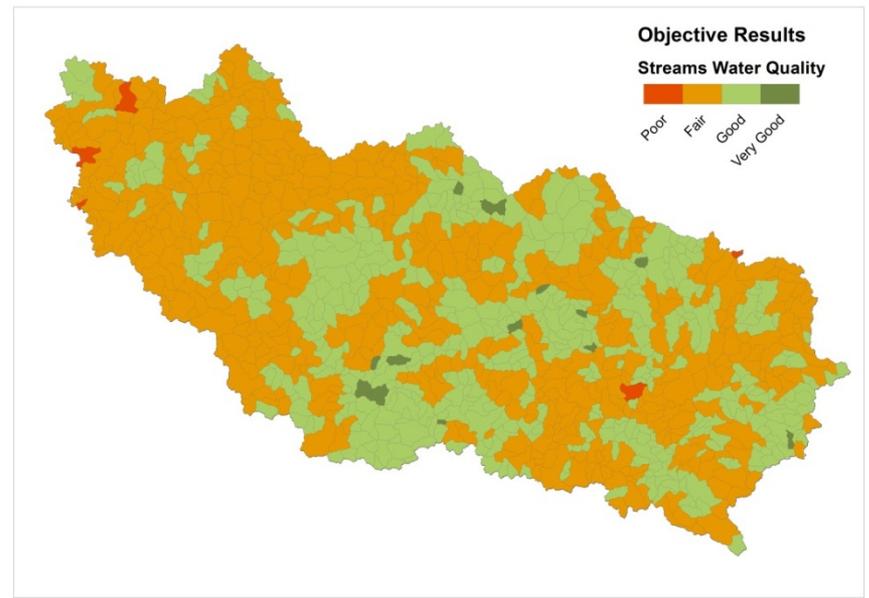
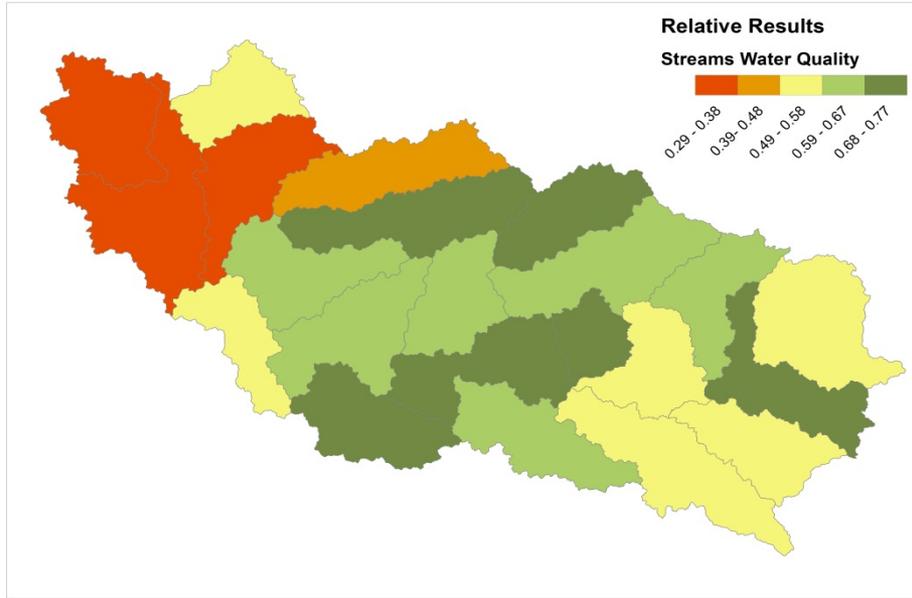
— All impaired streams
— NHD 24k Stream network

— Guyandotte River

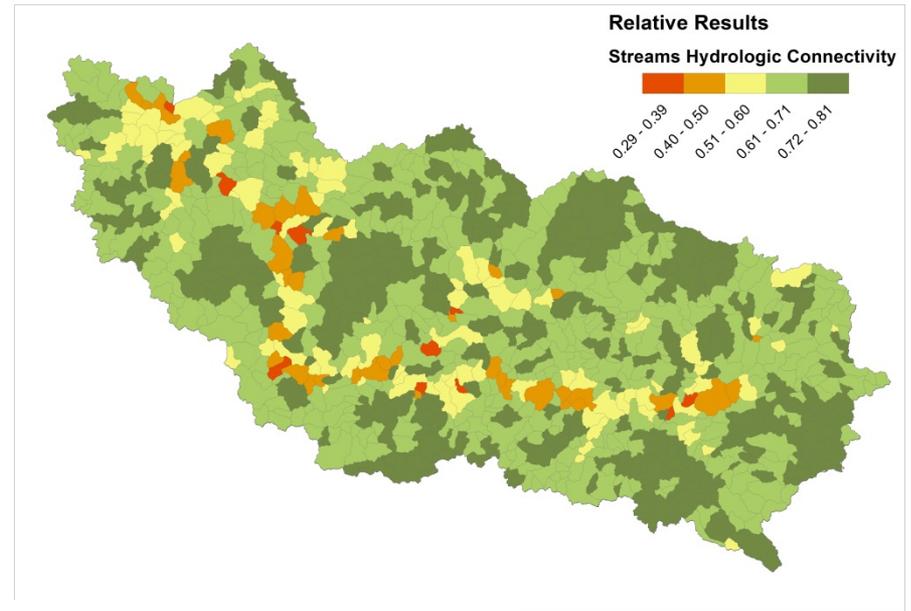
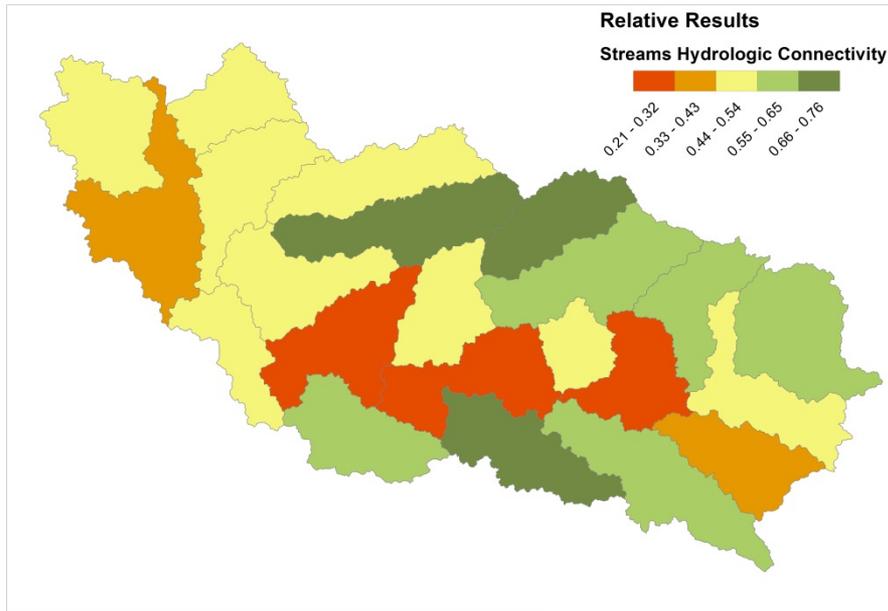
□ HUC12 watersheds



Streams: Water Quality



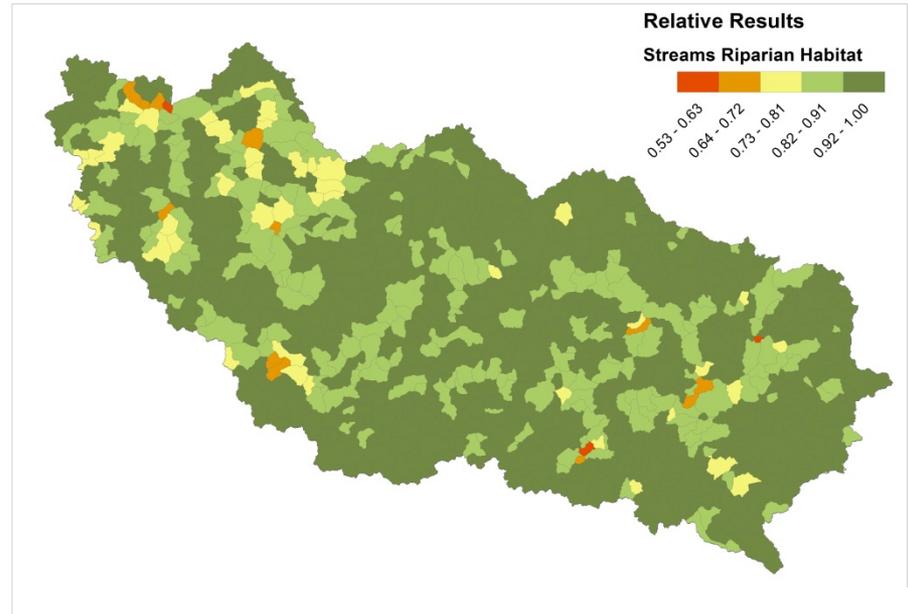
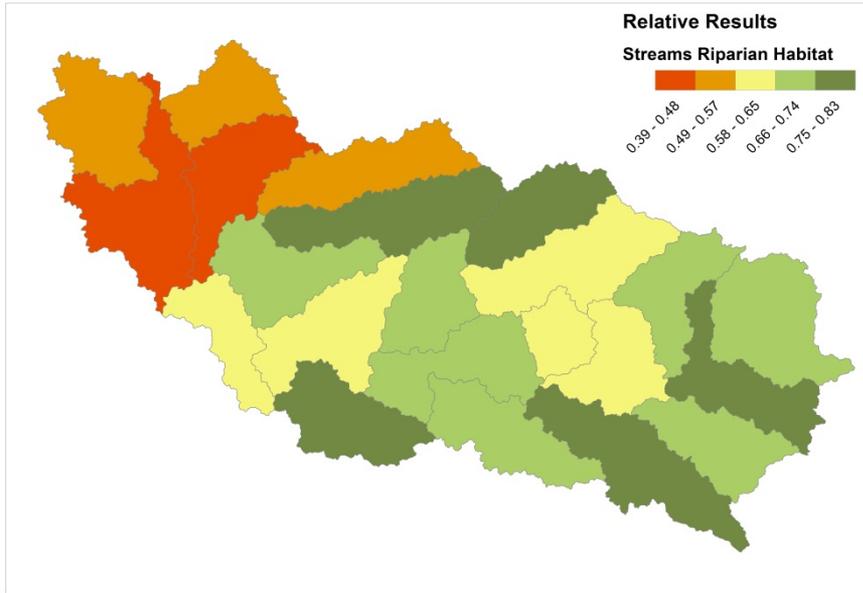
Streams: Hydrologic Connectivity



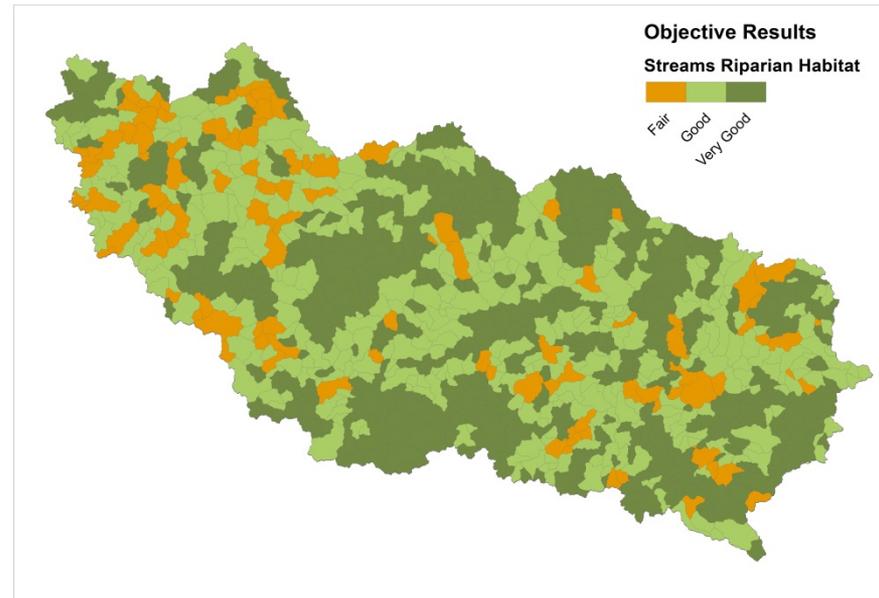
Roads
Dams
Headwaters
Riparian forest



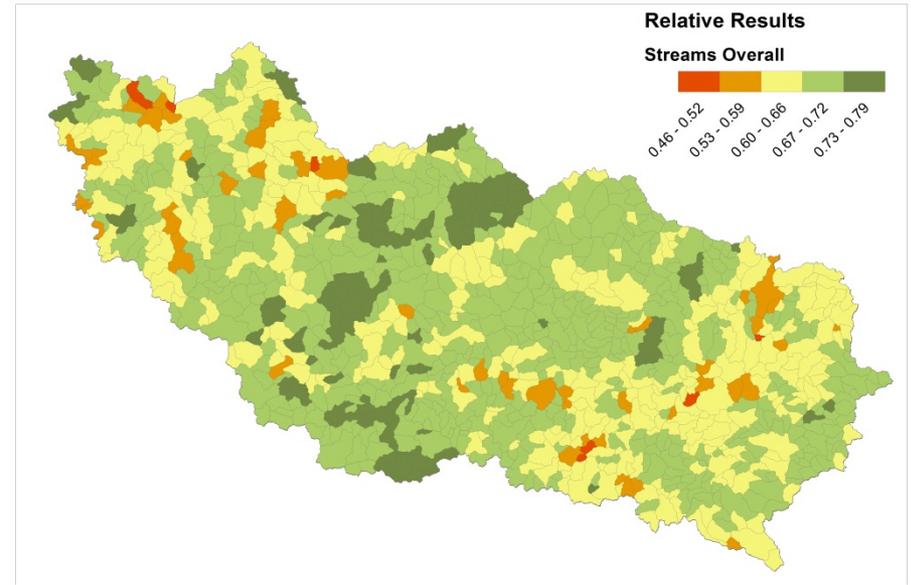
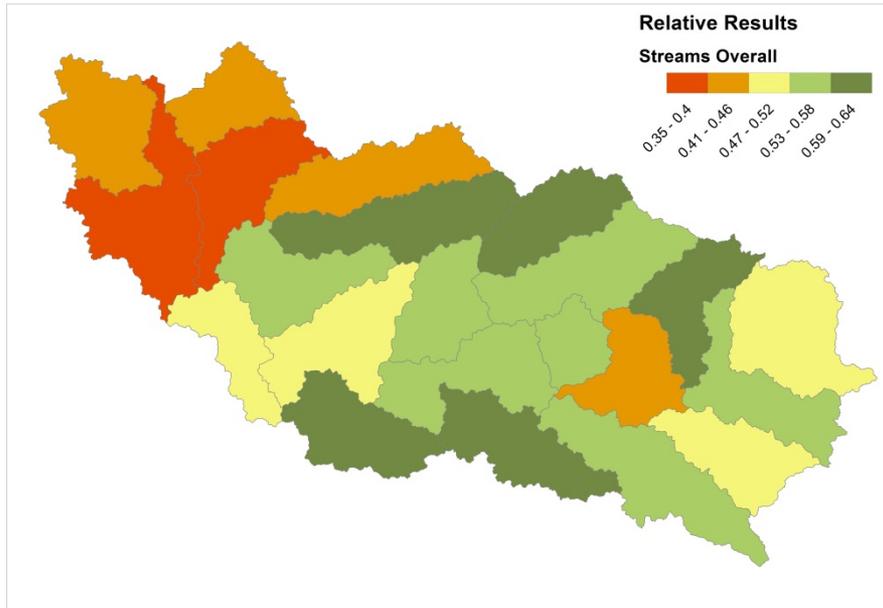
Streams: Riparian Habitat



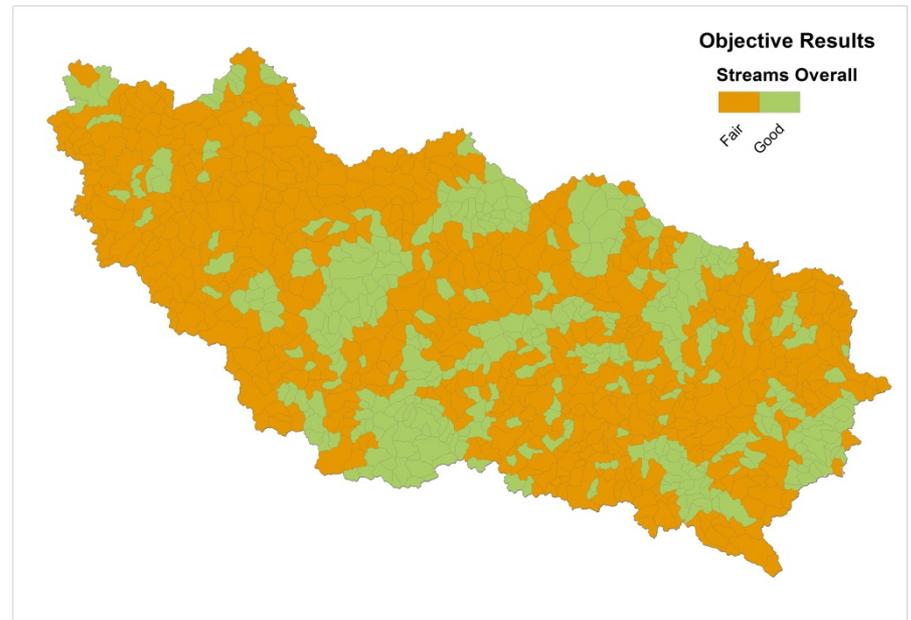
Mining
Wells
Roads
Land Cover



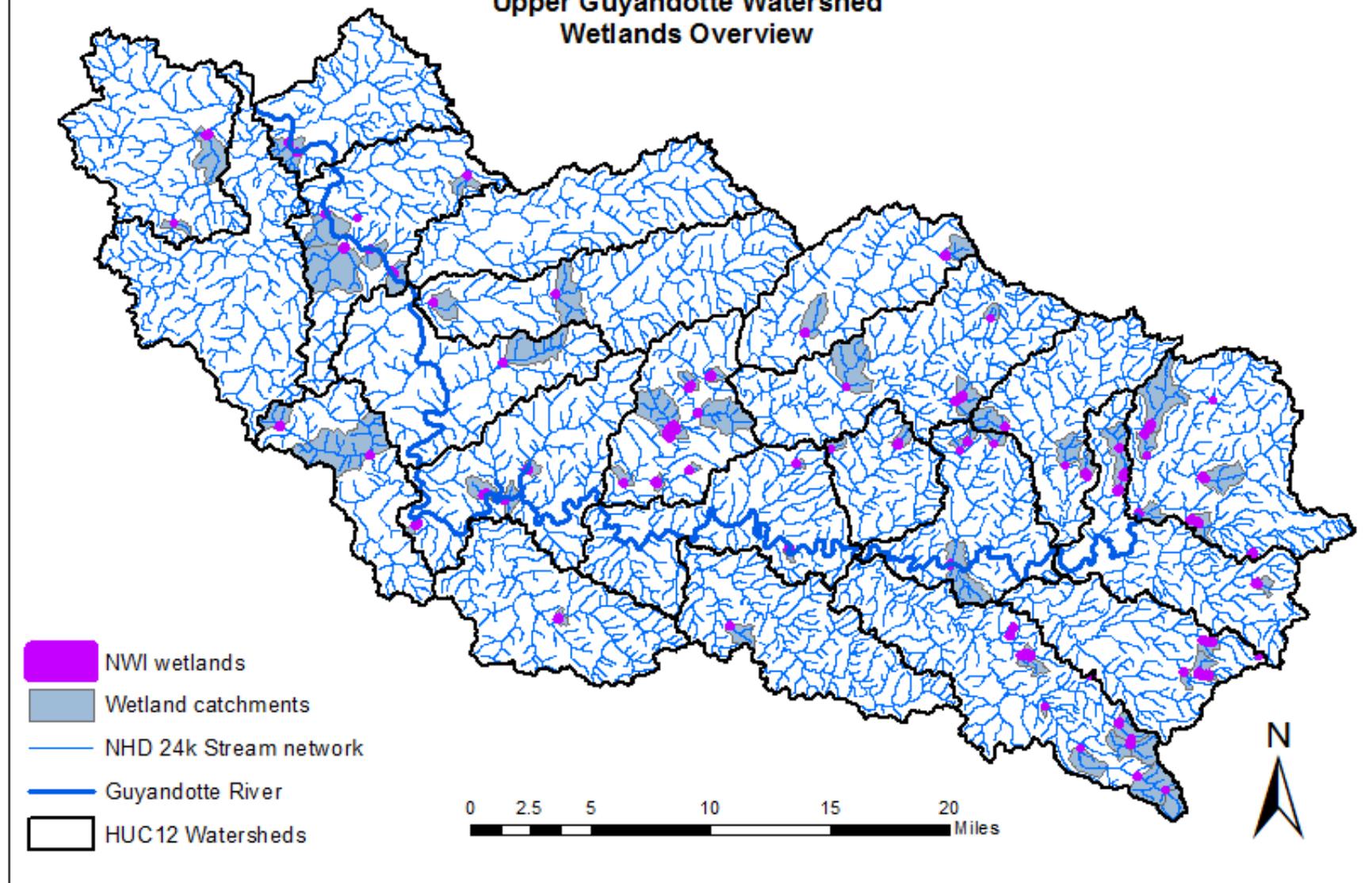
Streams: Overall



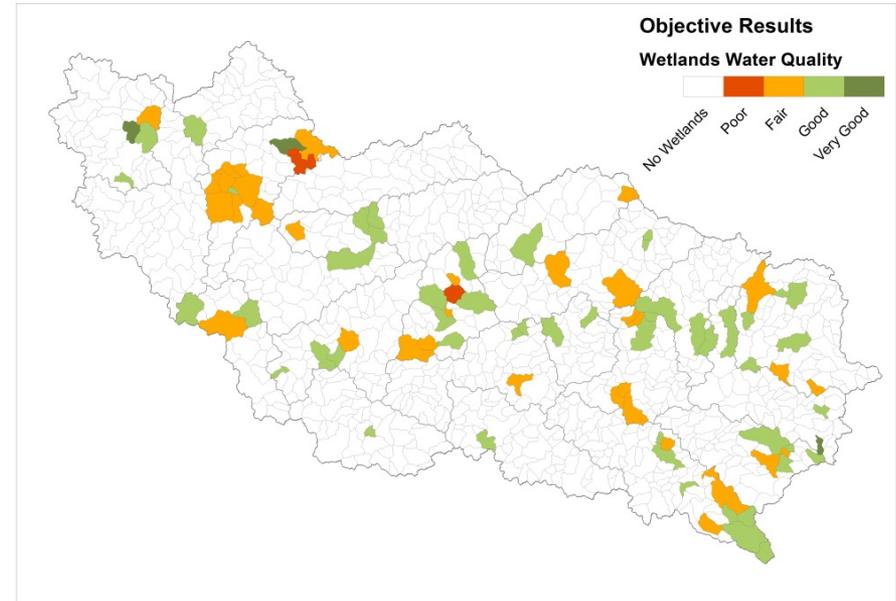
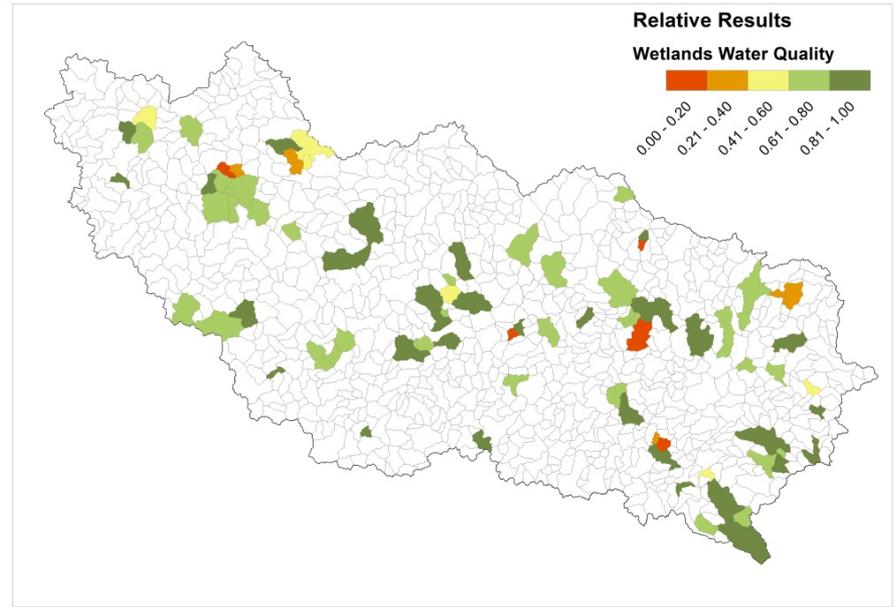
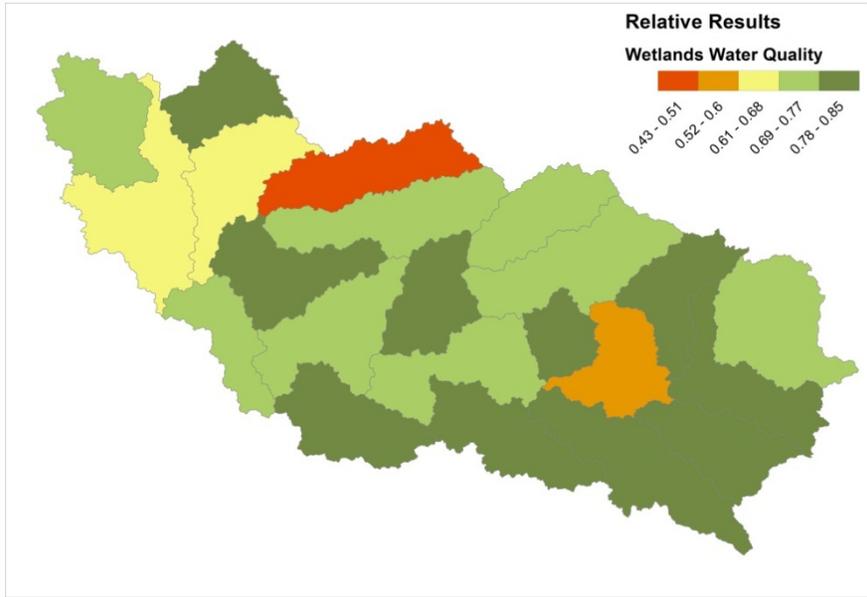
**Little variation in results
with objective method**



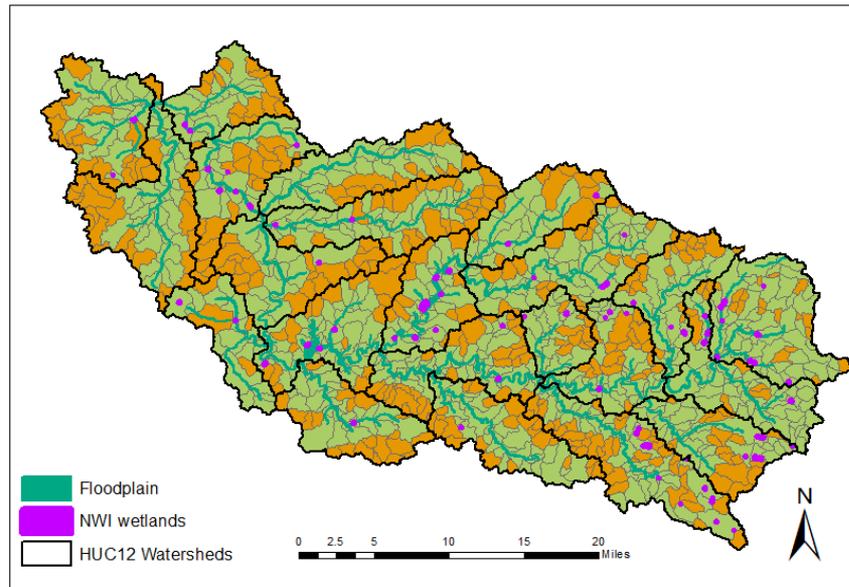
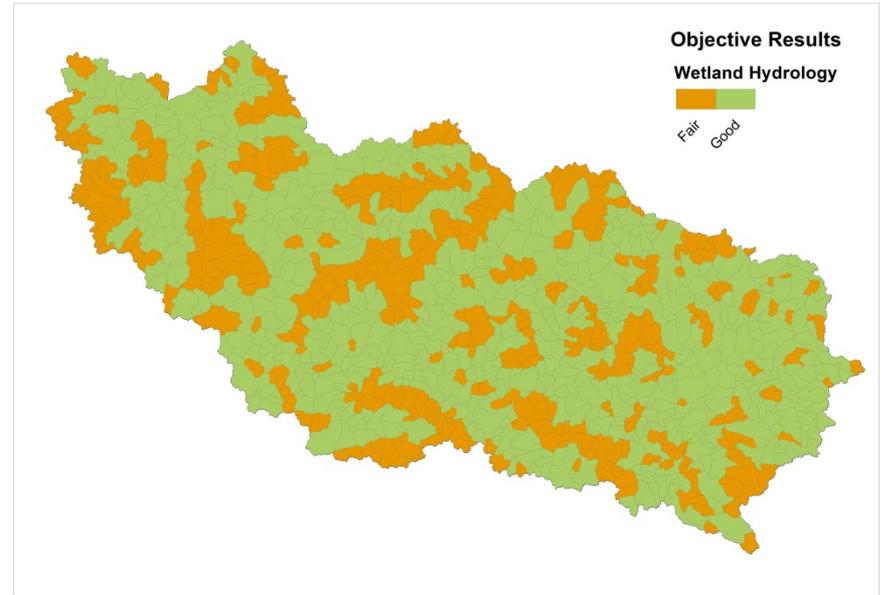
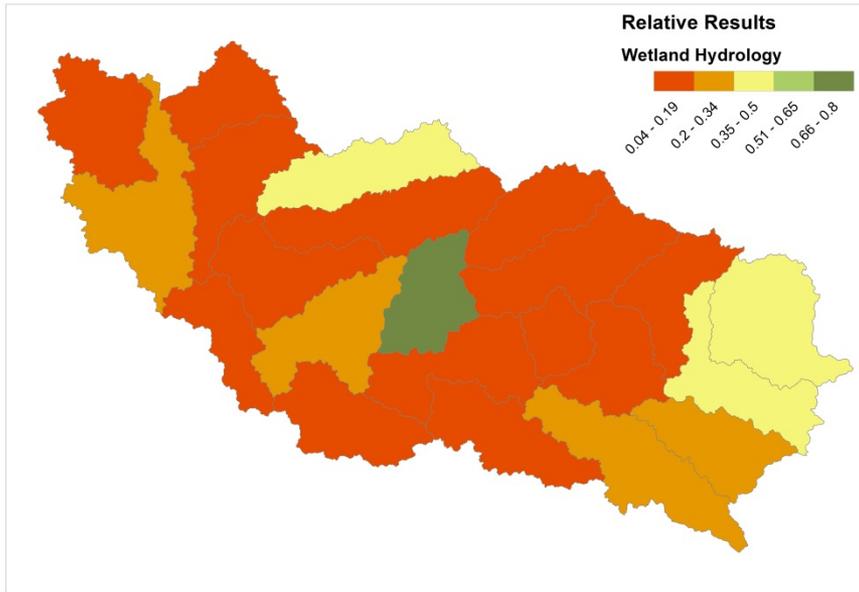
Upper Guyandotte Watershed Wetlands Overview



Wetlands: Water Quality

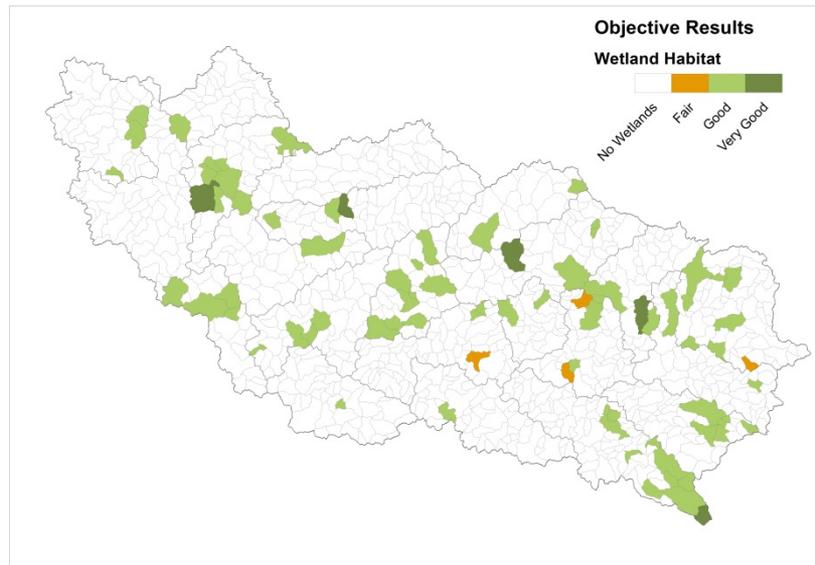
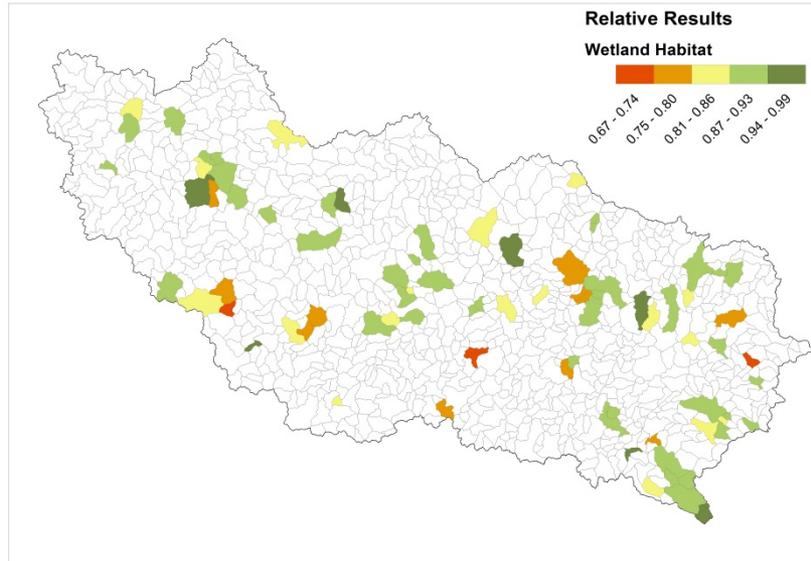


Wetlands: Hydrology

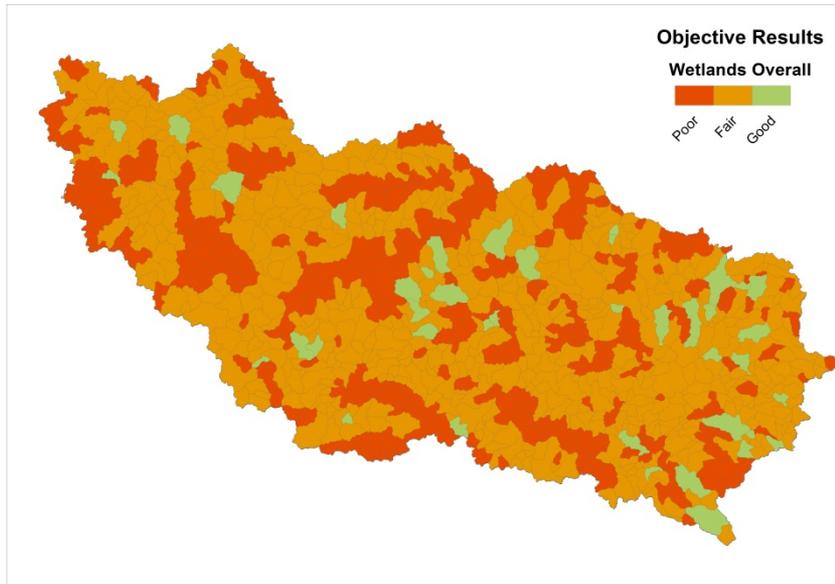
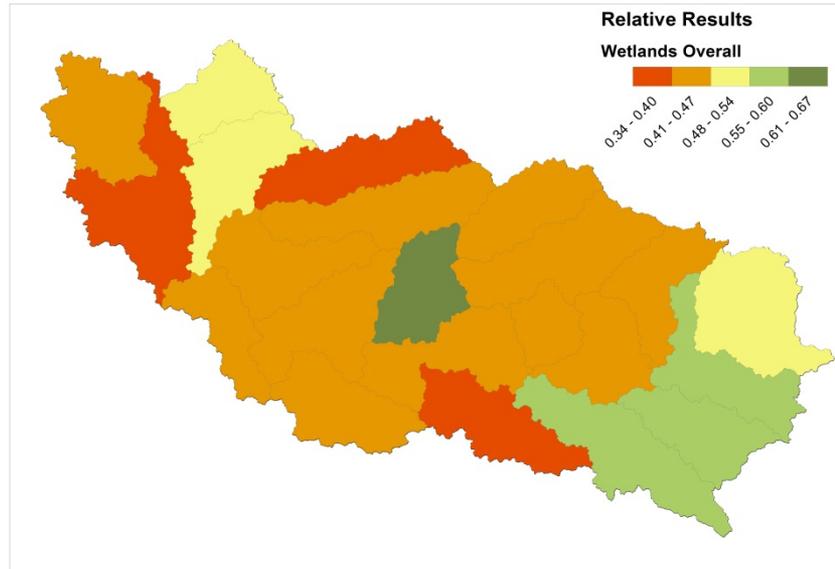


Wetland area
Forested wetlands
Floodplain
Hydric soils

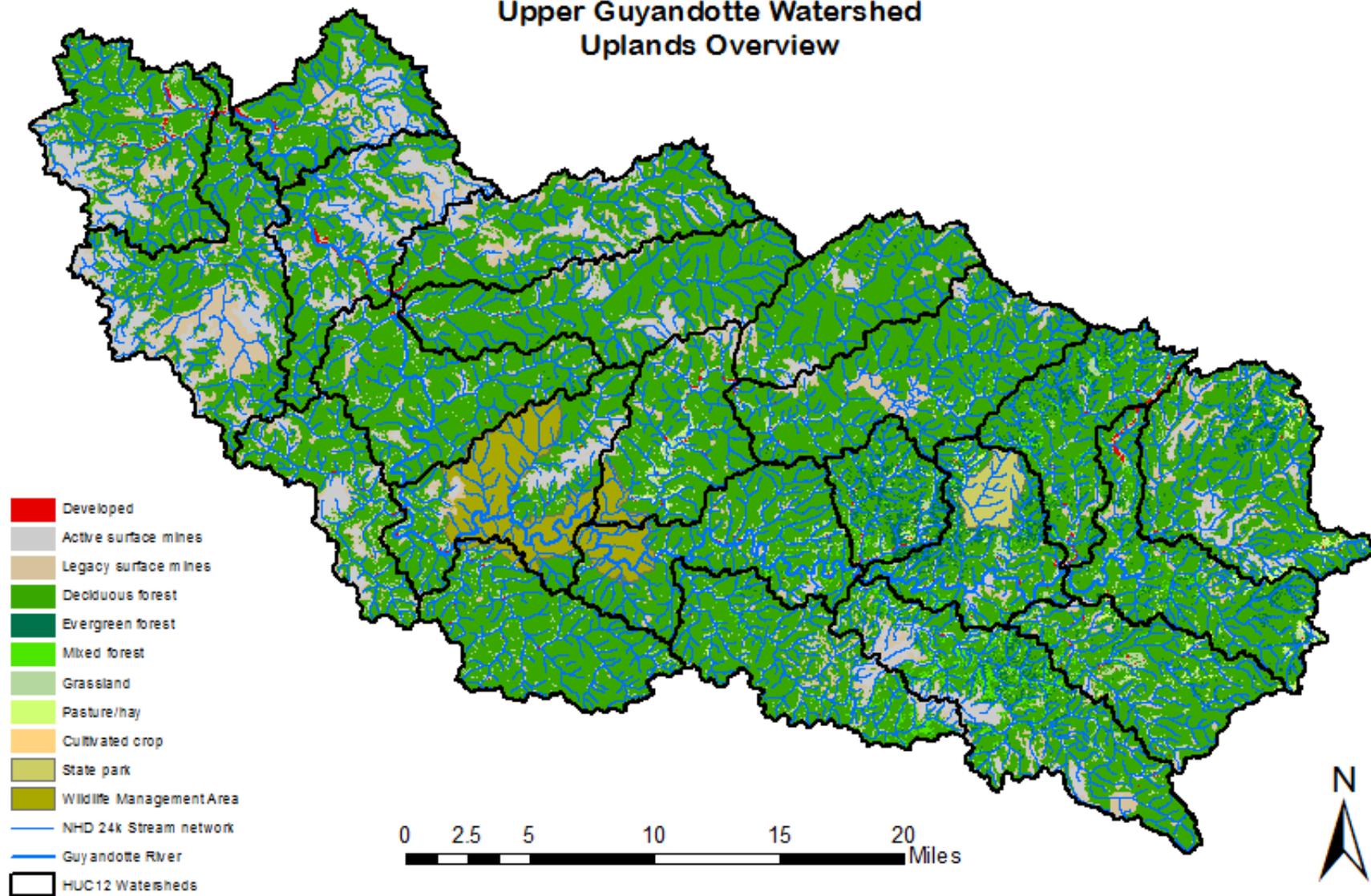
Wetlands: Wetland Habitat



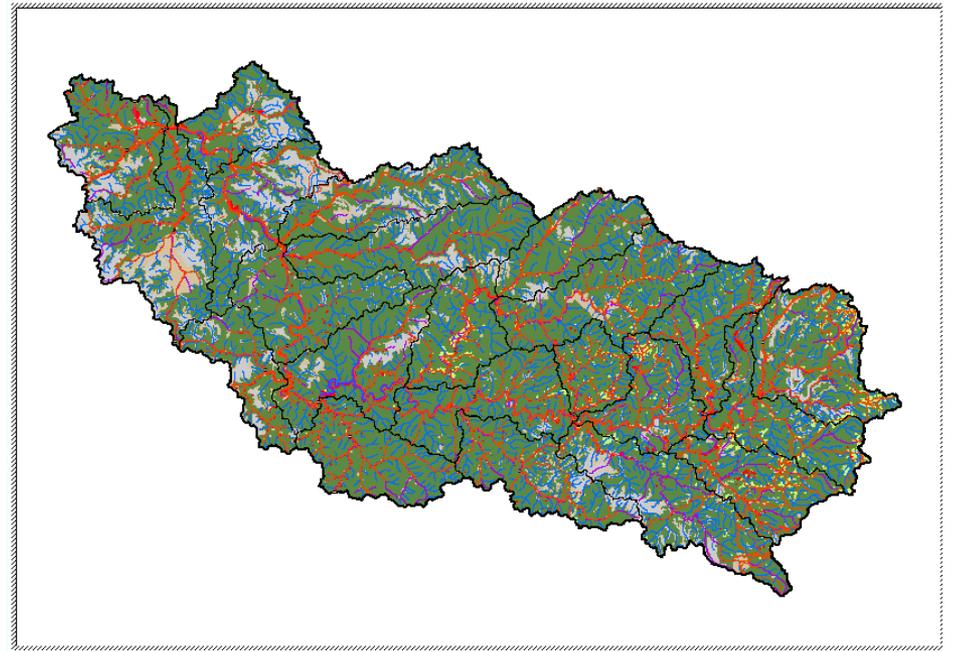
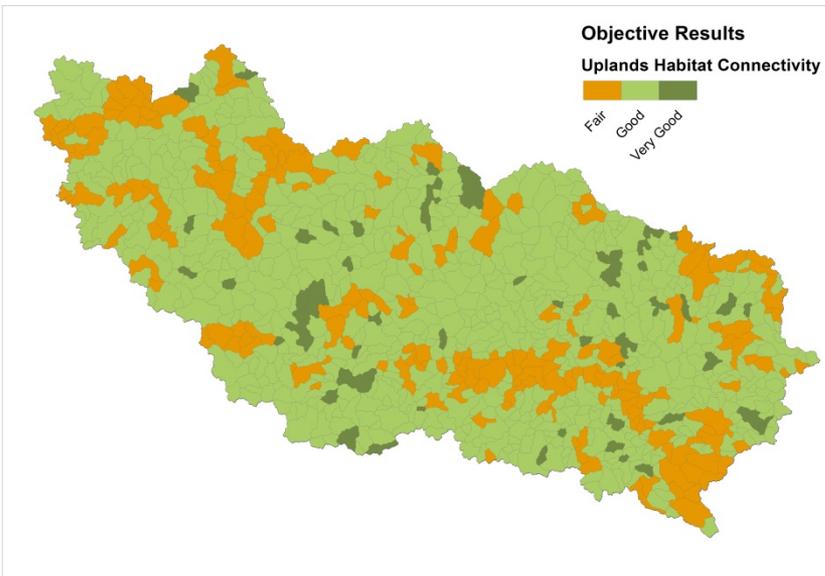
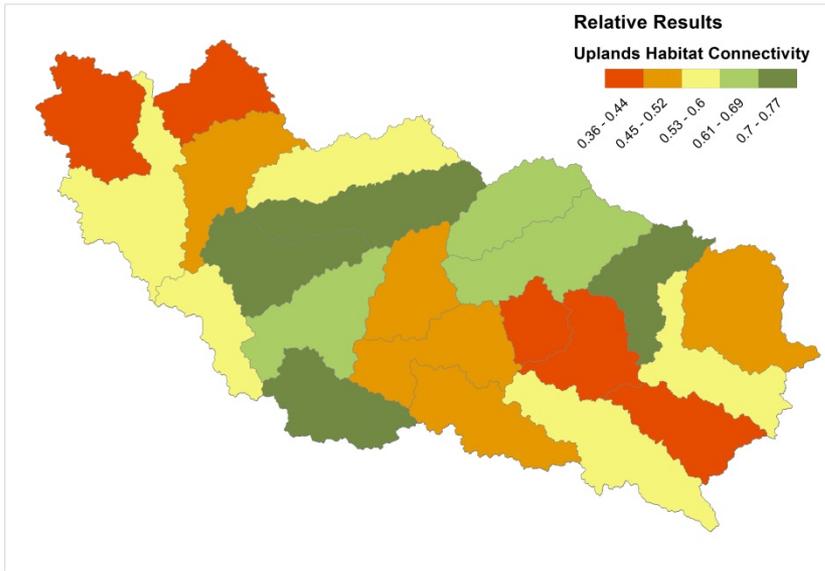
Wetlands: Overall



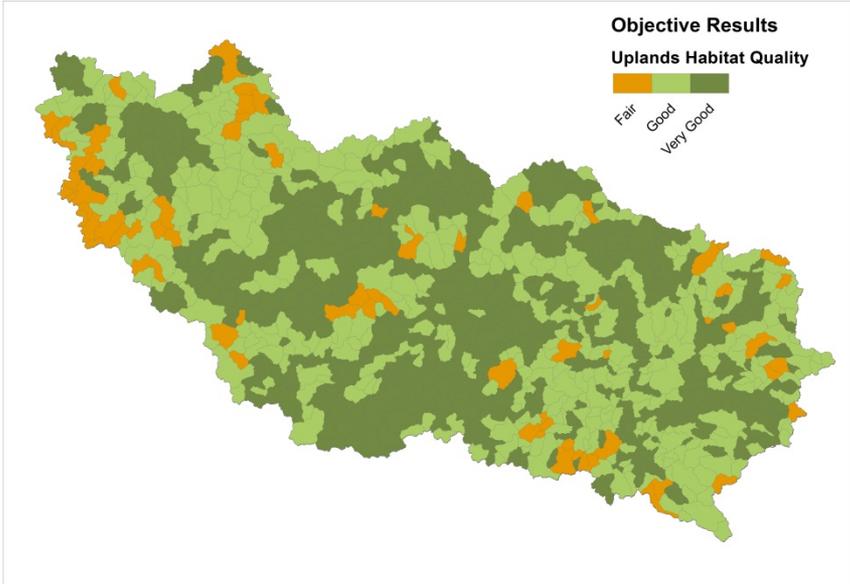
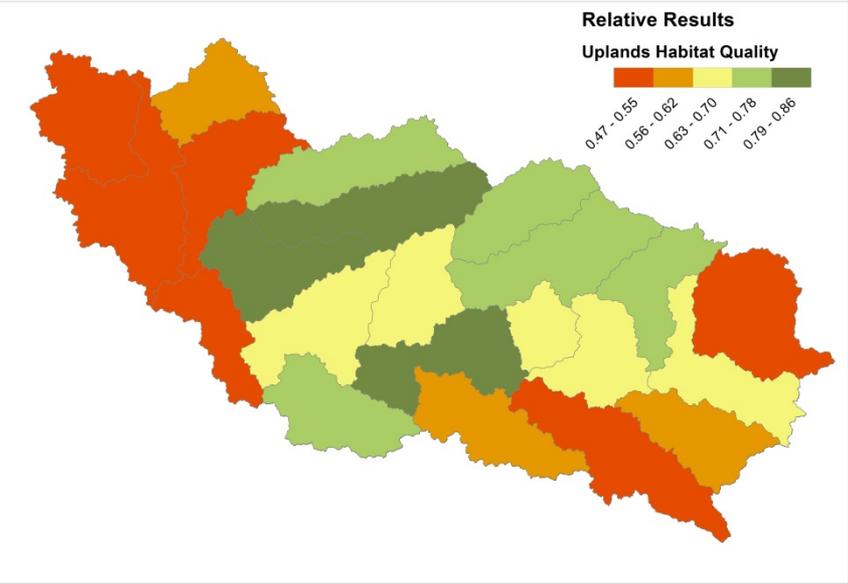
Upper Guyandotte Watershed Uplands Overview



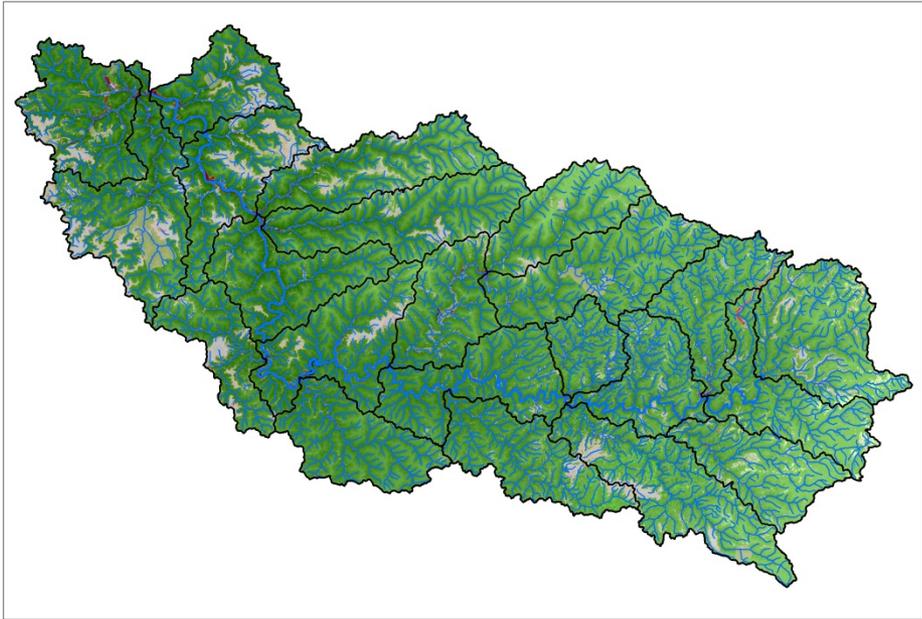
Uplands: Habitat Connectivity



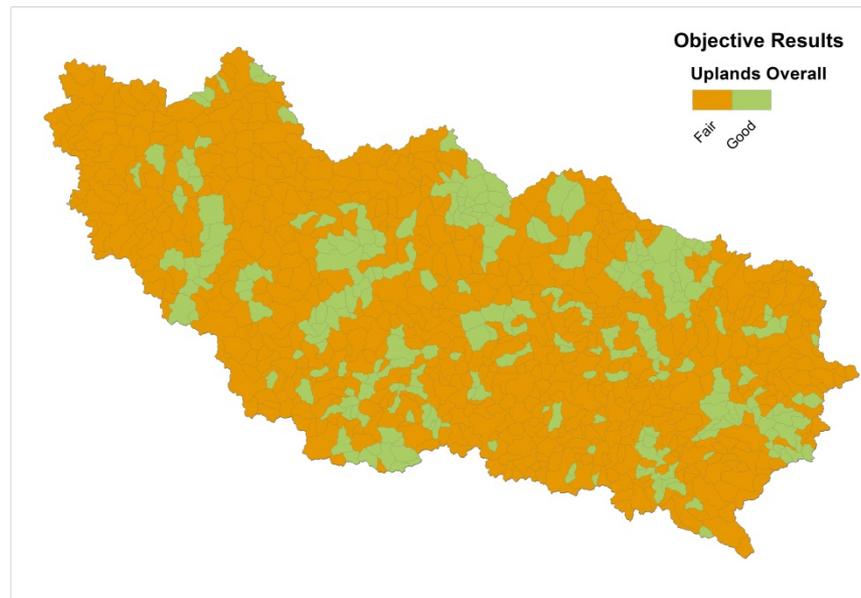
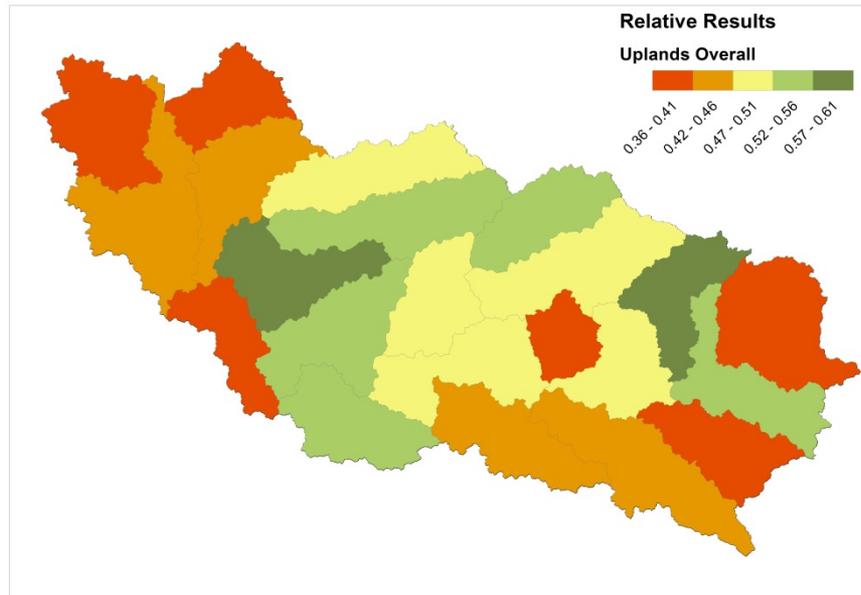
Uplands: Habitat Quality



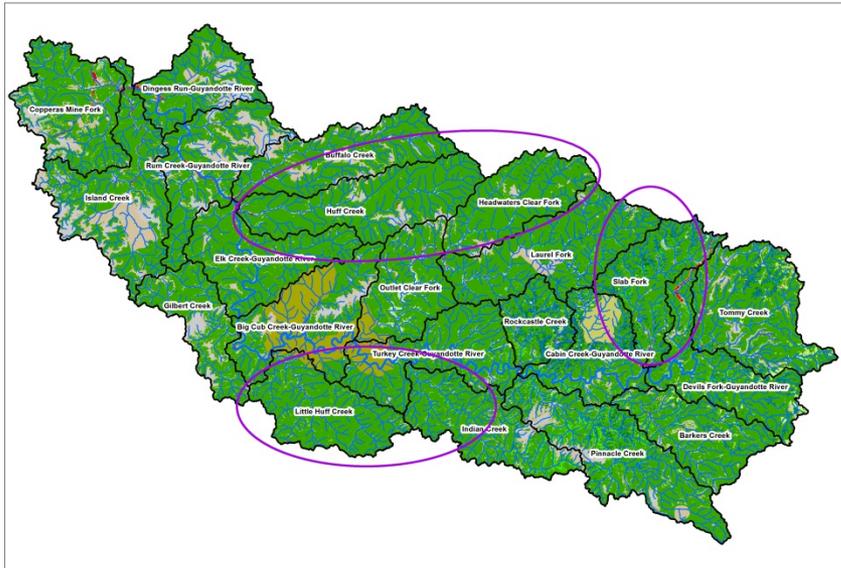
**Natural cover
Heterogeneity**



Uplands: Overall



Findings



Higher quality areas for potential protection tend to be at north and south edges of the watershed

Intermediate/fair areas for potential restoration exist throughout the watershed

