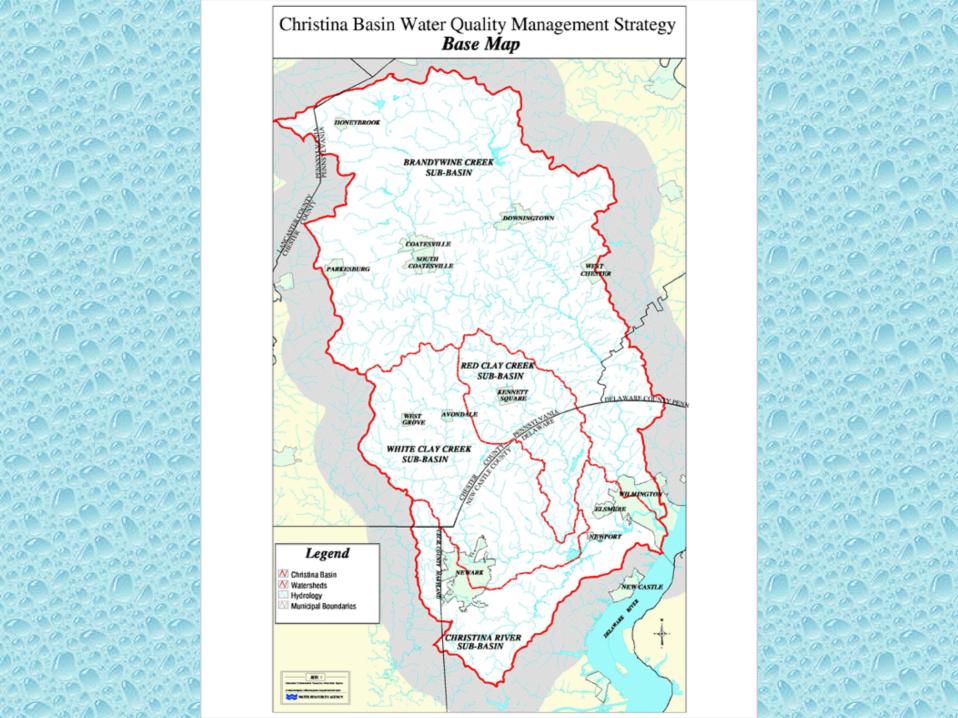
15 April 2002

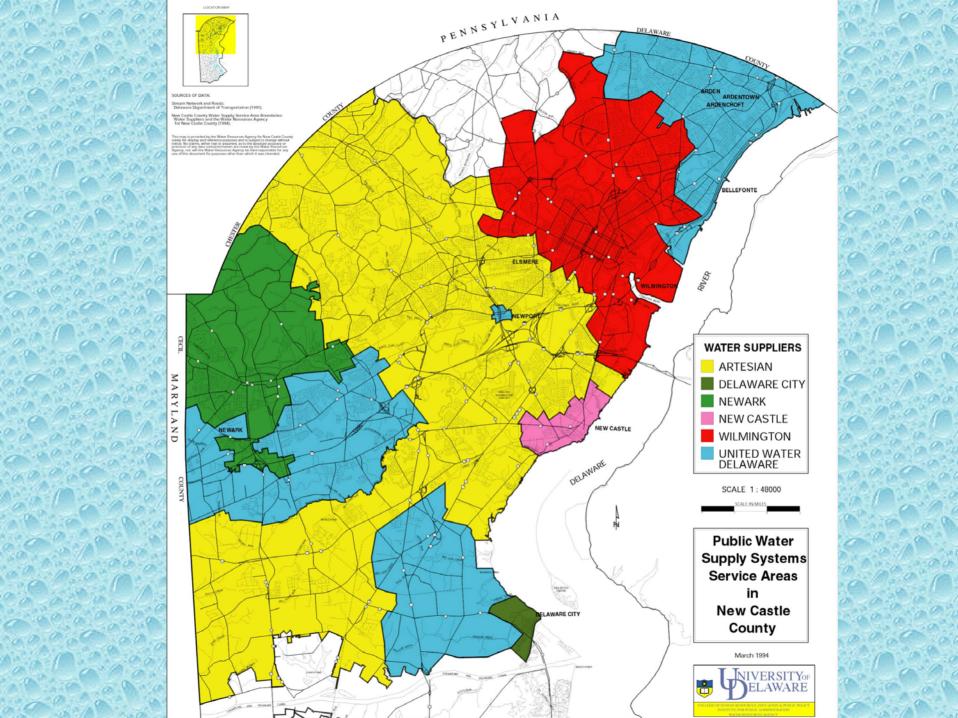


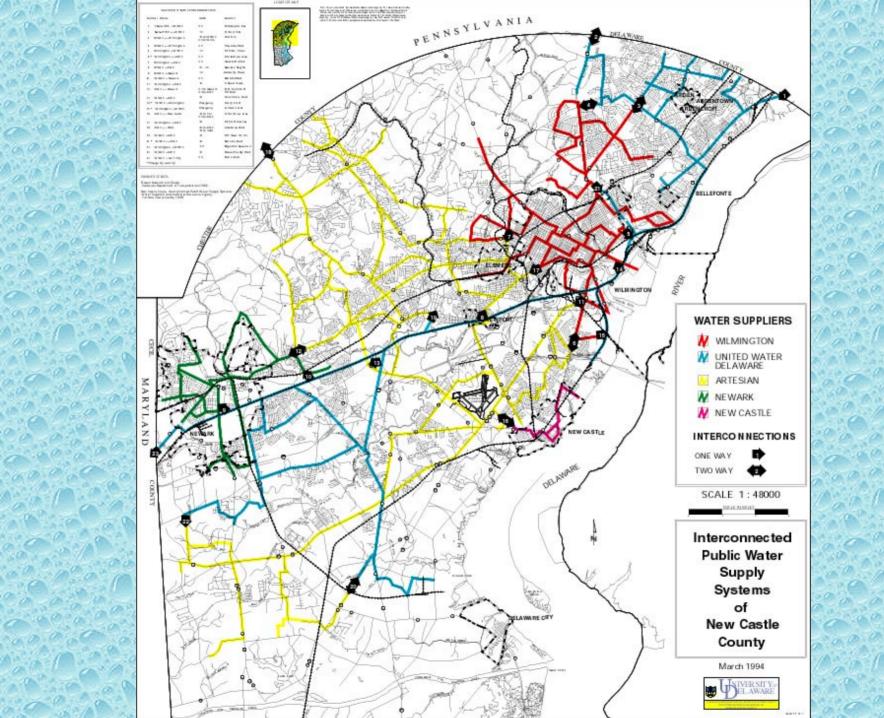
Christina Basin Drought Management Committee

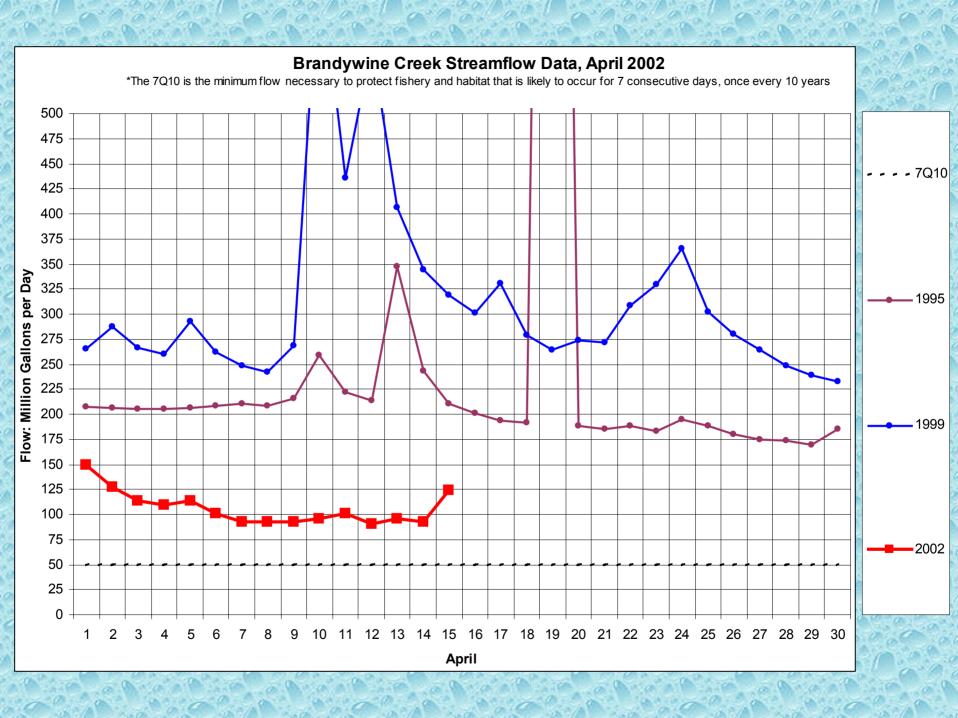


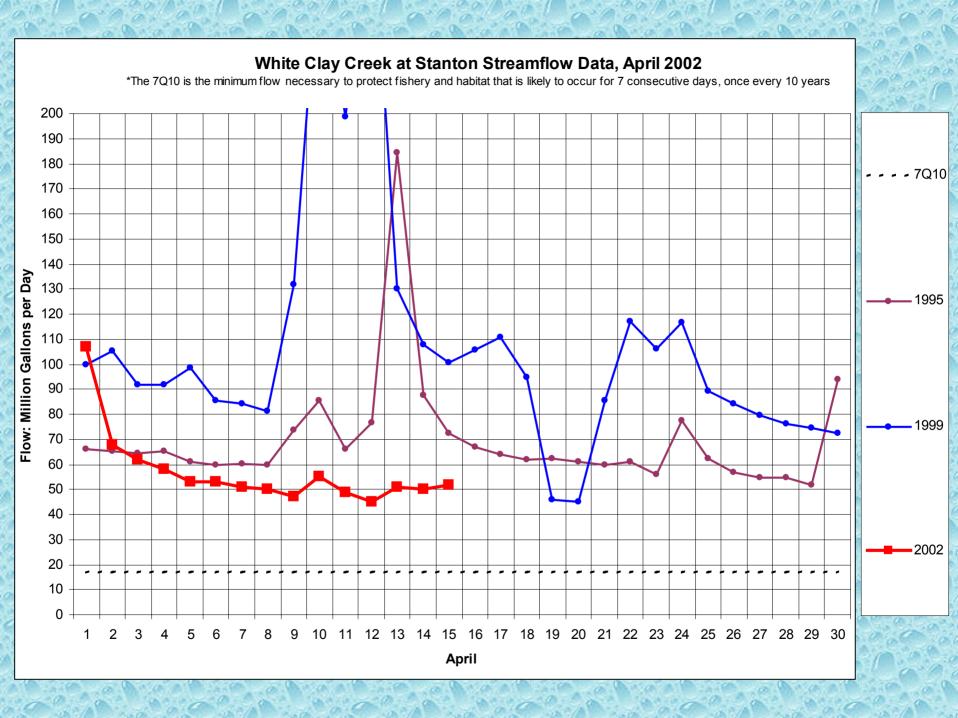


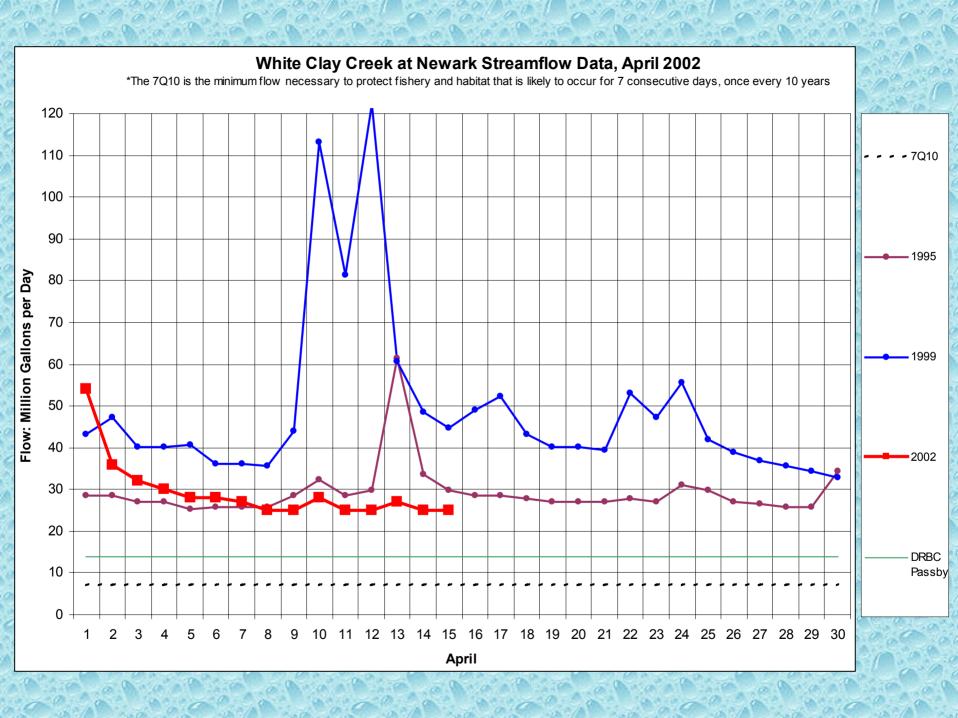




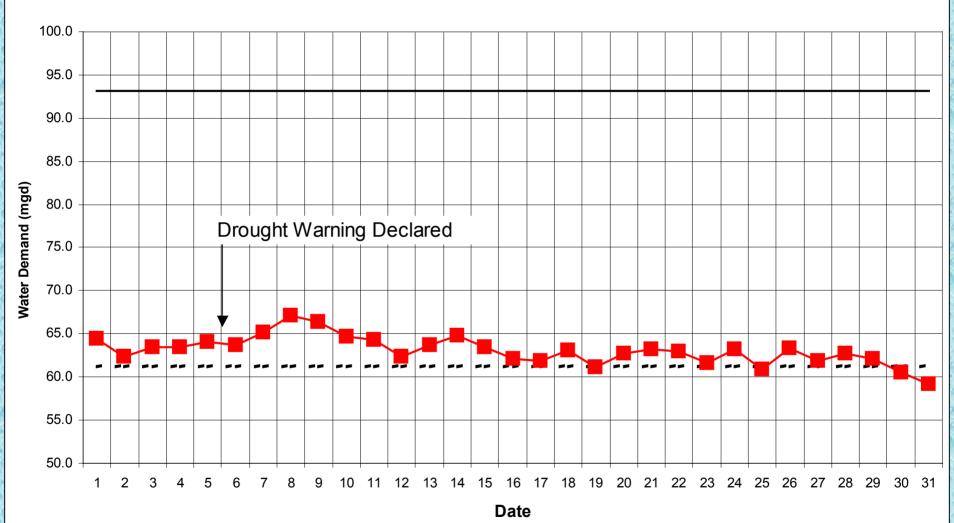






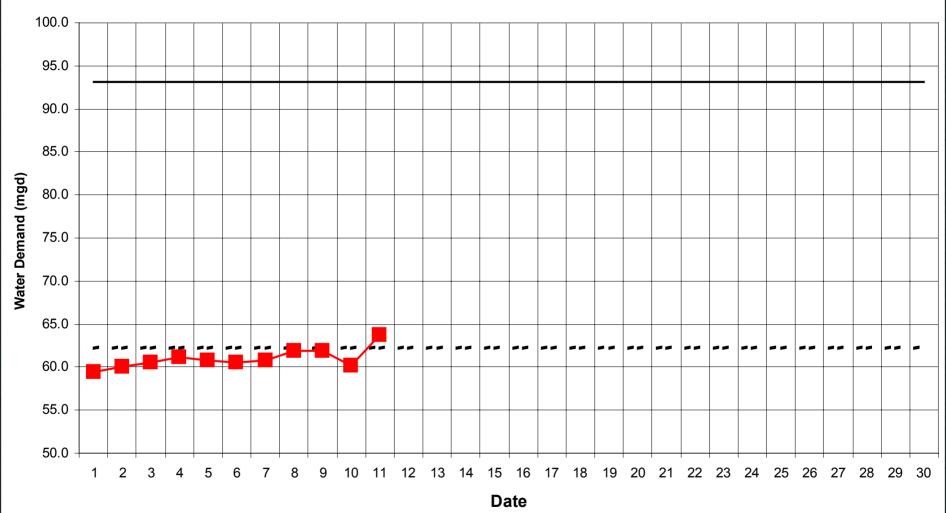




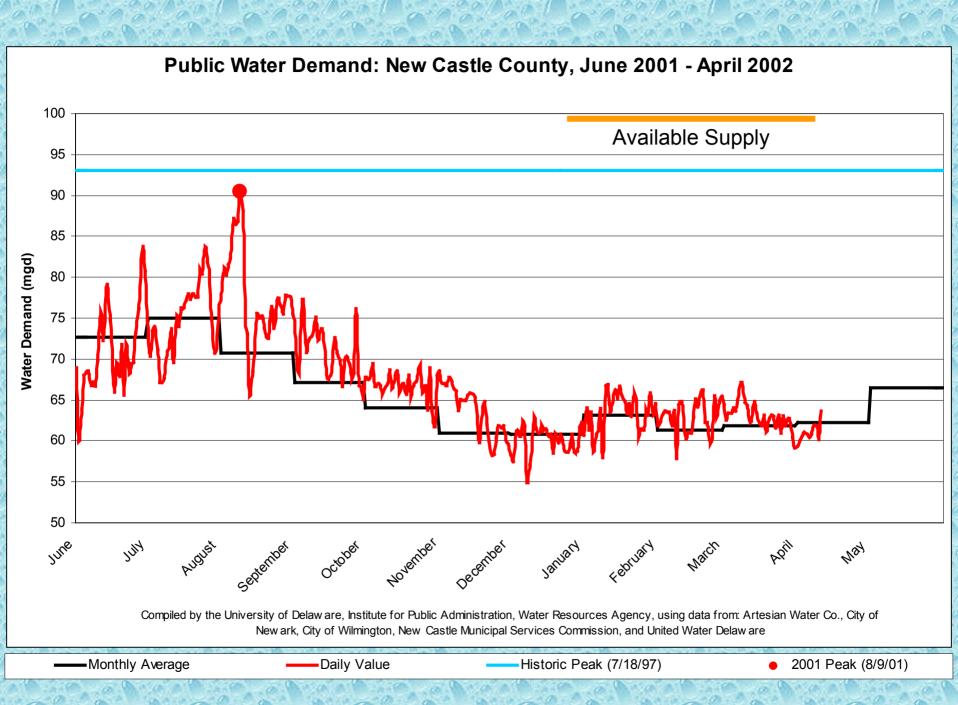


Compiled by the University of Delaw are, Institute for Public Administration, Water Resources Agency, using data from: Artesian Water Co., City of New ark, City of Wilmington, New Castle Municipal Services Commission, and United Water Delaw are

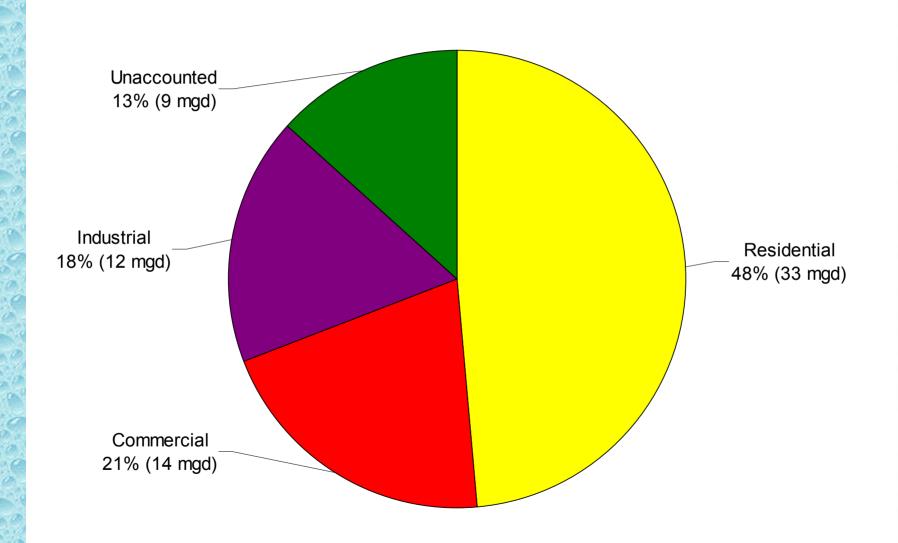




Compiled by the University of Delaw are, Institute for Public Administration, Water Resources Agency, using data from: Artesian Water Co., City of New ark, City of Wilmington, New Castle Municipal Services Commission, and United Water Delaw are



Public Water Demand in Northern Delaware



Water Demand

- Public water demand in New Castle County varies from 60 mgd normally to 90 mgd peak.
- The 1.5 peaking factor is due almost entirely to outdoor water use.
- Most people use around 100 gallons of water per day. We need about 10 gallons per day to live.

Conserving Inside

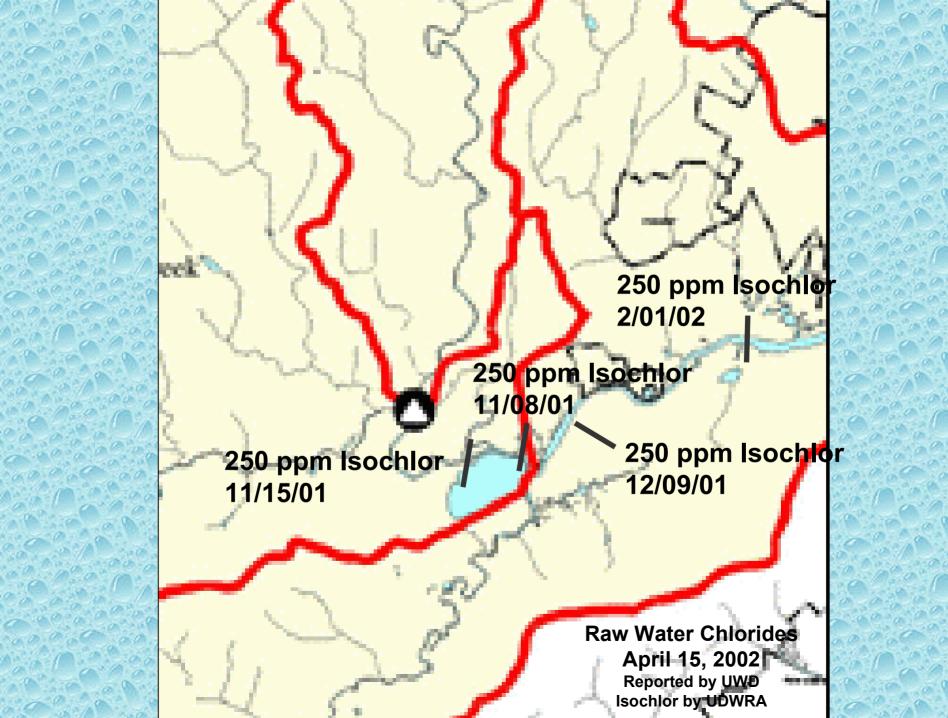
- Shorter showers
 - save 50 gallons every 10 minutes
- Don't flush trash down the toilet
 - save 5 gallons per flush
- Full loads in the dishwasher
 - save 12 gallons per load
- Full loads in the laundry
 - save 40 gallons per load
- Fix leaks in your plumbing
 - Save 100 gallons per day



Conserving Outside

- Water the lawn less frequently
 - Save 600 gallons in a few hours
- Water plants in the morning
 - Save 300 gallons
- Wash your car on the grass
 - Save 100 gallons
- Use a broom to sweep sidewalks
 - Save 50 gallons in 10 minutes





Supply/Demand Curve (mgd) Year 2020

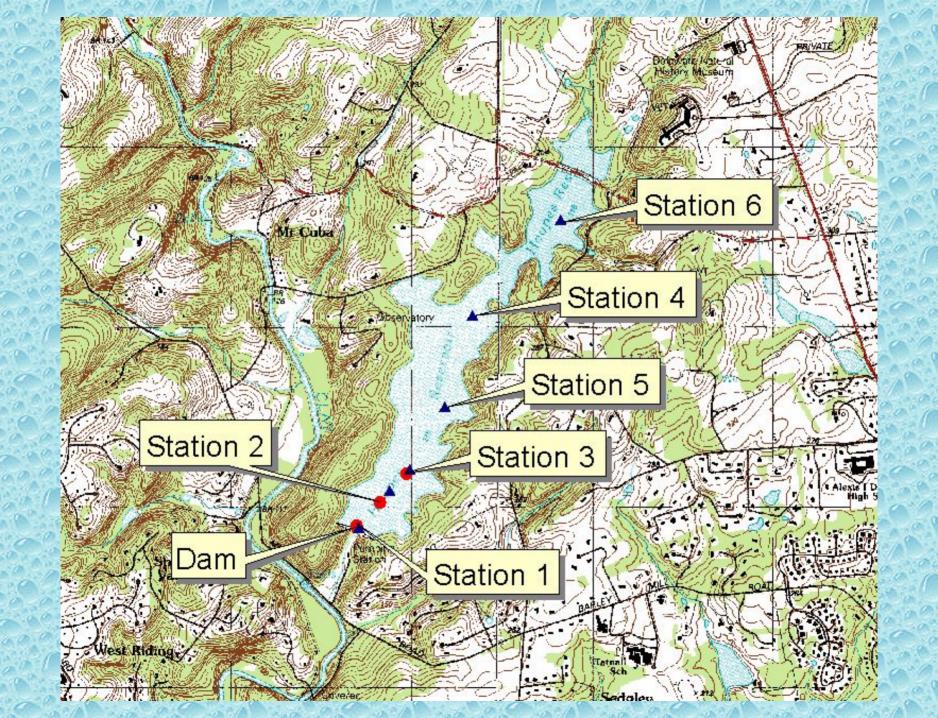
Scenario	Supply	Demand	<u>+/-</u>	Vol (mg)
1. No 7Q10	93	90	+3	180*
	- Ox			
2.7Q10 Wc	85	90	- 5	-300*
3.7Q10 B&W	73	90	- 17	-1020*

^{*} Volume required assuming a 60-day drought period

"A-List" Alternatives

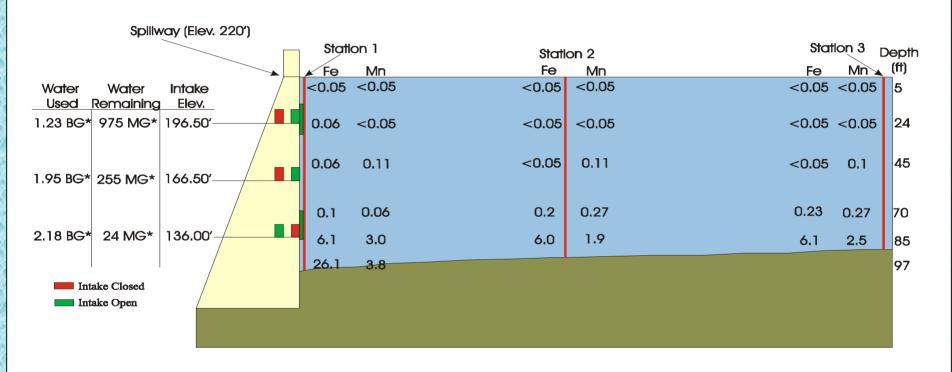
Alternative	Targeted Capacity	Capacity in Service (2/02)	Status of Completion
Newark Reservoir	200 mg (3 mgd)	0	Bids received, completion 2003 317 mg reservoir planned.
Wilmington Hoopes	500 mg (8 mgd)	500 mg (8.3 mgd)	Complete – operating plan provides top wedge for drought
Artesian Water Co. New Wells North C&D Canal	120 mg (2 mgd)	66 mg (1.1 mgd)	0.8 mgd wells planned completion 2002
Newark South Wellfield Iron Treatment Plant	60 mg (1 mgd)	0	construction underway, completion 2002
Artesian Water Co.	300 mg (5 mgd)	130 mg (2.2 mgd)	Next addition of ASR anticipated for 2002
Total 2020 Deficit	1,180 mg (19 mgd) 1,020 mg (17 mgd)	696 mg (11.6 mgd)	





Delaware Geological Survey

Edgar M. Hoopes Reservoir Water - Quality Data July 25, 2000



^{*} Figures were calculated using Hoopes operating curve.

Delaware Geological Survey 10/18/00



