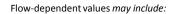


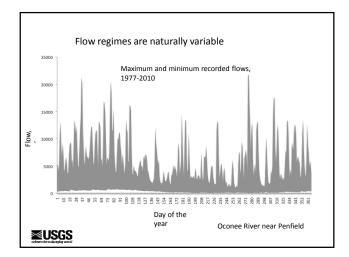
- Water supply
- Waste assimilation
- Power production
- Navigation
- Recreation (e.g., canoeing, fishing, hiking, bird-watching)
- Fisheries (including estuary-dependent species)
- Biodiversity

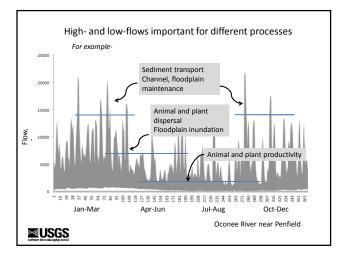
USGS

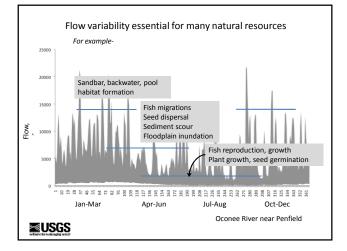


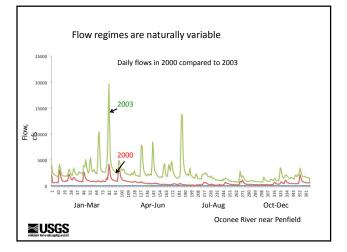
- Water supply
- Waste assimilation
- Power production
- Navigation
- Recreation (e.g., canoeing, fishing, hiking, bird-watching)
- Fisheries (including estuary-dependent species)
- Biodiversity
 - Natural resource values generally maintained by
 - <u>flow variability</u>:
 - Seasonal variation
 - High- and low-flow occurrence
 - Variation from year to year

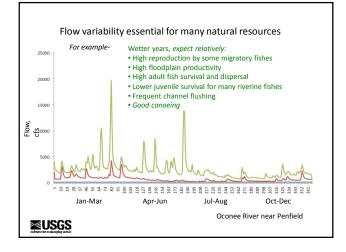
≥USGS

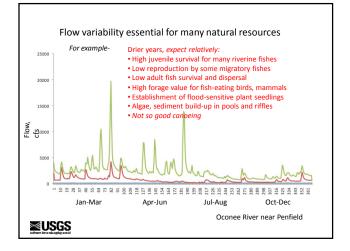












Water availability assessed: • At 39 Planning nodes, with flows

Using

modeled at a daily time-step, 1939-2007

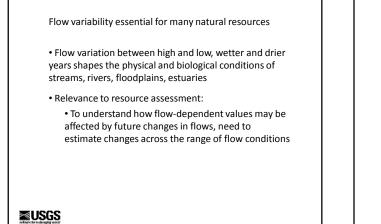
• Current water demands (2002-2007, max observed monthly net use)

Unimpaired flows (observed flows

"with most easily measured human influences removed")

•"Unregulated nodes" - monthly 7Q10 or unimpaired flow (whichever is less) • "Regulated nodes" - at-site flow requirements at dams

• Flow requirements -



Monthly 7Q10

Jun Jul Au Month

0.5.1

usti Apisti Maysi Junisi Justi Augisi augisi Cossi Novisi Date

Figure 5-2

Flow requirements for "unregulated river" nodes $\frac{\text{Subset Nutree}}{\text{Subset Nutree Nutree$

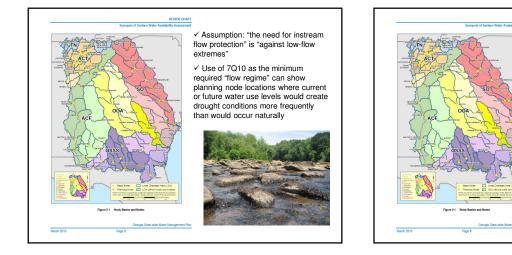
3

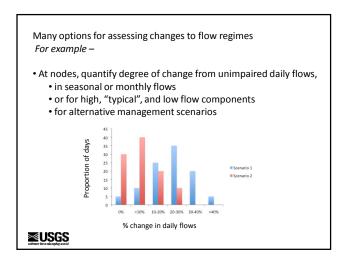
Flow alteration not assessed:

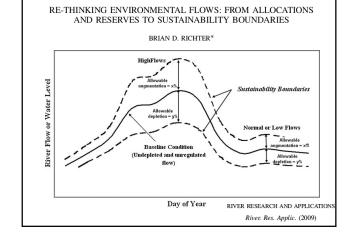
much flow variability could

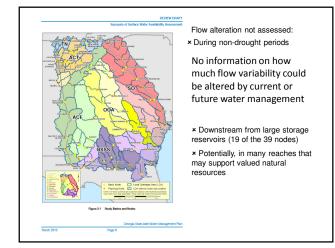
be altered by current or future water management

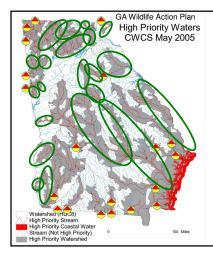
During non-drought periods
No information on how











One potential -Place additional assessment nodes to represent specific natural resource values that depend on instream flows