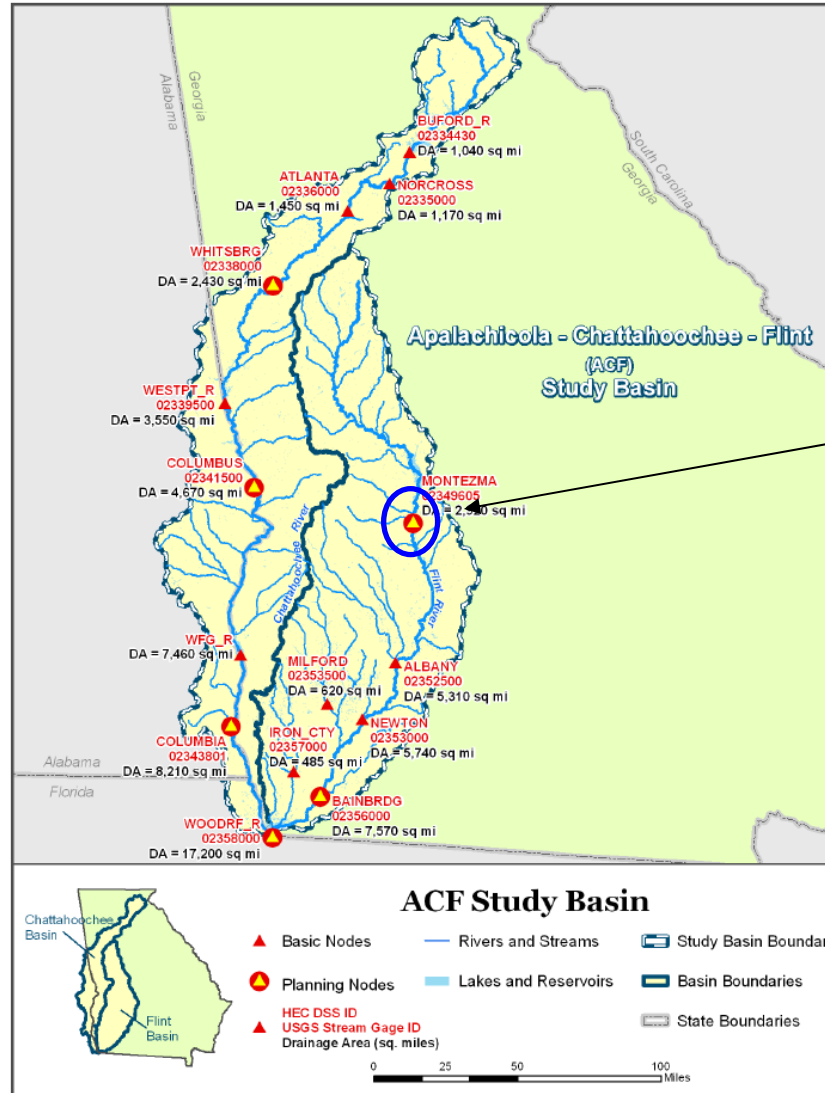




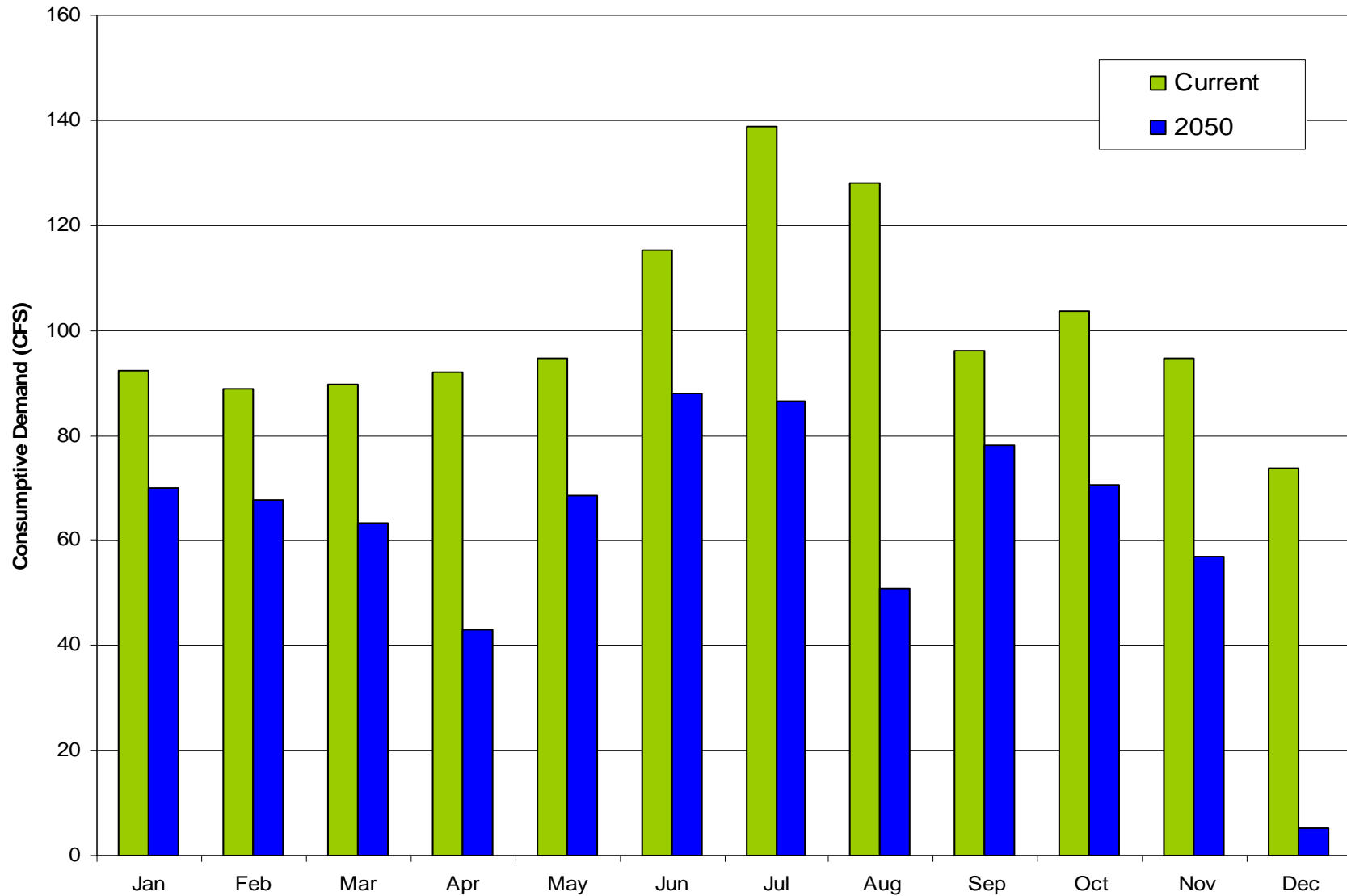
Flint River - Montezuma



Montezuma

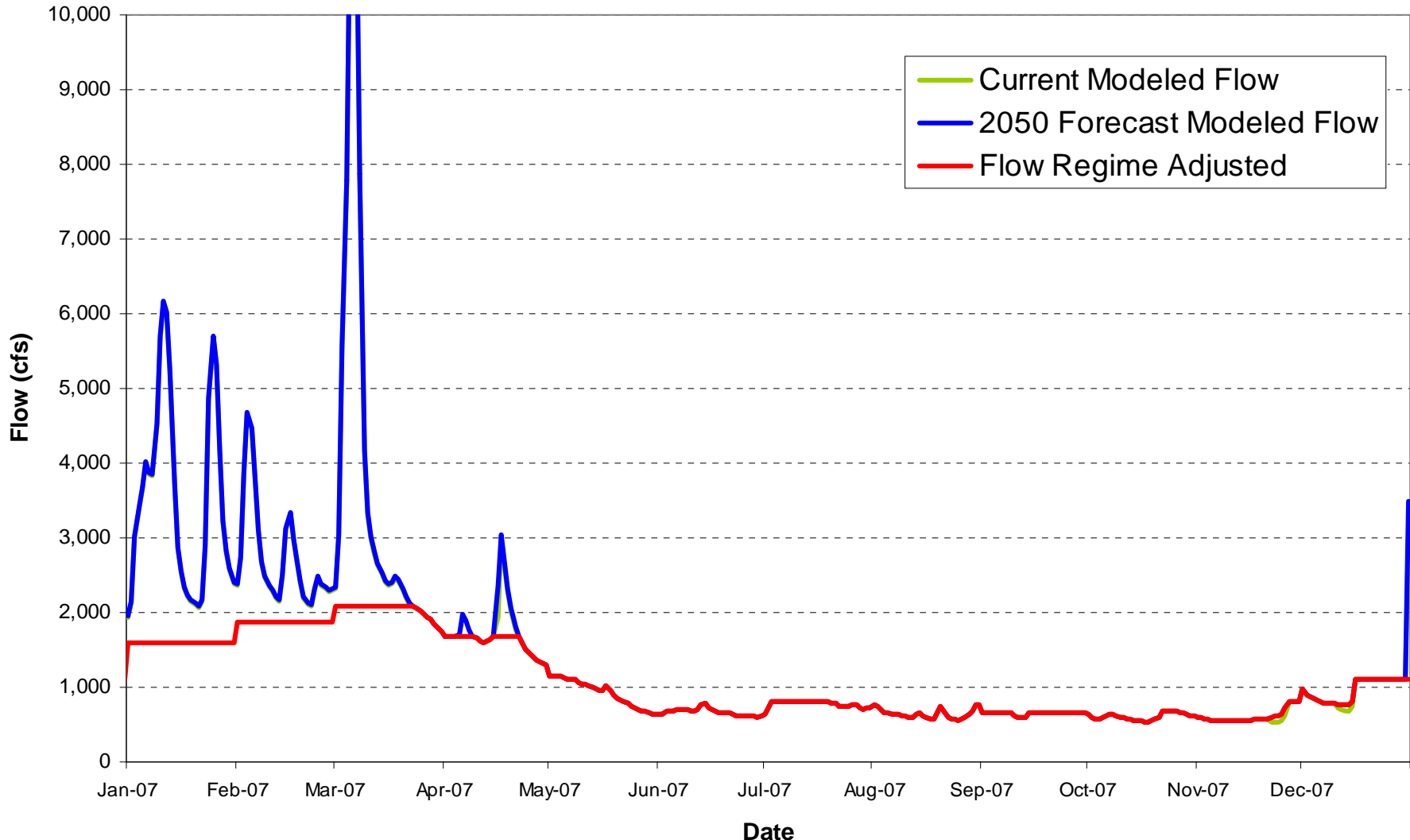


Comparison of Consumptive Demands At Montezuma





Gap at Montezuma in the Flint River



Modeled Stream Flow Assumes Water Demand Fully Met



Flow Regime Shortfall at Montezuma - Flint Basin

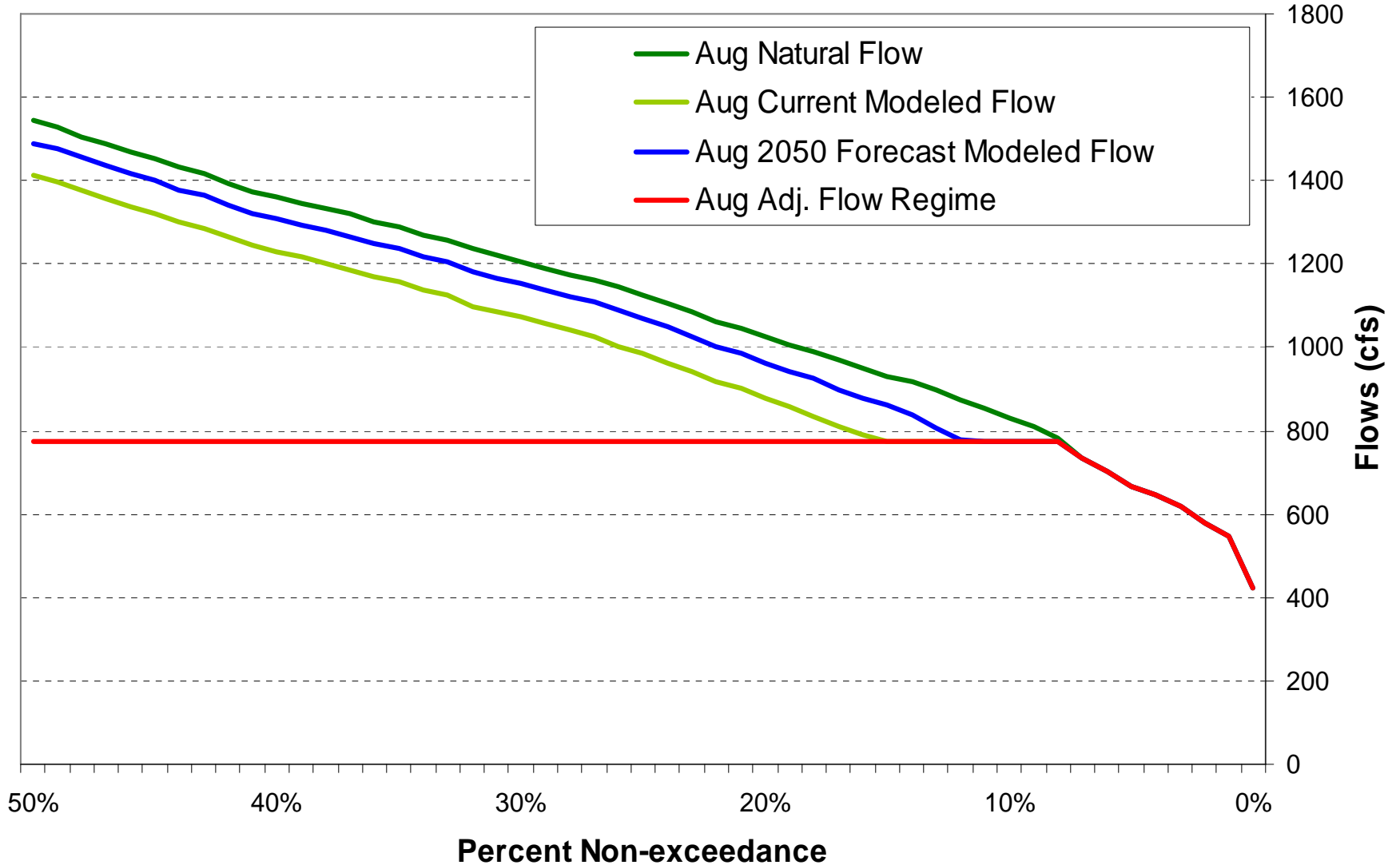
FLINT



	Length of Shortfall(% of time)	Average Shortfall (cfs)	Long-term Average Flow (cfs)	Maximum Shortfall (cfs)	Corresponding Flow Regime (cfs)
MONTEZUMA					
Current	<1%	61	339	94	623
2050	<1%	1	3429	1	593

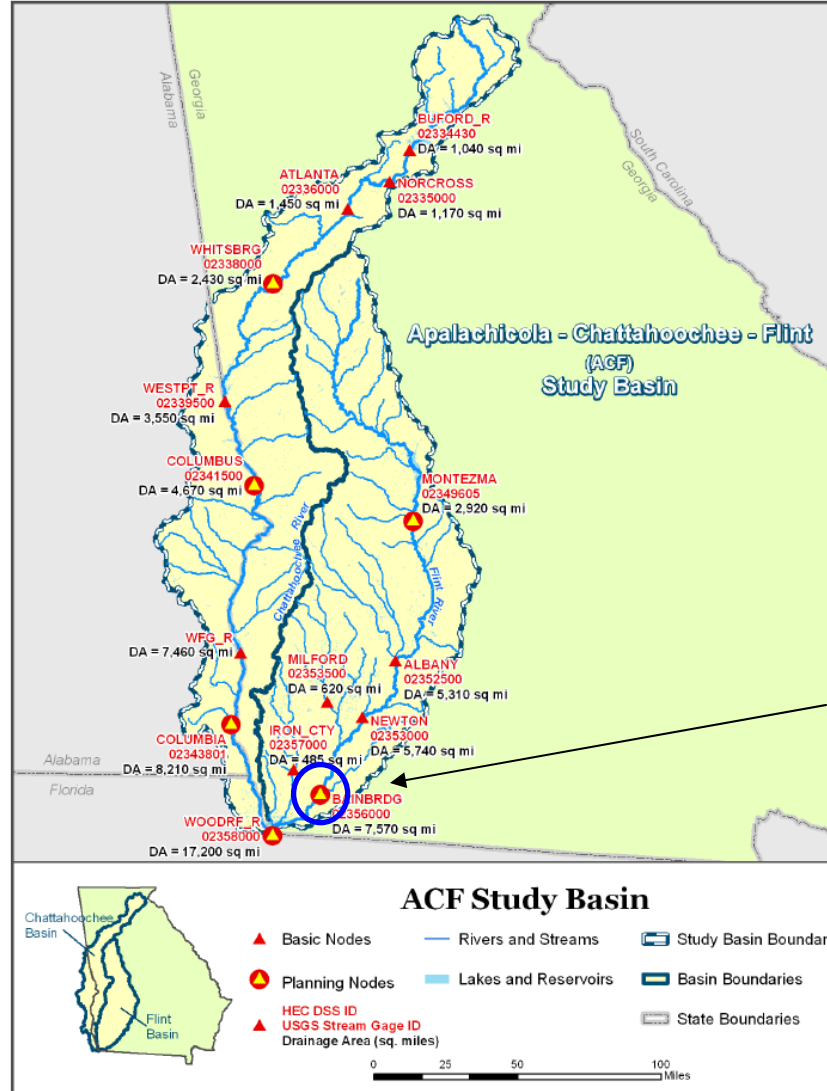


August Flow Exceedance Curves at Montezuma in the Flint River





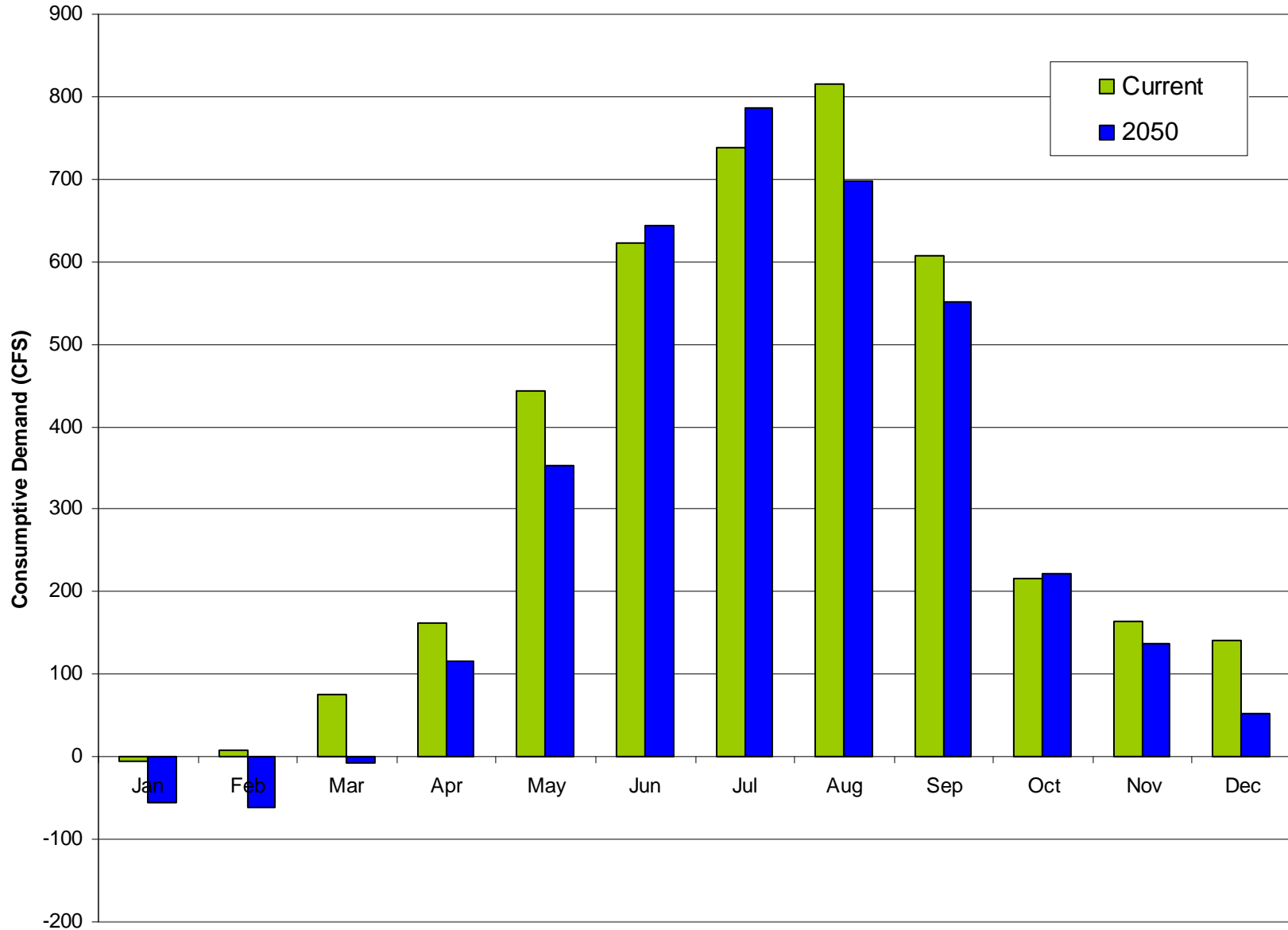
Flint River - Bainbridge



Bainbridge

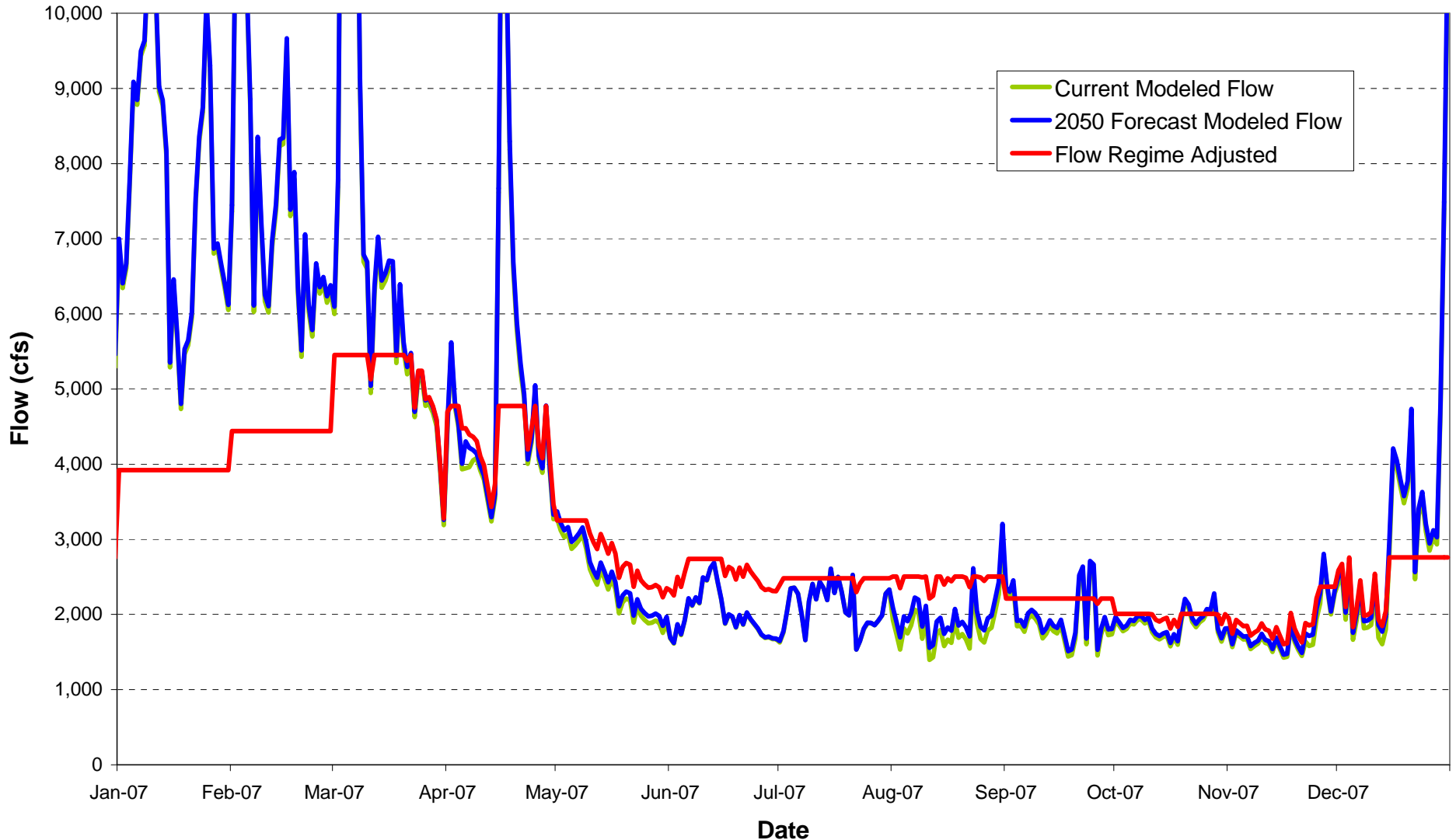


Comparison of Consumptive Demands At Bainbridge





Gap at Bainbridge in the Flint River



Modeled Stream Flow Assumes Water Demand Fully Met



Flow Regime Shortfall at Bainbridge - Flint Basin

Scenario	Length of Shortfall (% of time)	Average Shortfall (cfs)	Long-term Average Flow (cfs)	Maximum Shortfall (cfs)	Corresponding Flow Regime (cfs)
Current	13%	361 (233 MGD)	7880 (5094 MGD)	1376 (890 MGD)	2506 (1620 MGD)
2050	11%	316 (204 MGD)	7,981 (5158 MGD)	1215 (785 MGD)	2506 (1620 MGD)



August Flow Exceedance Curves at Bainbridge in the Flint River

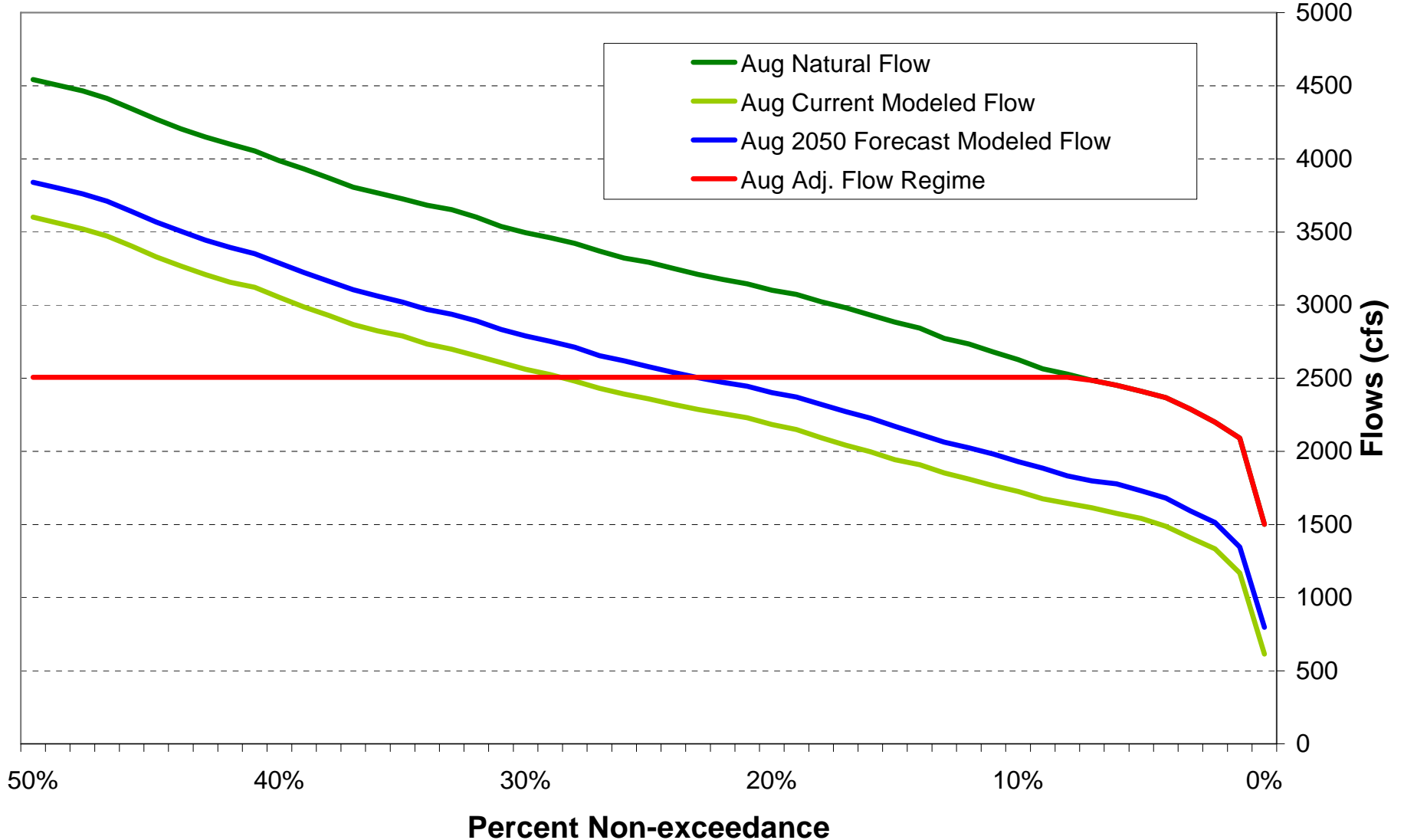


Figure 2. Conceptual Model

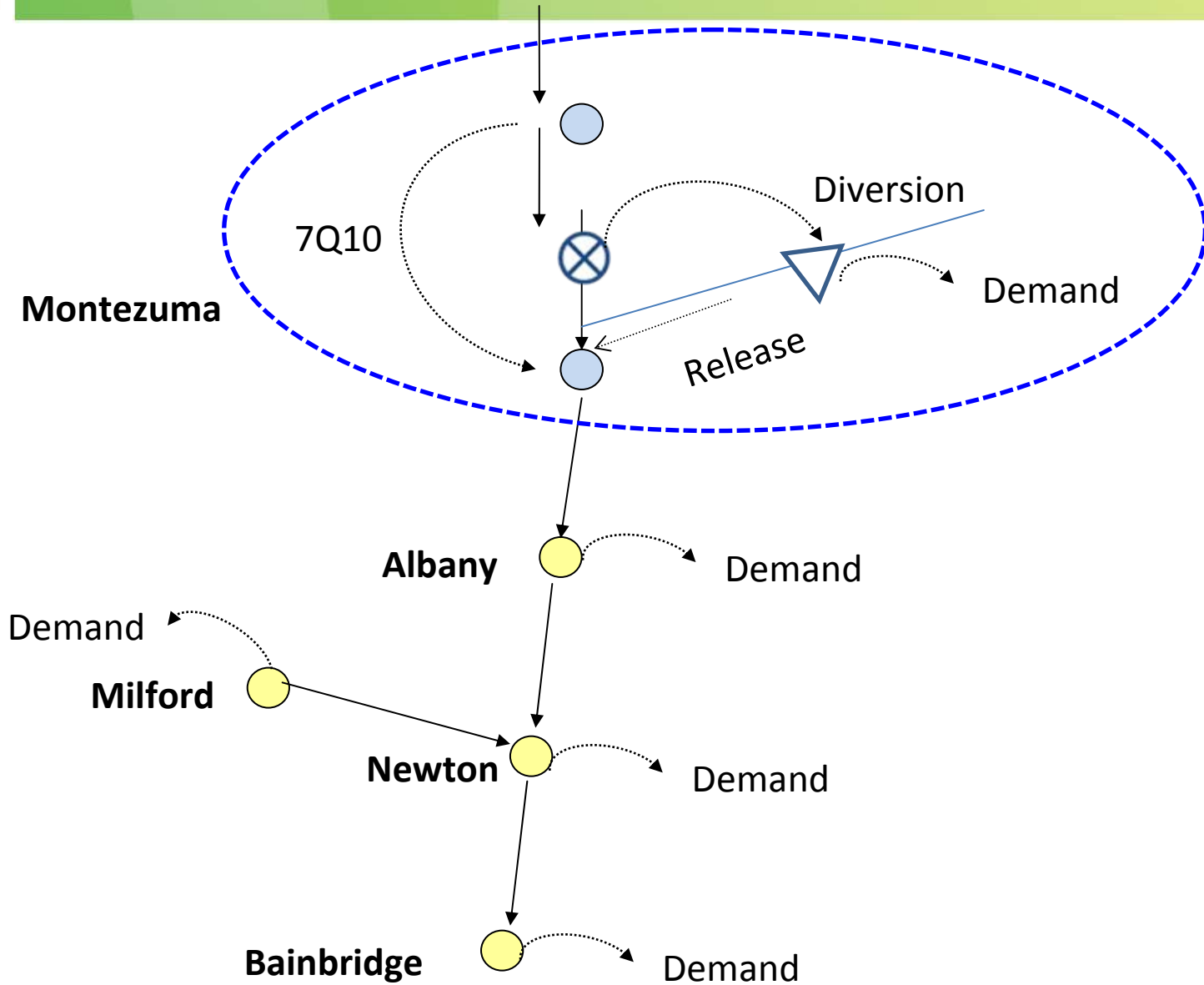




Table 1. Summary of Flow Gap at Bainbridge

Scenario	Length of Shortfall (% of time)	Average Shortfall (cfs)	Long-term Average Flow (cfs)	Maximum Shortfall (cfs)	Corresponding Flow Regime (cfs)
Total Flow Gap	13%	361 (233 MGD)	7880 (5093 MGD)	1377 (890 MGD)	2506 (1620 MGD)
Due to Lower Basin Water Use	13%	339 (219 MGD)	7880 (5093 MGD)	816 (528 MGD)	2506 (1620 MGD)
Due to Upper Basin Diversion	6%	72 (46 MGD)	7880 (5093 MGD)	636 (411 MGD)	4246 (2744 MGD)



Figure 3. Flow Gap at Bainbridge (1939 ~ 2007)

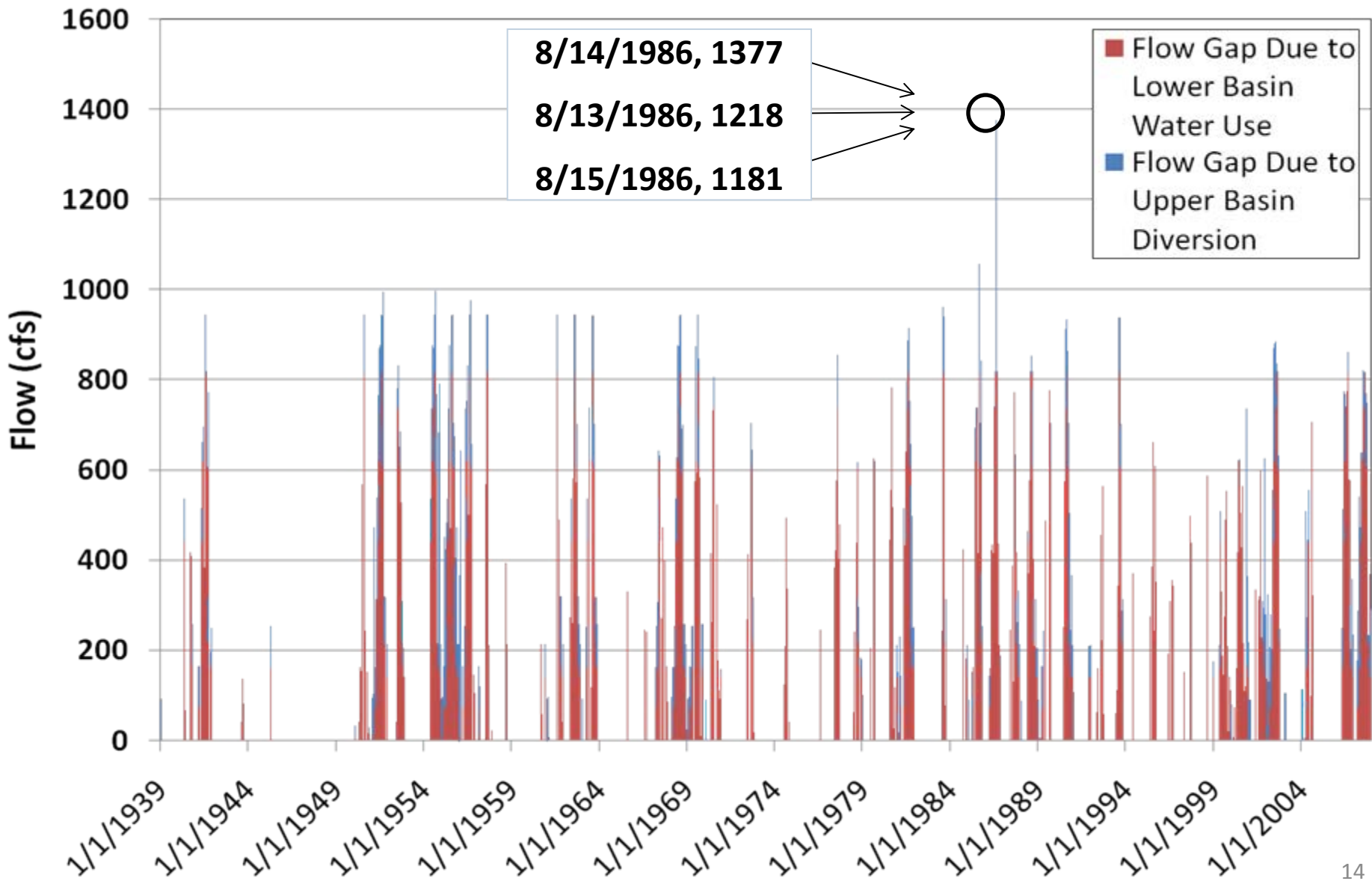




Figure 4. Flow Gap at Bainbridge (August, 1986)

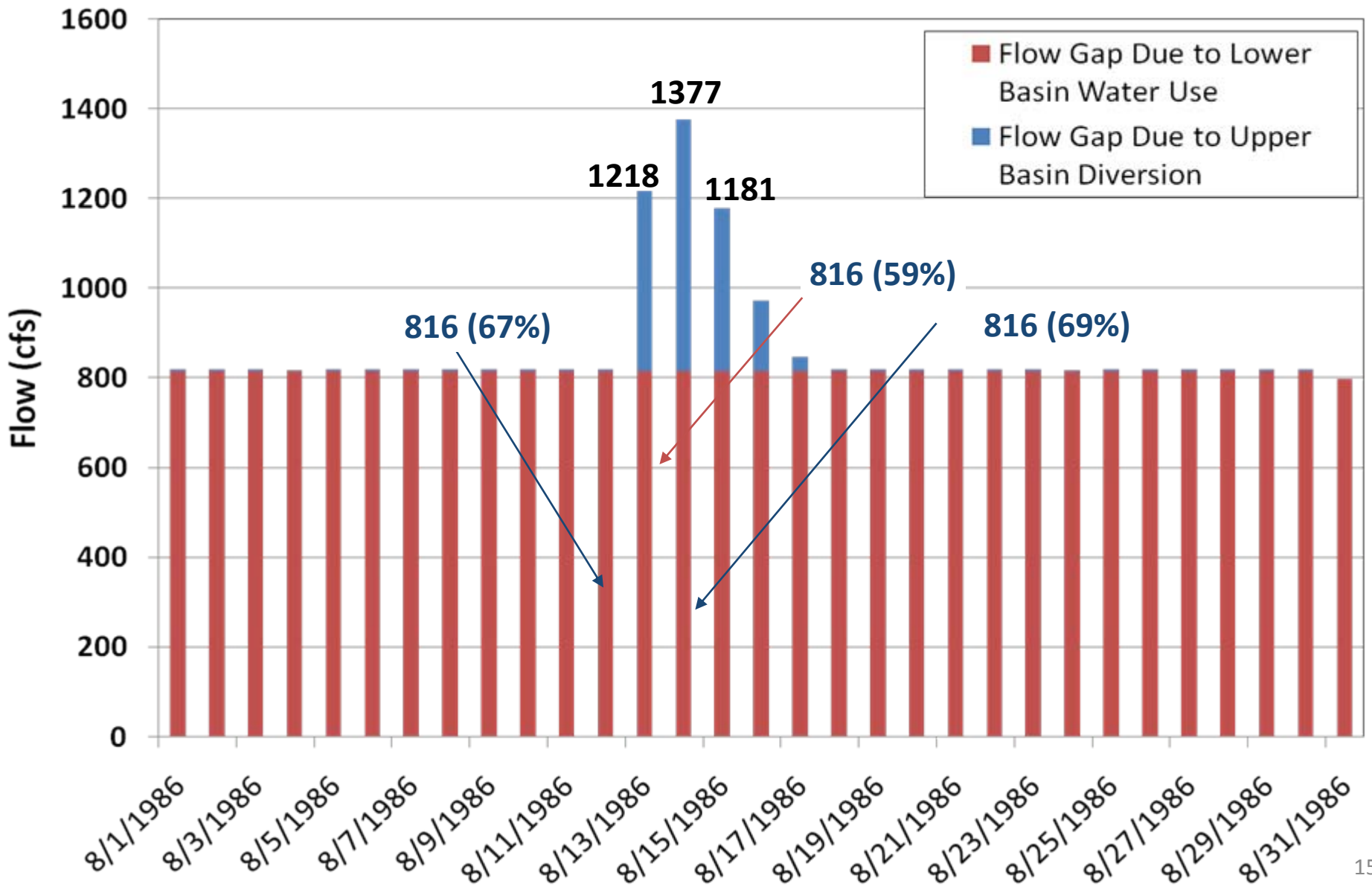
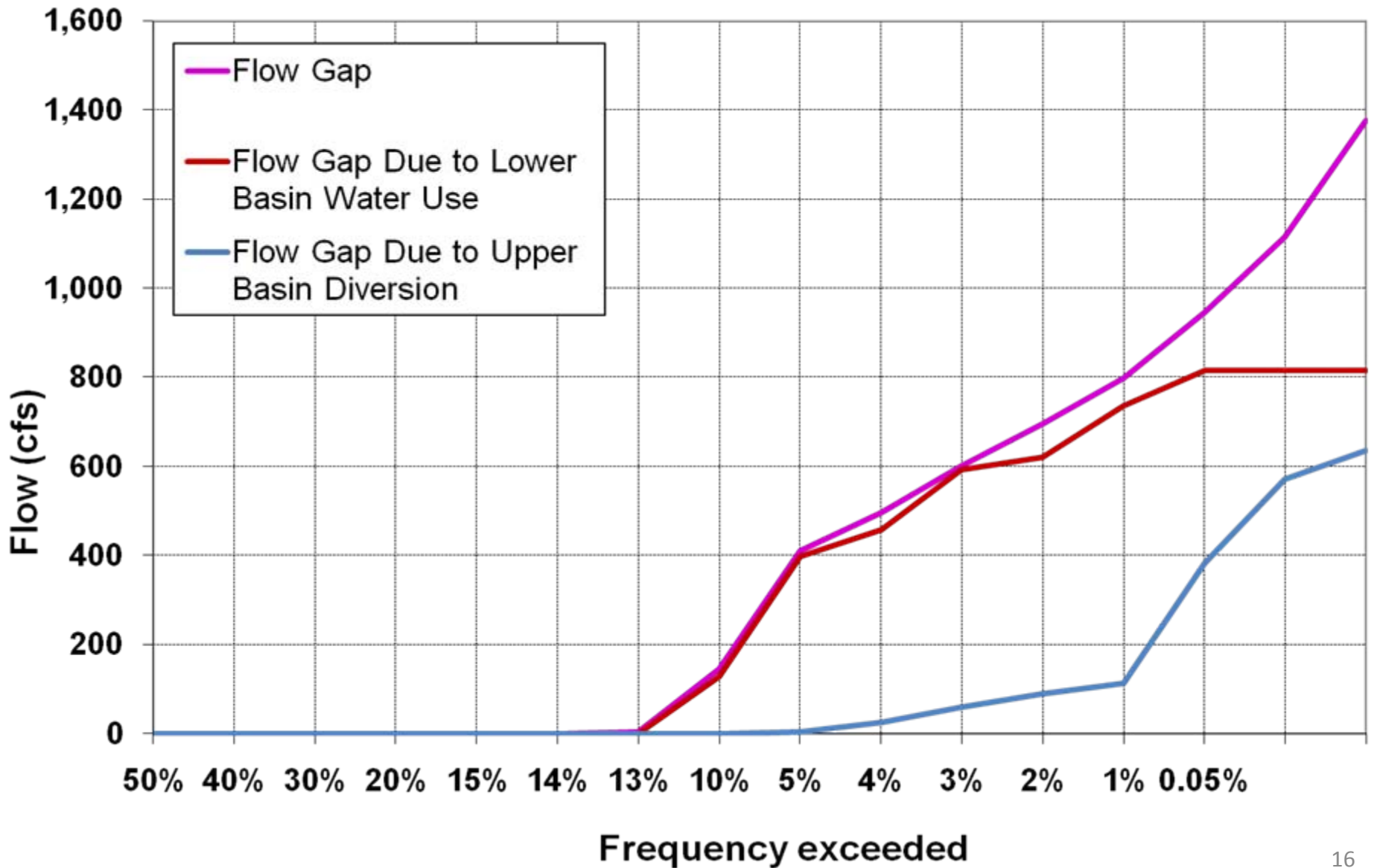


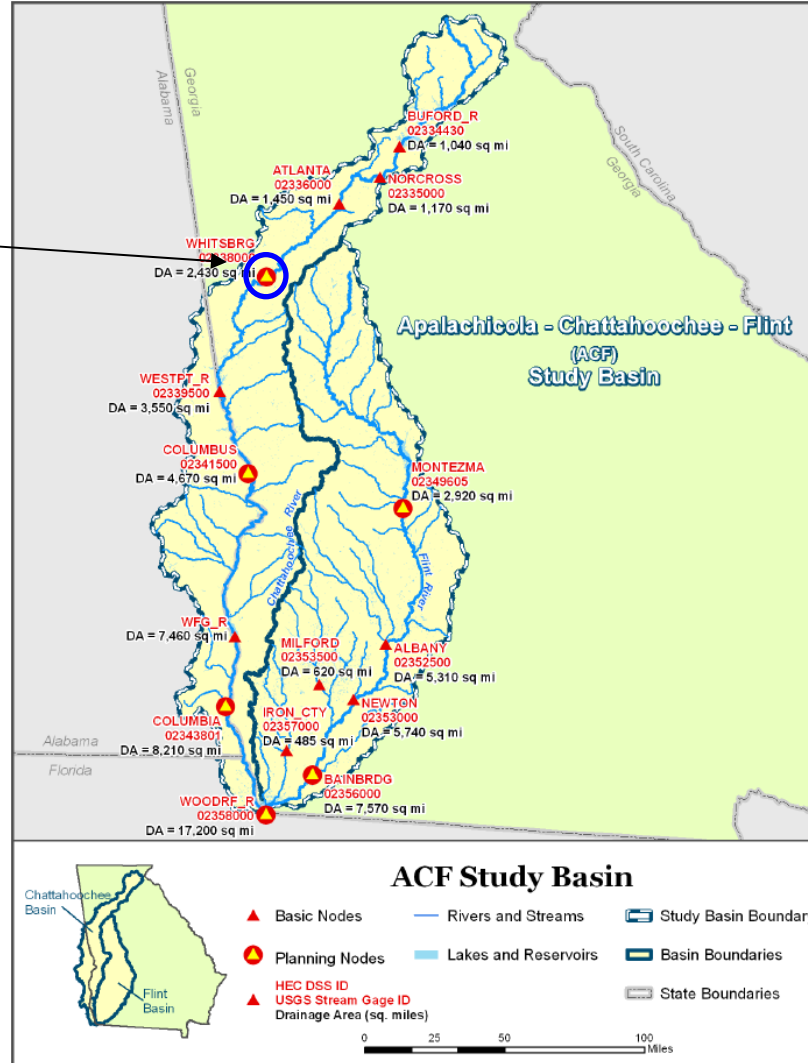


Figure 5. Frequency of Gap Flow at Bainbridge of Flint



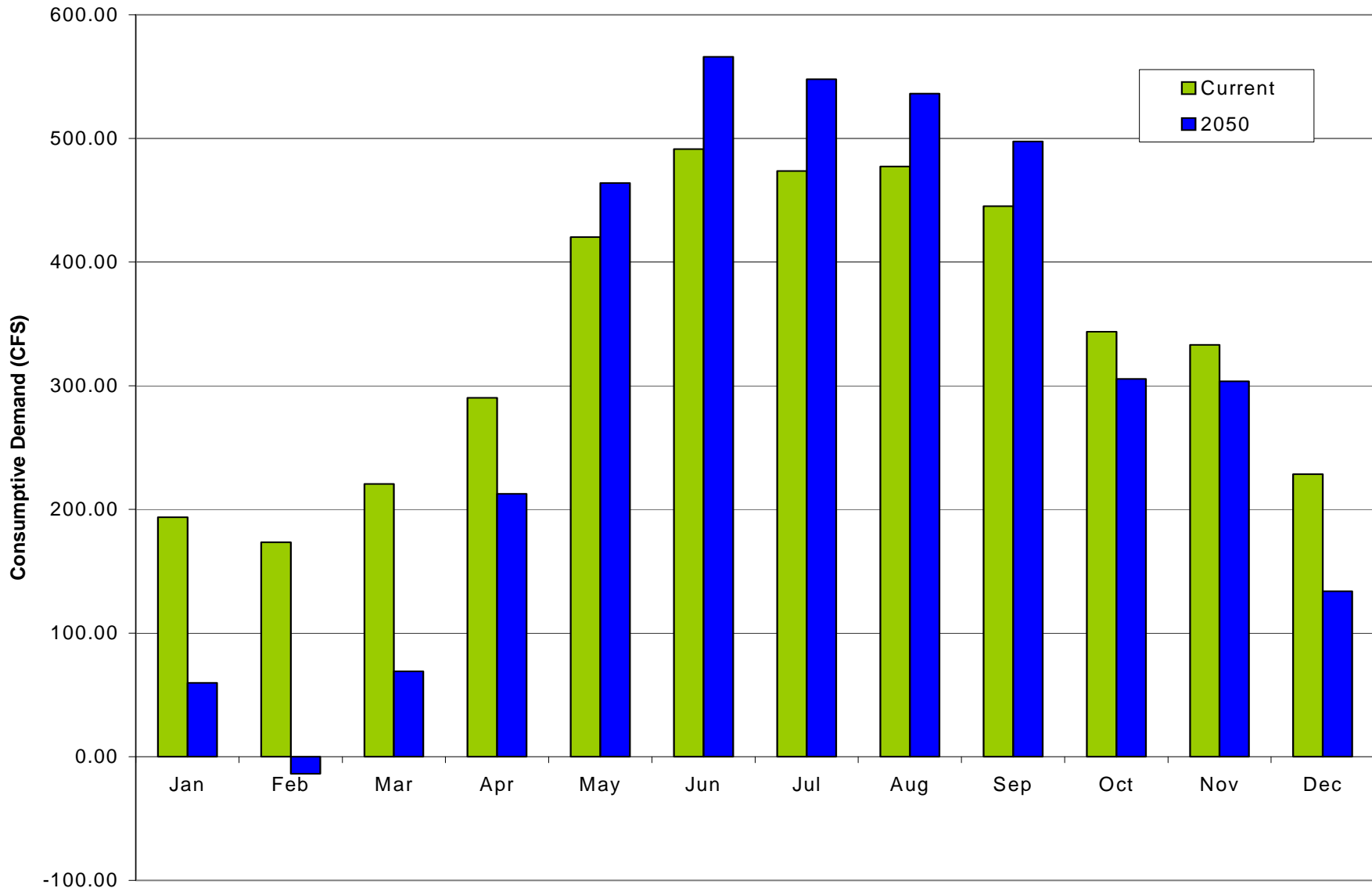
Whitesburg

Whitesburg



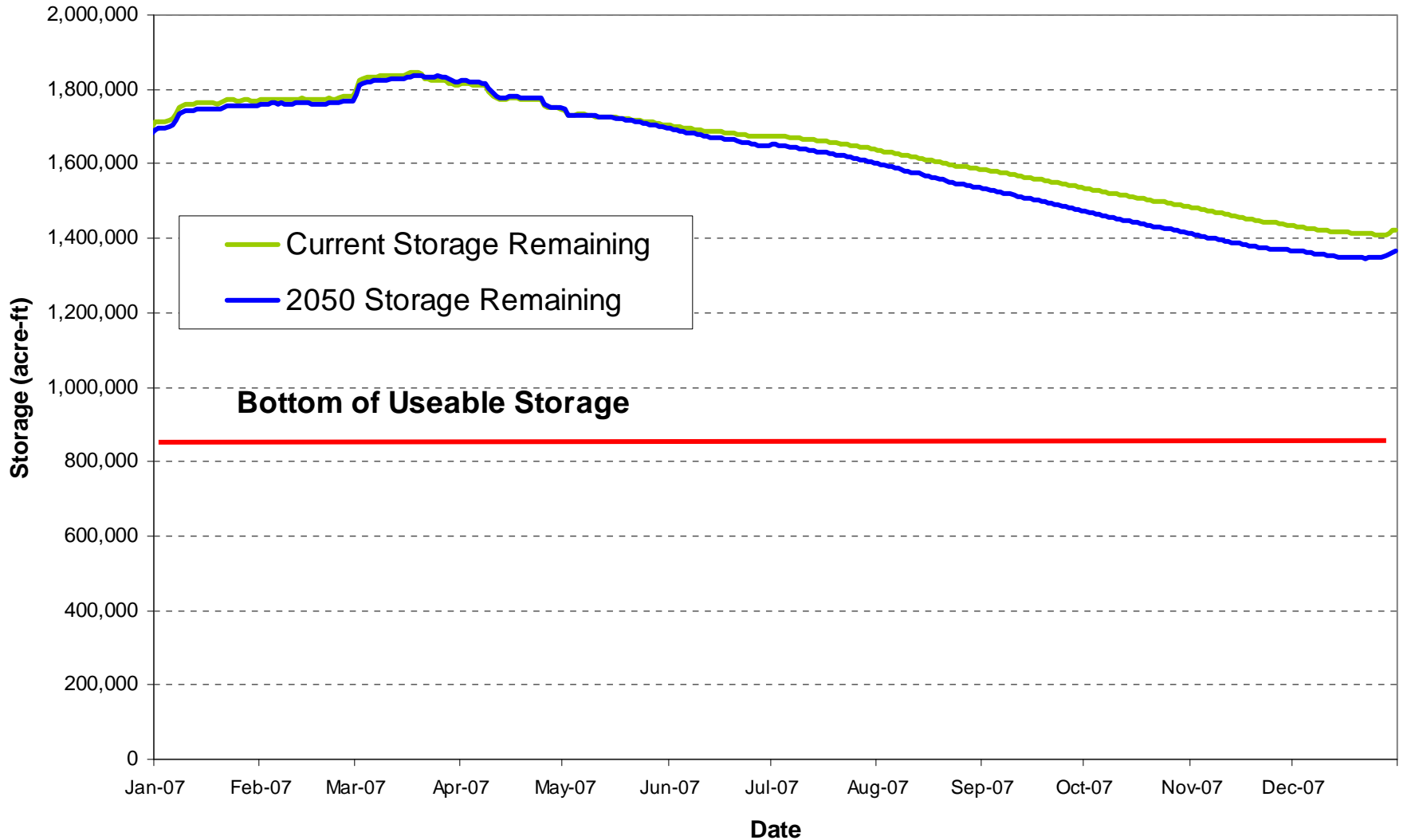


Comparison of Consumptive Demands At Whitesburg





Simulated Lake Lanier Storage



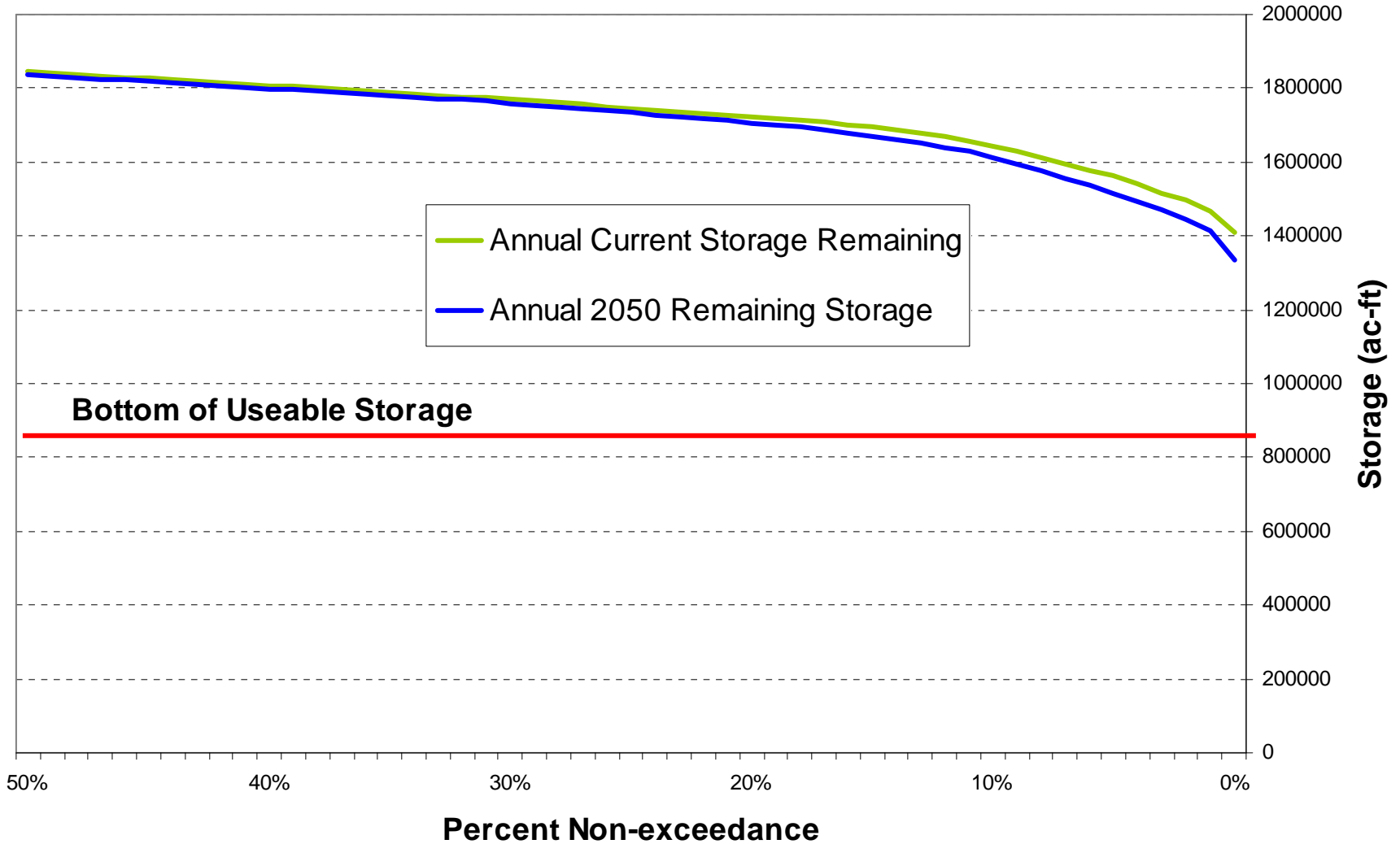


Gap Analysis at Whitesburg

Scenario	Demand Shortage (cfs)	At-site Flow Requirement Shortage (cfs)	Minimum Reservoir Storage (acre-feet)	Minimum Percentage Reservoir Storage	Basin-wide Flow Requirement shortage
Current	0	0	539,960 at Buford	50% at Buford	None
2050	0	0	471,867 at Buford	43% at Buford	None



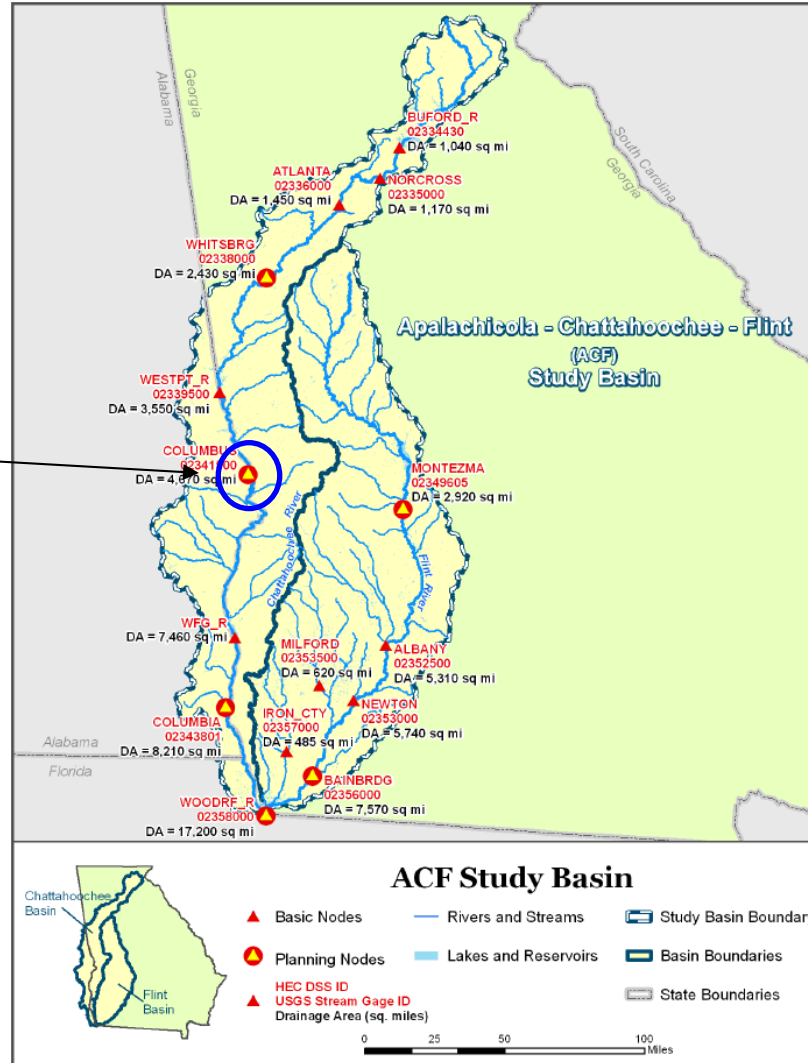
Exceedance Curves of Storage at Buford





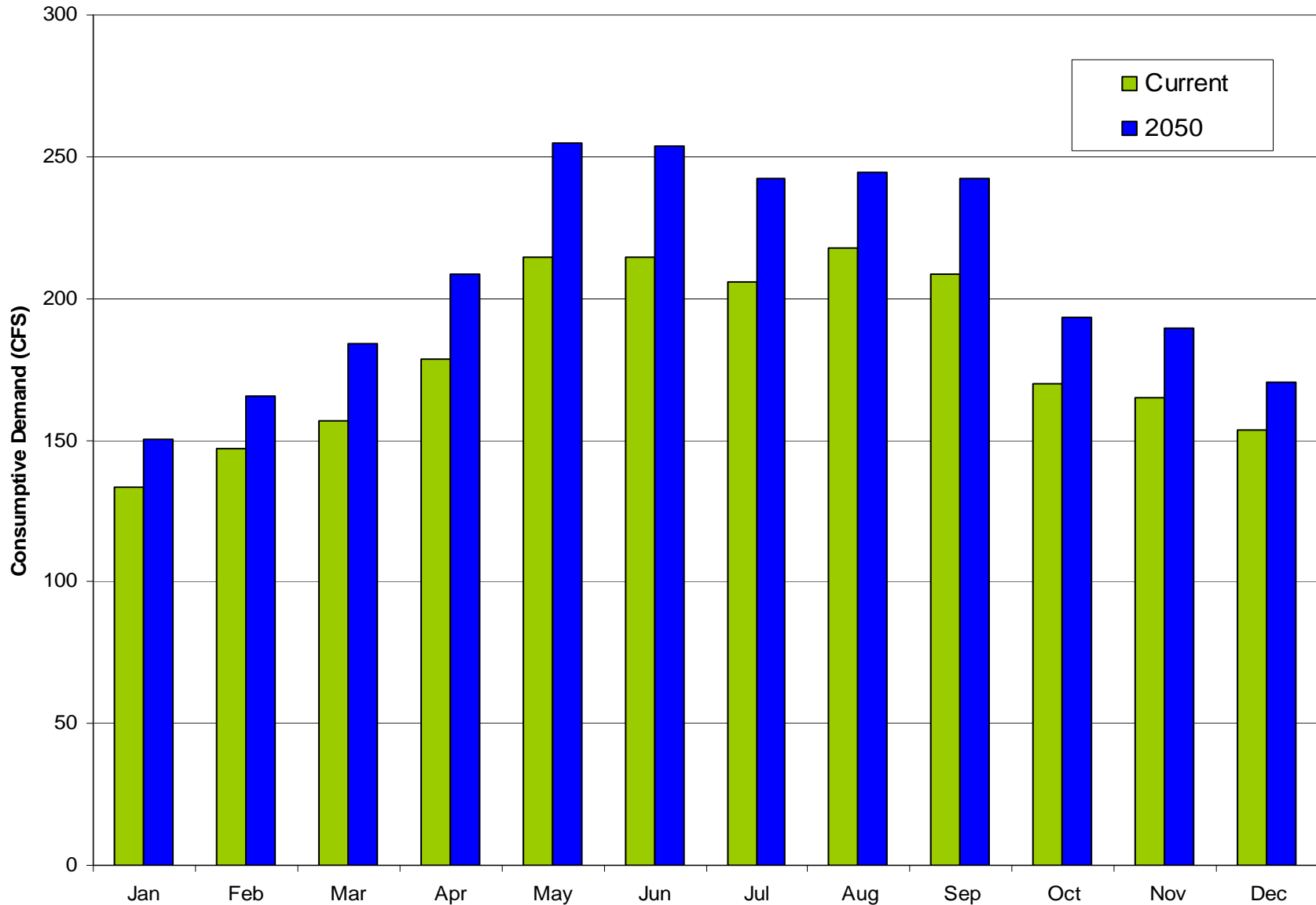
Columbus

Columbus



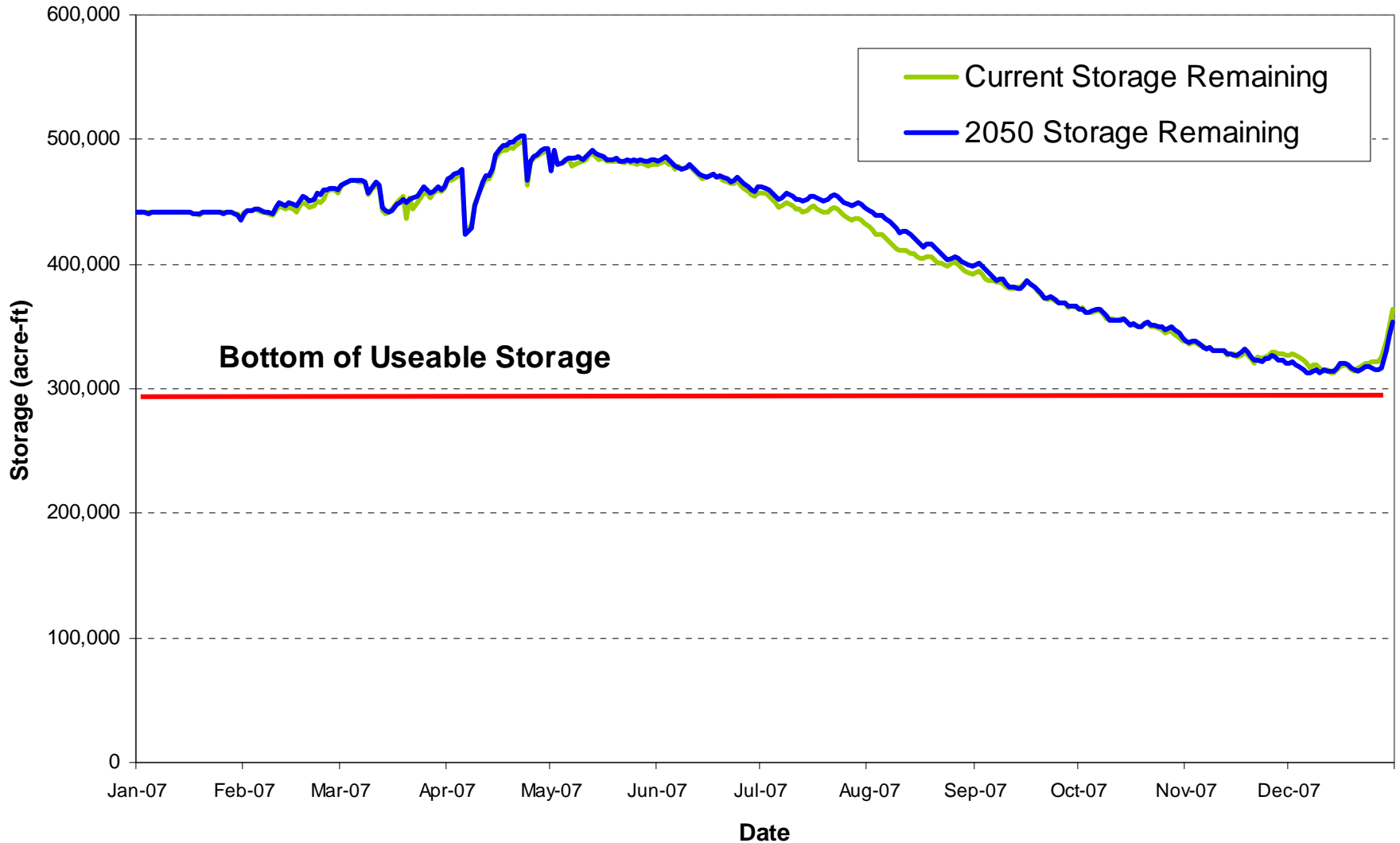


Comparison of Consumptive Demands At Columbus





Simulated West Point Storage



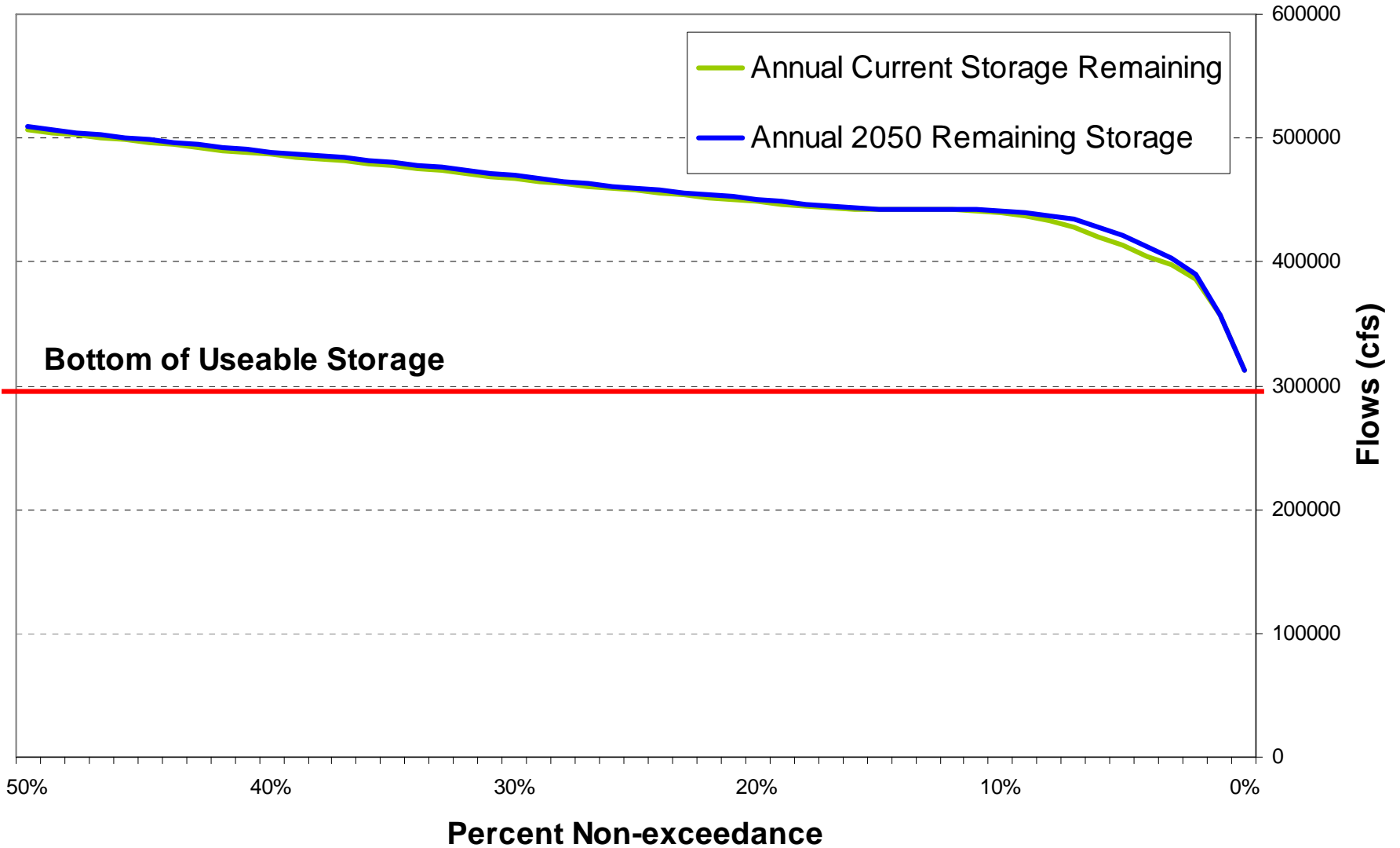


Gap Analysis at Columbus

Scenario	Demand Shortage (cfs)	At-site Flow Requirement Shortage (cfs)	Minimum Reservoir Storage (acre-feet)	Minimum Percentage Reservoir Storage	Basin-wide Flow Requirement shortage
Current	0	0	14,310 at West Point	5% at West Point	None
2050	0	0	14,269 at West Point	5% at West Point	None



Exceedance Curves of Storage at West Point

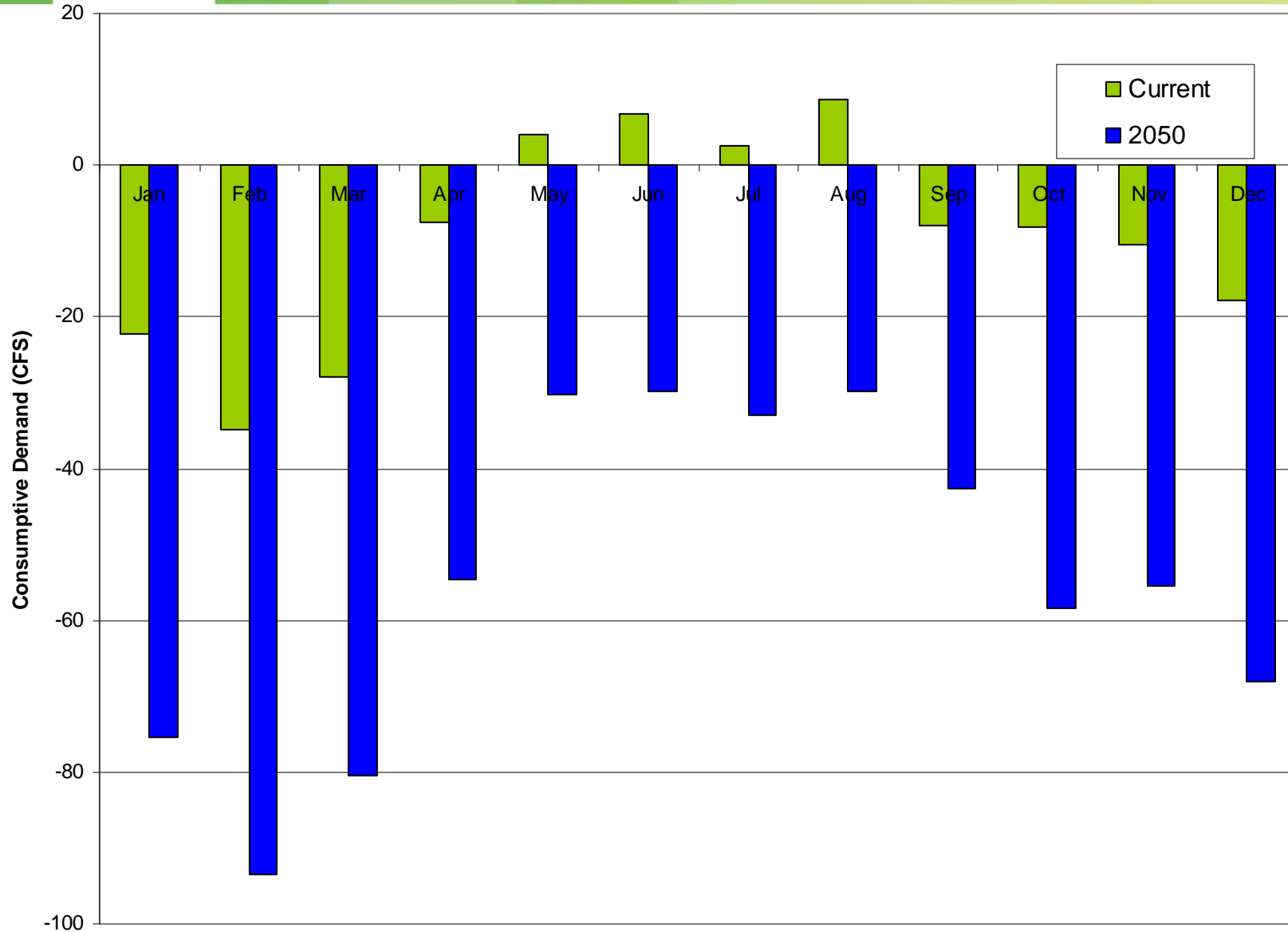


Columbia



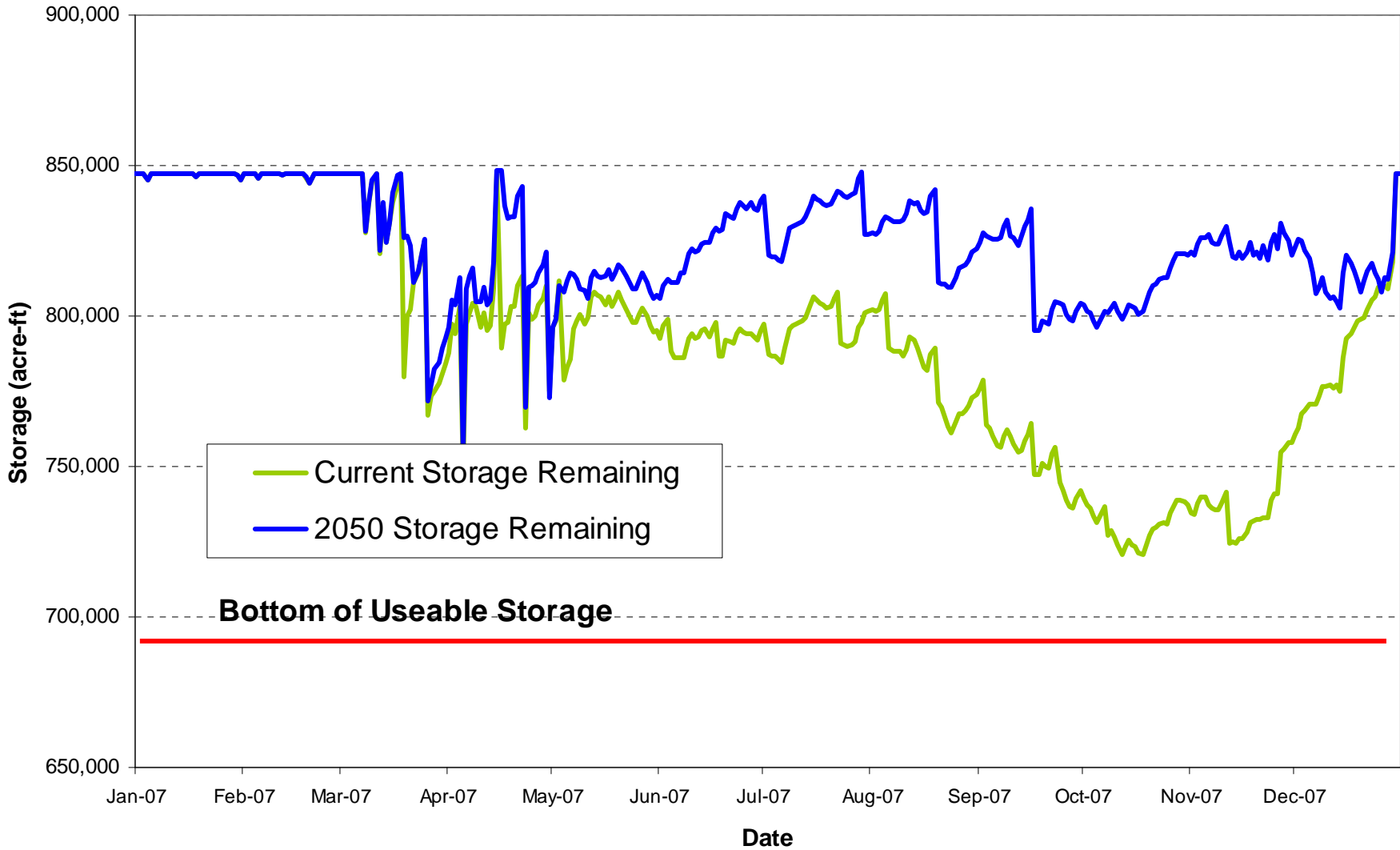


Comparison of Consumptive Demands At Columbia





Simulated W.F. George Storage



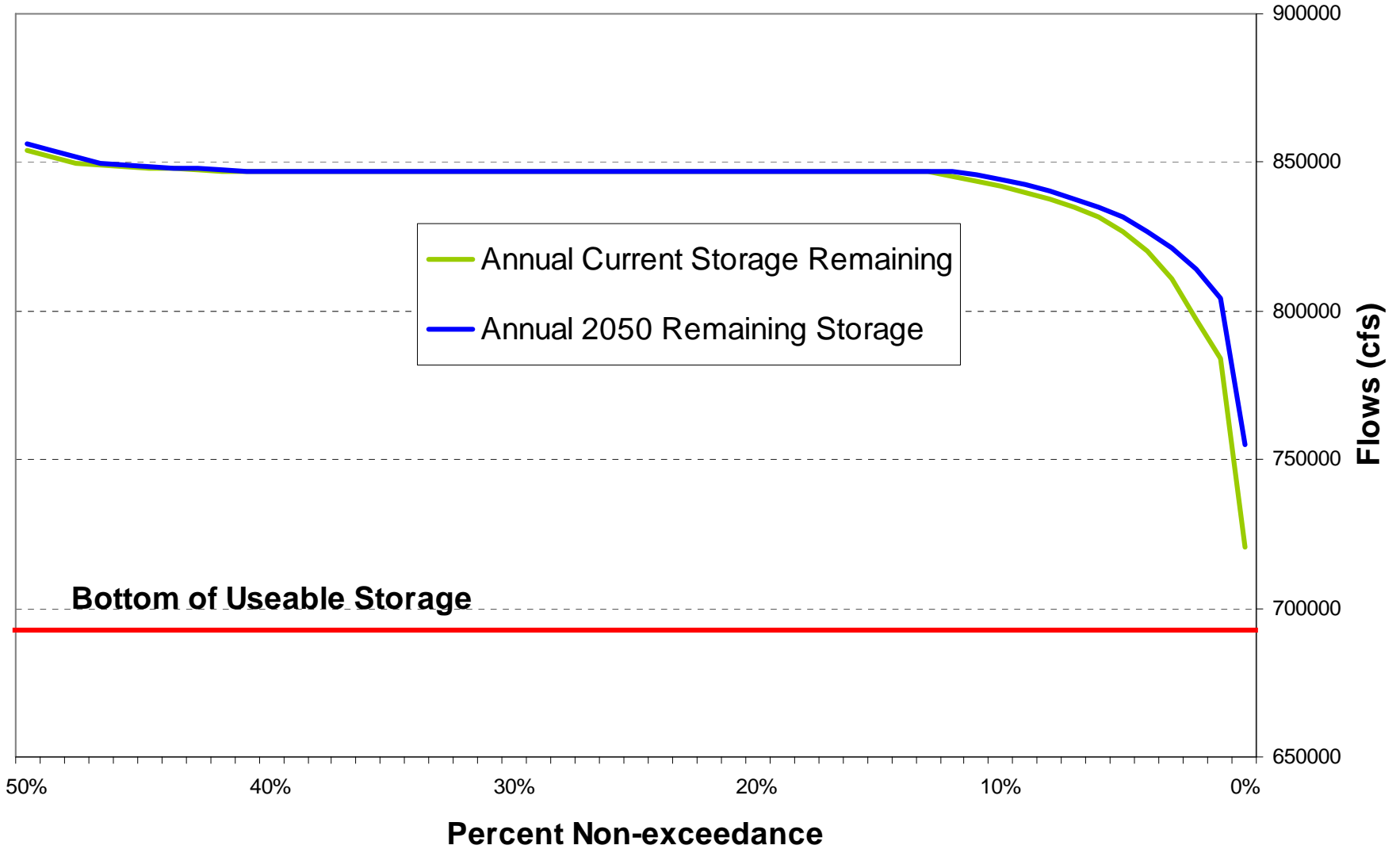


Gap Analysis at Columbia

Scenario	Demand Shortage (cfs)	At-site Flow Requirement Shortage (cfs)	Minimum Reservoir Storage (acre-feet)	Minimum Percentage Reservoir Storage	Basin-wide Flow Requirement shortage
Current	0	0	30,816 at W.F. George	13% at W.F. George	None
2050	0	0	64,924 at W.F. George	27% at W.F. George	None



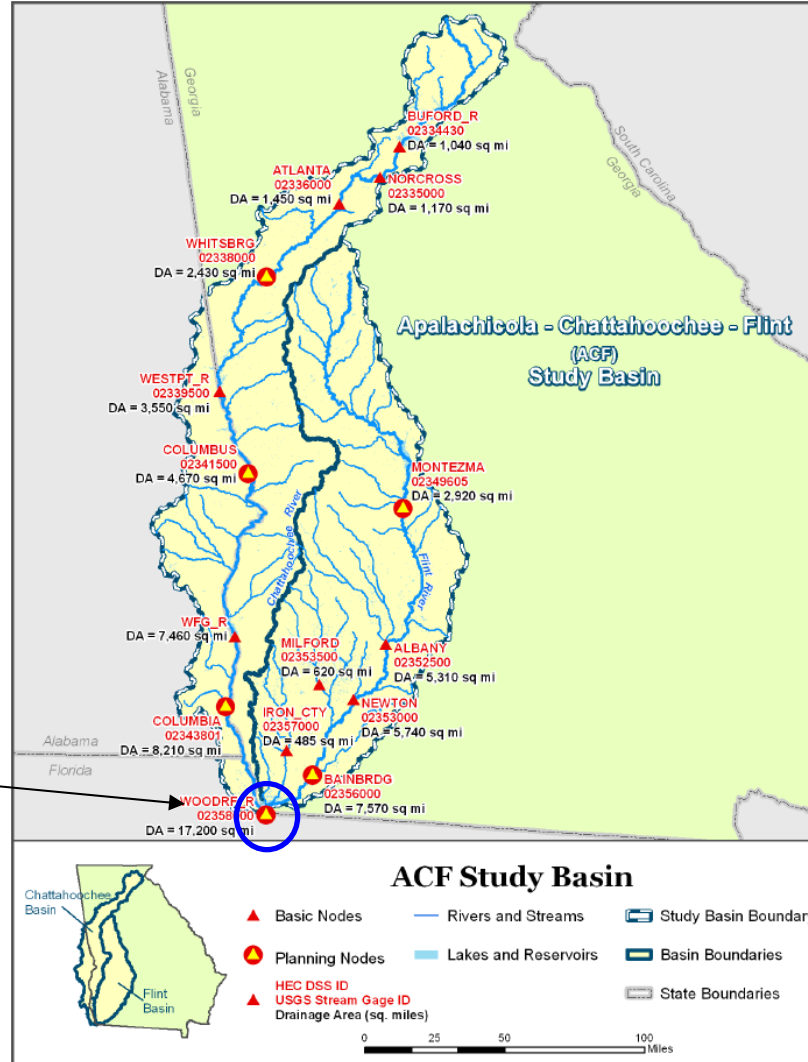
Exceedance Curves of Storage at W.F. George





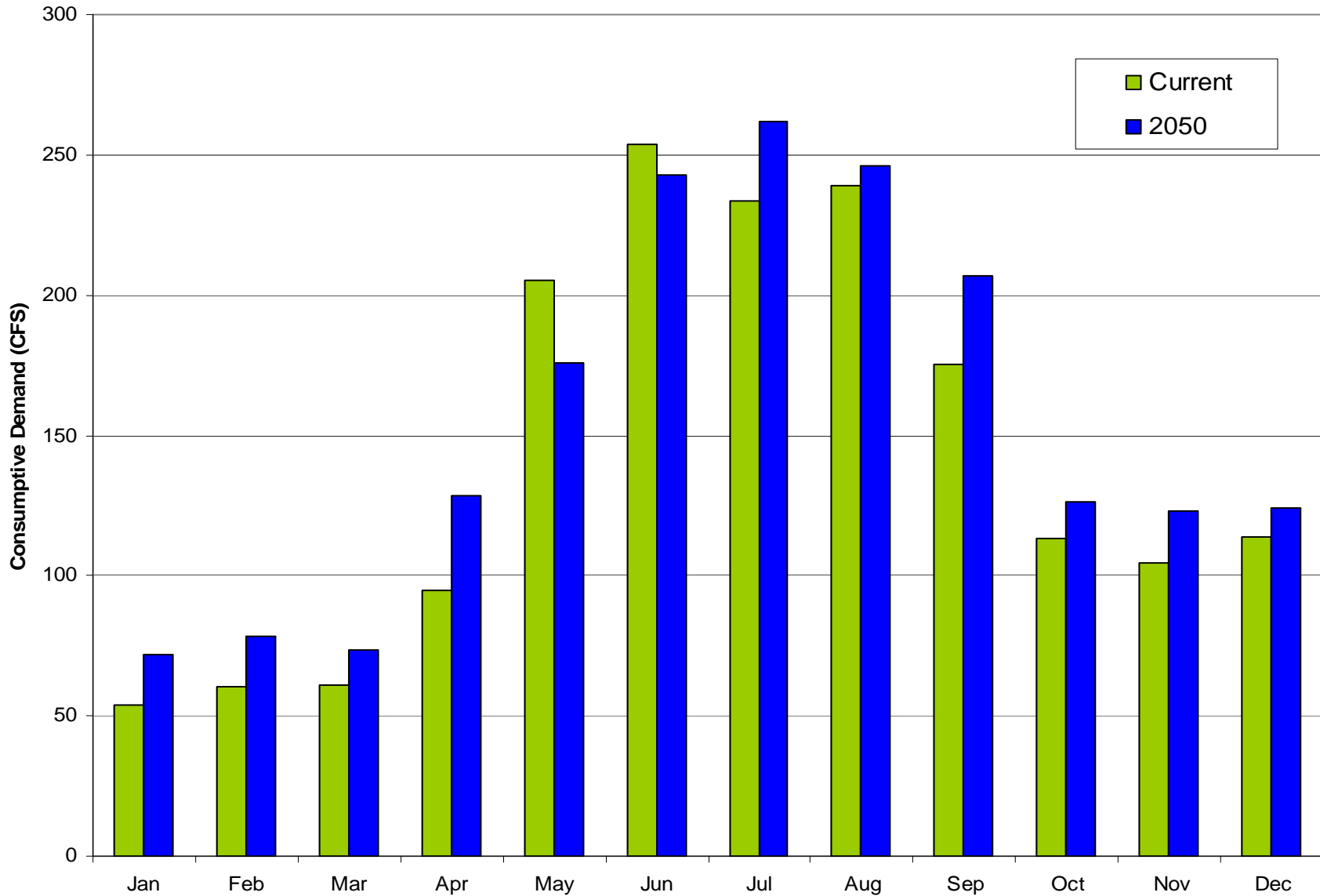
Jim Woodruff

Woodruff



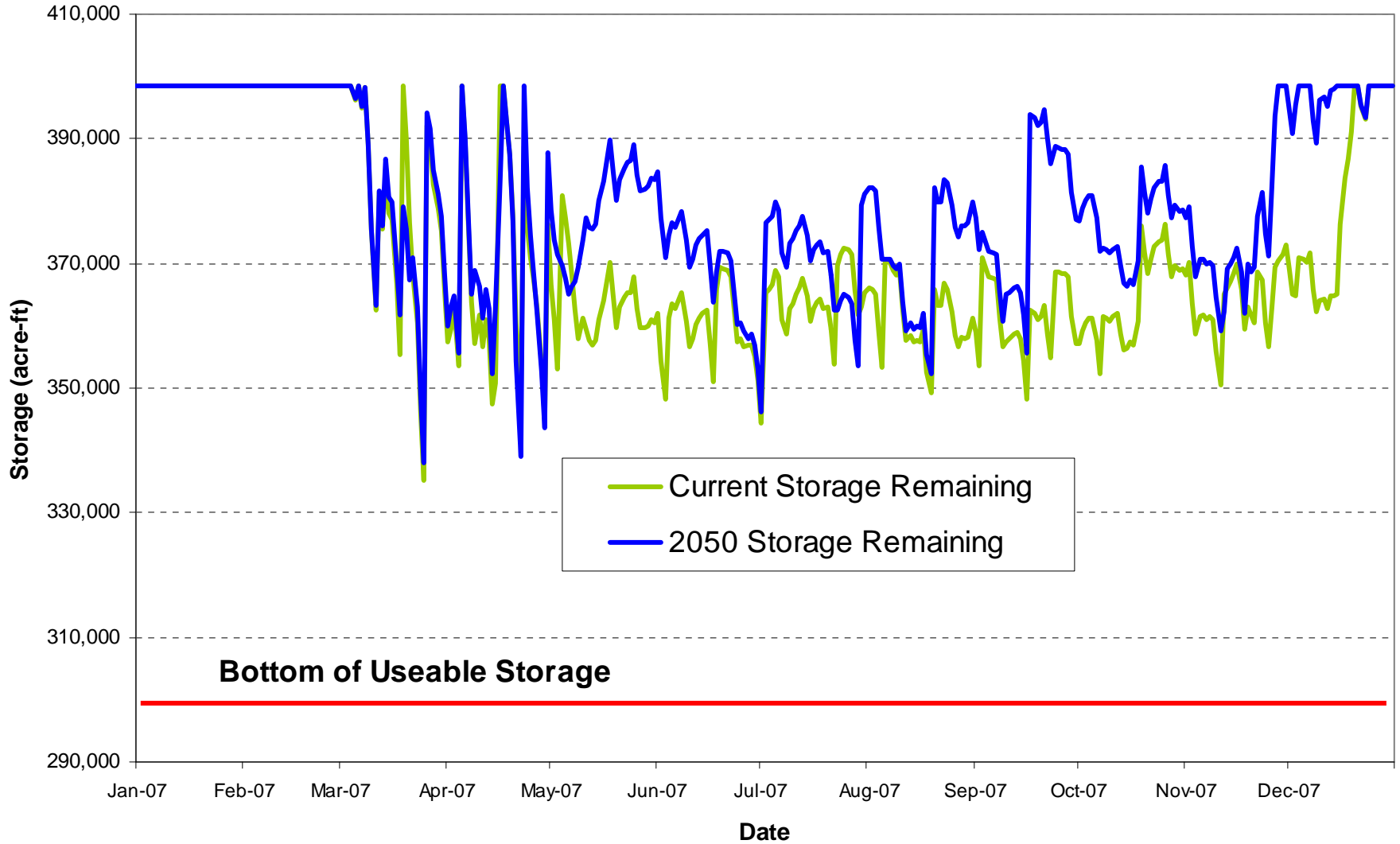


Comparison of Consumptive Demands At Woodruff





Simulated Woodruff Storage





Gap Analysis at Jim Woodruff

Scenario	Demand Shortage (cfs)	At-site Flow Requirement Shortage (cfs)	Minimum Reservoir Storage (acre-feet)	Minimum Percentage Reservoir Storage	Basin-wide Flow Requirement shortage
Current	0	0	585,086 at Buford, WP, & WFG	36% at Buford, WP, & WFG	None
2050	0	0	551,060 at Buford, WP, & WFG	34% at Buford, WP, & WFG	None



Exceedance Curves of Storage at Woodruff

