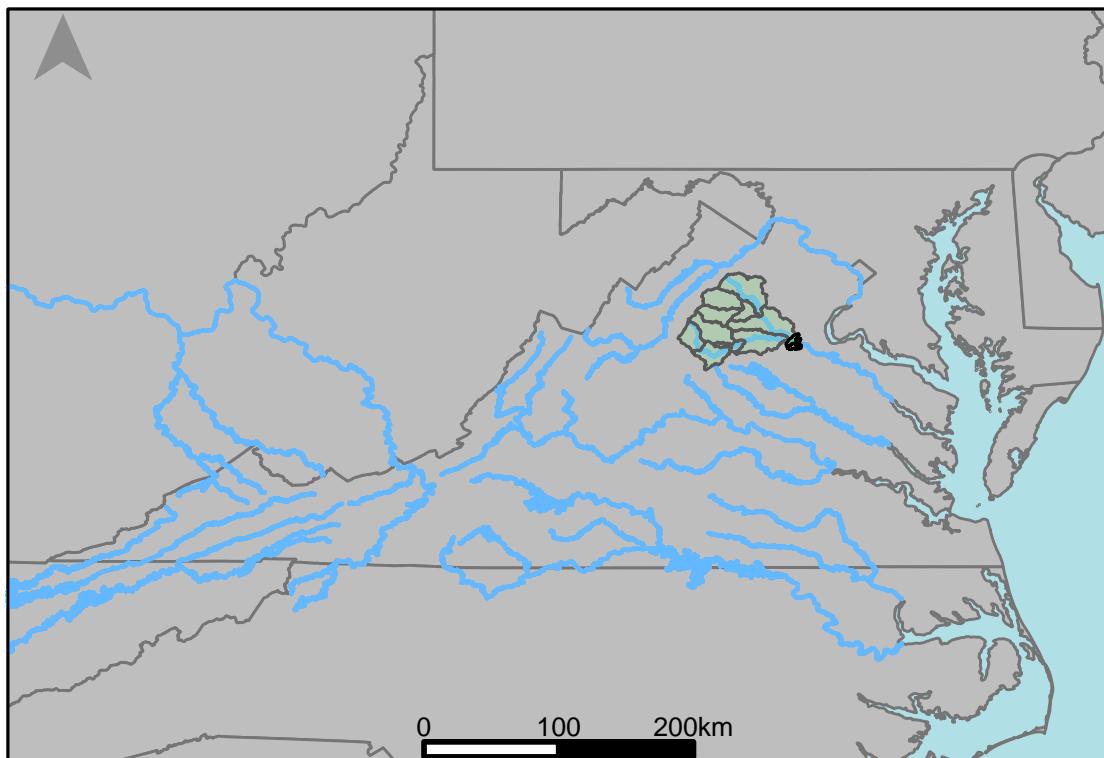


River Segment: RU5_6030_0001 - Scenario :
CFBASE30Y20180615 : VaHydro Run 120 (Base)
vs. VAHydro Run 121 (CC)



The average daily discharge change between scenario 1 and scenario 2 for the 20 year timespan was 3.46821%, with 0% of its rolling three month time spans above 20% difference.

Table 1: Monthly Low Flows

	VAHydro Scen. 1	VAHydro Scen. 2	Pct. Difference
Jan. Low Flow	393	405	3.05
Feb. Low Flow	472	489	3.6
Mar. Low Flow	852	867	1.76
Apr. Low Flow	1080	1150	6.48
May Low Flow	1430	1470	2.8
Jun. Low Flow	1310	1340	2.29
Jul. Low Flow	1130	1140	0.88
Aug. Low Flow	754	774	2.65
Sep. Low Flow	642	643	0.16
Oct. Low Flow	344	348	1.16
Nov. Low Flow	380	390	2.63
Dec. Low Flow	257	267	3.89

Table 2: Monthly Average Flows

	VAHydro Scen. 1	VAHydro Scen. 2	Pct. Difference
Overall Mean Flow	1730	1790	3.47
Jan. Mean Flow	2200	2320	5.45
Feb. Mean Flow	2710	2840	4.8
Mar. Mean Flow	3150	3220	2.22
Apr. Mean Flow	2390	2440	2.09
May Mean Flow	1750	1790	2.29
Jun. Mean Flow	1110	1120	0.9
Jul. Mean Flow	912	924	1.32
Aug. Mean Flow	865	898	3.82
Sep. Mean Flow	1010	1060	4.95
Oct. Mean Flow	1130	1180	4.42
Nov. Mean Flow	1490	1580	6.04
Dec. Mean Flow	2050	2210	7.8

Table 3: Monthly High Flows

	VAHydro Scen. 1	VAHydro Scen. 2	Pct. Difference
Jan. High Flow	1550	1610	3.87
Feb. High Flow	1600	1760	10
Mar. High Flow	2330	2690	15.45
Apr. High Flow	3740	3620	-3.21
May High Flow	3090	3290	6.47
Jun. High Flow	4490	4760	6.01
Jul. High Flow	2710	2730	0.74
Aug. High Flow	2330	2430	4.29
Sep. High Flow	2020	2030	0.5
Oct. High Flow	1170	1180	0.85
Nov. High Flow	1140	1170	2.63
Dec. High Flow	1020	1060	3.92

Table 4: Period Low Flows

	VAHydro Scen. 1	VAHydro Scen. 2	Pct. Difference
Min. 1 Day Min	81.7	83	1.59
Med. 1 Day Min	164	167	1.83
Min. 3 Day Min	82.3	83.6	1.58
Med. 3 Day Min	168	172	2.38
Min. 7 Day Min	83.5	84.8	1.56
Med. 7 Day Min	183	187	2.19
Min. 30 Day Min	111	112	0.9
Med. 30 Day Min	280	288	2.86
Min. 90 Day Min	179	189	5.59
Med. 90 Day Min	566	576	1.77
7Q10	102	105	2.94
Year of 90-Day Min. Flow	1999	1999	0
Drought Year Mean	882	959	8.73
Mean Baseflow	1090	1110	1.83

Table 5: Period High Flows

	VAHydro Scen. 1	VAHydro Scen. 2	Pct. Difference
Max. 1 Day Max	28500	29600	3.86
Med. 1 Day Max	8870	9420	6.2
Max. 3 Day Max	25400	26500	4.33
Med. 3 Day Max	8180	8770	7.21
Max. 7 Day Max	18100	19100	5.52
Med. 7 Day Max	7240	7890	8.98
Max. 30 Day Max	10700	11700	9.35
Med. 30 Day Max	4500	4680	4
Max. 90 Day Max	7190	7620	5.98
Med. 90 Day Max	2780	2840	2.16

Table 6: Non-Exceedance Flows

	VAHydro Scen. 1	VAHydro Scen. 2	Pct. Difference
1% Non-Exceedance	120	123	2.5
5% Non-Exceedance	199	207	4.02
50% Non-Exceedance	1150	1180	2.61
95% Non-Exceedance	5320	5630	5.83
99% Non-Exceedance	12000	12600	5
Sept. 10% Non-Exceedance	170	176	3.53

Fig. 1: Hydrograph

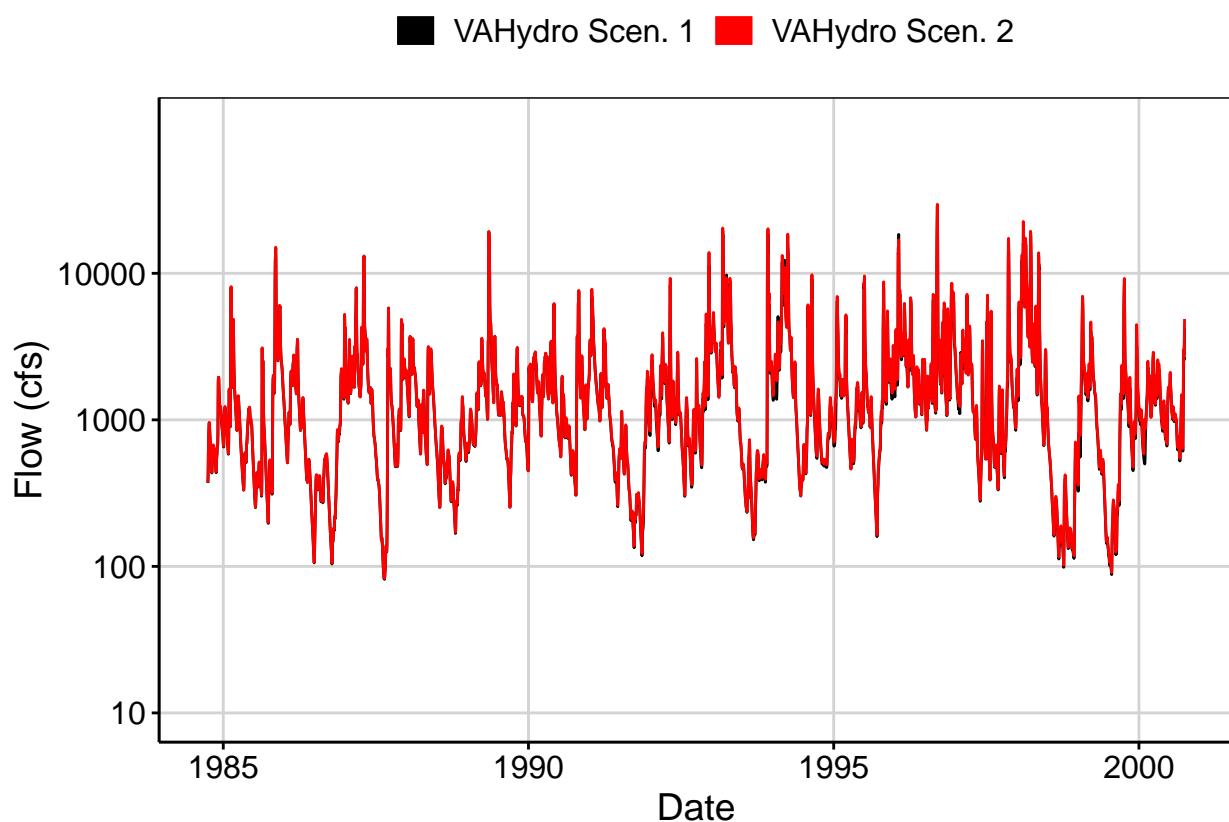


Fig. 2: Zoomed Hydrograph

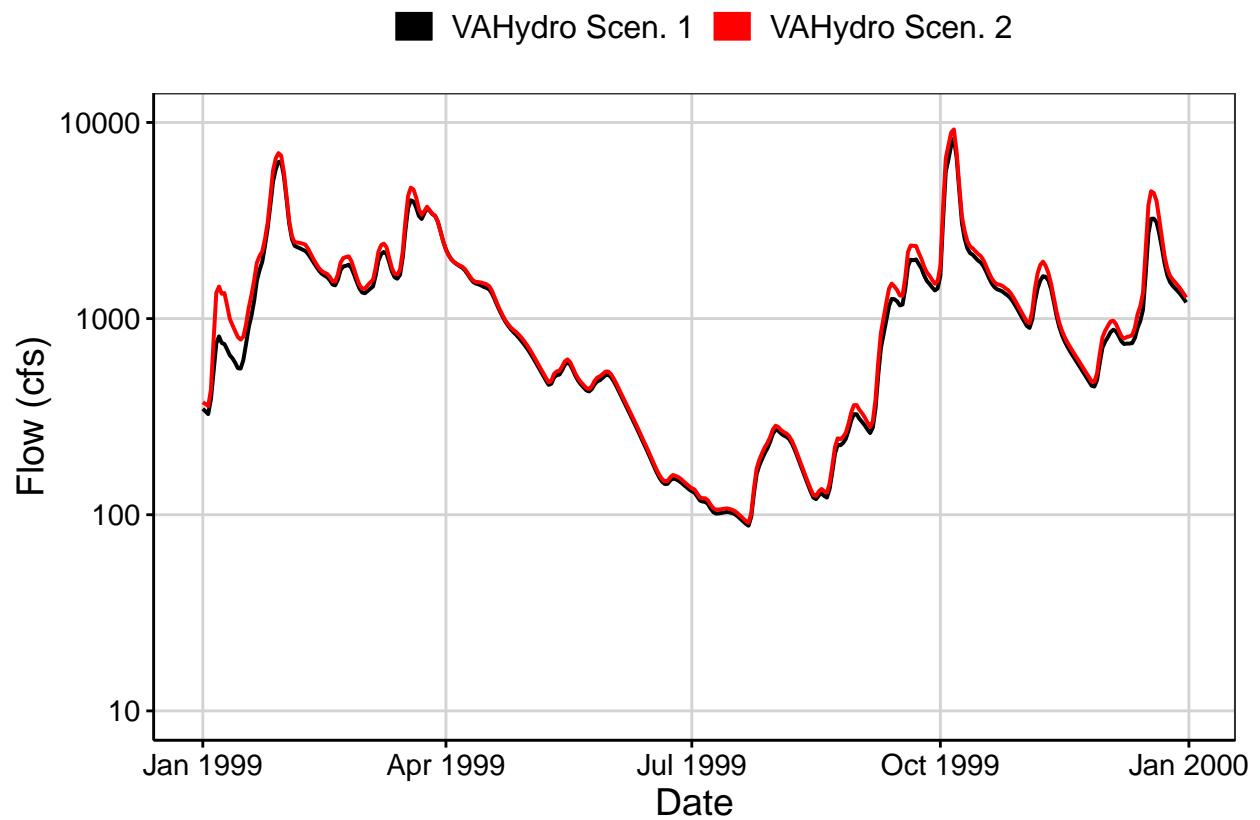


Fig. 3: Flow Exceedance

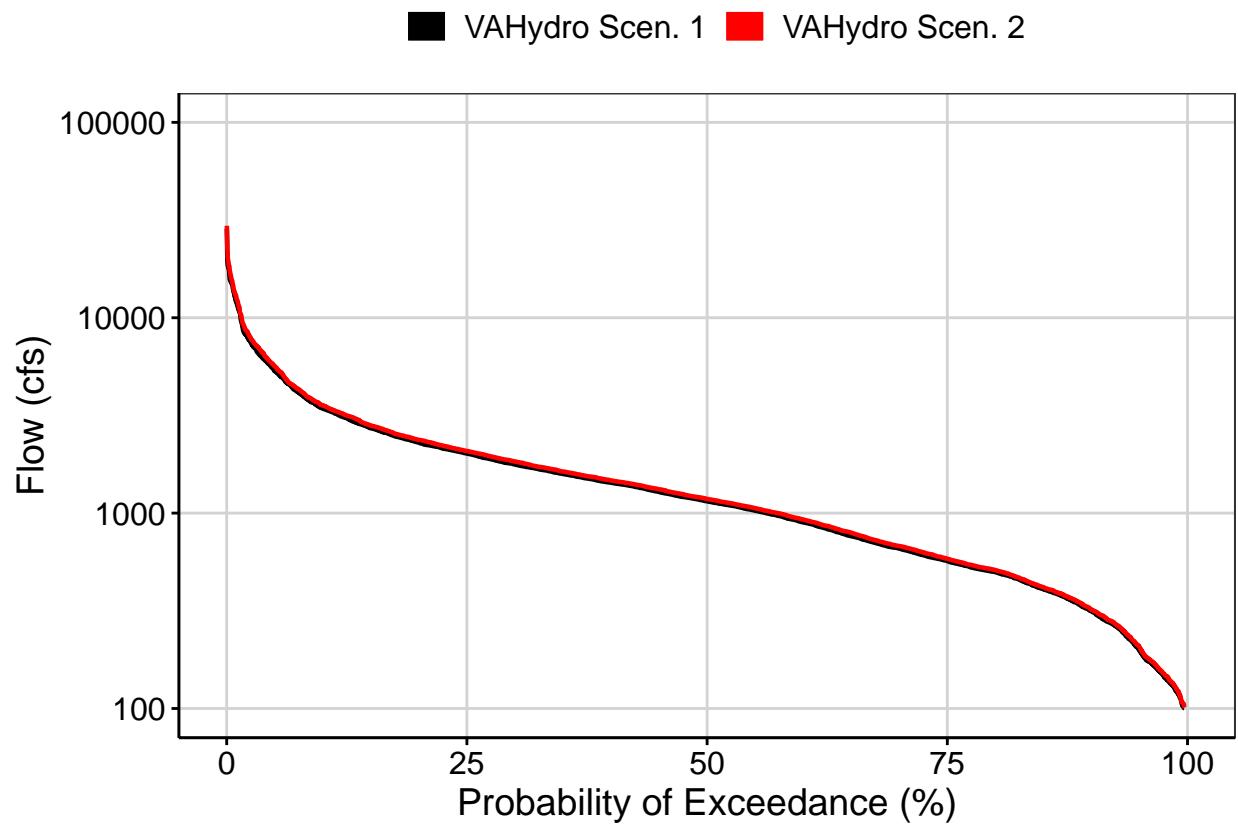


Fig. 4: Baseflow

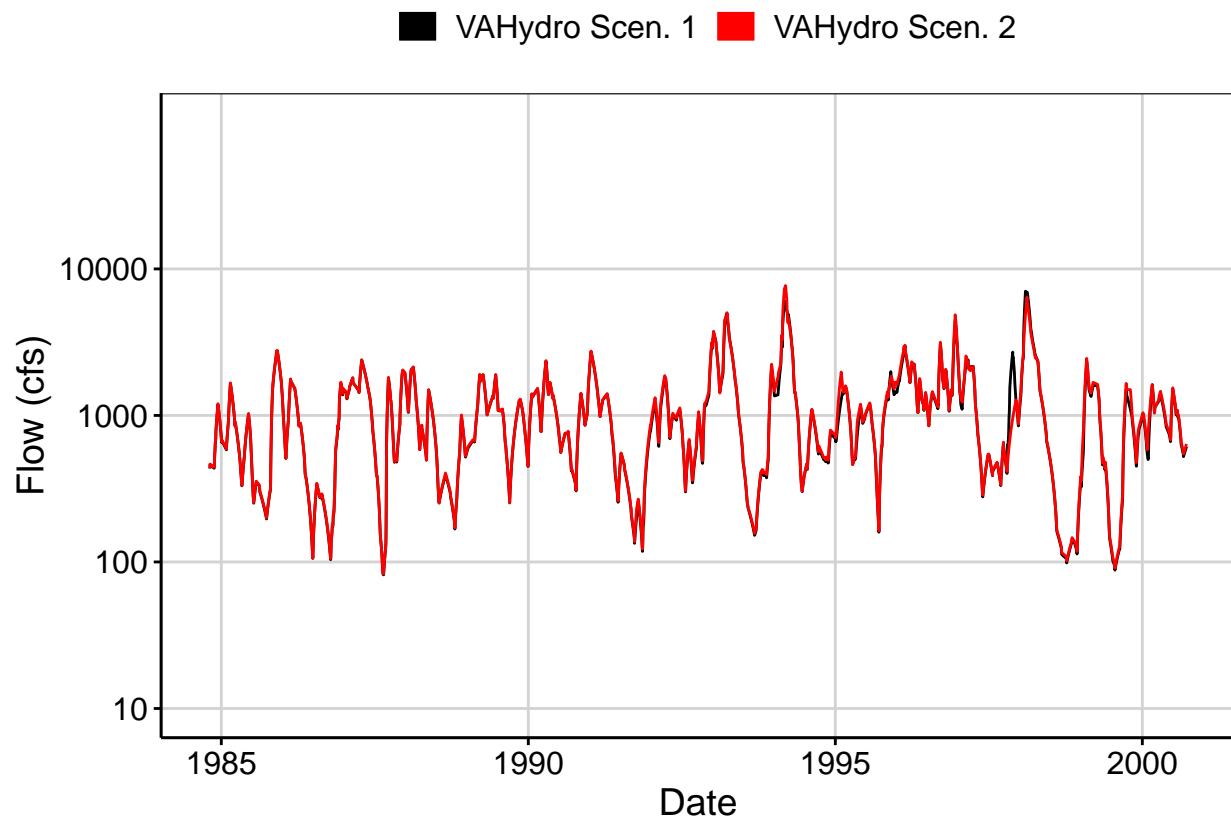


Fig. 5: Combined Baseflow

dro Scen. 1 Baseflow ■ VAHydro Scen. 1 Flow ■ VAHydro Scen. 2 Baseflow ■ V

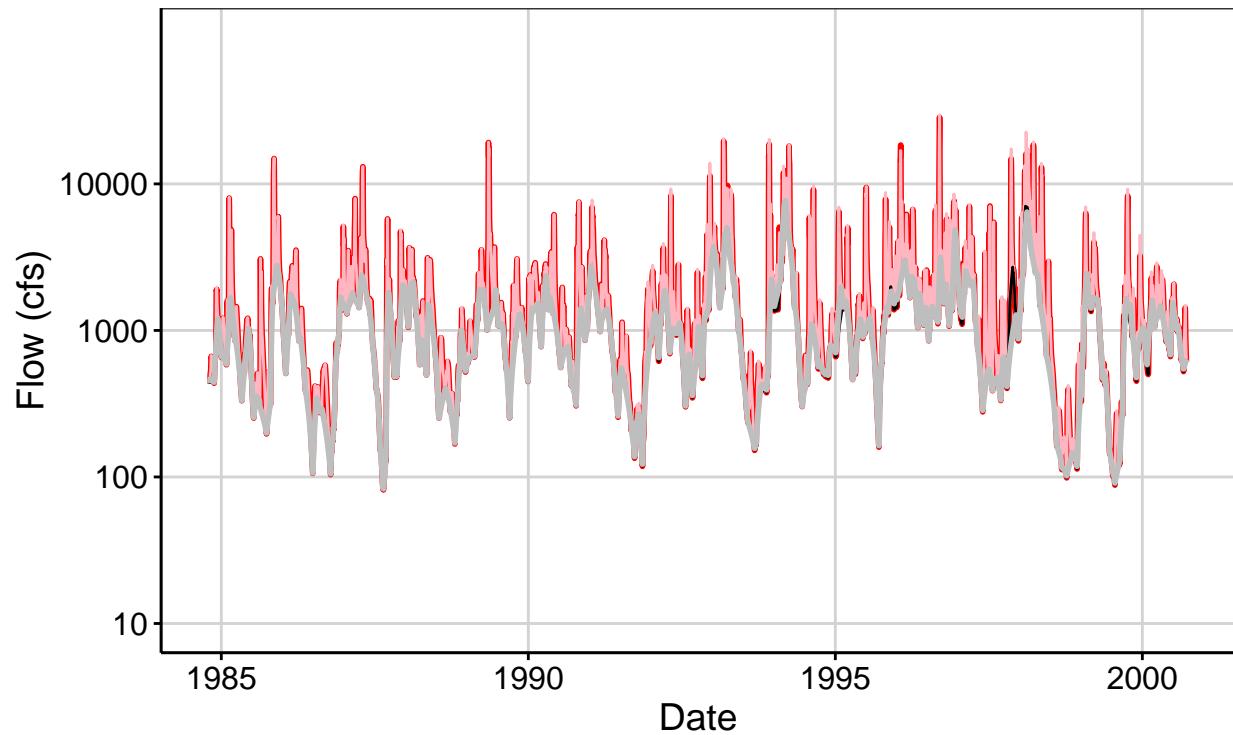


Fig. 6: Largest Difference Segment

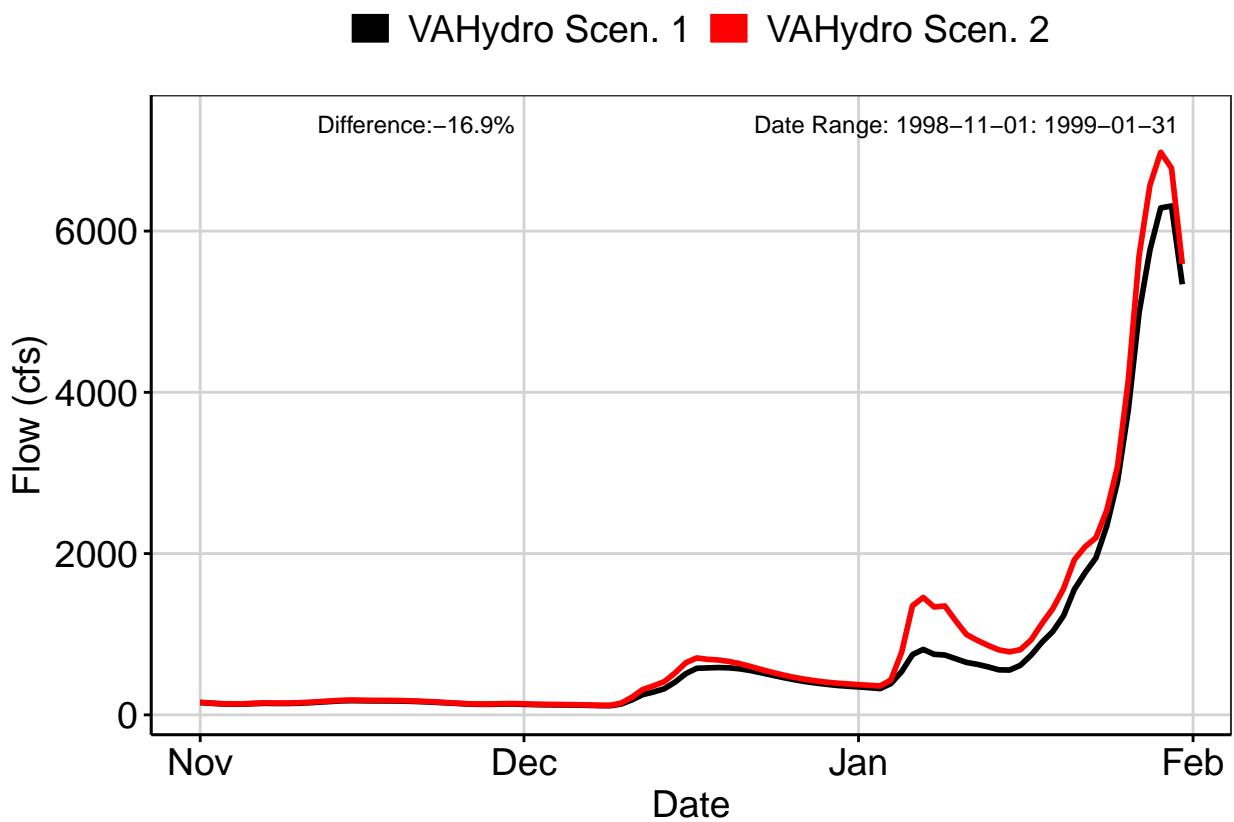


Fig. 7: Second Largest Difference Segment

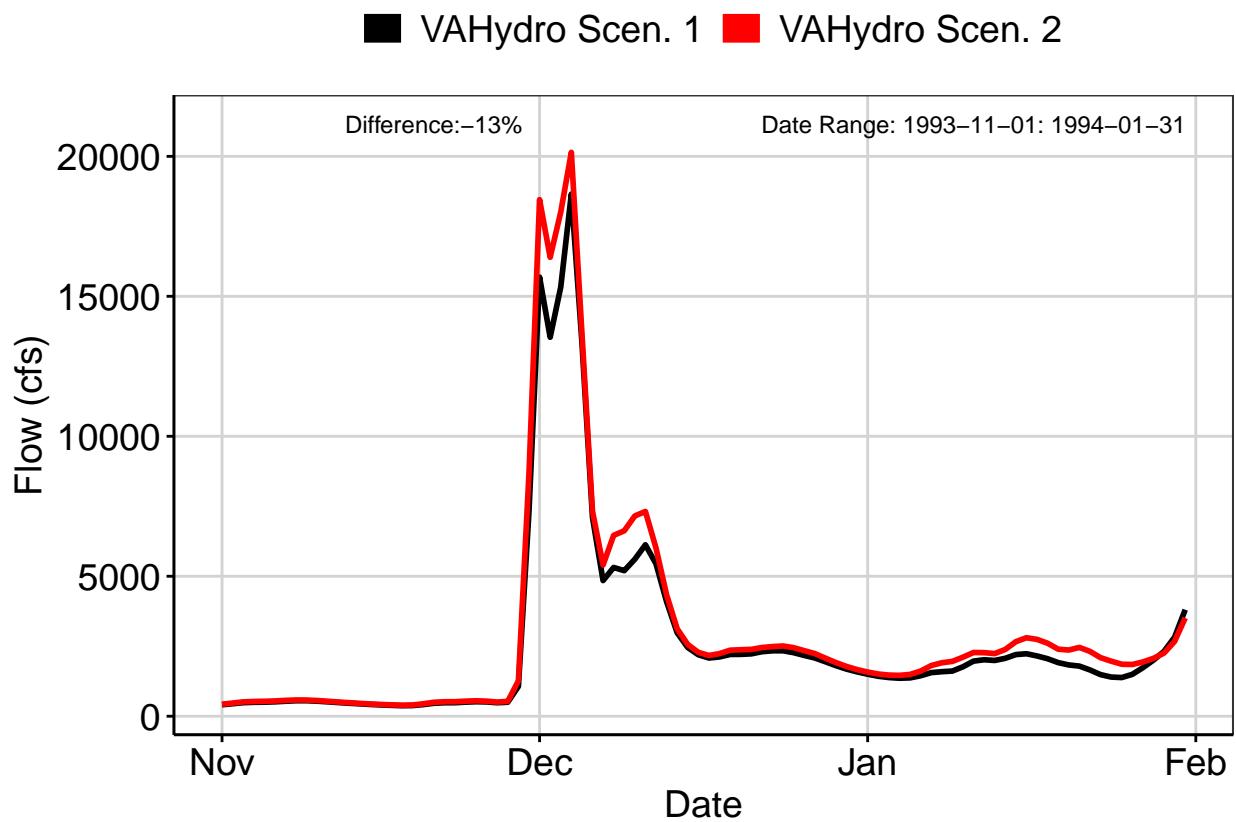


Fig. 8: Third Largest Difference Segment

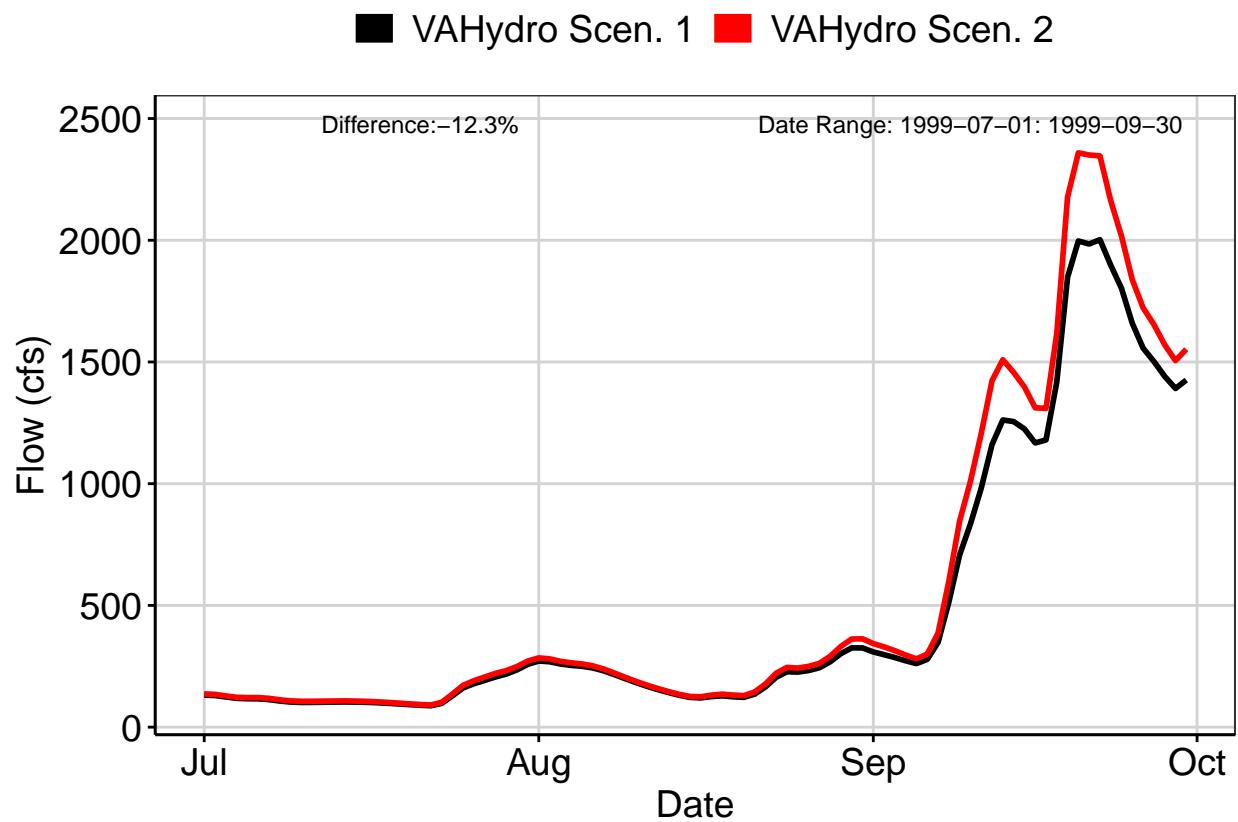


Fig. 9A: Residuals Plot

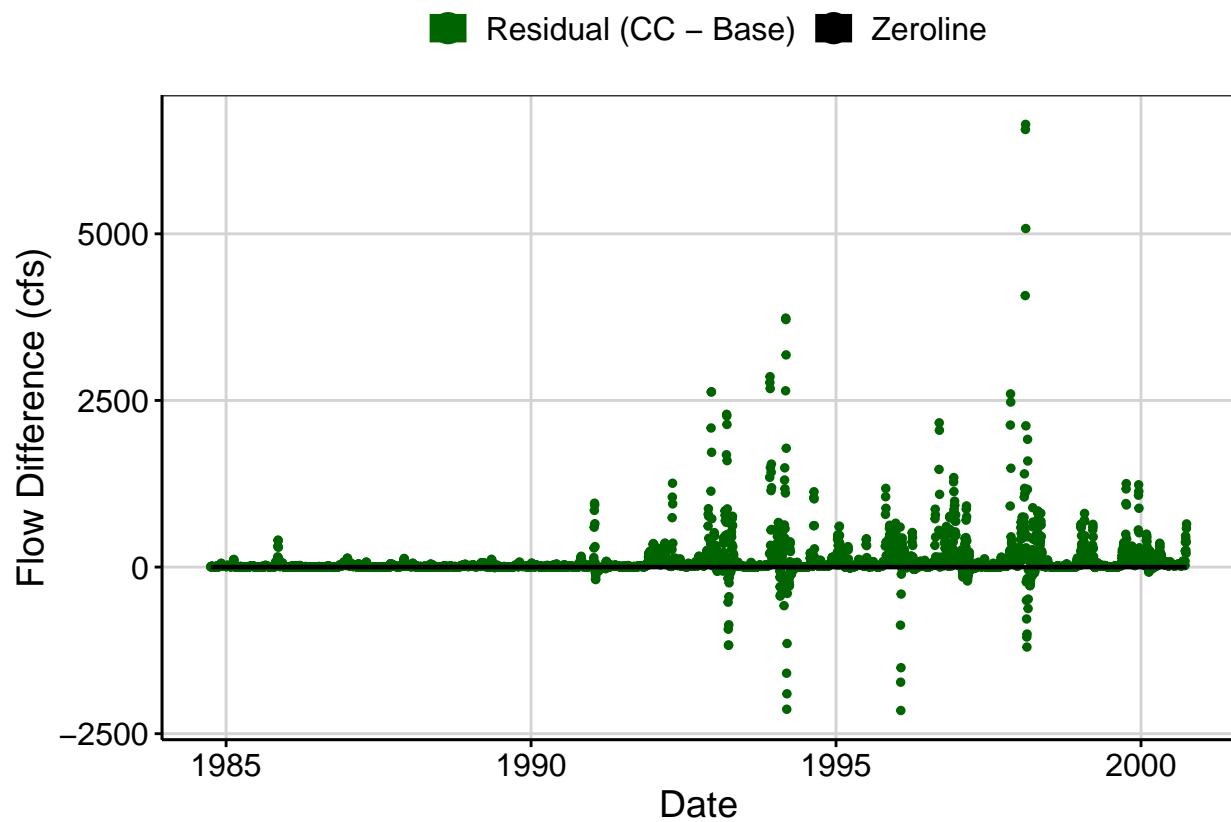


Fig. 9B: Area Weighted Residuals Plot

