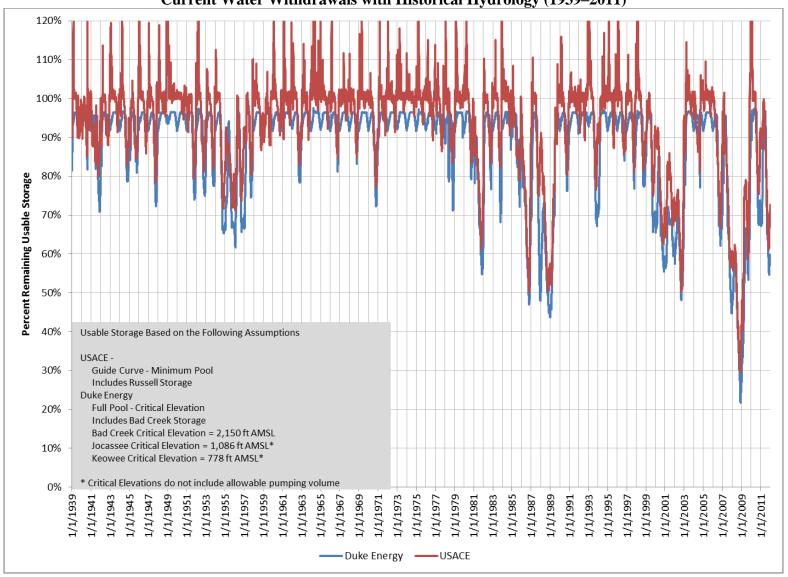
APPENDIX K REMAINING USABLE STORAGE

Appendix K Remaining Usable Storage

Figure K-1 Duke and USACE Remaining Usable Storage – NAA / A1 Current Water Withdrawals with Historical Hydrology (1939–2011)



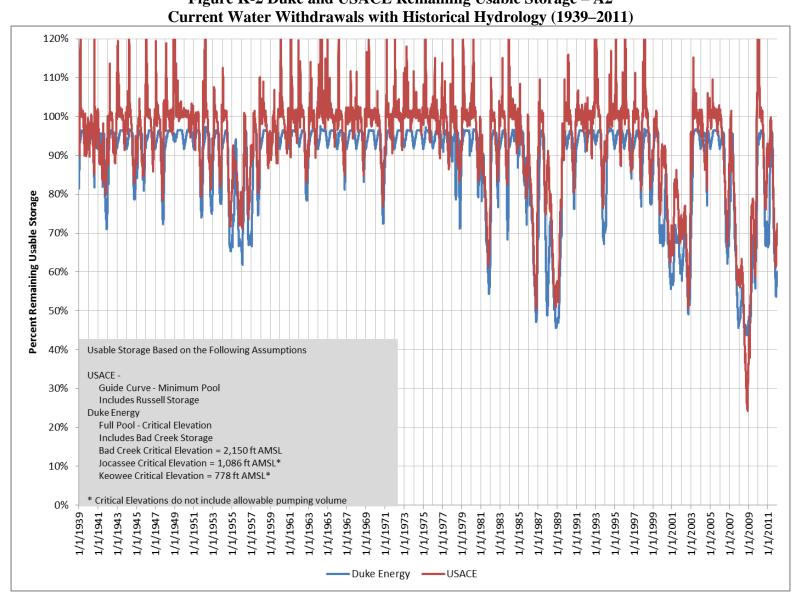


Figure K-2 Duke and USACE Remaining Usable Storage – A2

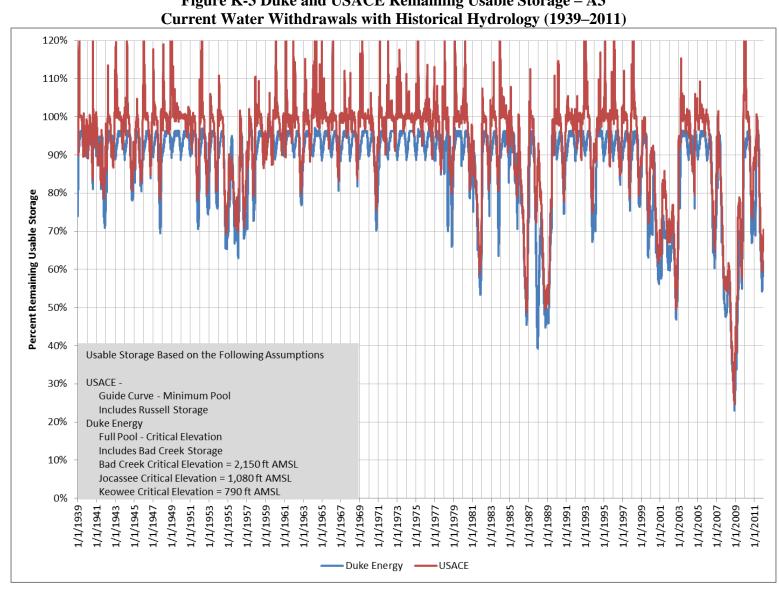


Figure K-3 Duke and USACE Remaining Usable Storage – A3

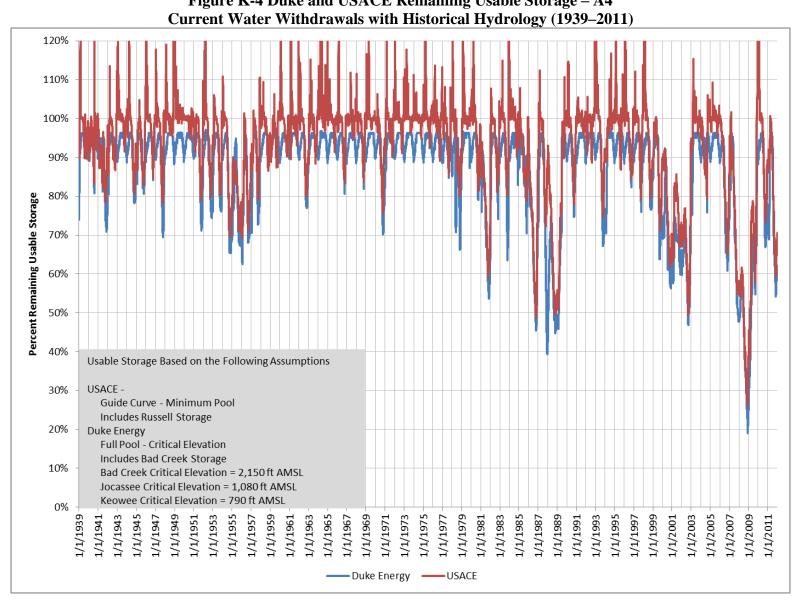


Figure K-4 Duke and USACE Remaining Usable Storage – A4

Future Water Withdrawals with Climate Change Hydrology (1939–2011) 120% 110% 100% 90% Percent Remaining Usable Storage 70% 60% 50% Usable Storage Based on the Following Assumptions 40% USACE -Guide Curve - Minimum Pool 30% Includes Russell Storage **Duke Energy** Full Pool - Critical Elevation 20% Includes Bad Creek Storage Bad Creek Critical Elevation = 2,150 ft AMSL Jocassee Critical Elevation = 1,086 ft AMSL* 10% Keowee Critical Elevation = 778 ft AMSL* * Critical Elevations do not include allowable pumping volume 0% 1/1/1943 1/1/1945 1/1/1947 1/1/1949 1/1/1951 1/1/1953 1/1/1955 1/1/1959 1/1/1961 1/1/1963 1/1/1965 1/1/1969 1/1/1971 1/1/1975 1/1/1979 1/1/1981 1/1/1983 1/1/1985 1/1/1987 1/1/1989 1/1/1991 1/1/1993 1/1/1995 1/1/1999 1/1/2001 1/1/2003 1/1/2005 1/1/2007 1/1/2011 1/1/1957 1/1/1977 1/1/1997 1/1/1939 1/1/1967 1/1/1973 Duke Energy ——USACE

Figure K-5 Duke and USACE Remaining Usable Storage - NAA / A1

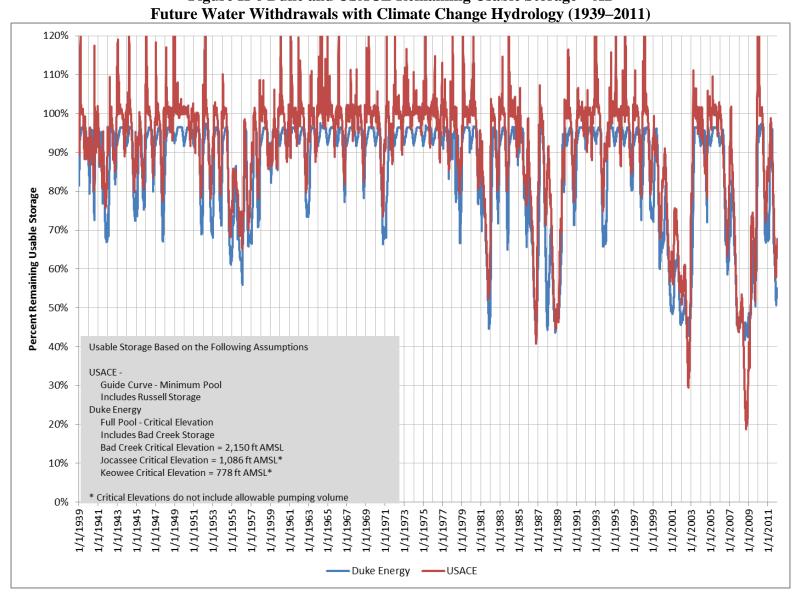


Figure K-6 Duke and USACE Remaining Usable Storage – A2

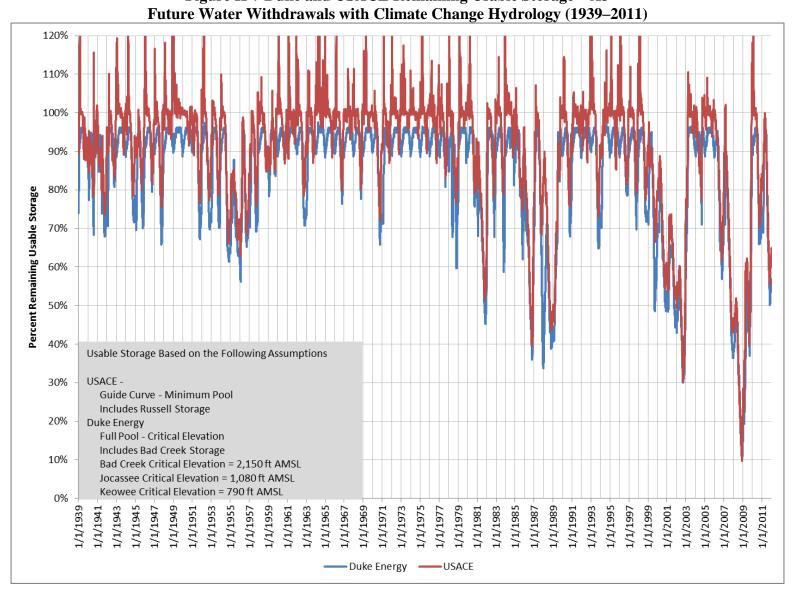


Figure K-7 Duke and USACE Remaining Usable Storage – A3

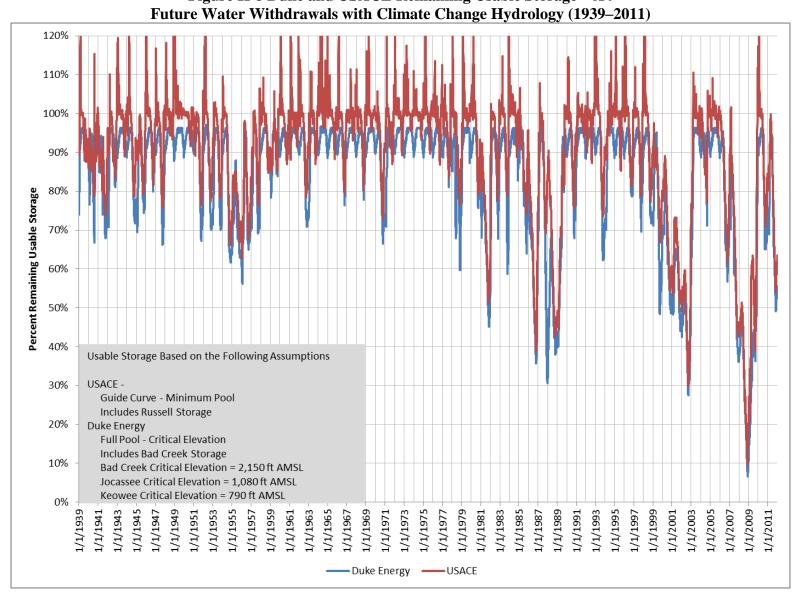


Figure K-8 Duke and USACE Remaining Usable Storage – A4

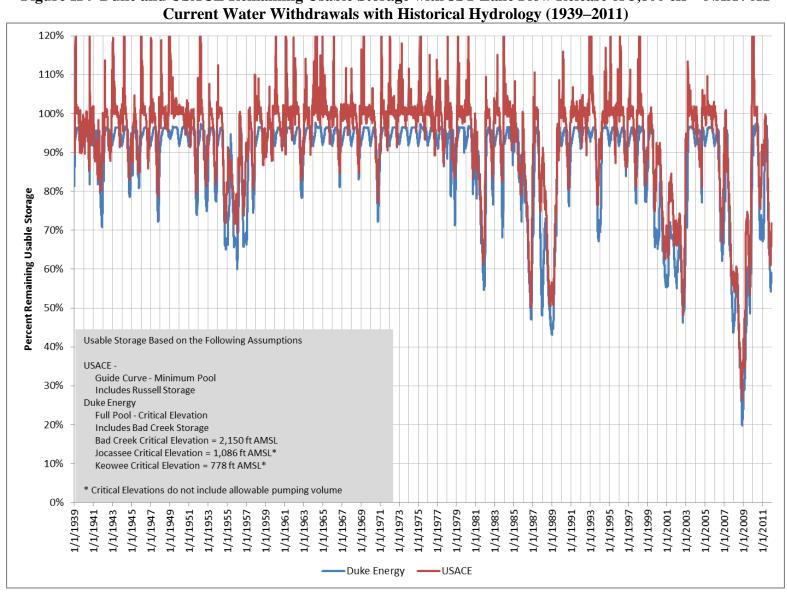


Figure K-9 Duke and USACE Remaining Usable Storage with JST Lake Flow Release of 3,800 cfs - NAA / A1

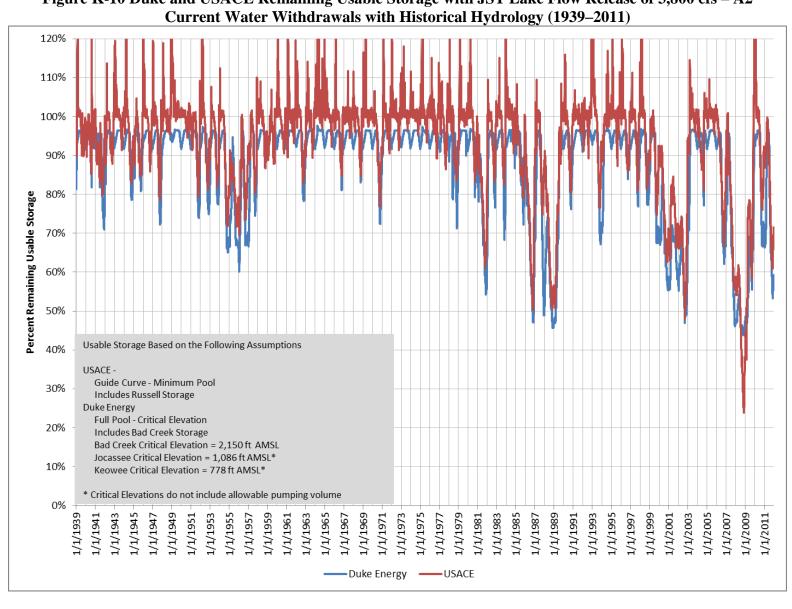
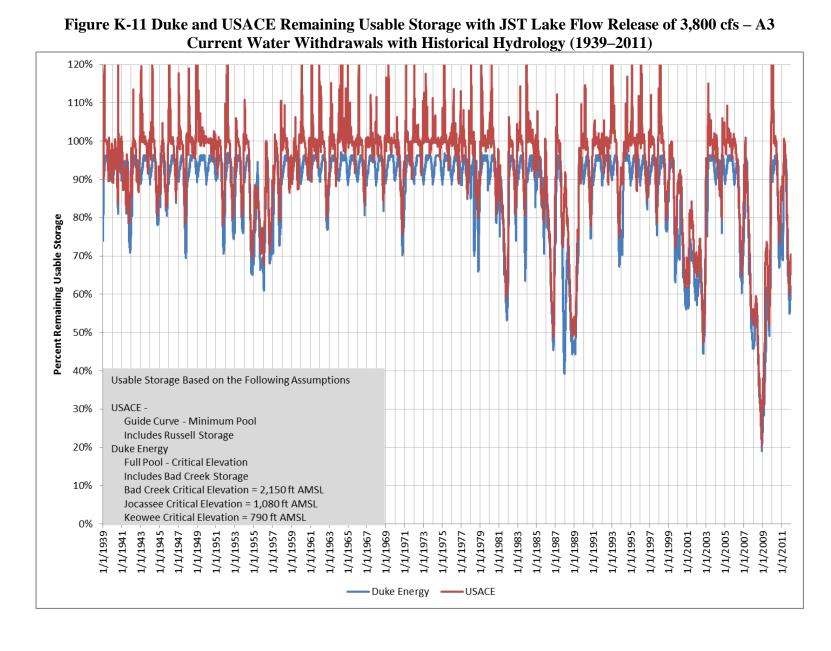


Figure K-10 Duke and USACE Remaining Usable Storage with JST Lake Flow Release of 3,800 cfs – A2



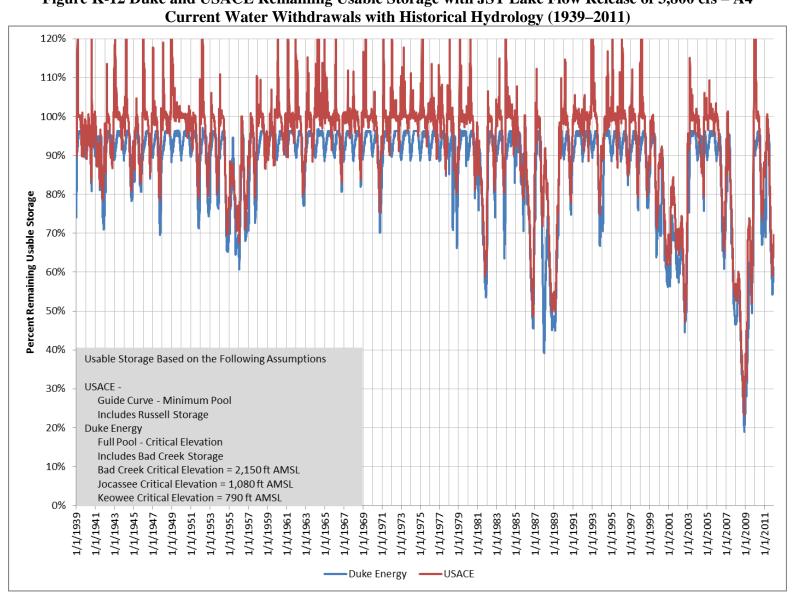


Figure K-12 Duke and USACE Remaining Usable Storage with JST Lake Flow Release of 3,800 cfs - A4

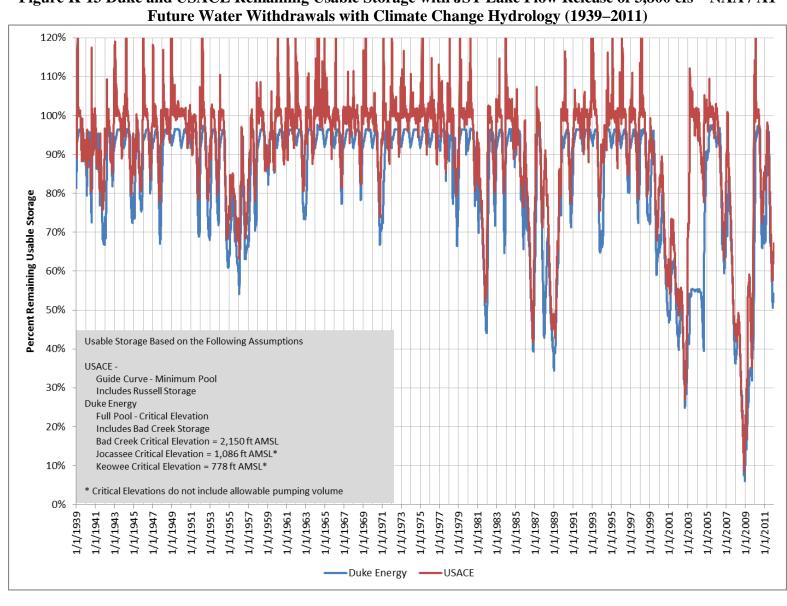


Figure K-13 Duke and USACE Remaining Usable Storage with JST Lake Flow Release of 3,800 cfs - NAA / A1

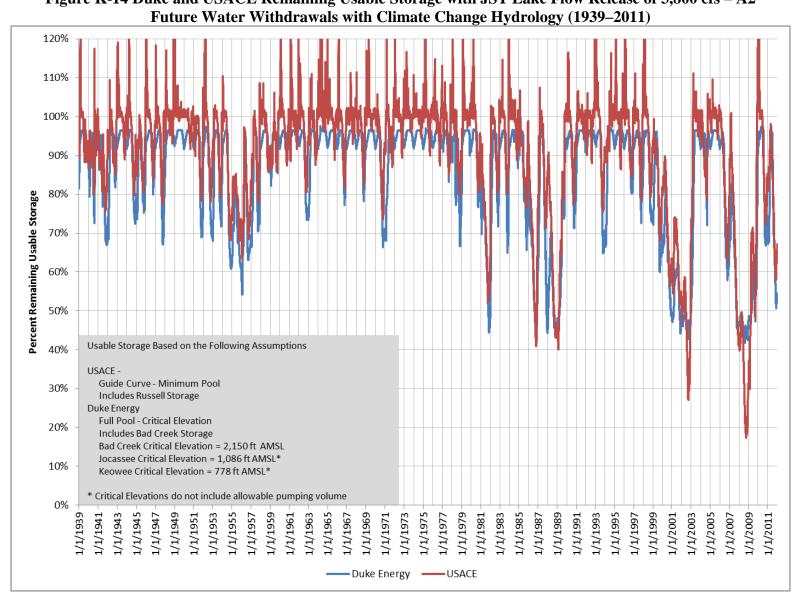


Figure K-14 Duke and USACE Remaining Usable Storage with JST Lake Flow Release of 3,800 cfs – A2

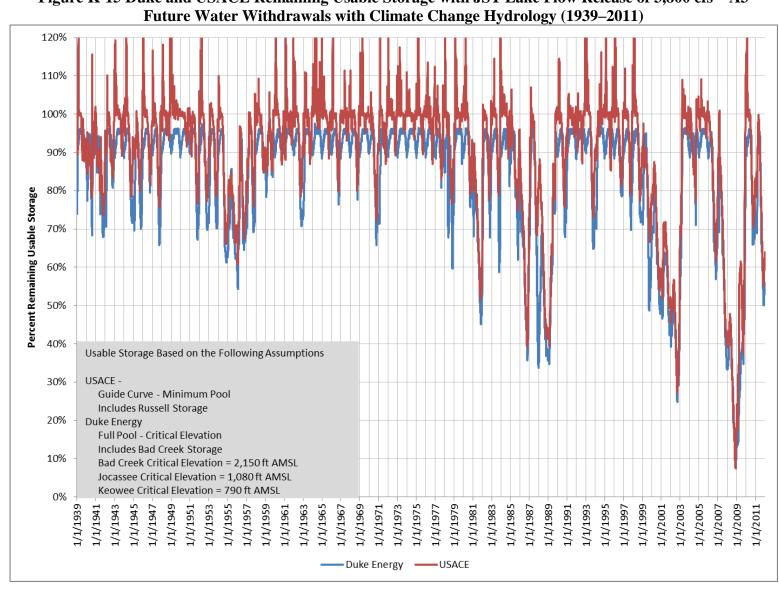


Figure K-15 Duke and USACE Remaining Usable Storage with JST Lake Flow Release of 3,800 cfs - A3

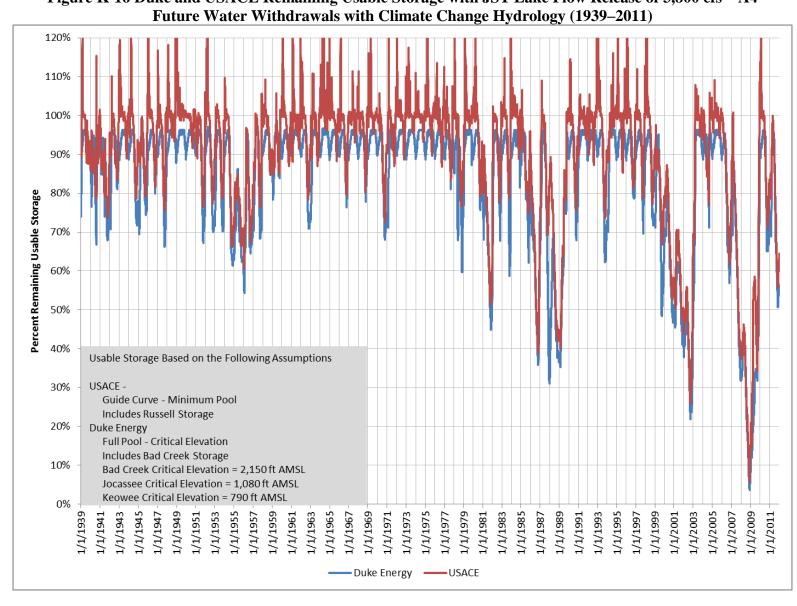


Figure K-16 Duke and USACE Remaining Usable Storage with JST Lake Flow Release of 3,800 cfs - A4