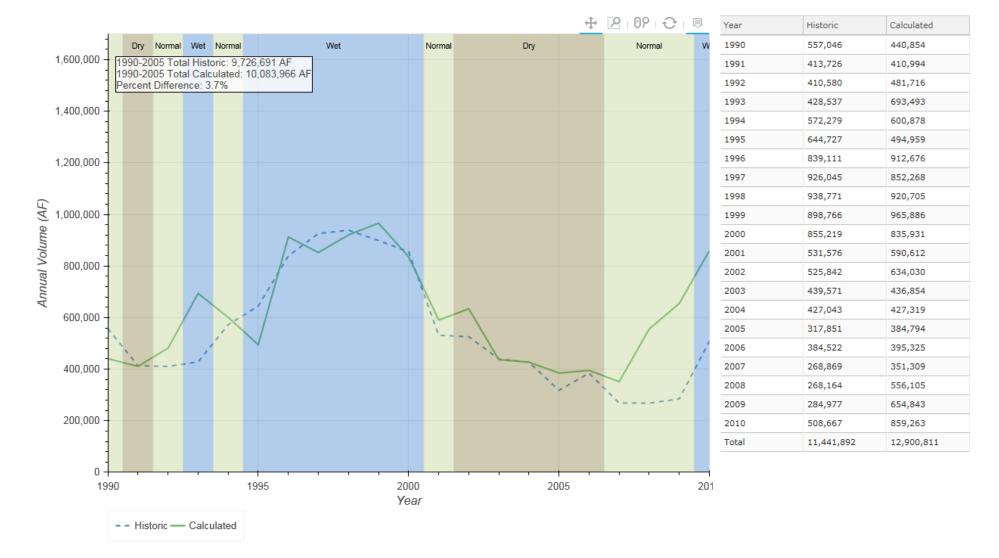
Surface Water Model Calibration Results – Canal Diversions and Returns

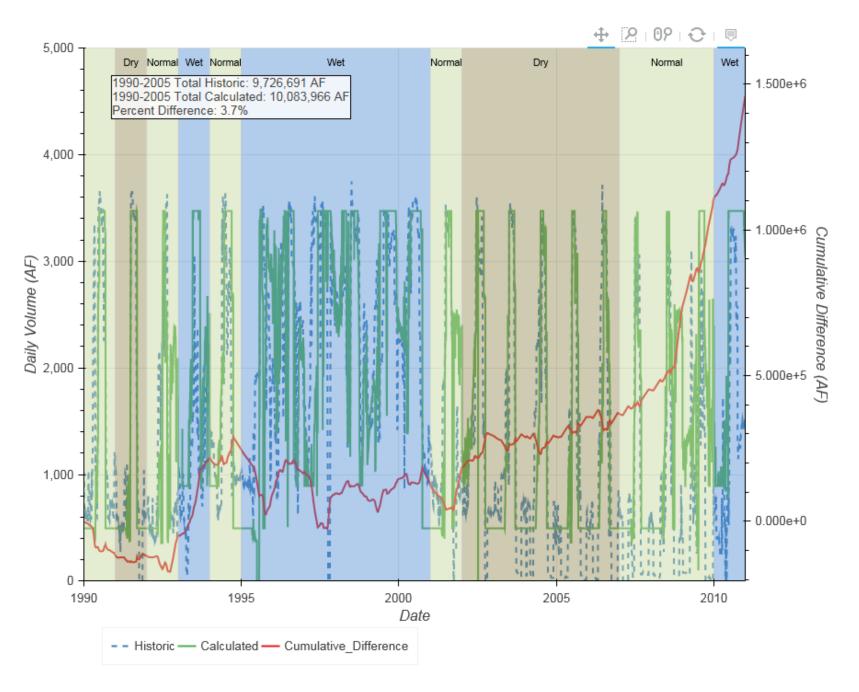
Appendix 6-J contains calibration results for the canal diversions and returns. Figures include annual and daily simulated and historic flows plotted for each canal diversion and return for the period 1990-2005. Daily plots include the cumulative differences between historic and modeled daily flow for each diversion and gaged return as well (simulated – historic; positive cumulative difference represents an over prediction by the model). The shaded background in the figures represents the annual wet/dry/normal hydrologic classification of the Platte River basin as determined by US F&WS and is included to assess model performance over varying hydrologic conditions. For select canal diversions, daily plots in four-year intervals are provided for more detailed inspection of model performance. A location map is provided on the plots to identify the diversion/return spatially in the model domain. Finally, a summary table displays the total historic diversion, total calculated (modeled) diversion, and percent difference for the period 1990-2005. Diversion and return locations include the following:

- Keystone Diversion
- North Platte Canals (Total)
- Keith Lincoln Diversion
- North Platte Diversion
- Paxton Hershey Diversion
- Suburban Diversion
- Cody Dillon Diversion
- Birdwood Diversion
- Western Diversion
- Korty Diversion
- Tri County Diversion
- Gothenburg Diversion
- Thirty Mile Diversion
- Six Mile Diversion
- Cozad Diversion
- Dawson Diversion
- Orchard Alfalfa Diversion
- Kearney Diversion
- E-65 Diversion
- E-67 Diversion
- Phelps Diversion
- Jeffrey Return
- Johnson Return
- Sutherland Return

Keystone Diversion

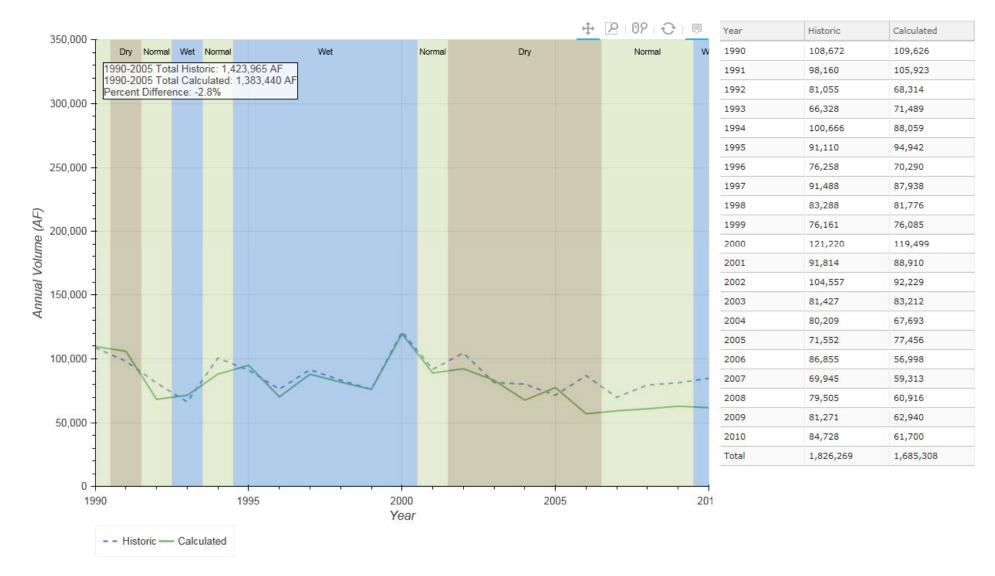


Keystone Diversion



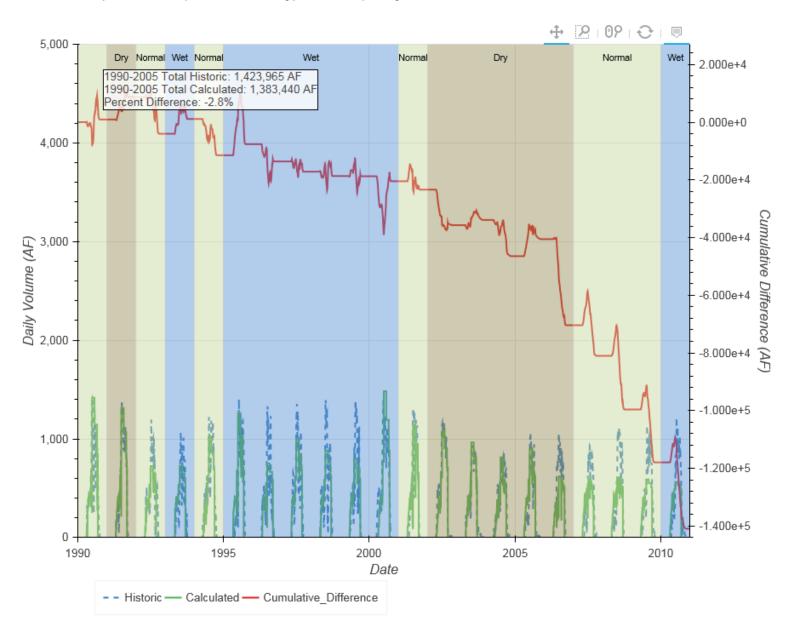
North Platte Canals (Total)

Keith Lincoln, North Platte, Paxton Hershey, Suburban, Cody Dillon

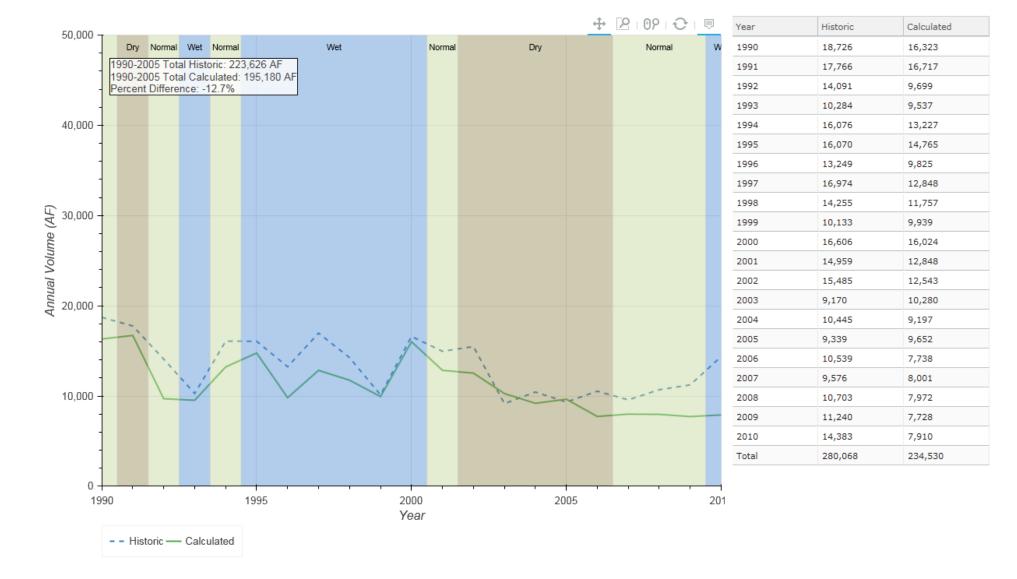


North Platte Canals (Total)

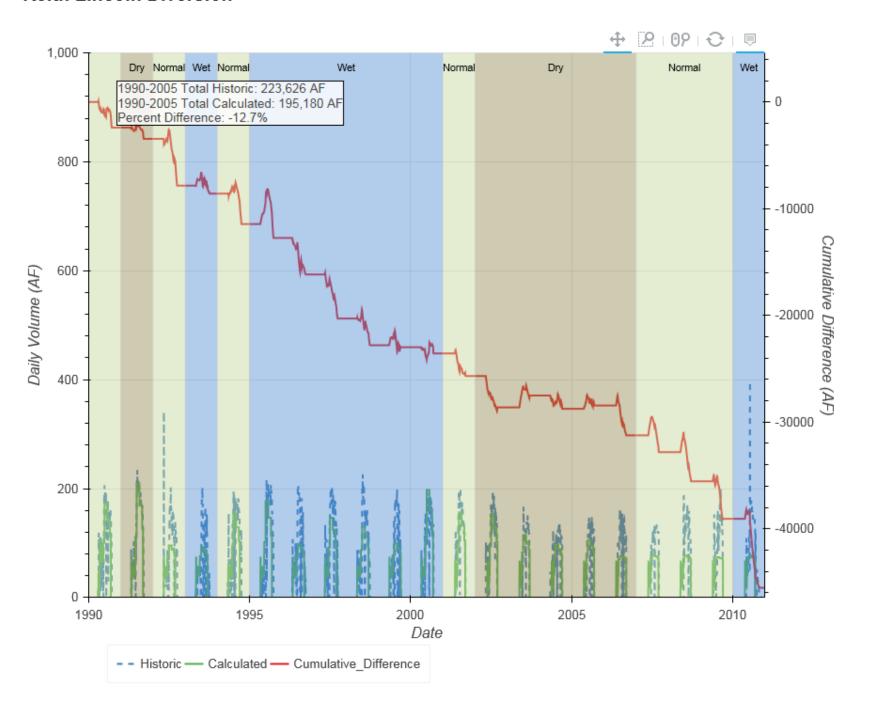
Keith Lincoln, North Platte, Paxton Hershey, Suburban, Cody Dillon



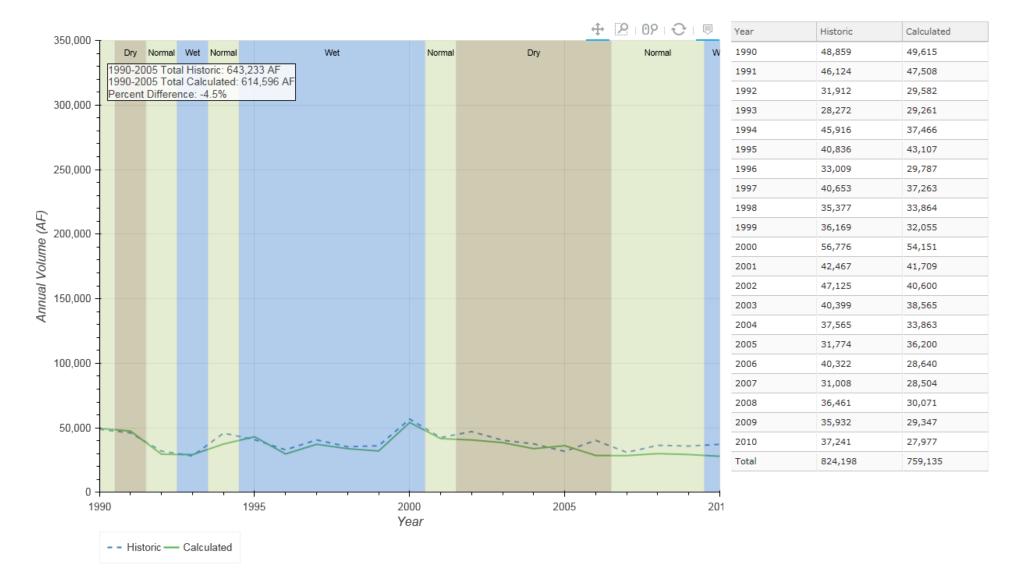
Keith Lincoln Diversion



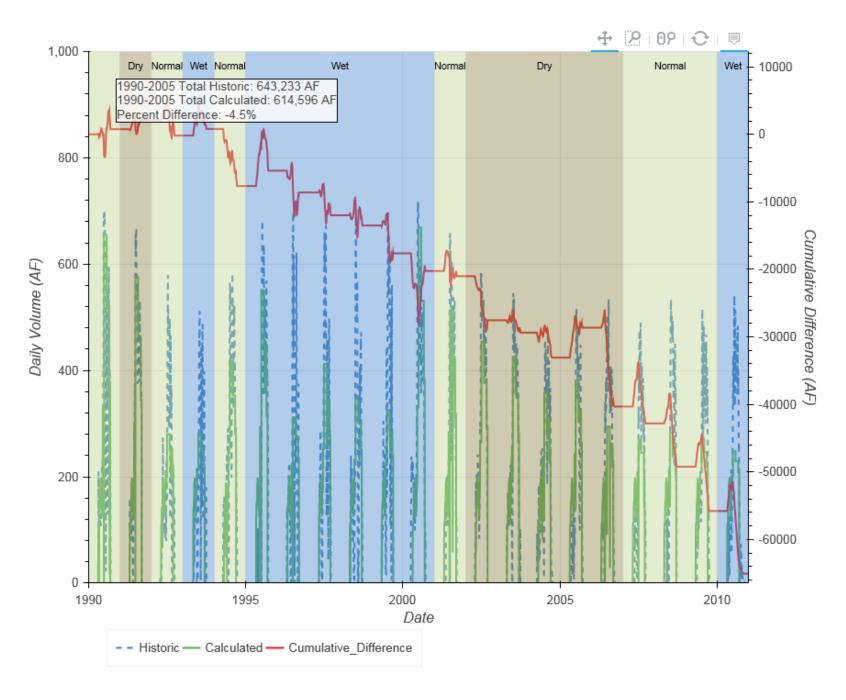
Keith Lincoln Diversion



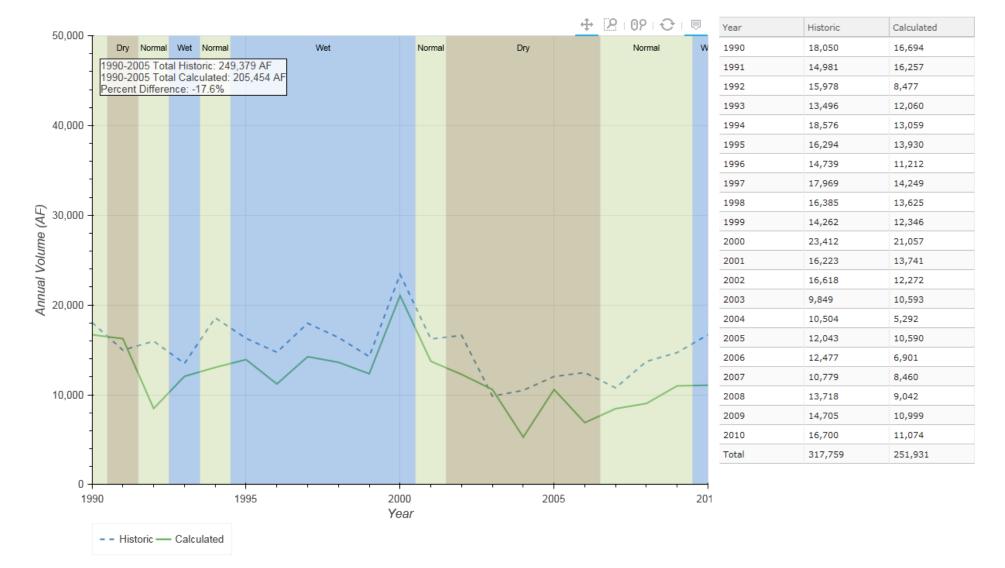
North Platte Diversion



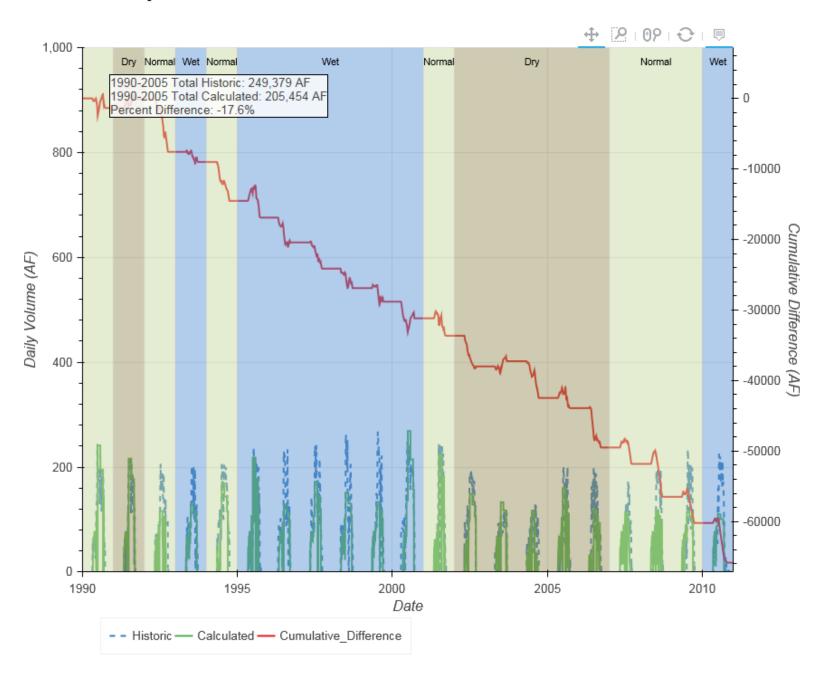
North Platte Diversion



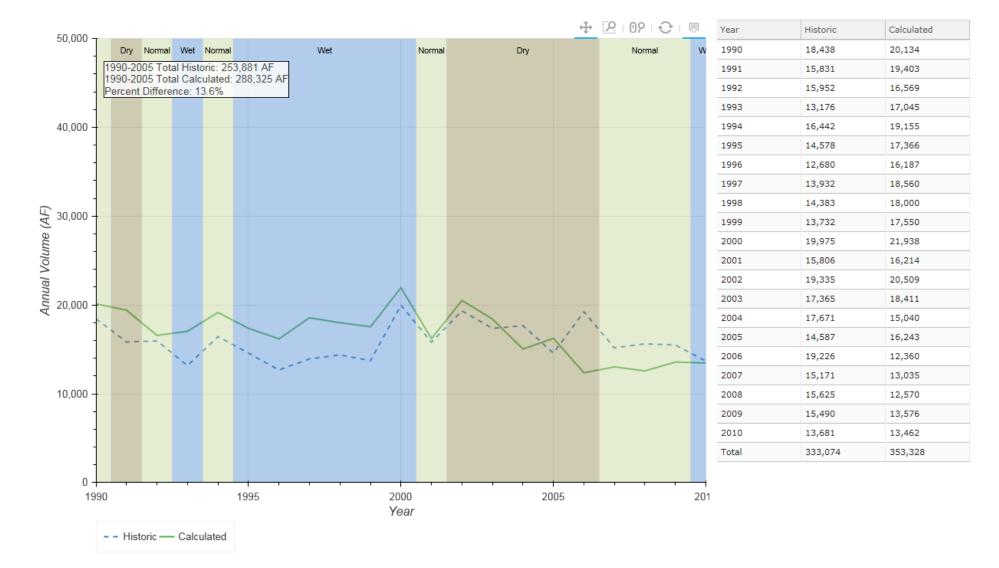
Paxton-Hershey Diversion



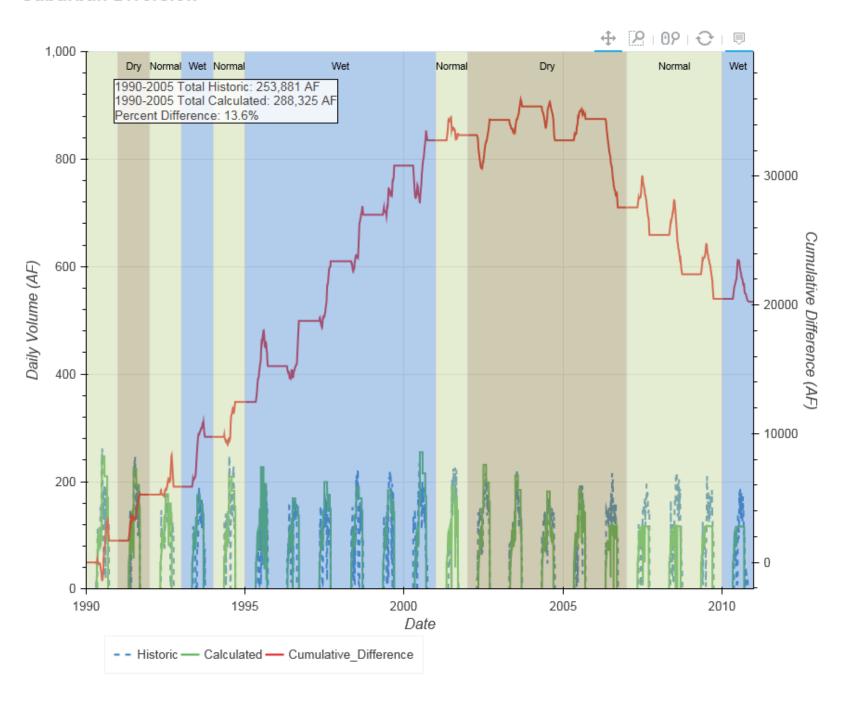
Paxton-Hershey Diversion



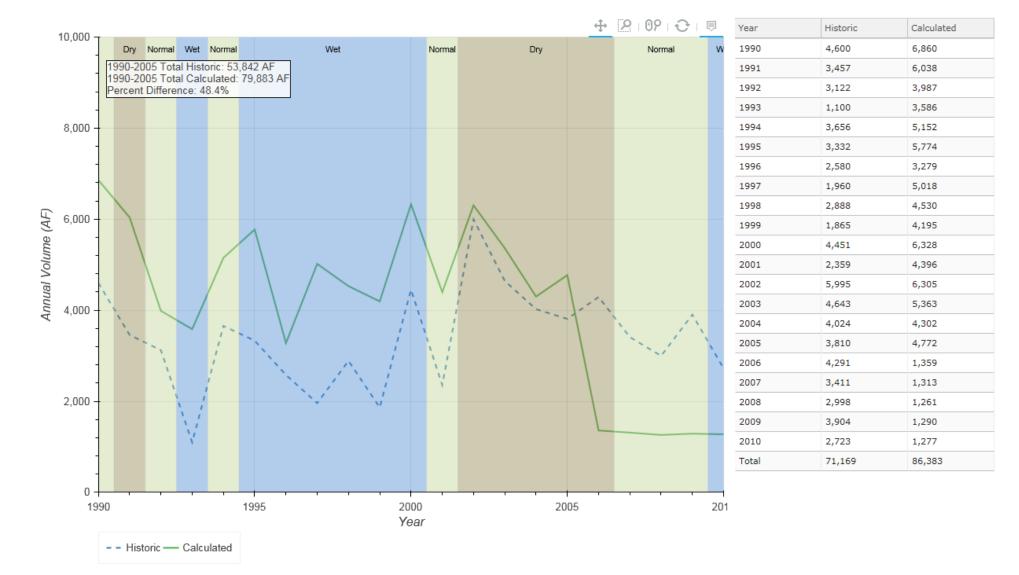
Suburban Diversion



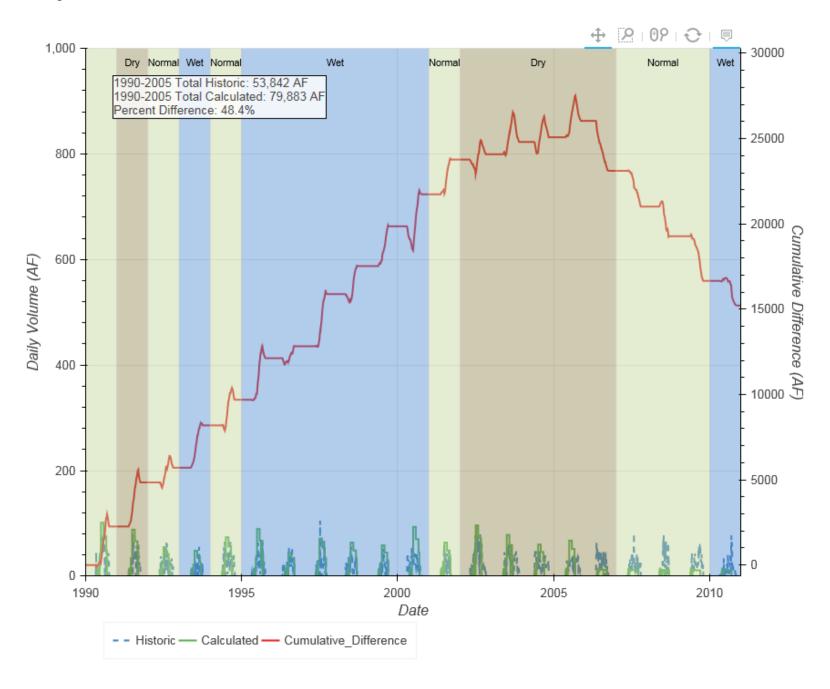
Suburban Diversion



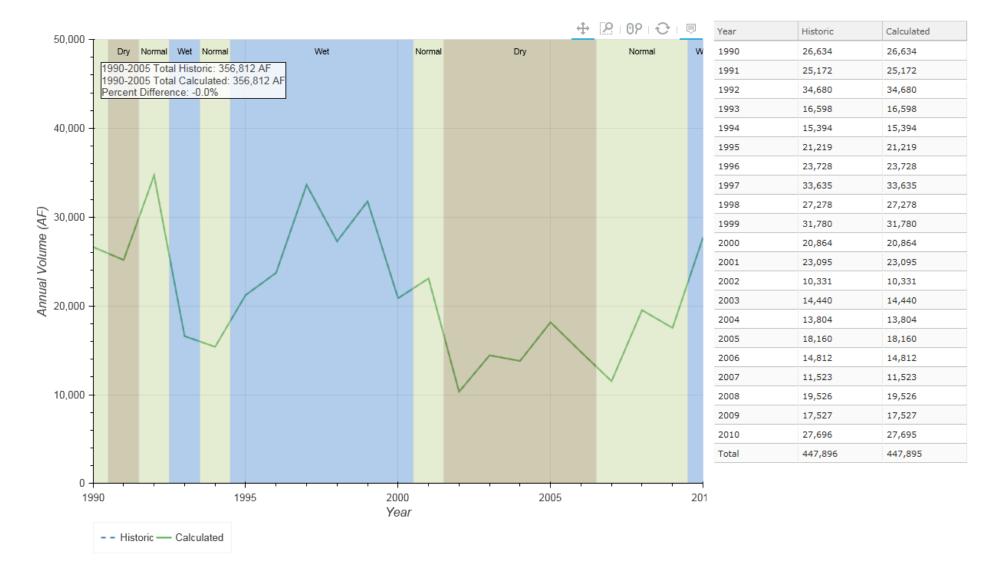
Cody Dillon Diversion



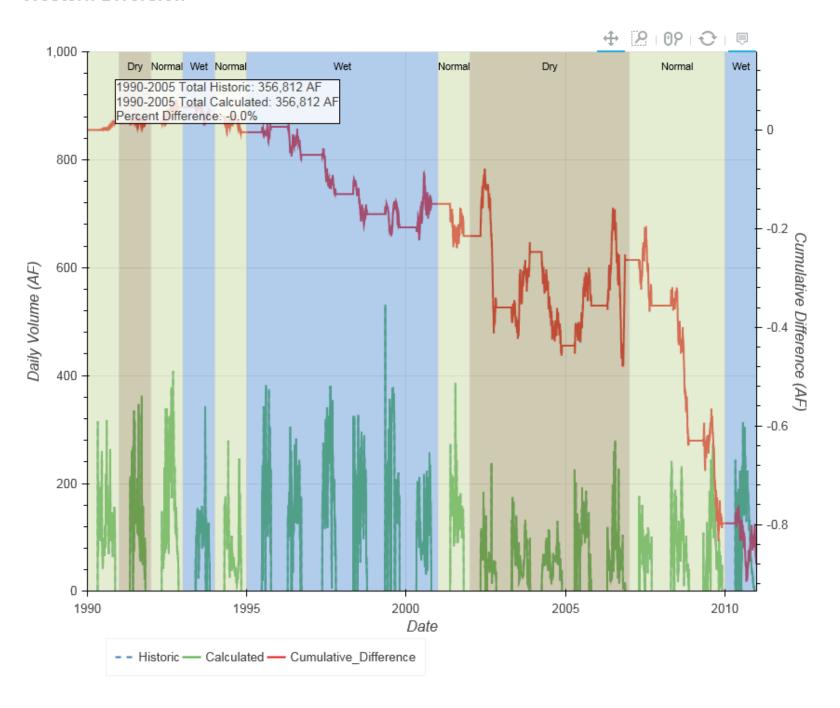
Cody Dillon Diversion



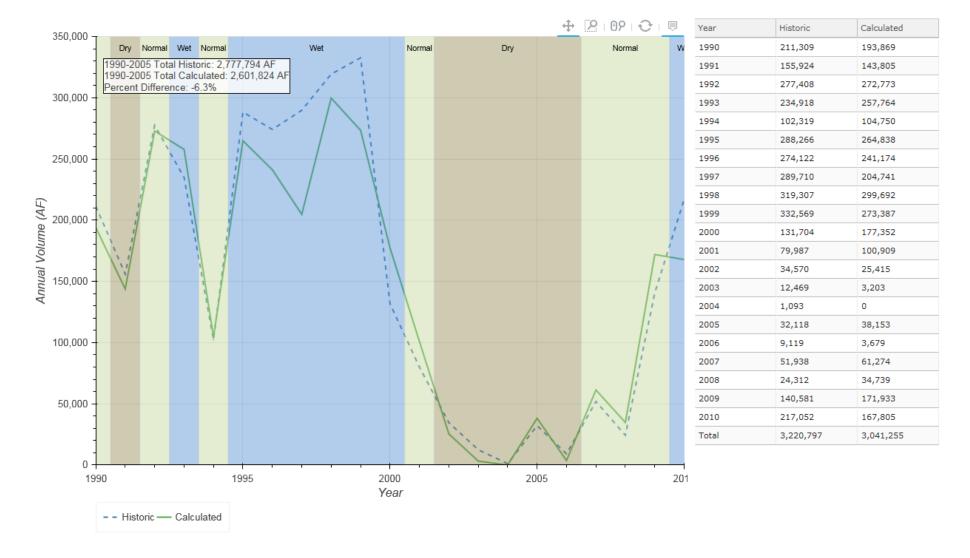
Western Diversion



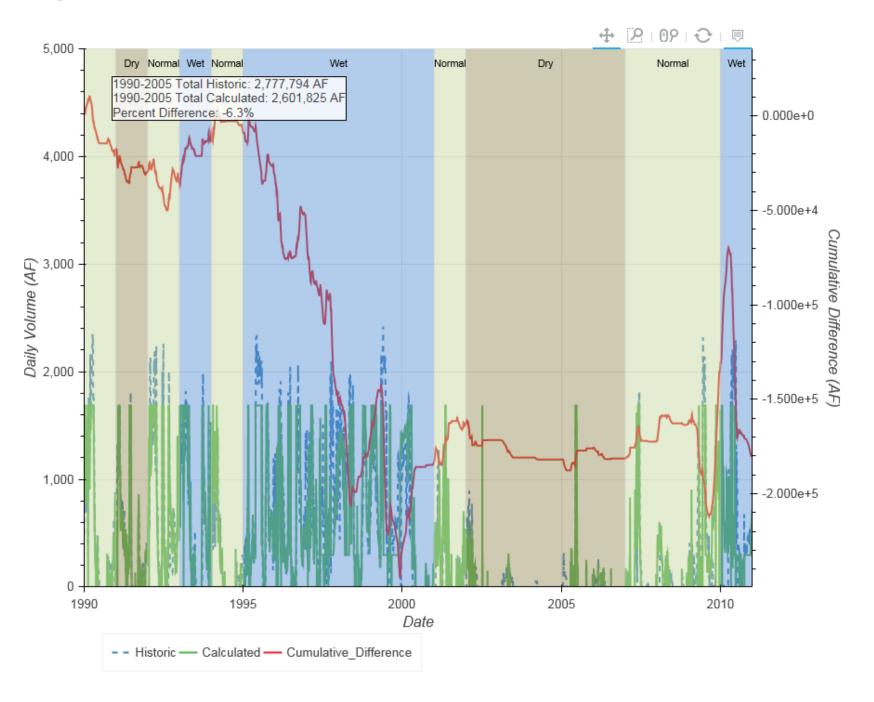
Western Diversion



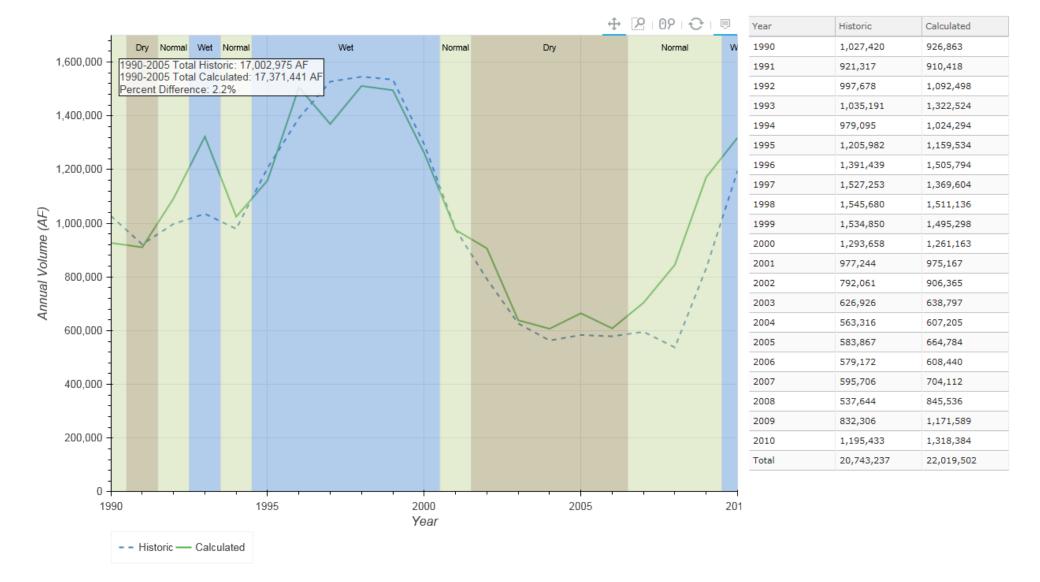
Korty Diversion



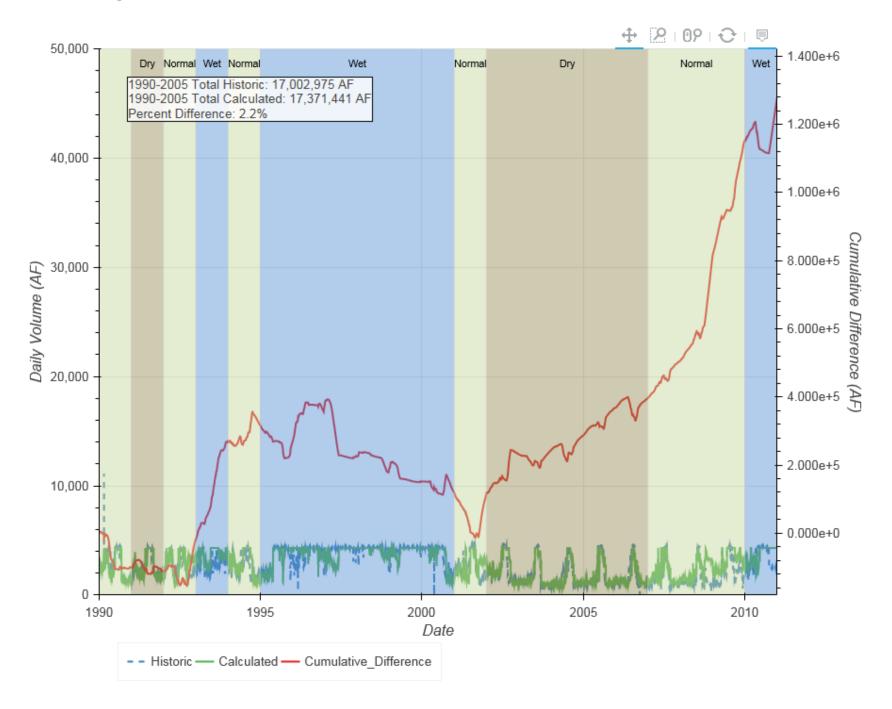
Korty Diversion



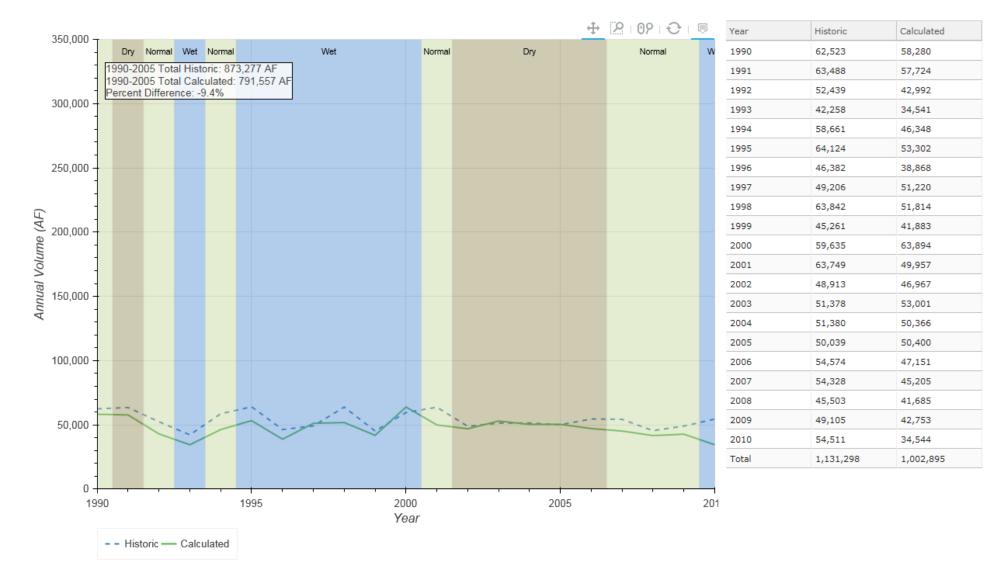
Tri County Diversion



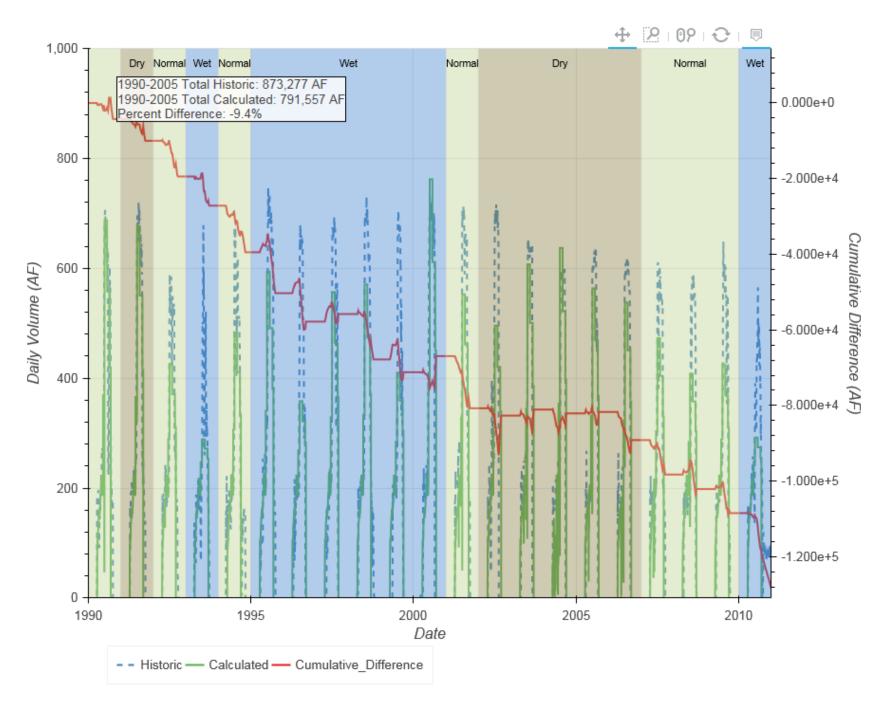
Tri County Diversion



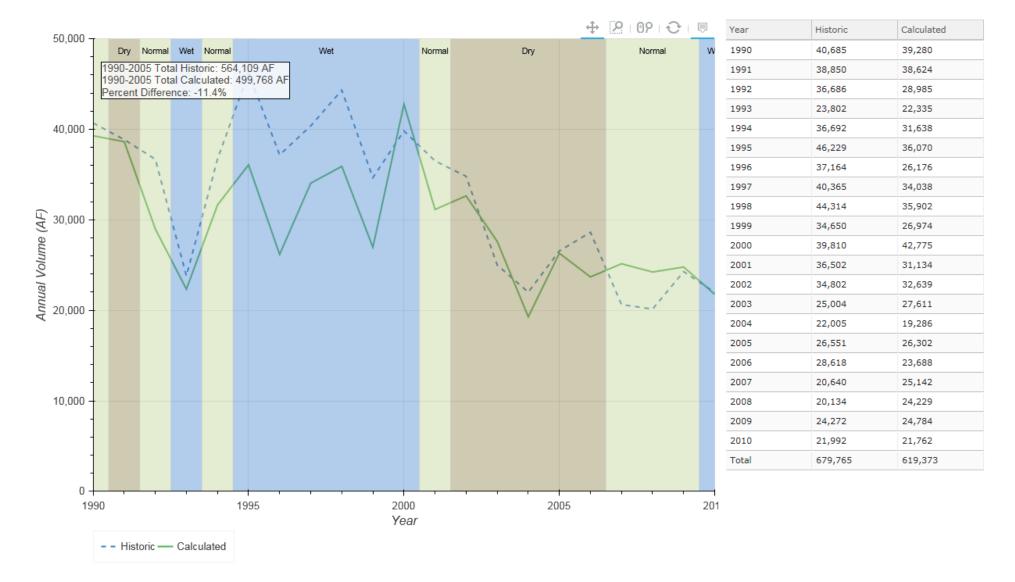
Gothenburg Diversion



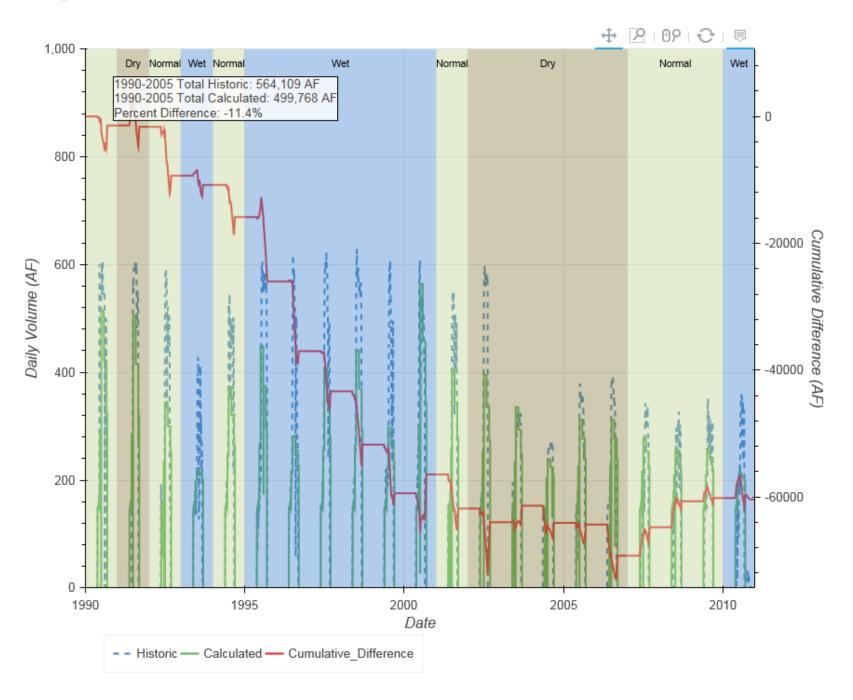
Gothenburg Diversion



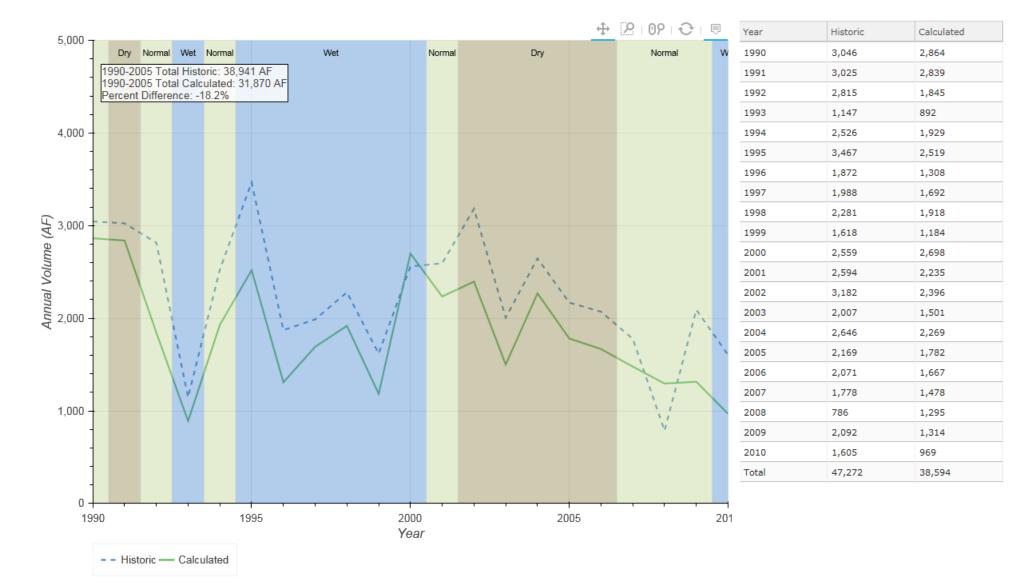
Thirty Mile Diversion



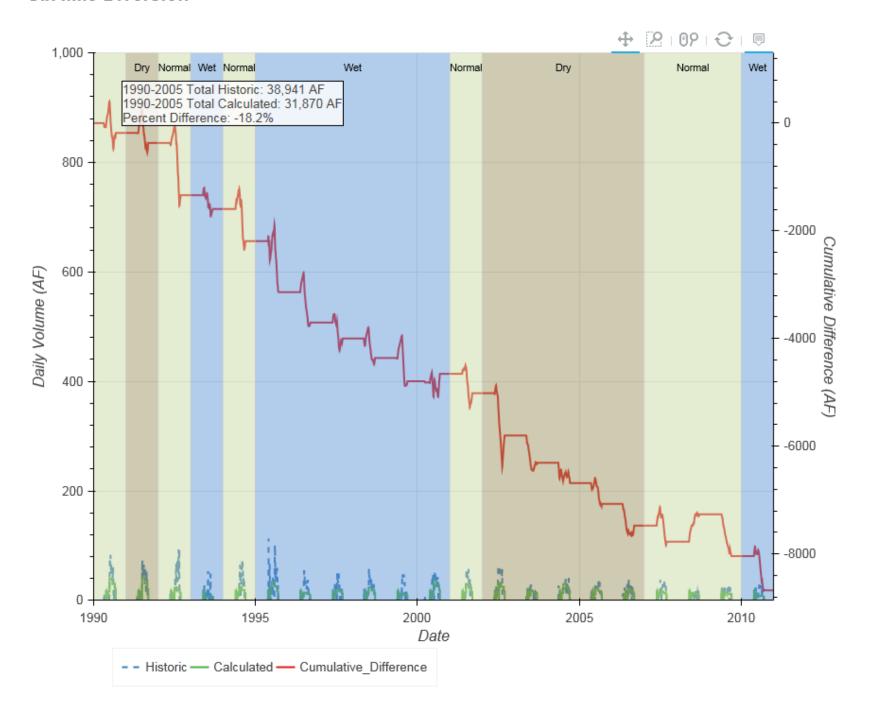
Thirty Mile Diversion



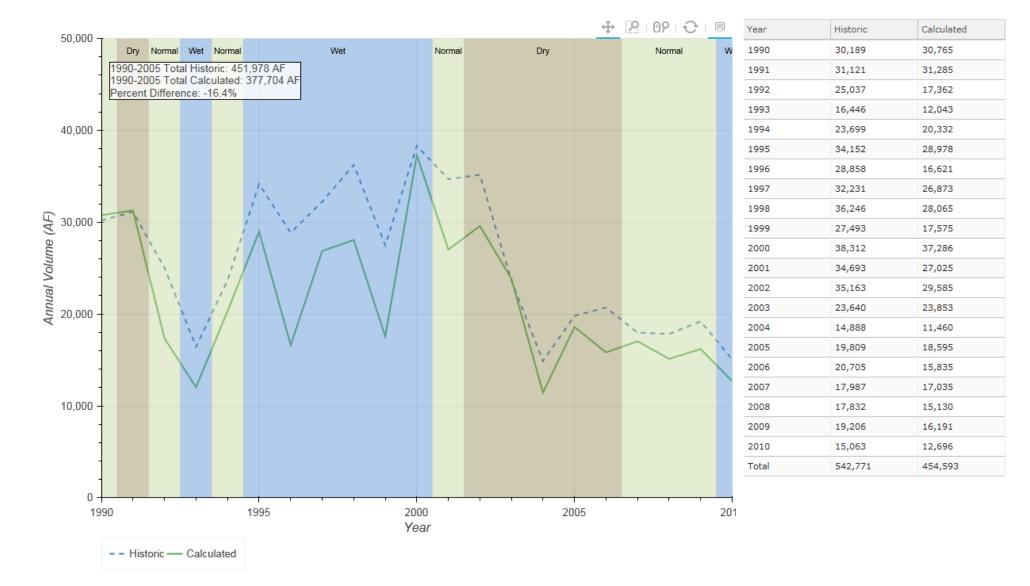
Six Mile Diversion



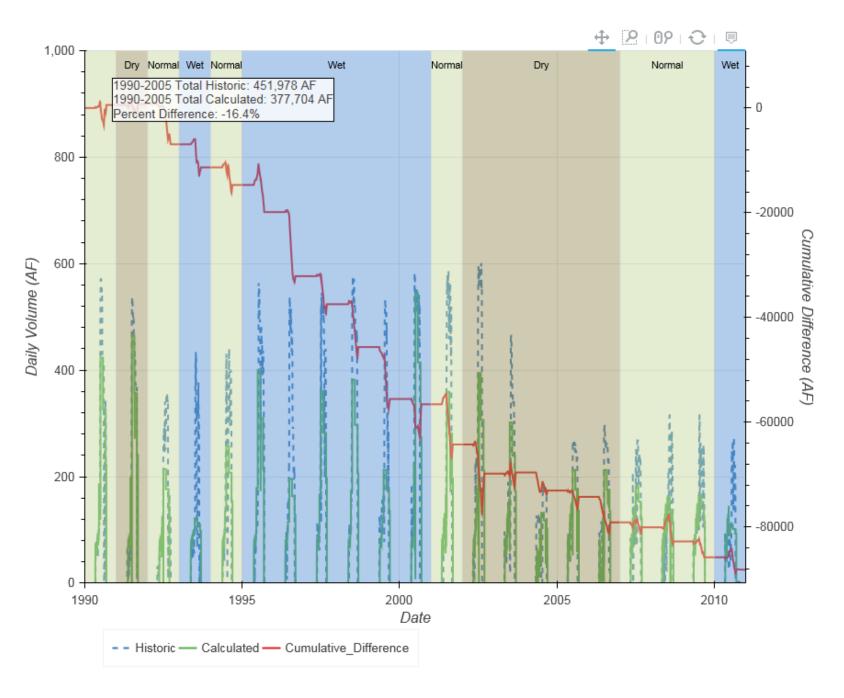
Six Mile Diversion



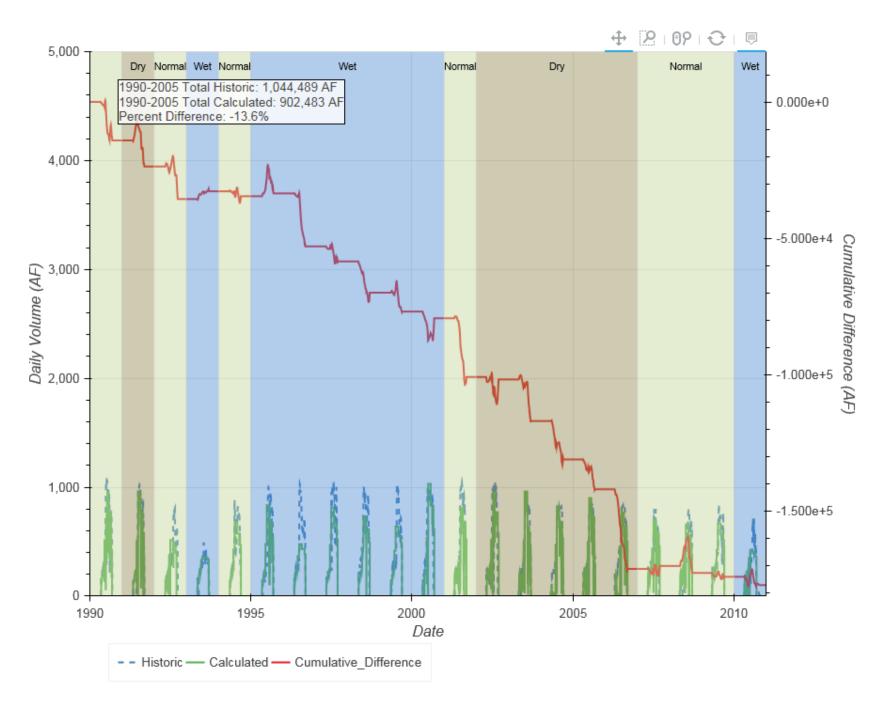
Cozad Diversion



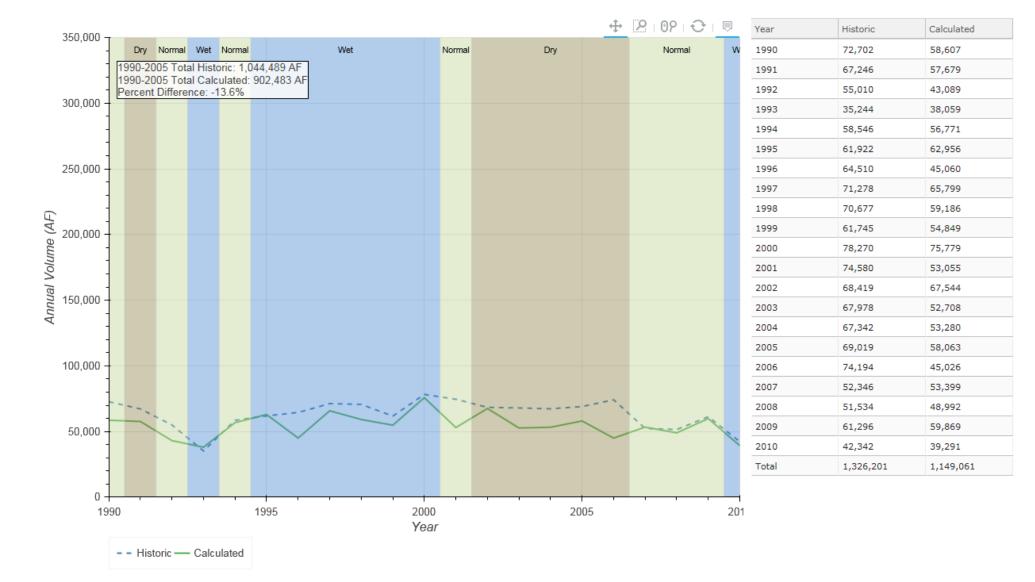
Cozad Diversion



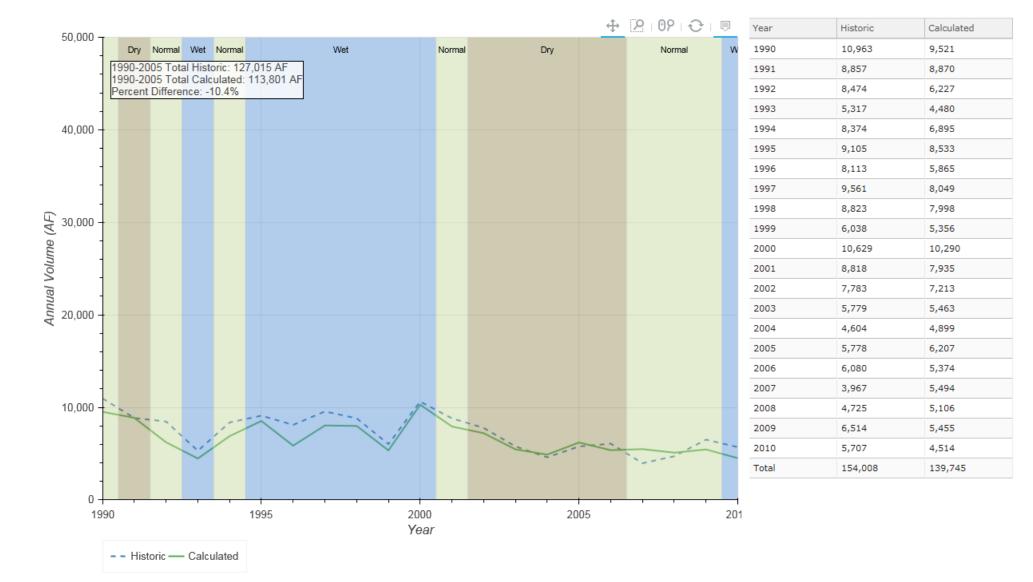
Dawson Diversion



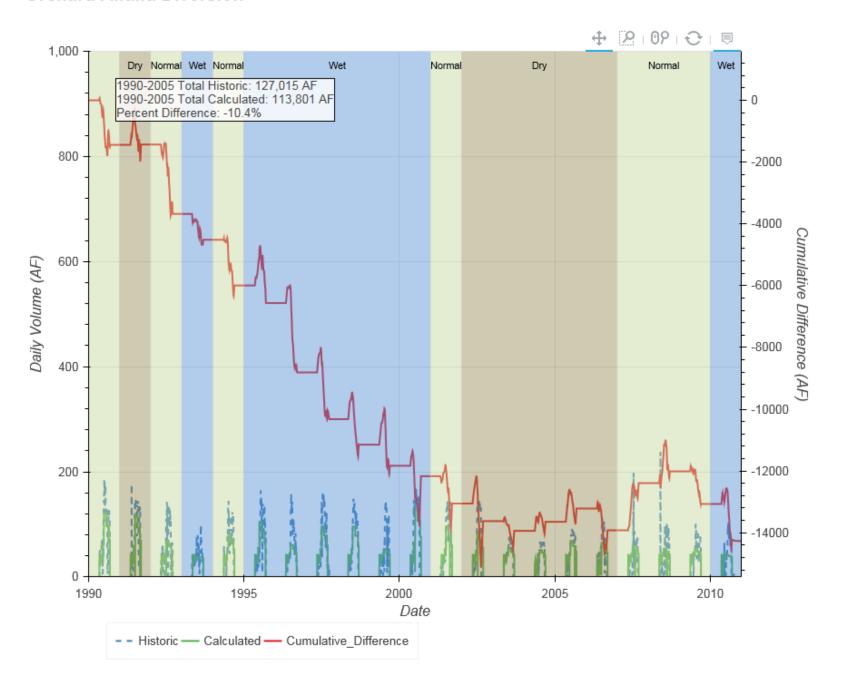
Dawson Diversion



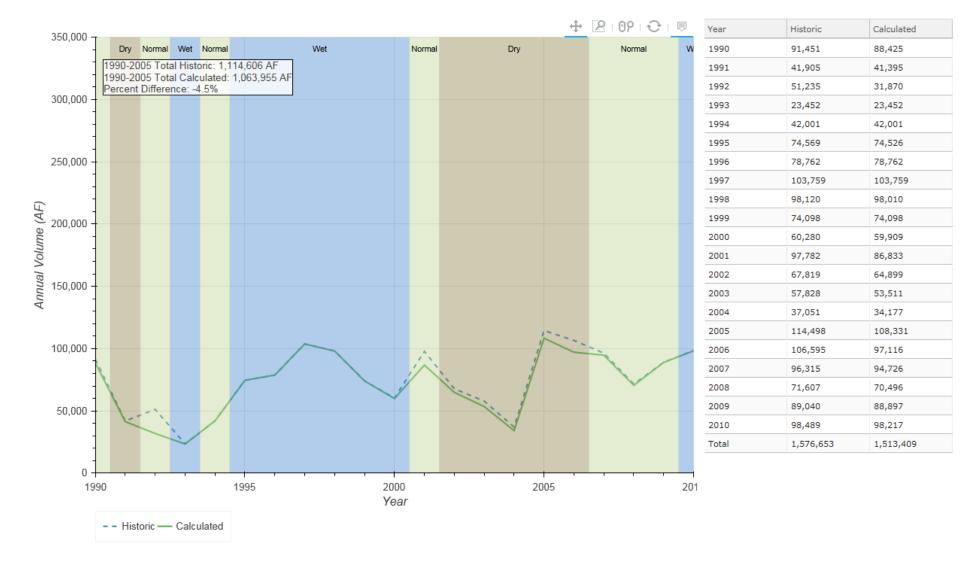
Orchard Alfalfa Diversion



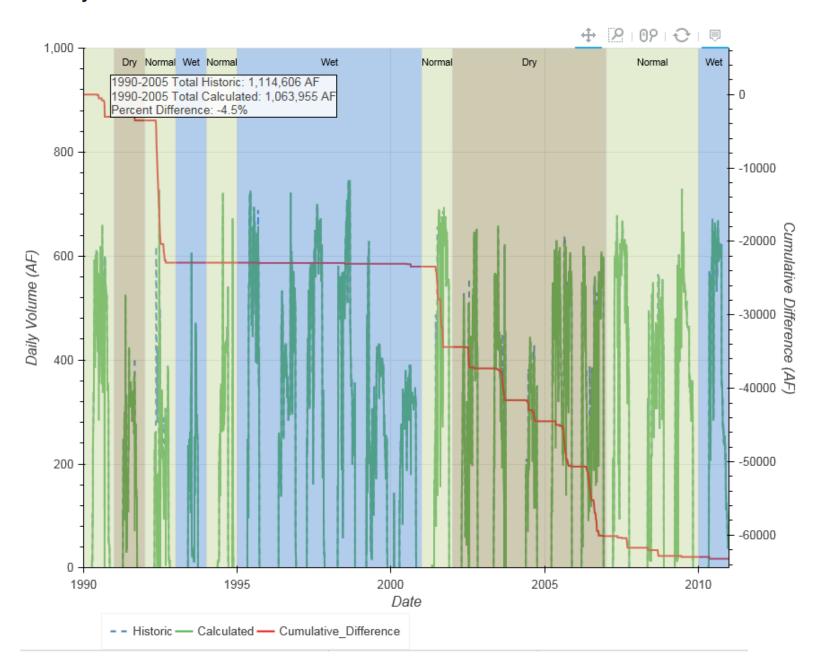
Orchard Alfalfa Diversion



Kearney Diversion

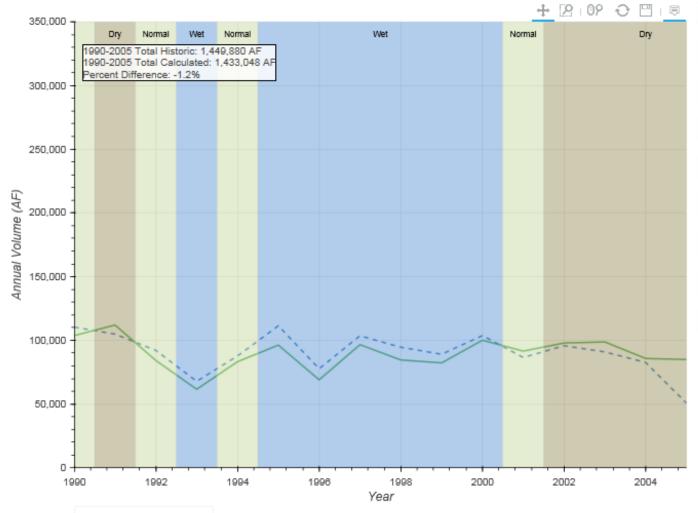


Kearney Diversion



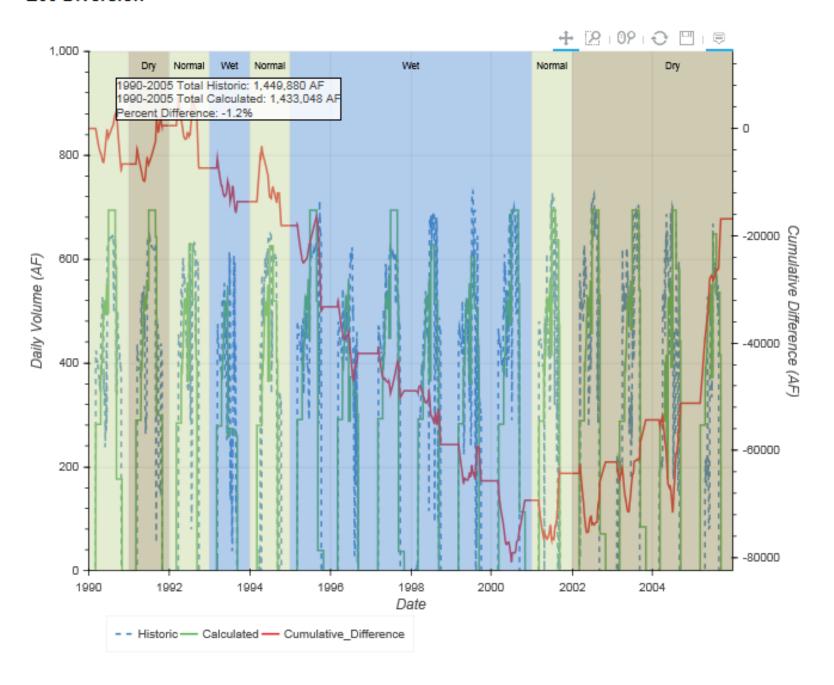
E65 Diversion

- - Historic - Calculated

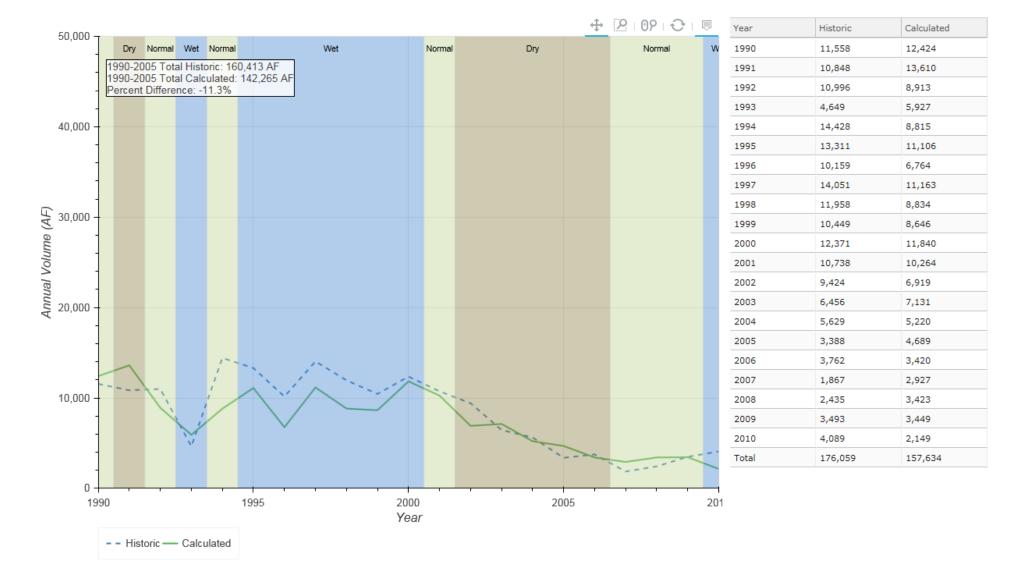


Year	Historic	Calculated
1990	110,395	103,771
1991	104,892	112,046
1992	92,106	84,200
1993	67,870	61,630
1994	87,748	83,275
1995	111,411	96,282
1996	77,748	69,067
1997	103,597	96,646
1998	94,631	84,604
1999	89,093	82,319
2000	103,738	100,136
2001	86,582	91,579
2002	95,816	97,930
2003	90,917	98,768
2004	82,649	85,776
2005	50,687	85,021
Total	1,449,881	1,433,049

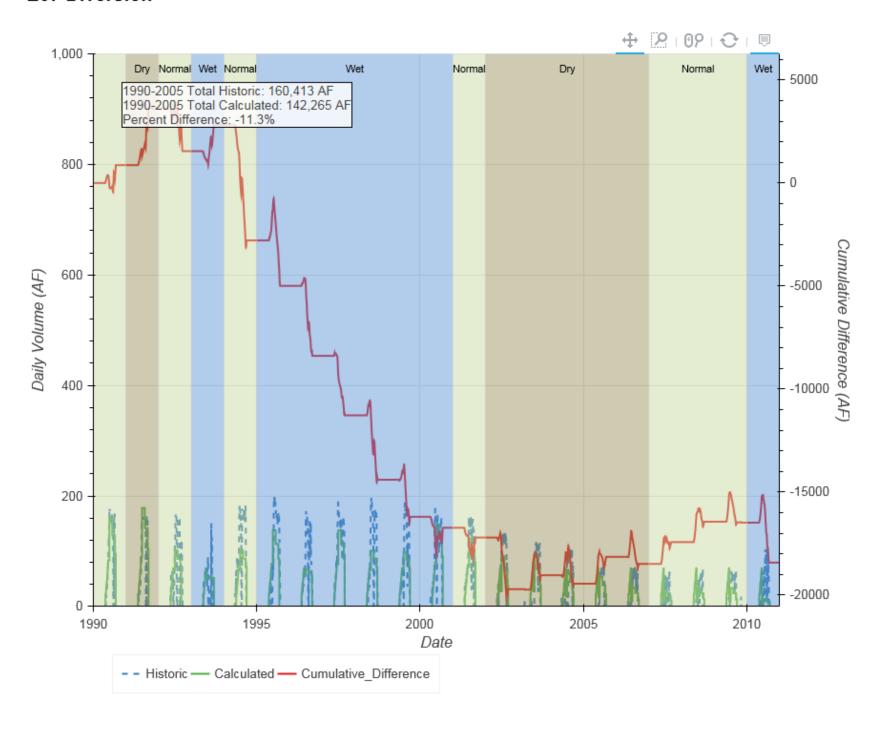
E65 Diversion



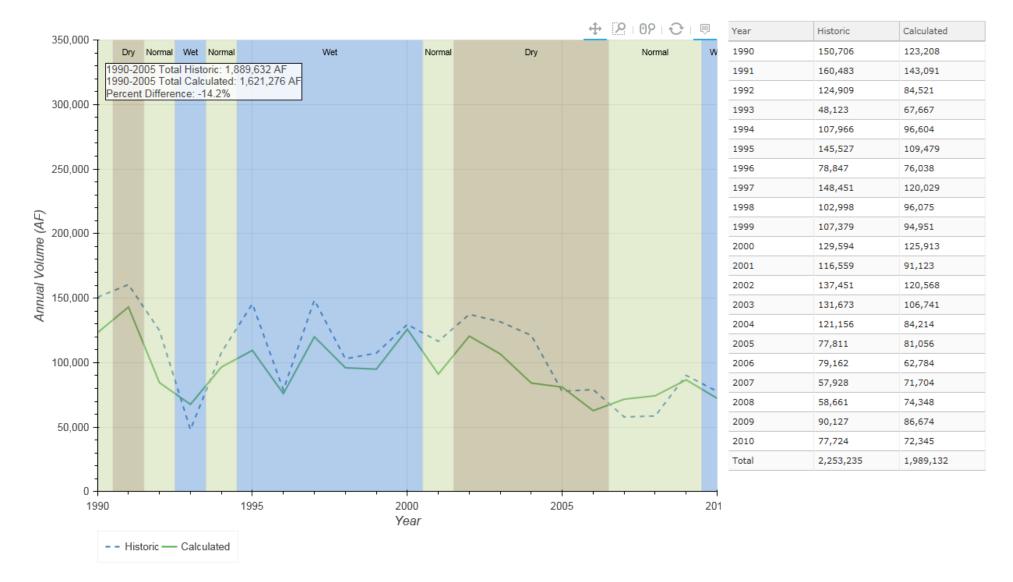
E67 Diversion



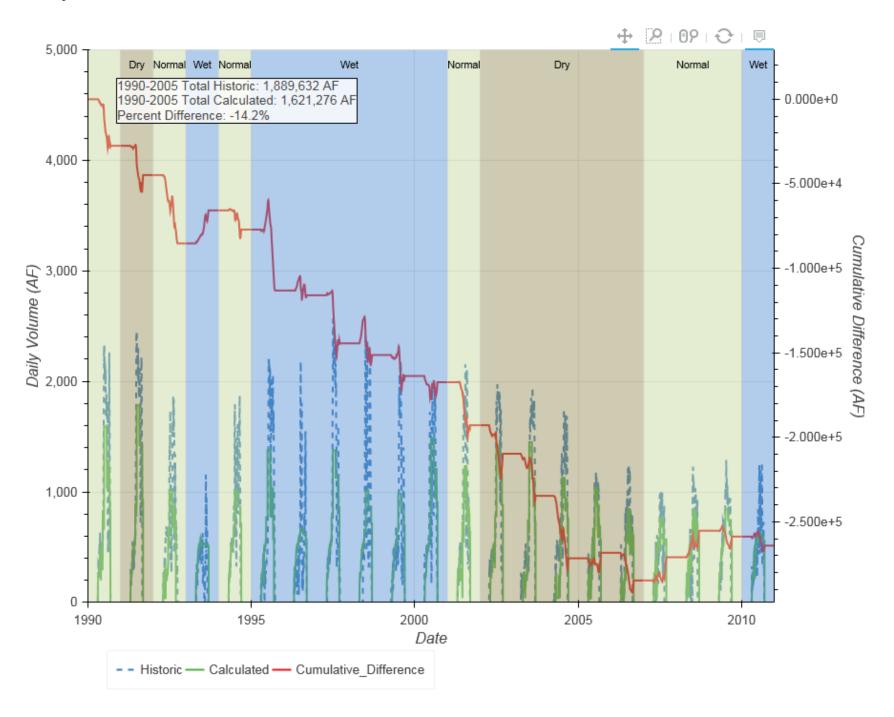
E67 Diversion



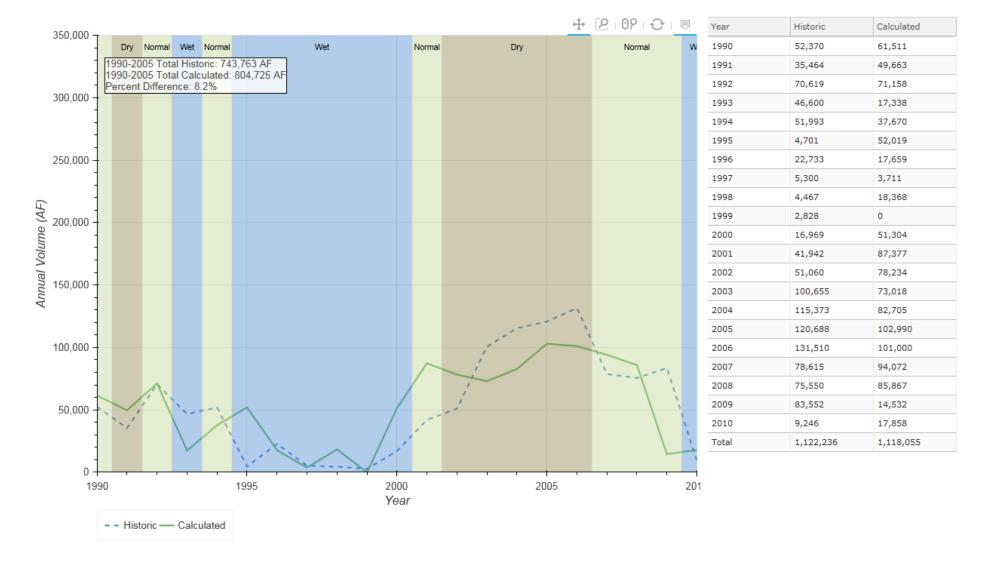
Phelps Diversion



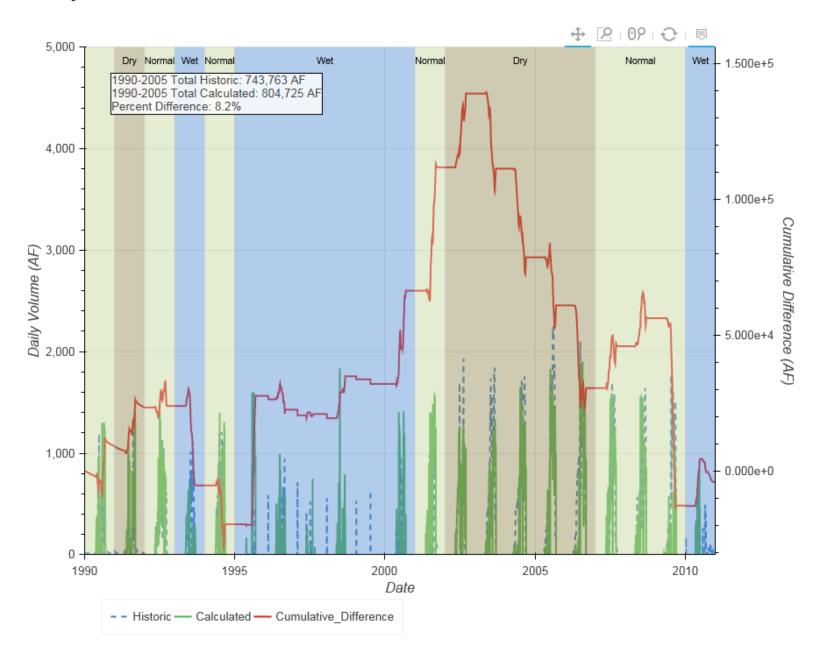
Phelps Diversion



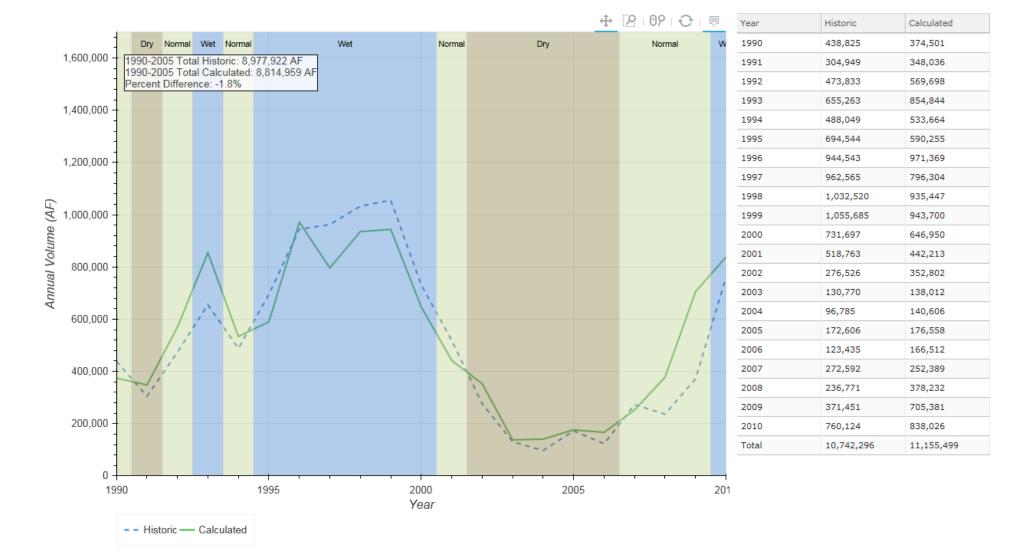
Jeffrey Return



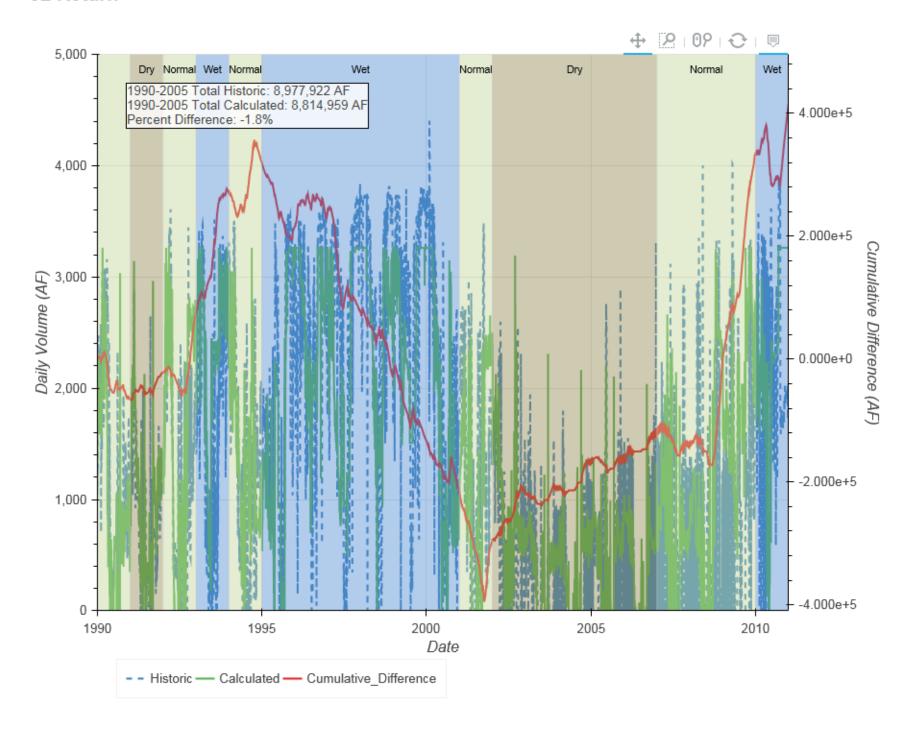
Jeffrey Return



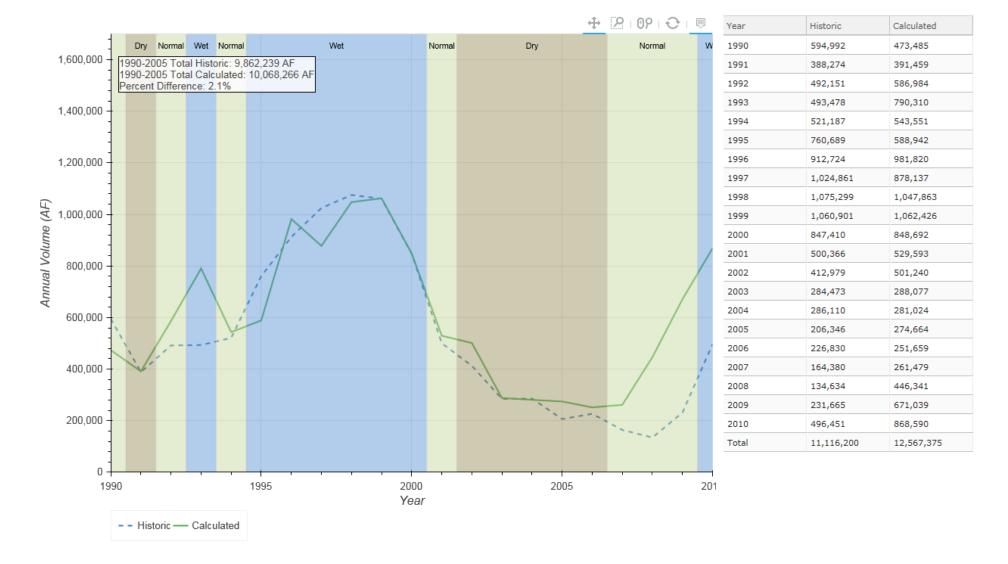
J2 Return



J2 Return



Sutherland Return



Sutherland Return

