

Stakeholder Workshop: Gauley River Watershed May 8, 2013

#### Gauley River Watershed

- Watershed Overview
- 2. Current Condition Results Streams, Wetlands, Uplands
- Consolidated Analysis Results
  Threats, Opportunities
- 4. Web Map Tool Demo
  Potential Use Scenario

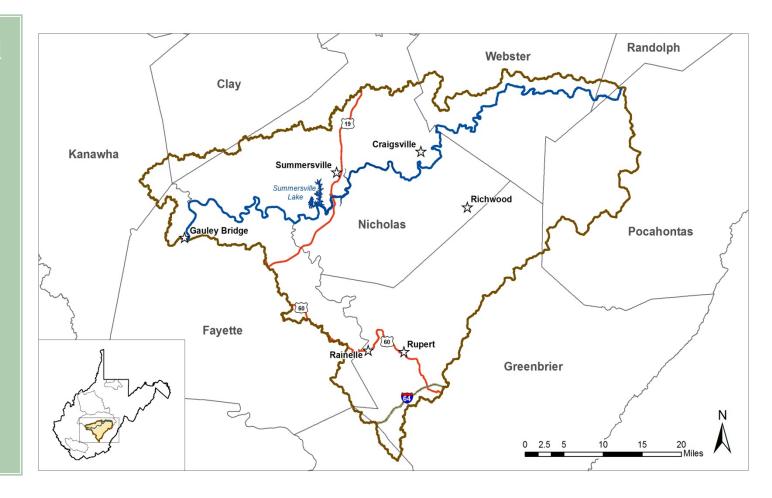
### Gauley River Watershed

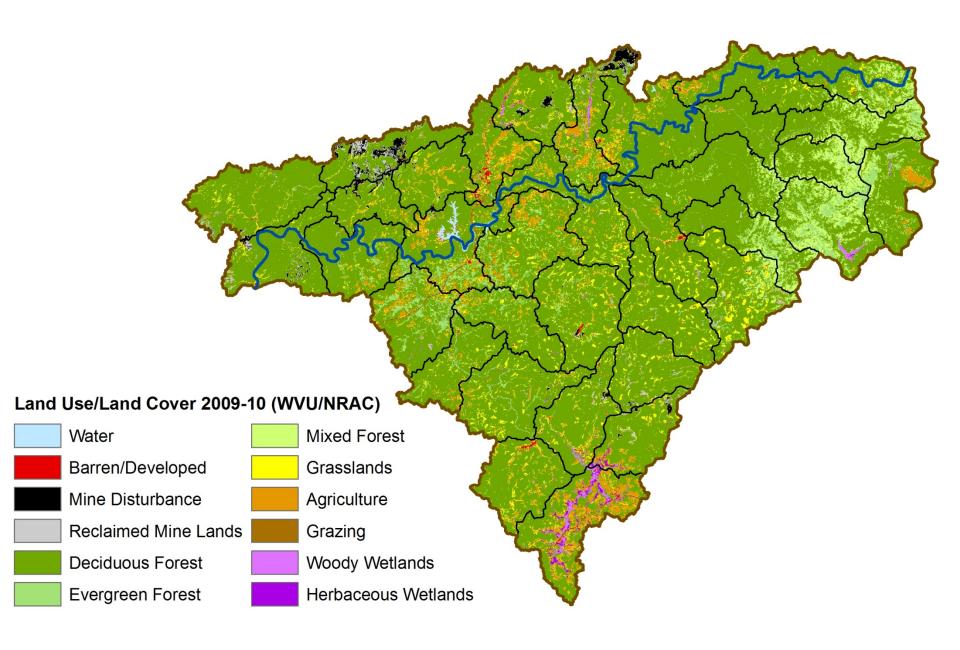
Watershed Overview:

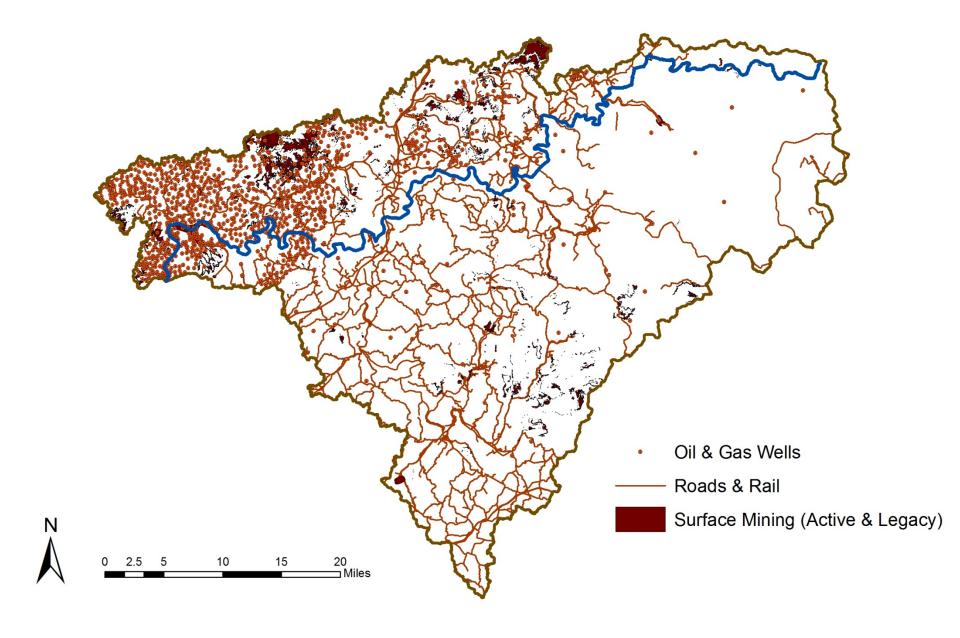
Counties

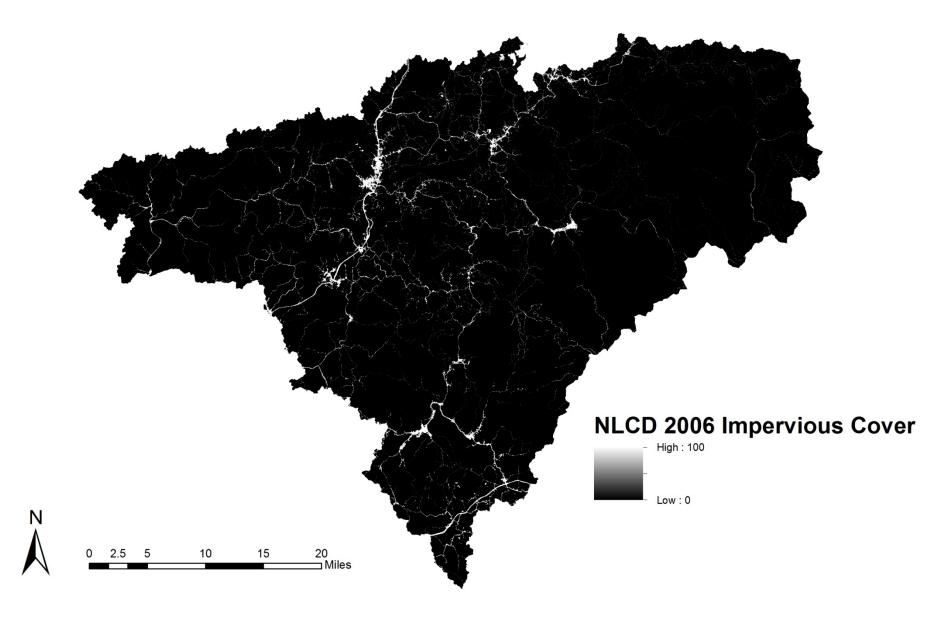
Cities & Towns

Major Roads

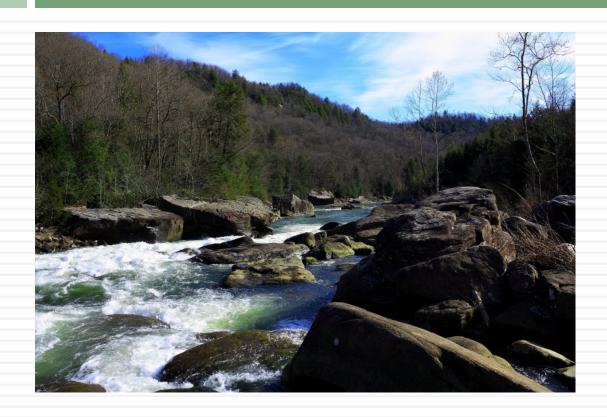


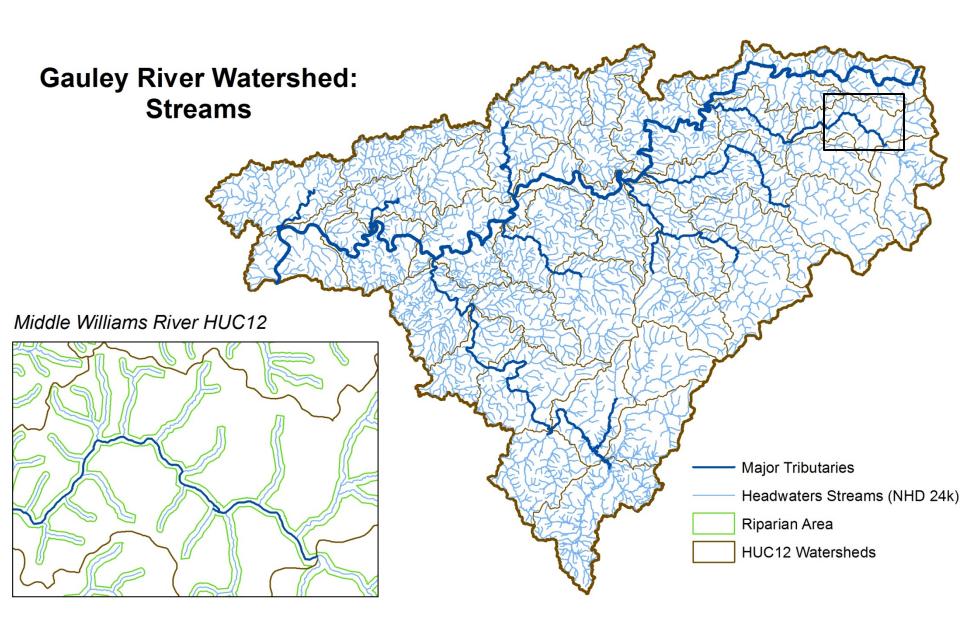


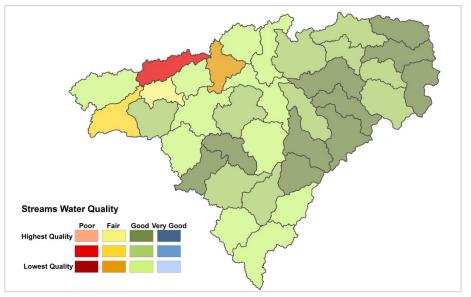


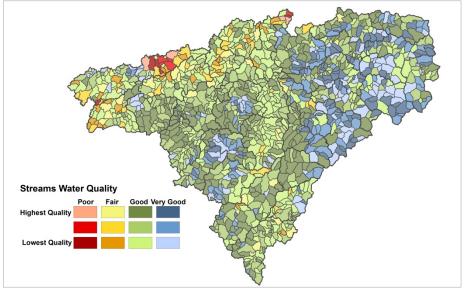


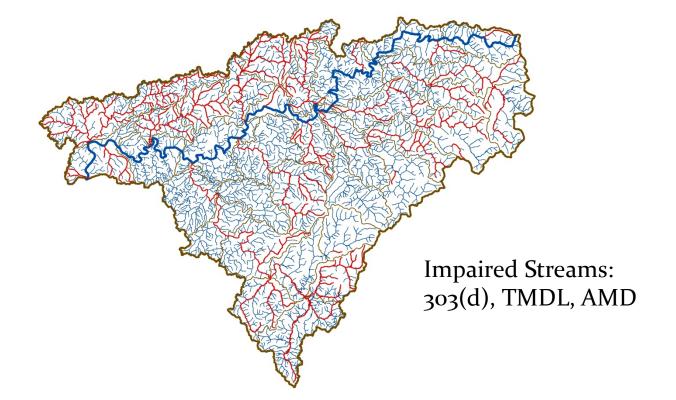
# Gauley Watershed: Streams



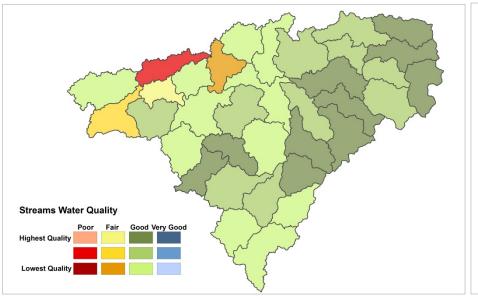


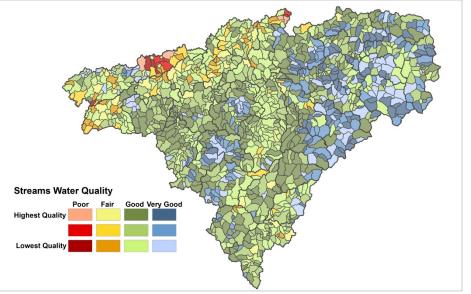


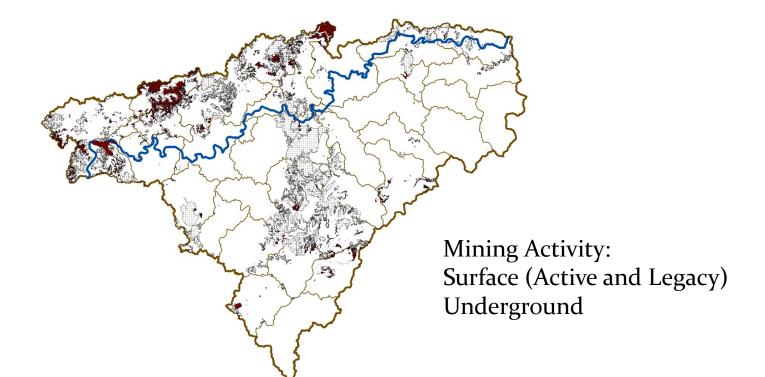




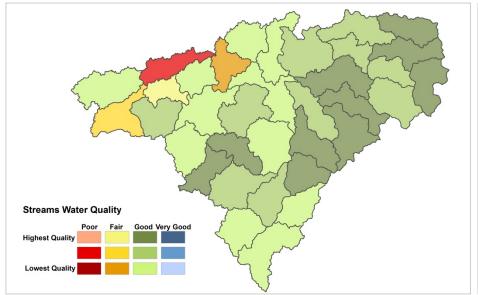
Streams Water Quality

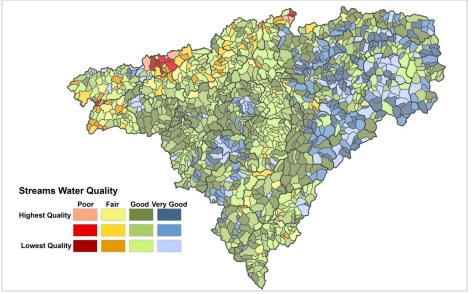






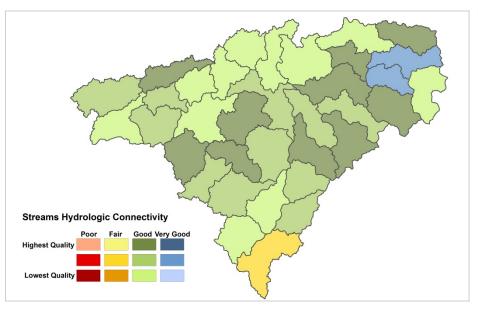
Streams
Water
Quality

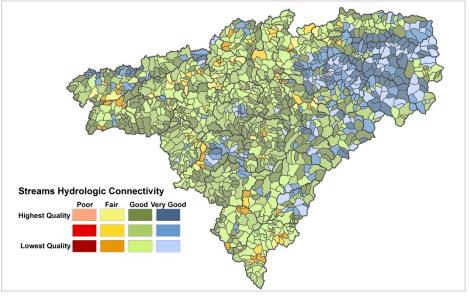


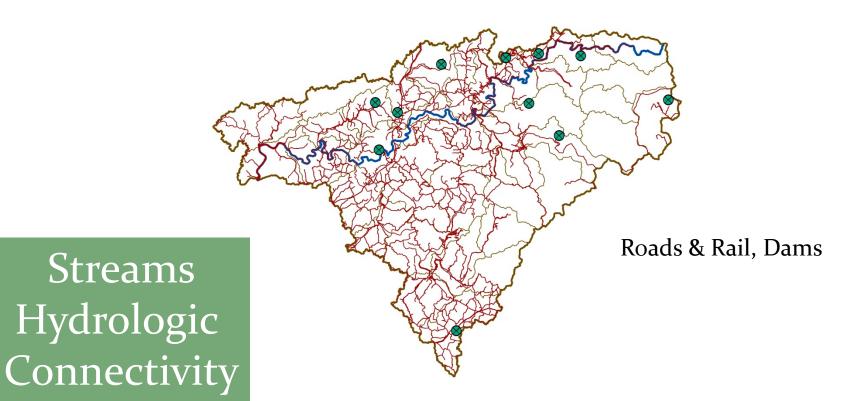


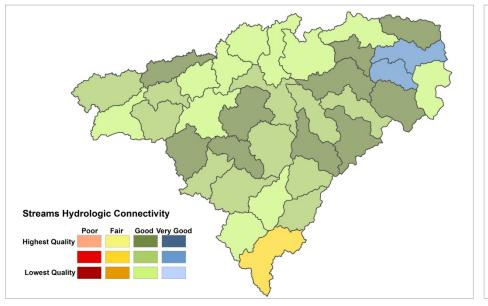


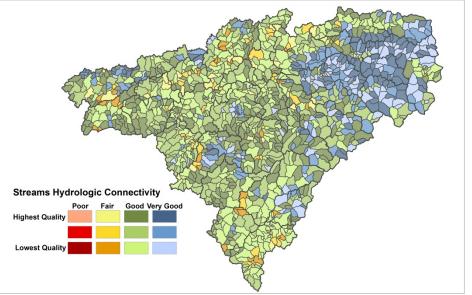
Streams Water Quality

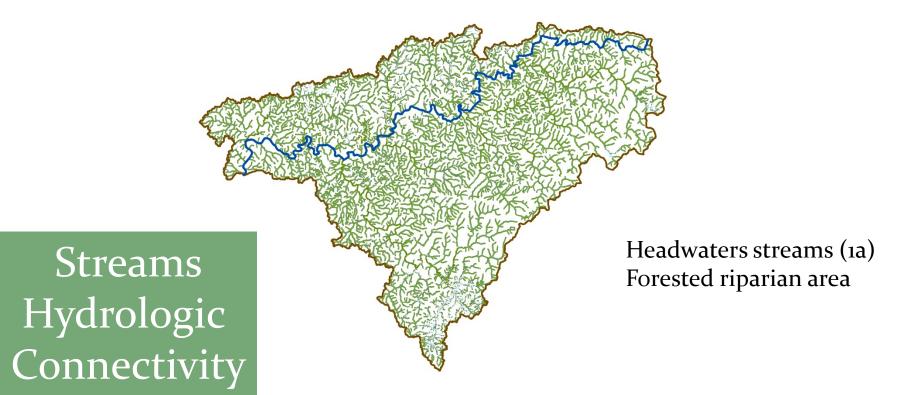


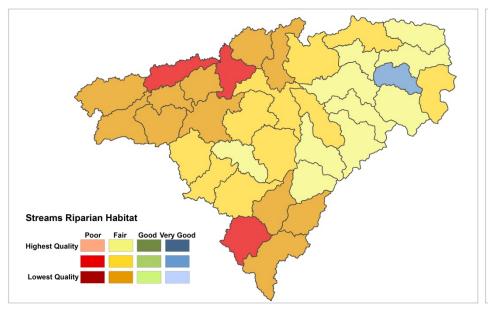


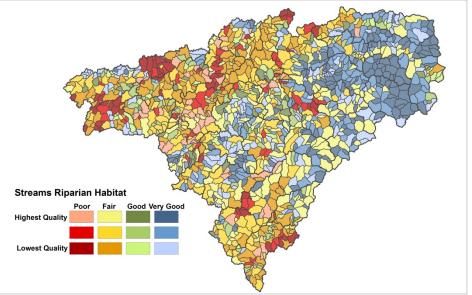






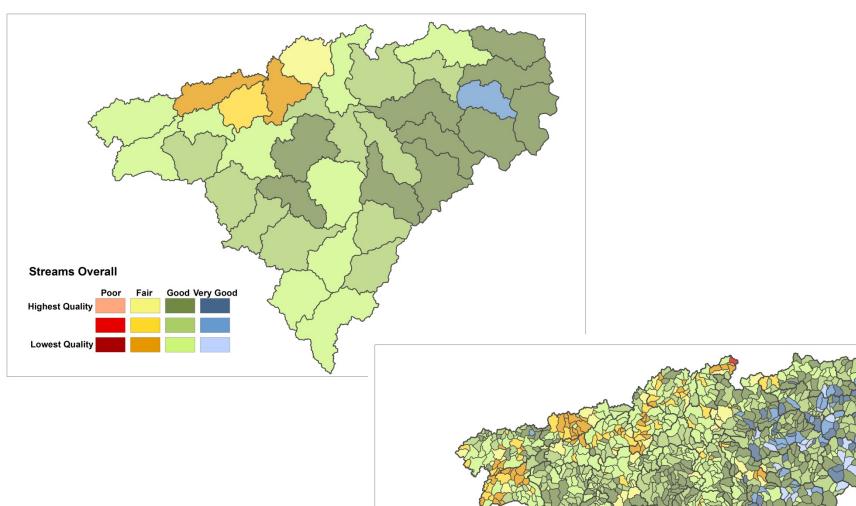








Streams Riparian Habitat



**Streams Overall** 

**Highest Quality** 

**Lowest Quality** 

Poor

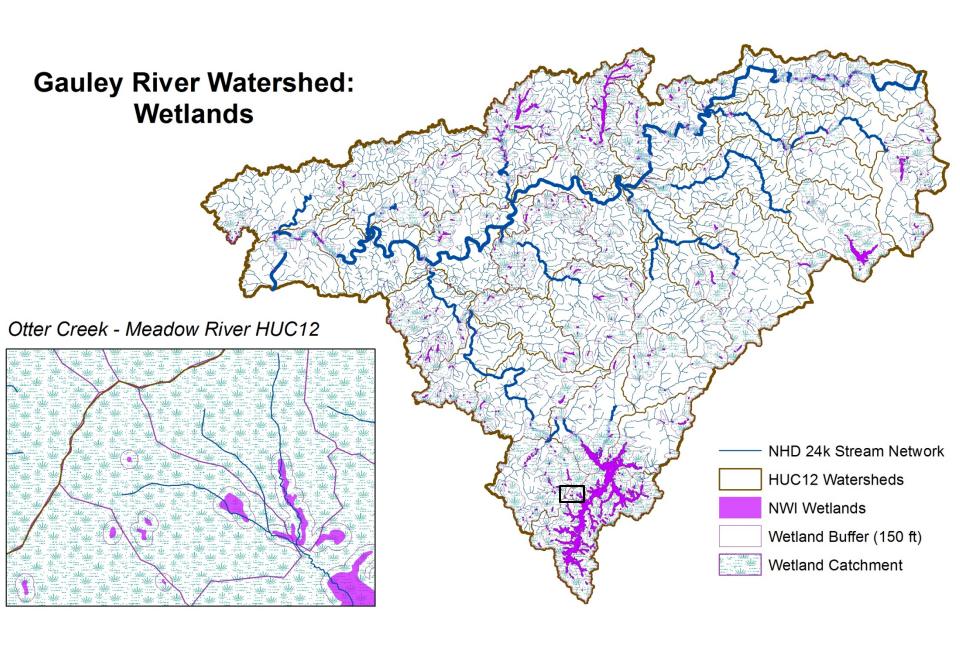
Fair

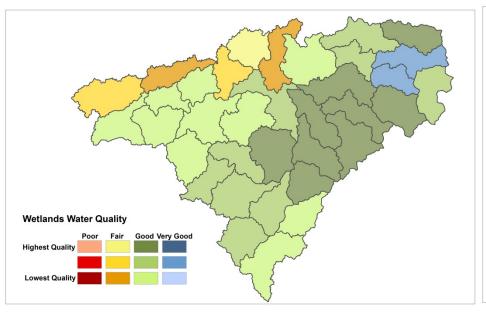
Good Very Good

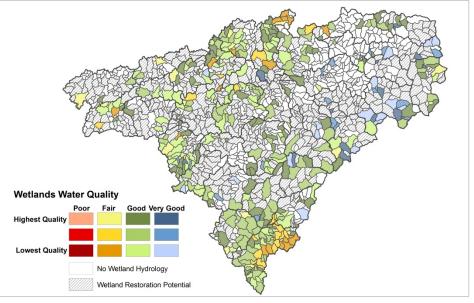
#### Streams Model Overall

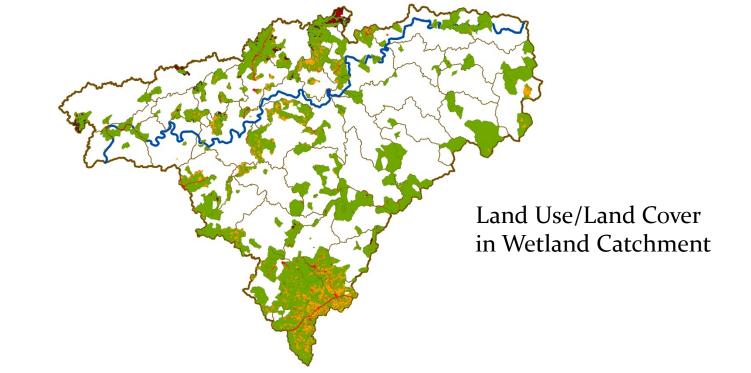
# Gauley Watershed: Wetlands



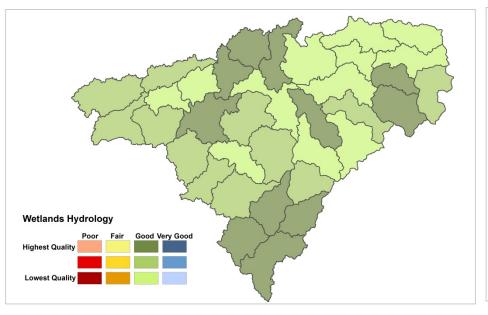


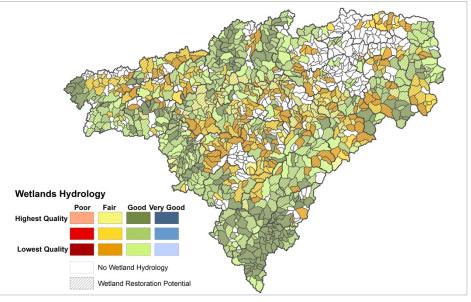


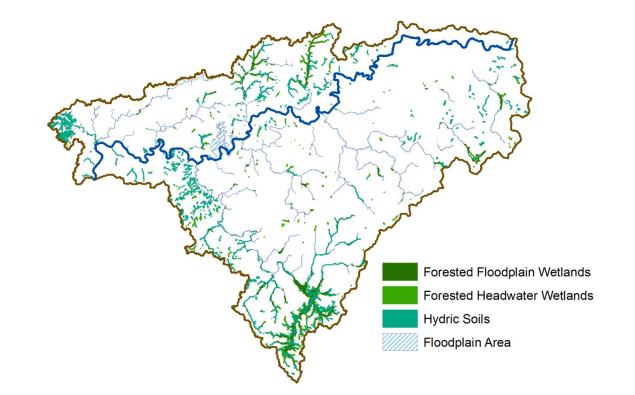




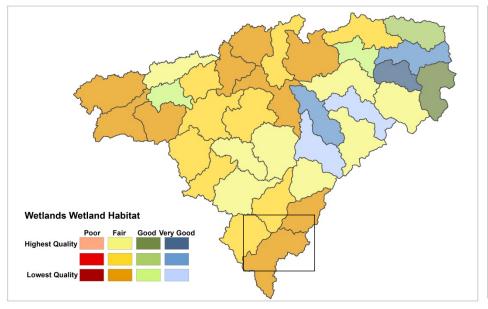
Wetlands
Water
Quality



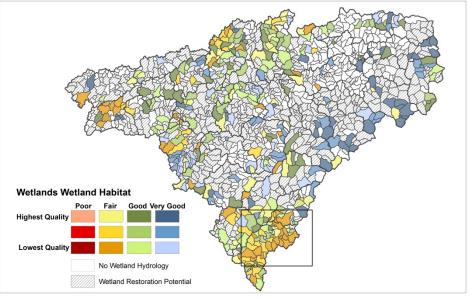


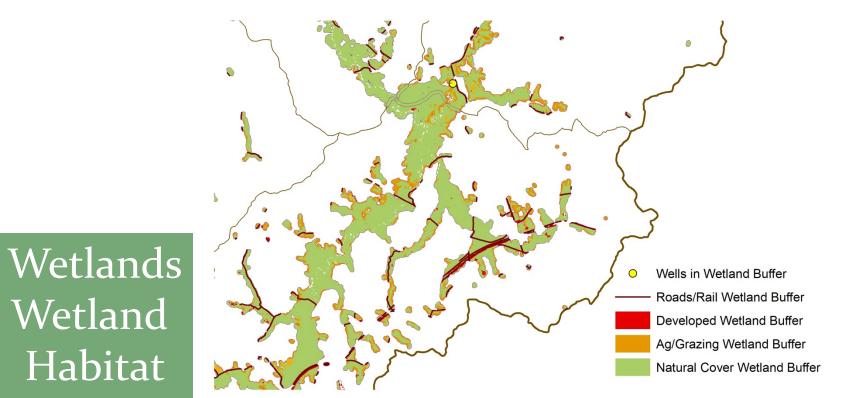


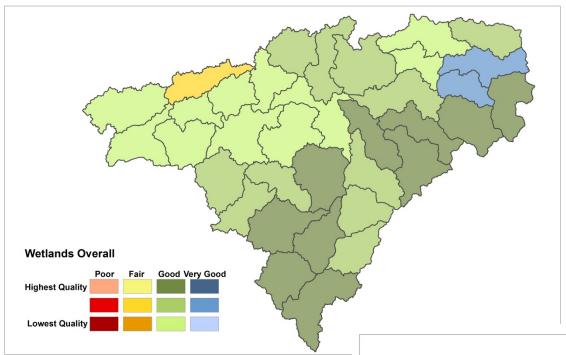
Wetlands Hydrology



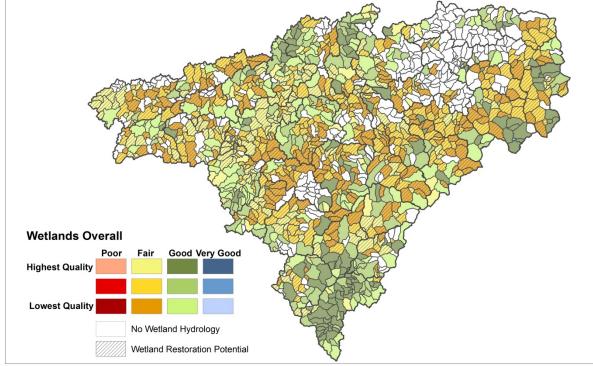
Habitat



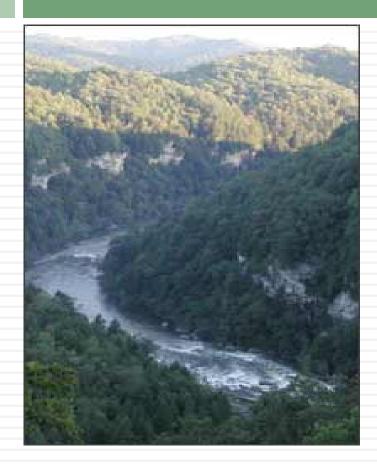


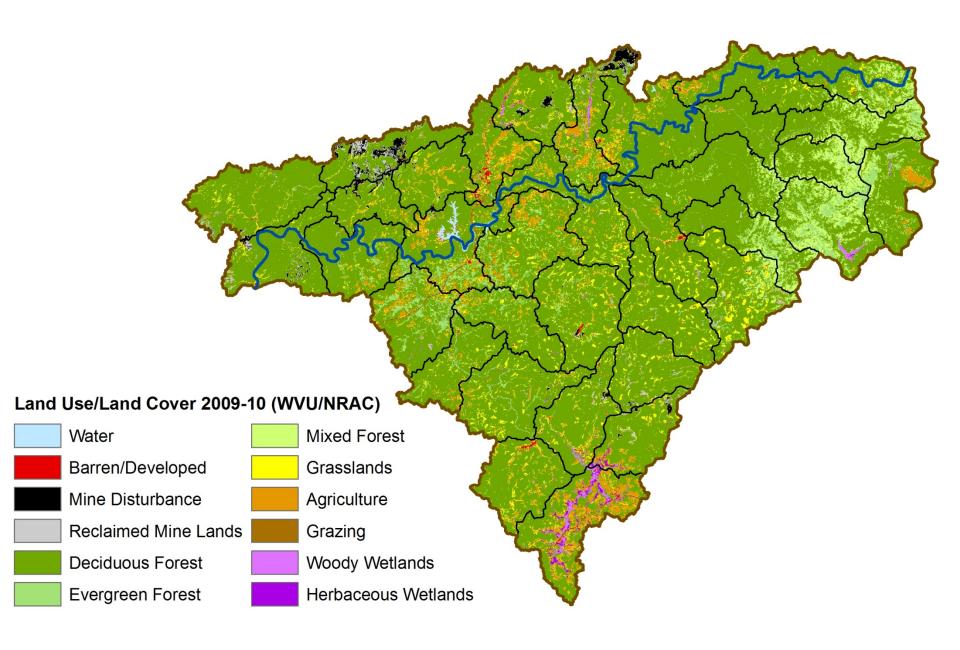


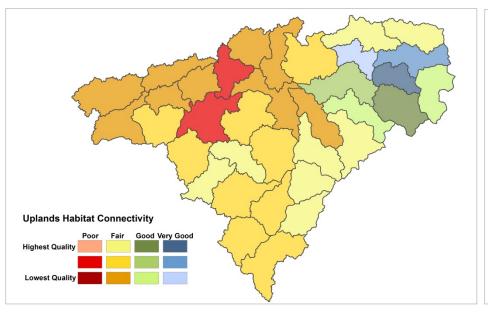
#### Wetlands Model Overall

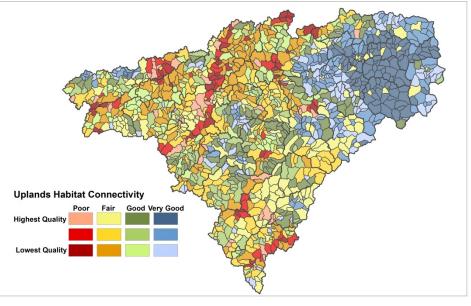


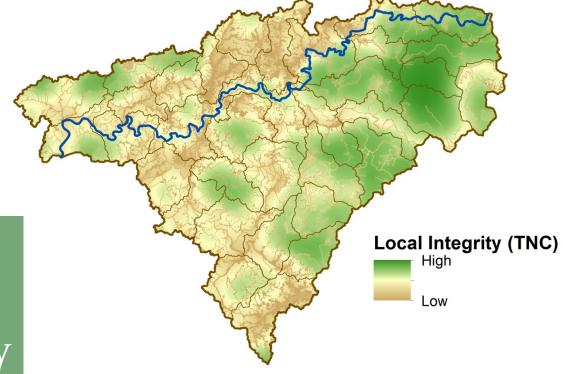
# Gauley Watershed: Uplands



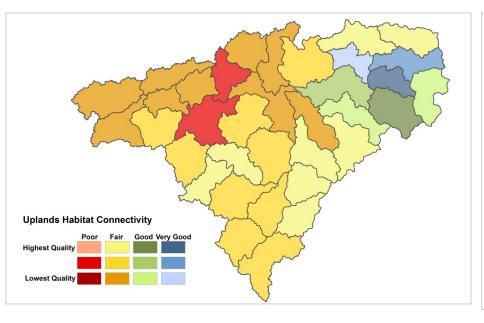


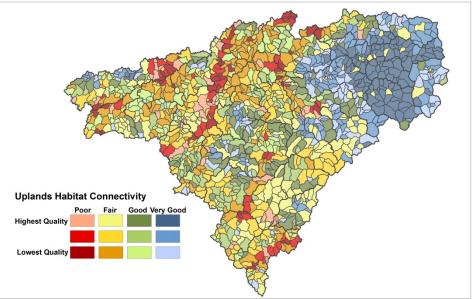


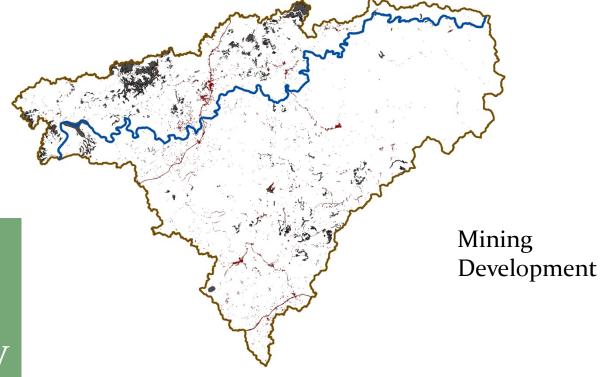




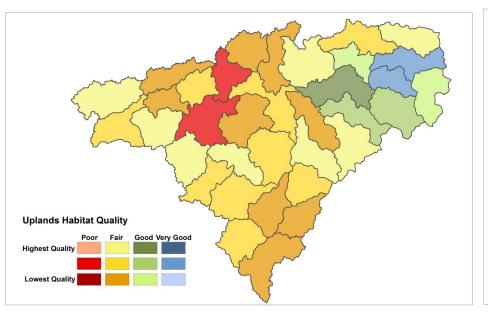
Uplands
Habitat
Connectivity

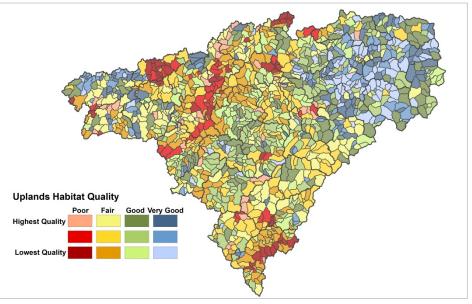


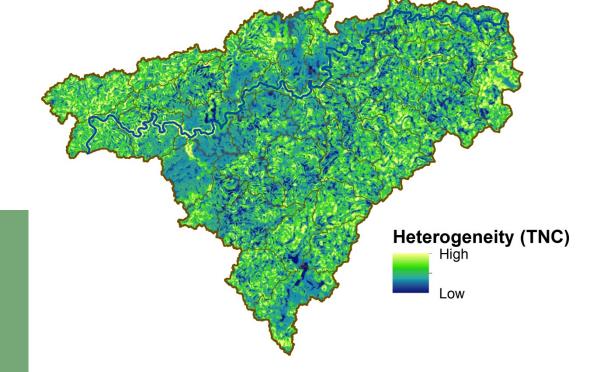




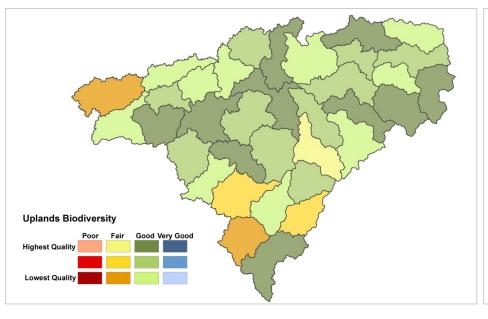
Uplands
Habitat
Connectivity

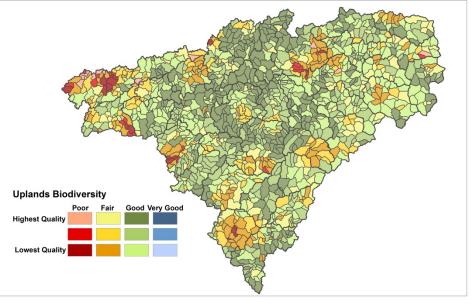


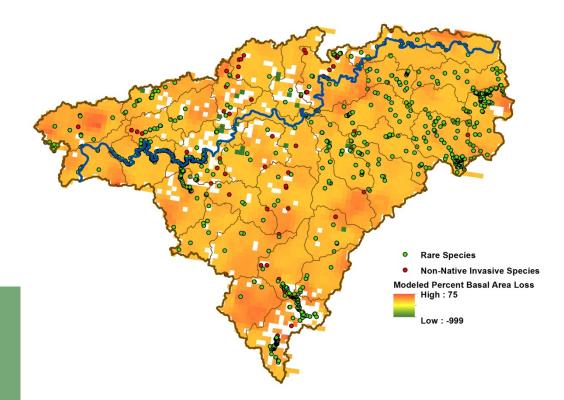




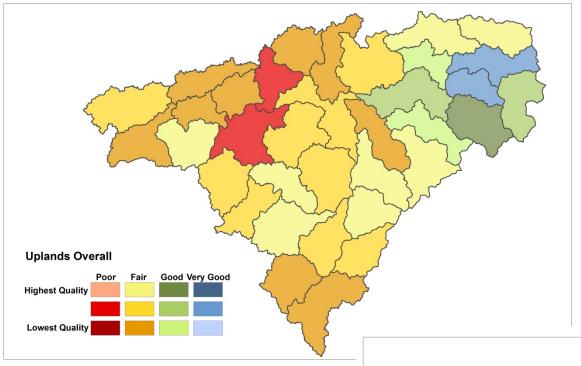
Uplands Habitat Quality

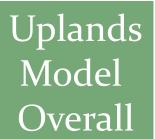


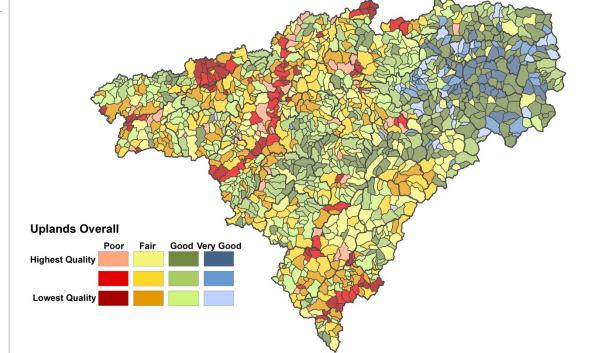




Uplands Biodiversity







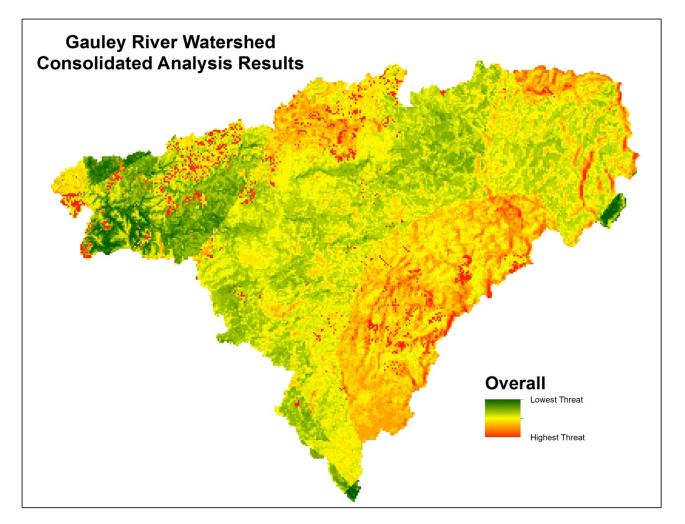


COMMENTS/QUESTIONS?

### Gauley Watershed: Consolidated Analysis



Gauley River © www.ytravelblog.com

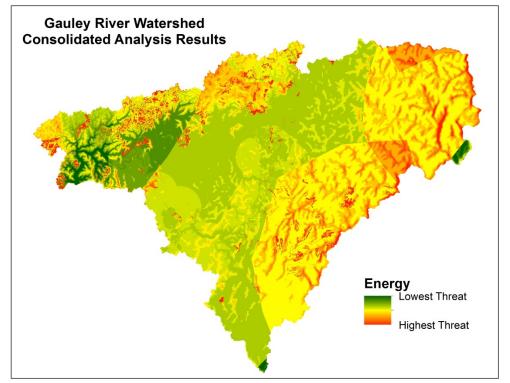


Consolidated
Analysis
Overall

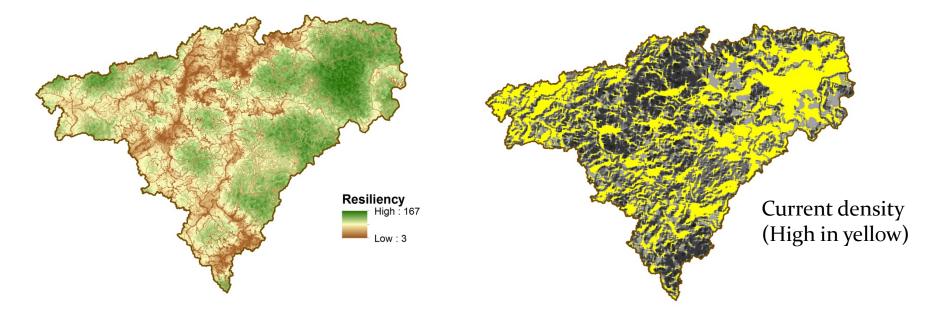
Energy: Unmined coal, Marcellus shale thickness, Wind development potential, Proposed transmission lines/pipelines/power plants/wind, Geothermal development potential

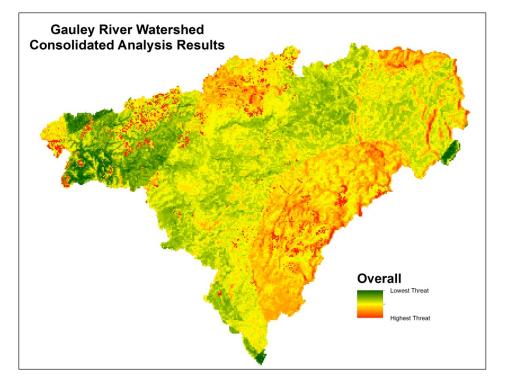
**Population/Development:** Population projections **Climate Change**: TNC Resiliency & Current density models



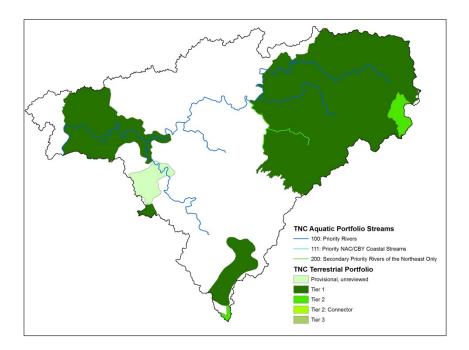


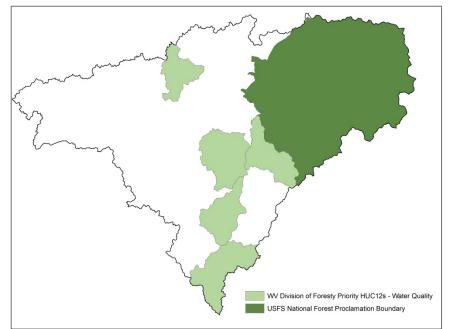
Consolidated
Analysis
Energy

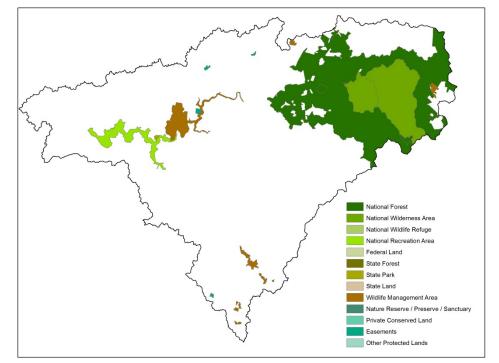




Consolidated
Analysis
Climate Change







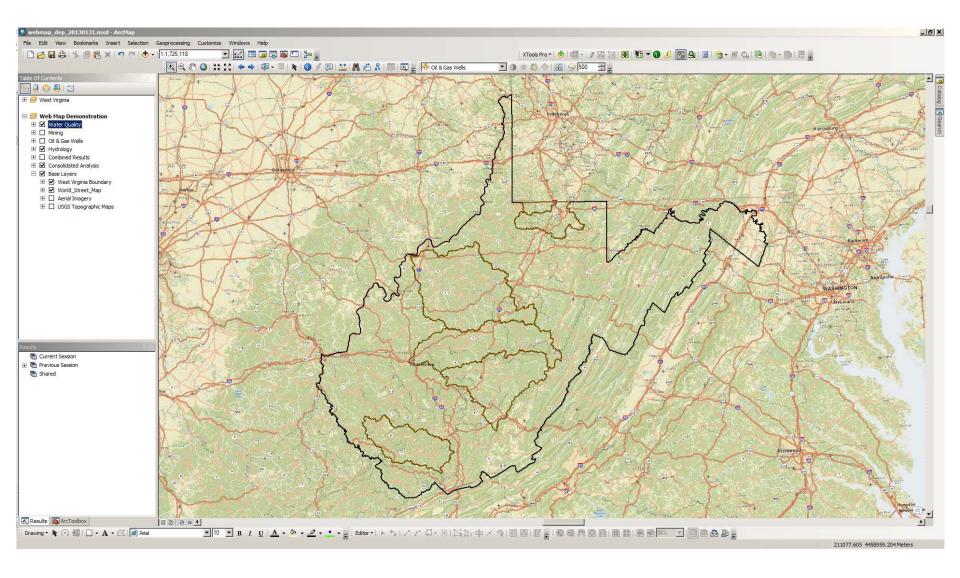
Consolidated
Analysis
Opportunities

# Web Map Tool Demo

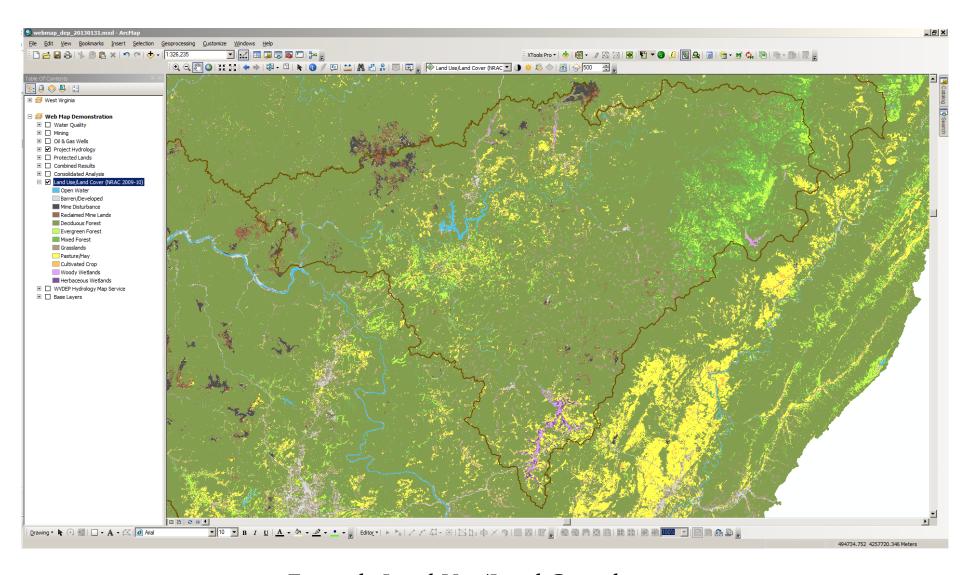


## Web Map Base Layers

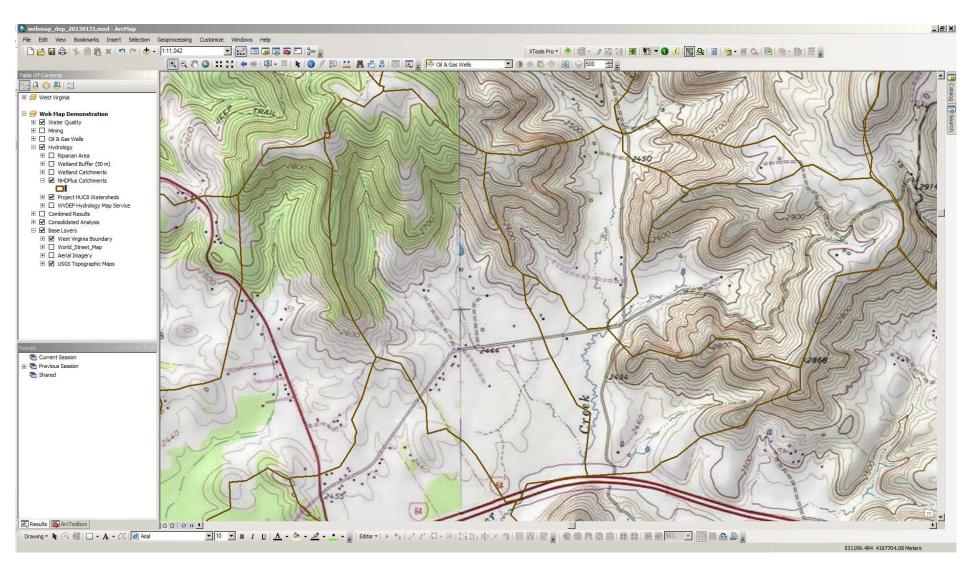
- Political boundaries
- 2. Hydrography
- Land use/land cover
- 4. Topographic maps
- 5. Aerial imagery
- 6. Elevation/Shaded relief



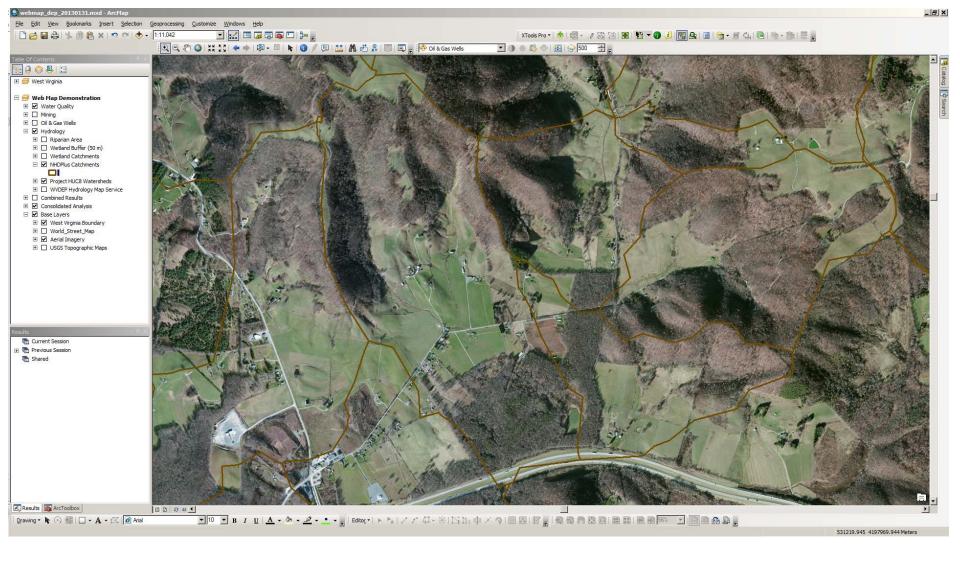
Example Streets base map (with 5 Pilot HUC8 Watersheds)



Example Land Use/Land Cover base map (zoomed to Gauley watershed level)



Example USGS topos base map (zoomed to Catchment level)

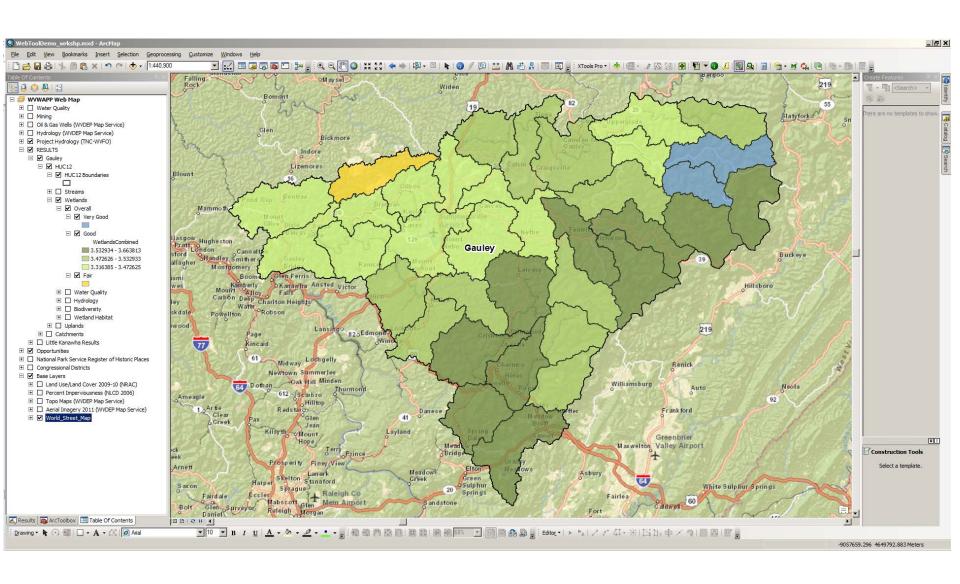


Example Imagery base map (zoomed to Catchment level)

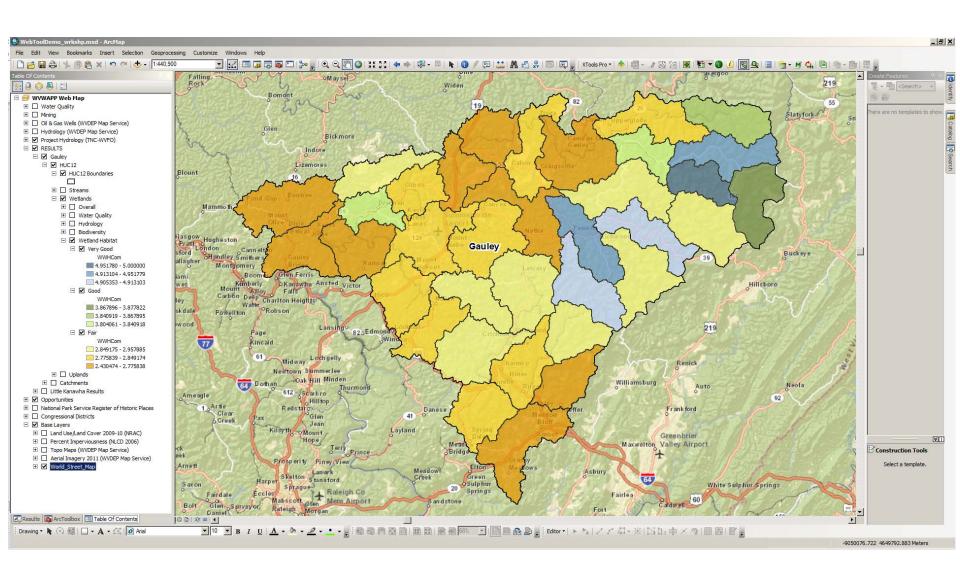
## Potential Use Scenario

Gauley River Watershed Wetlands Restoration

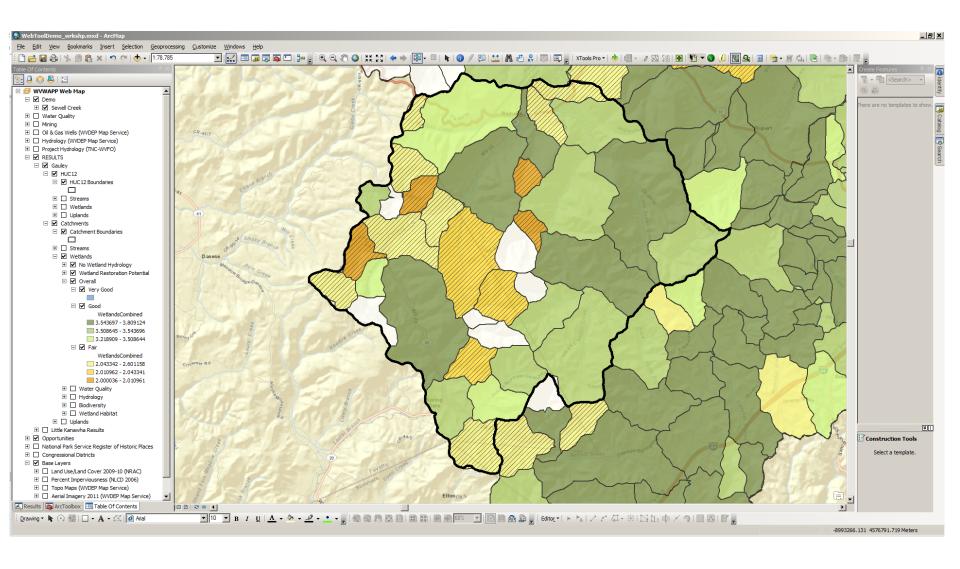




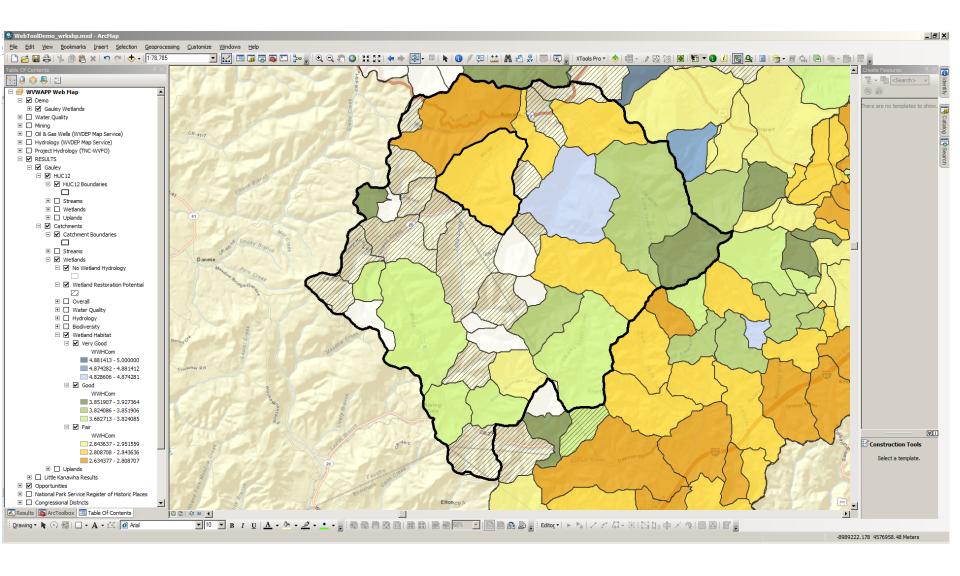
Gauley - HUC12 Level Wetlands Overall Combined Results



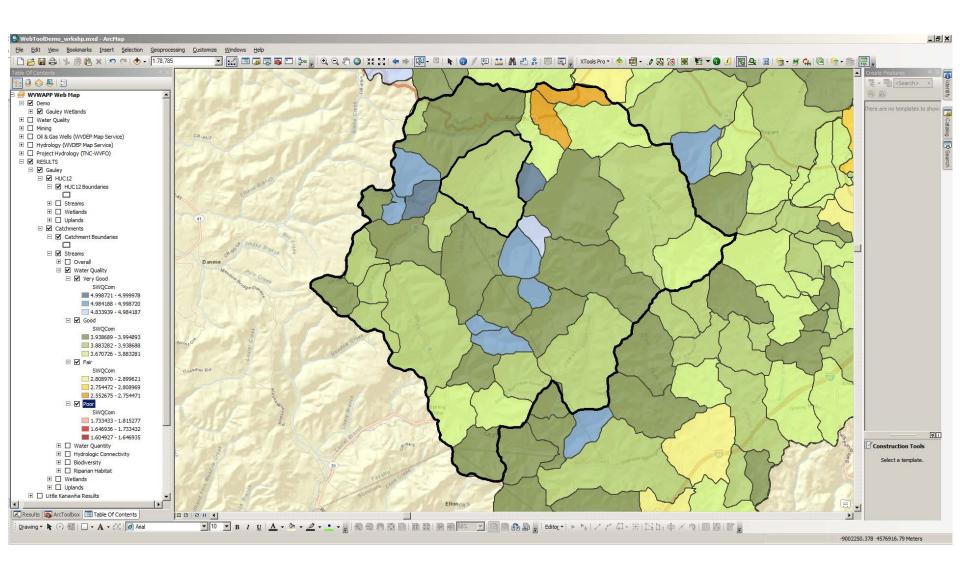
Gauley – HUC12 Level Wetlands Wetland Habitat Combined Results



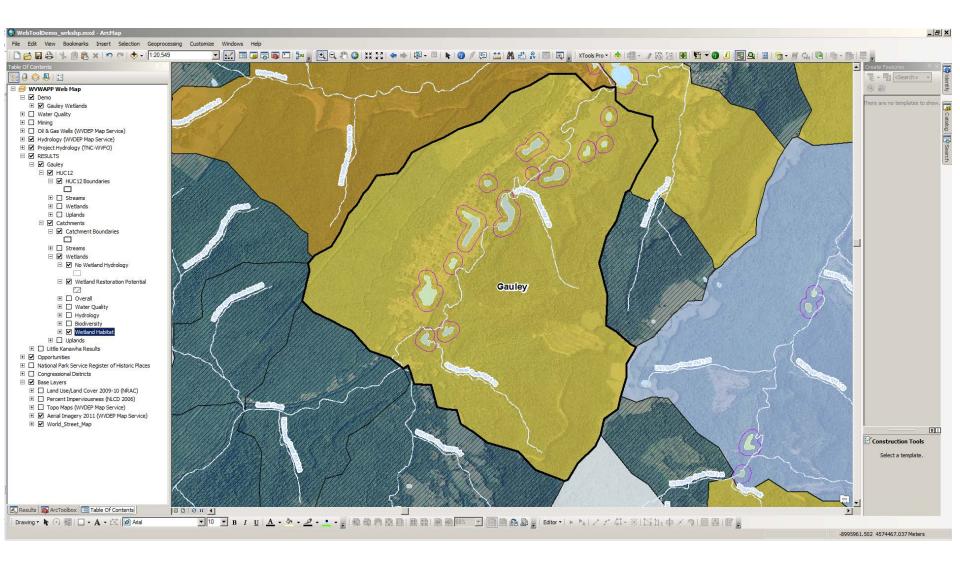
Sewell Creek – Catchment Level Wetlands Overall Results



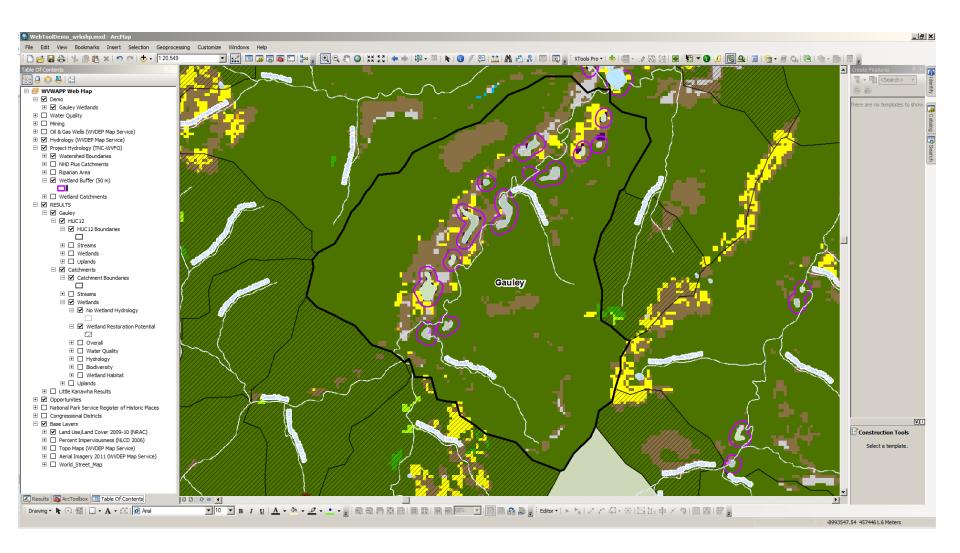
Sewell Creek – Catchment Level Wetlands Wetland Habitat Results



Sewell Creek- Catchment Level Streams Water Quality Results



Sewell Creek - Catchment Level Wetlands Wetland Habitat Results Aerial Imagery & NWI Wetlands; Wetland Buffer



Sewell Creek – Catchment Level Wetlands Wetland Habitat Results WVU-NRAC LULC 2009-10



## COMMENTS/QUESTIONS?