



Data Assembly

Types of Data

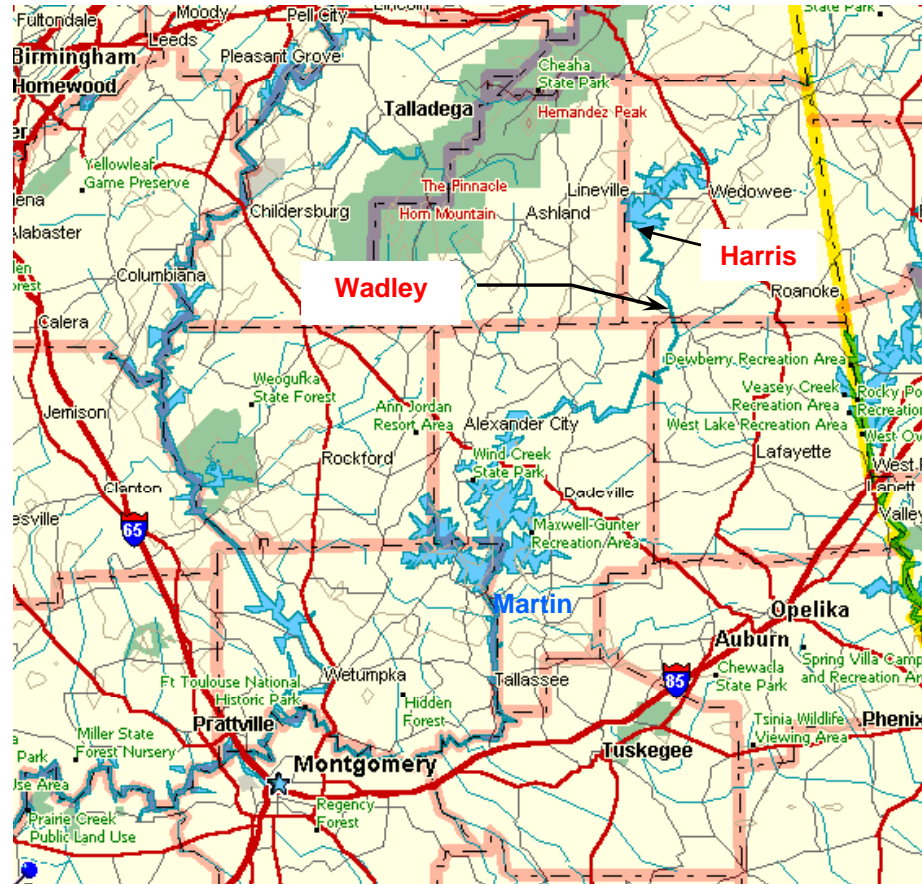
- **Hydrologic**
 - Flow data (peaks & volume)
 - Hydrographs (time series)
 - Reservoir inflows and releases
- **Hydraulic**
 - River stages
 - Pool levels
 - High water profiles
 - Roughness values
- **Geometric**
 - Channel sections
 - Floodplain topography
 - Bridges & encroachments
- **Reservoir Description**
 - Storage relations
 - Structural features
 - Easement limits
 - Operational requirements

Hydrologic and Hydraulic Data

- **Sources: COE, USGS, local governments and APC databases**
- **Types of flow and stage data:**
 - Long term time series
 - Short term time series - Special Events
- **Operational Records of Dams**
 - Pool Elevation time series
 - Releases time series
 - Inflows time series

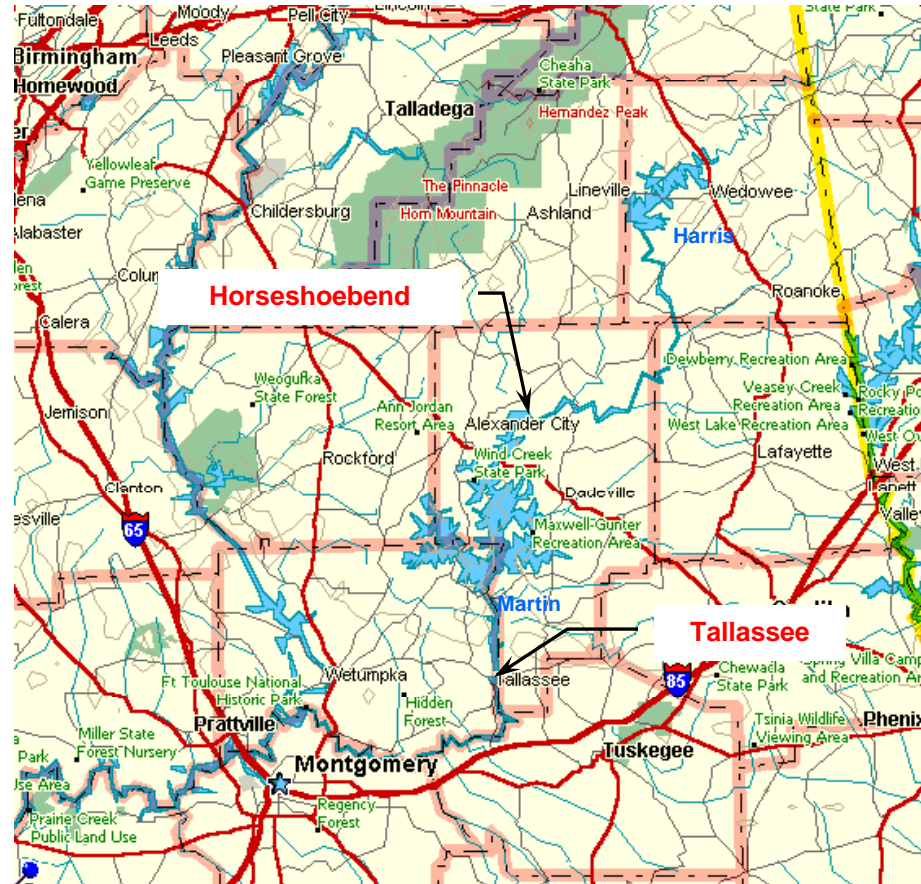
Gage Sites – Tallapoosa River

- **Harris tailwater**
 - APC records
 - 1983 to present
 - Flow & Stage
- **Wadley**
 - USGS Gage
 - 1923 to present
 - Flow & Stage



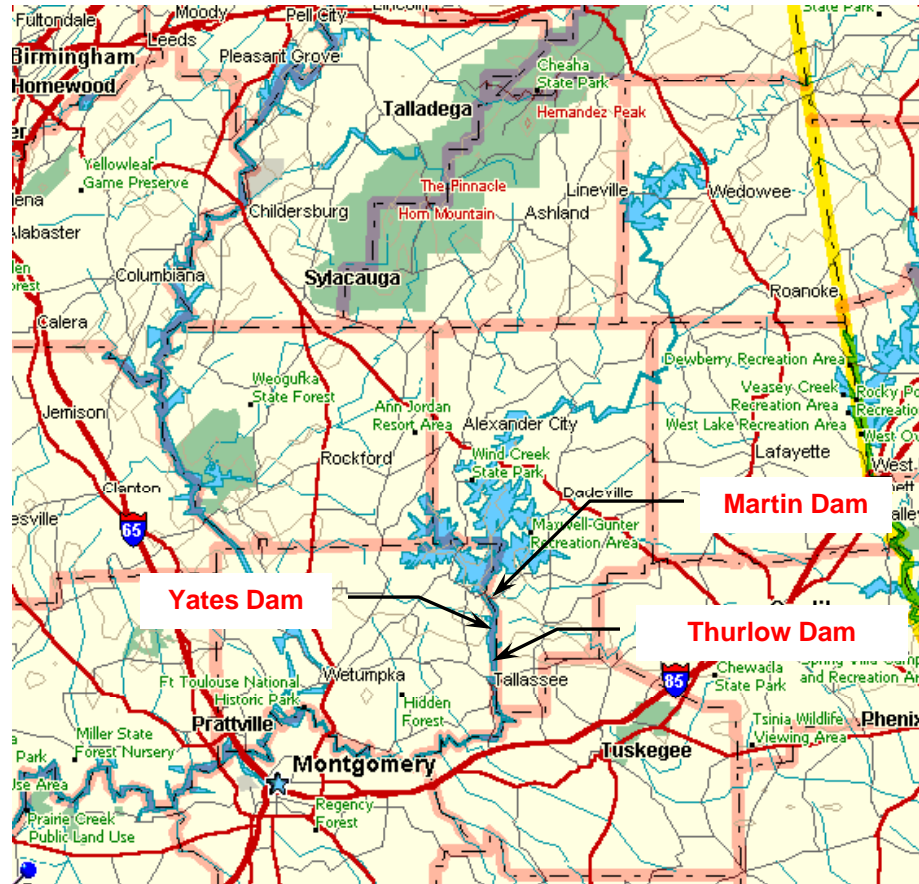
Gages continued

- **Horseshoebend**
 - USGS gage
 - 1985 to present
 - Flow & Stage
- **Tallassee**
 - USGS gage
 - 1928 to present
 - Stage



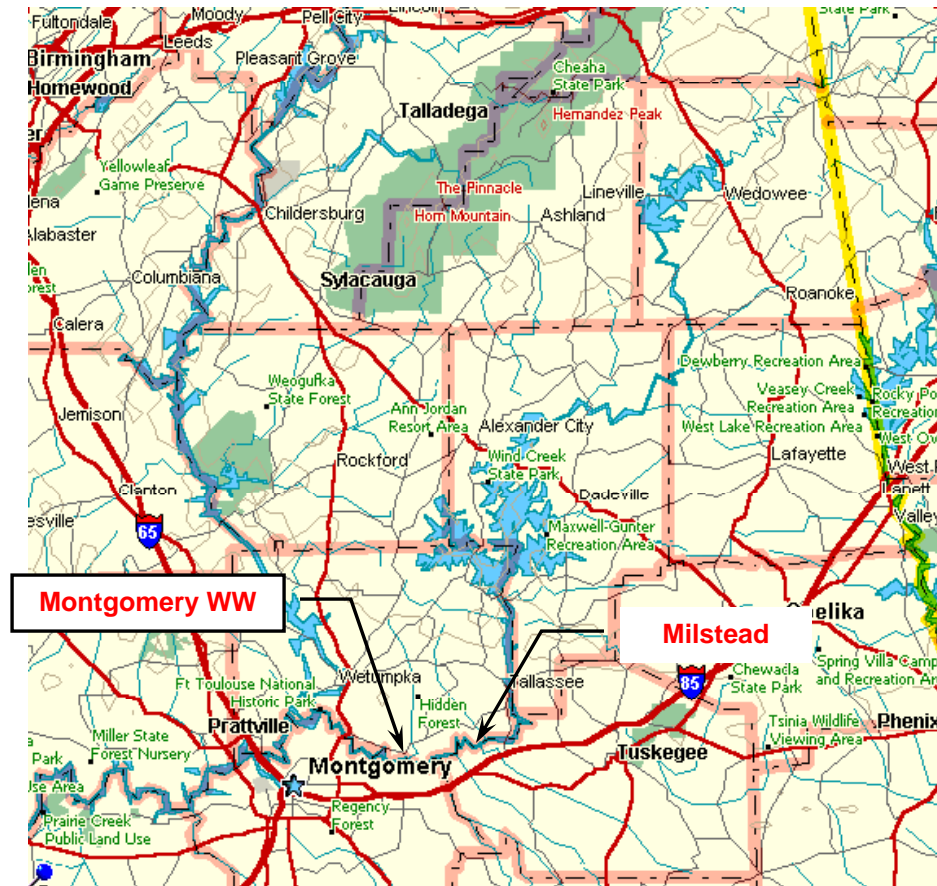
Gages continued

- **Martin Dam**
 - APC operational records
 - Pool elevation
 - discharges
- **Yates Dam**
 - APC operational records
 - Pool elevation
 - Discharges
- **Thurlow Dam**
 - APC operational records
 - Pool Elevation
 - Discharges



Gages continued

- **Milstead**
 - USGS Gage
 - Stage only
 - 1990 to present
- **Montgomery Water Works**
 - Montgomery Water Board
 - Flows and Stage
 - 1995 to present



Data – Other Streams

- Tallapoosa Tribs
 - Hackneyville
 - Uphapee
 - Sougahatchee
- Alabama River
 - Montgomery gage
 - Jones Bluff L&D pool elevations
- Coosa River
 - Jordan Dam discharges
 - Bouldin Dam discharges

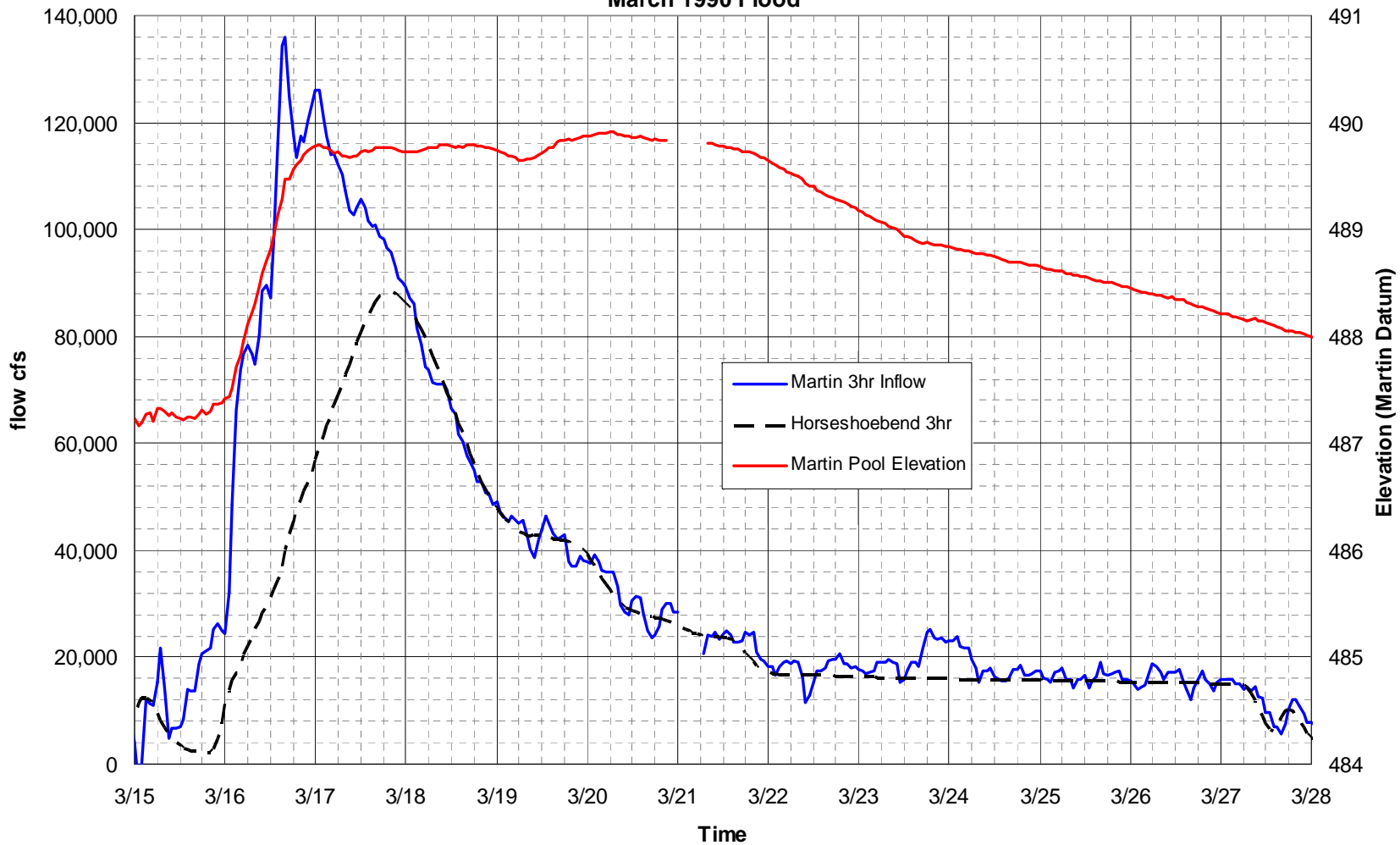
Long term data

- **COE unimpaired data set**
 - Average daily flows (1939 through 2001)
 - Regulation influences removed
 - ACF-ACT Comp Study database
 - Close oversight by other Fed. Agencies, States and other ACT-ACF Stakeholders.
 - 62 years of daily flows at key stations

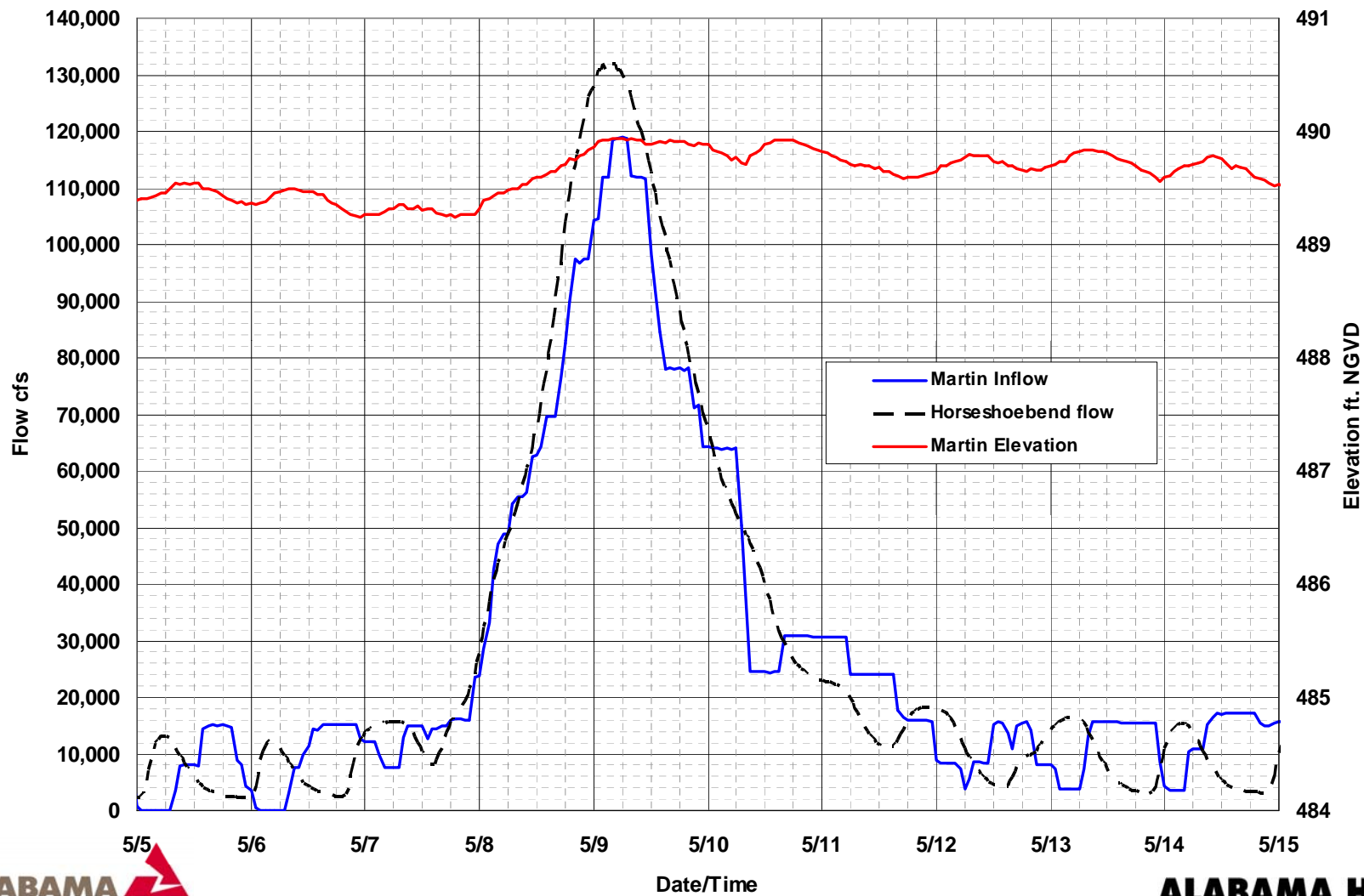
Special Flood Events

- Source APC and COE databases
- 1990 Flood Event
 - Peak and Volume near 100 year storm below Harris Dam
 - Good hourly flow records for most stations
- May and July 2003 Flood Events
 - A recent significant events
 - Good hourly records

Martin Lake inflows March 1990 Flood



Martin Dam 2003 Flood

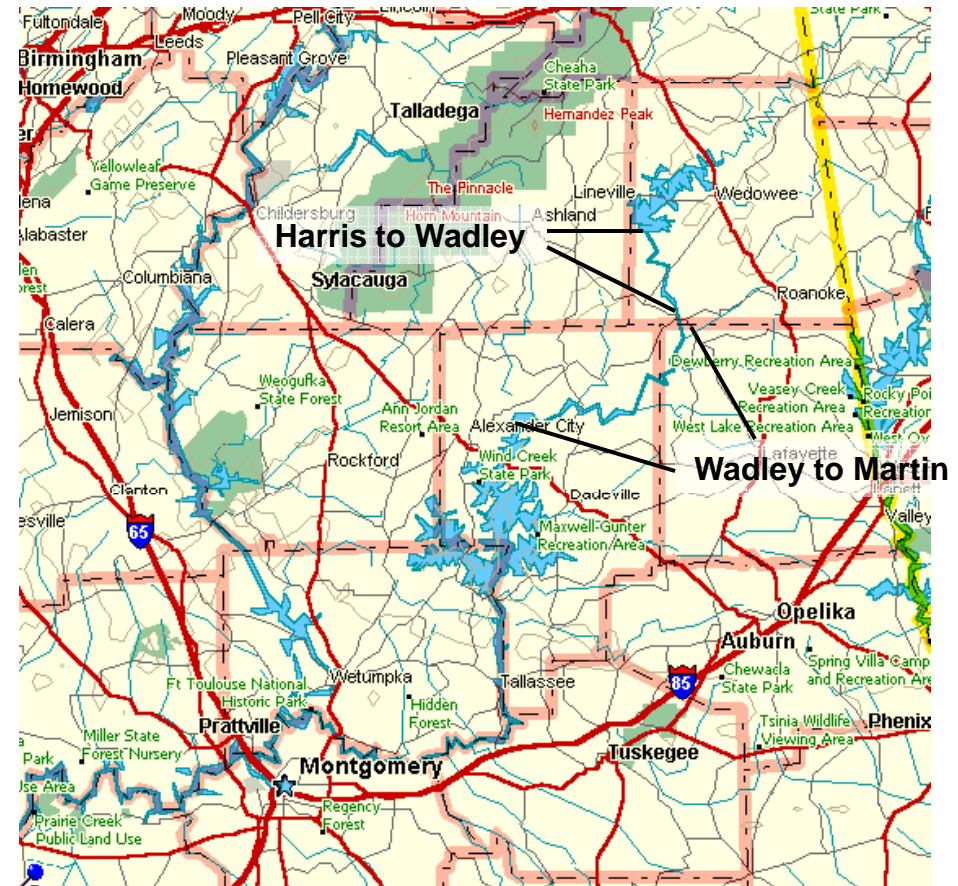


Geometric Data

- Channel sections defined with APC surveyed cross section
- Floodplain defined from Lidar data & USGS quads.

Topography

- Harris to Wadley
 - APC channel cross-sections
 - Floodplain- USGS Quads
- Wadley to Martin
 - Channel section est. from bottom profile survey and USGS Quads
 - Floodplain – USGS Quads



Topography cont.

- Martin, Yates and Thurlow Lakes
 - APC Silt or Sediment ranges
 - Elevation – Storage relationships
 - USGS Quads

Topography cont.

- Lower Tallapoosa
 - Channel Cross-Sections
 - Floodplain Lidar & USGS Quadsheets
 - Bridges est. from aerial photos & USGS Quads

