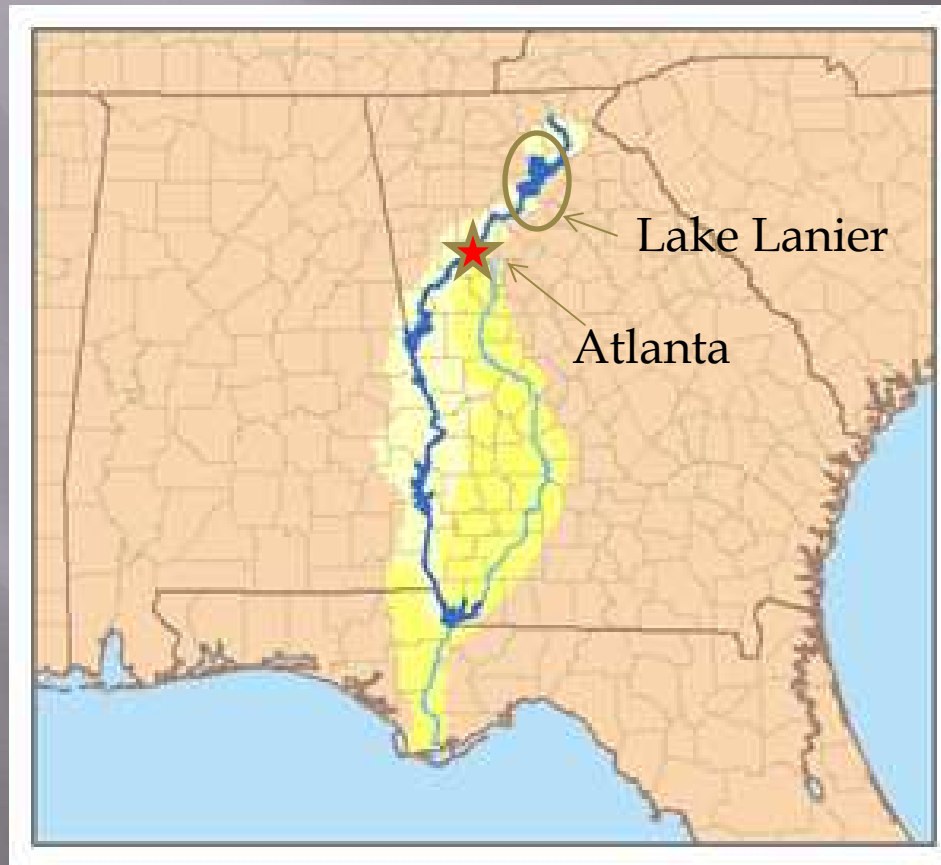


# Georgia's Water Crisis

What is the "Interstate Problem"? (p. 28, Glennon)



Source: U.S. Census website and modified on Wikipedia Creative Commons



How many gallons of water were vanishing each day from Lake Lanier in November, 2007?

$$1 \text{ US gallon} = 3.78541178 \times 10^{-12} \text{ kilometers}^3$$

$$\Delta \text{Volume} = (150 \text{ km}^2)(6 \times 10^{-5} \text{ km/day}) \frac{1 \text{ gallon}}{3.79 \times 10^{-12} \text{ km}^3}$$

$$\Delta \text{Volume} = 2.4 \text{ billion gallons/day}$$

How many 100 gallon/day households would this water supply?

$$\frac{2.4 \text{ billion gallons/day}}{100 \text{ gallons/household}} \approx 24 \text{ million households}$$

# How many acre-feet of water are there in Lake Michigan? Yes, those lovely imperial units.

Lake Michigan Data:

Surface area: 22,400 square miles

Average depth: 279 feet

1 acre = 0.0015625 square miles

1 mile = 5280 feet

Do you know how to get conversions from [Google](#)?

