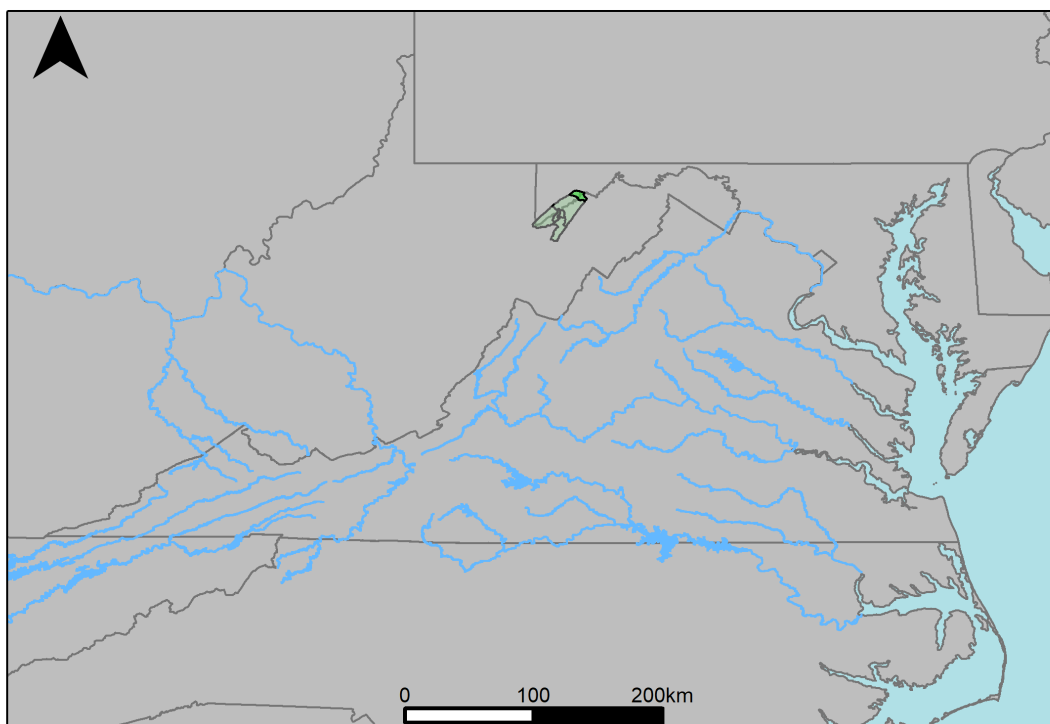


## River Segment YP3\_6700\_6670: USGS Gage 01671020 vs. VA Hydro Run 120



This river segment follows part of the flow of the North Anna River at Hart Corner near Doswell, VA. Gage 01671020 is located in Hanover County, VA (Lat 37 51'00", Long 77 25'41") approximately 2.1 miles east of Doswell, VA. Drainage area is 462 sq. miles. This gage started taking data in 1979 and has been taking data periodically until now. Diversion at a point 0.8 mi upstream from station since 1973. Maximum discharge, 12,000 ft<sup>3</sup>/s, from rating curve extended above 10,100 ft<sup>3</sup>/s. The average daily discharge change between scenario 1 and scenario 2 for the 20 year timespan was -22.1123%, with 63.5% of its rolling three month time spans above 20% difference. The Nash-Sutcliffe Efficiency of the model, calculated between the gage and scenario data, was found to be 0.192.

**Table 1: Monthly Low Flows**

	Scen. 1	Scen. 2	Pct. Difference
Jan. Low Flow	51.7	43.9	-15
Feb. Low Flow	65	51.4	-20.9
Mar. Low Flow	94	67.1	-28.6
Apr. Low Flow	143	131	-8.71
May Low Flow	190	163	-14.1
Jun. Low Flow	221	120	-45.6
Jul. Low Flow	141	84.5	-40.1
Aug. Low Flow	93.5	75.7	-19
Sep. Low Flow	70.2	60.9	-13.4
Oct. Low Flow	53.6	49.9	-6.77
Nov. Low Flow	48.5	47	-3.04
Dec. Low Flow	46	39	-15.2

**Table 2: Monthly Average Flows**

	Scen. 1	Scen. 2	Pct. Difference
Overall Mean Flow	366	285	-22.1
Jan. Mean Flow	495	442	-10.6
Feb. Mean Flow	569	520	-8.73
Mar. Mean Flow	698	593	-15.1
Apr. Mean Flow	506	444	-12.4
May Mean Flow	458	304	-33.5
Jun. Mean Flow	273	162	-40.6
Jul. Mean Flow	139	88.2	-36.7
Aug. Mean Flow	120	69	-42.6
Sep. Mean Flow	192	131	-31.8
Oct. Mean Flow	163	112	-31.2
Nov. Mean Flow	339	206	-39.3
Dec. Mean Flow	451	363	-19.5

**Table 3: Monthly High Flows**

	Scen. 1	Scen. 2	Pct. Difference
Jan. High Flow	239	156	-34.5
Feb. High Flow	799	235	-70.6
Mar. High Flow	877	532	-39.3
Apr. High Flow	1600	758	-52.8
May High Flow	1440	759	-47.4
Jun. High Flow	2470	872	-64.7
Jul. High Flow	1680	1070	-35.9
Aug. High Flow	1010	486	-51.8
Sep. High Flow	720	178	-75.3
Oct. High Flow	234	104	-55.6
Nov. High Flow	142	93.9	-33.9
Dec. High Flow	128	85.3	-33.4

**Table 4: Period Low Flows**

	Scen. 1	Scen. 2	Pct. Difference
Min. 1 Day Min	7.58	15	98
Med. 1 Day Min	41.6	23	-44.7
Min. 3 Day Min	9.01	15.1	67.1
Med. 3 Day Min	42.4	23.7	-44.2
Min. 7 Day Min	12.7	15.2	19.1
Med. 7 Day Min	43.1	25.3	-41.4
Min. 30 Day Min	17.3	16.4	-5.17
Med. 30 Day Min	48.7	38.7	-20.5
Min. 90 Day Min	30.4	23.3	-23.4
Med. 90 Day Min	71	58.5	-17.7
7Q10	27.9	17.6	-37
Year of 90-Day Min. Flow	2010	2000	-0.3
Drought Year Mean	201	34.8	-82.7
Mean Baseflow	150	126	-16

**Table 5: Period High Flows**

	Scen. 1	Scen. 2	Pct. Difference
Max. 1 Day Max	10900	9640	-11.6
Med. 1 Day Max	4670	3130	-33
Max. 3 Day Max	9350	7470	-20.2
Med. 3 Day Max	3920	2570	-34.3
Max. 7 Day Max	5690	5050	-11.1
Med. 7 Day Max	2540	2000	-21.2
Max. 30 Day Max	3130	3030	-3.17
Med. 30 Day Max	1170	974	-16.5
Max. 90 Day Max	2060	1980	-4.25
Med. 90 Day Max	732	530	-27.6

**Table 6: Non-Exceedance Flows**

	Scen. 1	Scen. 2	Pct. Difference
1% Non-Exceedance	32.3	18.7	-42.2
5% Non-Exceedance	40.3	28.2	-30
50% Non-Exceedance	145	98.2	-32.3
95% Non-Exceedance	1360	1110	-18.3
99% Non-Exceedance	3380	2800	-17.2
Sept. 10% Non-Exceedance	39	24.1	-38.3

## Additional Tables: Land-River Segment Flow Metrics

[1] "Number of features found: 1" \$varkey [1] "om\_class\_cbp\_eos\_file"

\$featureid [1] 452429 Levels: 452429

\$entity\_type [1] "dh\_feature"

\$propcode [1] "vahydro-1.0"

[1] "Trying http://deq2.bse.vt.edu/d.dh/?q=vardefs.tsv/om\_class\_cbp\_eos\_file" [1] "varid: 1394" [1] "Number of properties found: 1" \$varkey [1] "om\_element\_connection"

\$featureid [1] 4840924

\$entity\_type [1] "dh\_properties"

[1] "Trying http://deq2.bse.vt.edu/d.dh/?q=vardefs.tsv/om\_element\_connection" [1] "varid: 1119" [1] "Number of properties found: 1" [1] "Getting Info for run 120 for element 344624" [1] "From http://deq2.bse.vt.edu/om/remote/get\_modelData.php?operation=11&elementid=344624&runid=120&startdate=1984-10-01&enddate=2005-09-30" [1] "Returning file Info" [1] "Downloading Compressed Run File http://deq2.bse.vt.edu/data/proj3/out/runlog120.344624.log.zip" [1] "Data obtained, found 11688 lines - formatting for IHA analysis" tab.cbp6\_N51033\_YP3\_6700\_6670.means.by.flow

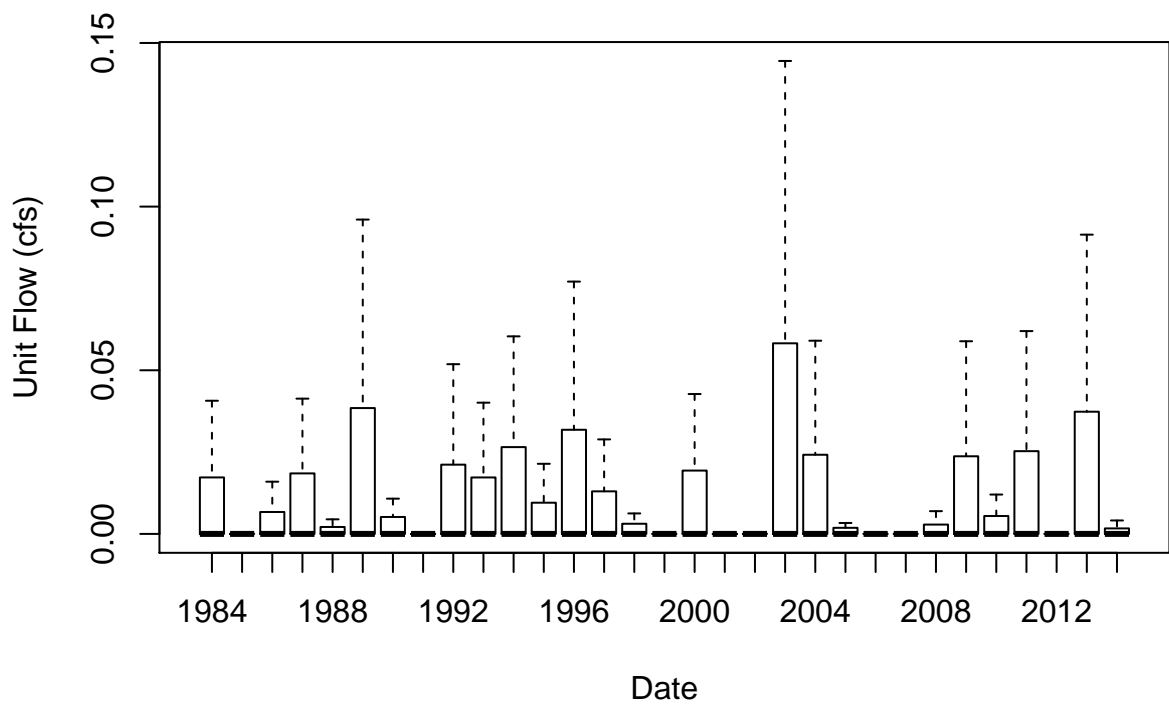
	Mean Unit Flow (cfs/sq. mi)
SURface Outflow	0.00145
InterFloW Outflow	0.000253
Active GroundWater Outflow	0.000553

tab.cbp6\_N51033\_YP3\_6700\_6670.zero.day.ratios.by.flow

	Ratio of Days with Zero Flow to Total Days
SURface Outflow	0.691
InterFloW Outflow	0.488
Active GroundWater Outflow	0.333

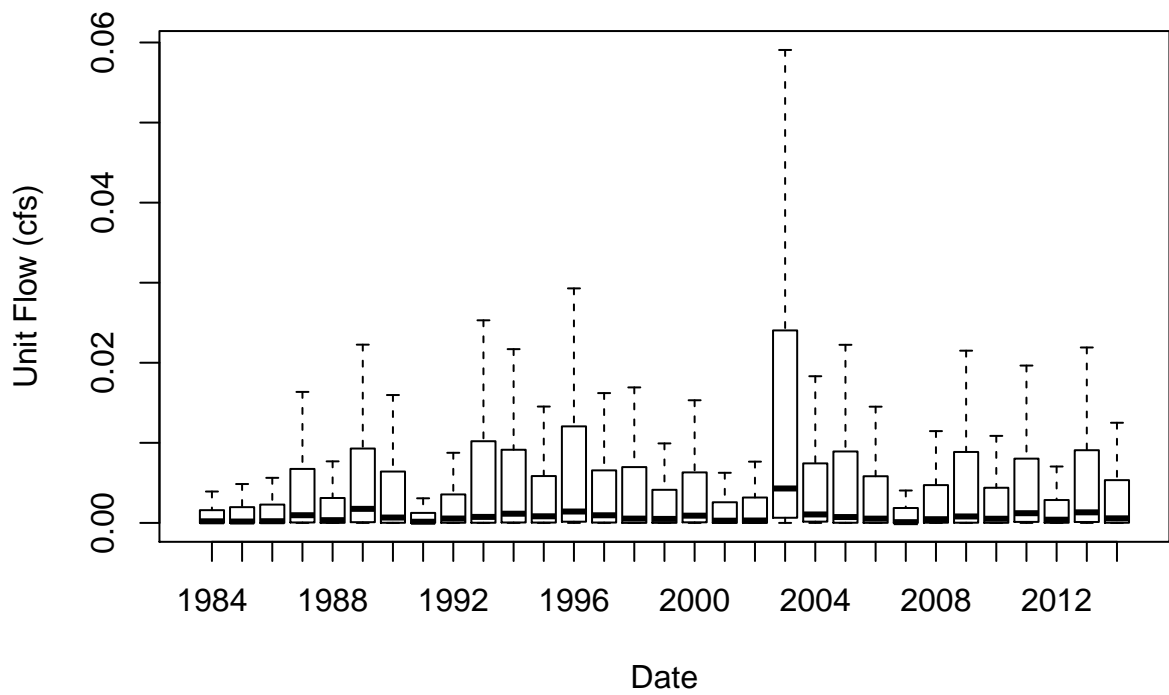
	IQR of Unit Flows (cfs/sq. mi) [25th, 75th]	
1984	6.36e-07	[0, 6.36e-07]
1985	2.87e-09	[0, 2.87e-09]
1986	4.58e-07	[0, 4.58e-07]
1987	4.75e-06	[0, 4.75e-06]
1988	6.16e-08	[0, 6.16e-08]
1989	1.14e-05	[0, 1.14e-05]
1990	5.07e-08	[0, 5.07e-08]
1991	0	[0, 0]
1992	3.19e-06	[0, 3.19e-06]
1993	5.28e-06	[0, 5.28e-06]
1994	9.12e-06	[0, 9.12e-06]
1995	1.2e-06	[0, 1.2e-06]
1996	7.54e-06	[0, 7.54e-06]
1997	1.88e-06	[0, 1.88e-06]
1998	4.45e-07	[0, 4.45e-07]
1999	1.23e-09	[0, 1.23e-09]
2000	3.21e-06	[0, 3.21e-06]
2001	0	[0, 0]
2002	2.78e-09	[0, 2.78e-09]
2003	4.19e-05	[0, 4.19e-05]
2004	5.81e-06	[0, 5.81e-06]
2005	3.47e-09	[0, 3.47e-09]
2006	1.83e-09	[0, 1.83e-09]
2007	0	[0, 0]
2008	2.52e-08	[0, 2.52e-08]
2009	5.79e-06	[0, 5.79e-06]
2010	6.66e-07	[0, 6.66e-07]
2011	4.37e-06	[0, 4.37e-06]
2012	1.88e-09	[0, 1.88e-09]
2013	5.69e-06	[0, 5.69e-06]
2014	2.69e-07	[0, 2.69e-07]

Fig: Boxplot of Annual SURO Flows for LR-seg cbp6\_N51033\_YP3\_6700\_6670



	IQR of Unit Flows (cfs/sq. mi) [25th, 75th]	
1984	1.55e-05	[0, 1.55e-05]
1985	1.43e-05	[0, 1.43e-05]
1986	1.7e-05	[0, 1.7e-05]
1987	6.34e-05	[0, 6.34e-05]
1988	2.61e-05	[0, 2.61e-05]
1989	0.000103	[0, 0.000103]
1990	5.03e-05	[0, 5.03e-05]
1991	9.98e-06	[0, 9.98e-06]
1992	2.87e-05	[0, 2.87e-05]
1993	8.18e-05	[0, 8.18e-05]
1994	8.68e-05	[0, 8.68e-05]
1995	5.98e-05	[0, 5.98e-05]
1996	0.000133	[0, 0.000133]
1997	7.66e-05	[0, 7.66e-05]
1998	5.1e-05	[0, 5.1e-05]
1999	4.42e-05	[0, 4.42e-05]
2000	7.65e-05	[0, 7.65e-05]
2001	2.34e-05	[0, 2.34e-05]
2002	2.13e-05	[0, 2.13e-05]
2003	0.000338	[0, 0.000338]
2004	9.2e-05	[0, 9.2e-05]
2005	6.84e-05	[0, 6.84e-05]
2006	5.57e-05	[0, 5.57e-05]
2007	1.02e-05	[0, 1.02e-05]
2008	4.18e-05	[0, 4.18e-05]
2009	6.89e-05	[0, 6.89e-05]
2010	3.96e-05	[0, 3.96e-05]
2011	9.66e-05	[0, 9.66e-05]
2012	2.91e-05	[0, 2.91e-05]
2013	9.51e-05	[0, 9.51e-05]
2014	4.61e-05	[0, 4.61e-05]

Fig: Boxplot of Annual IFWO Flows for LR-seg cbp6\_N51033\_YP3\_6700\_6670

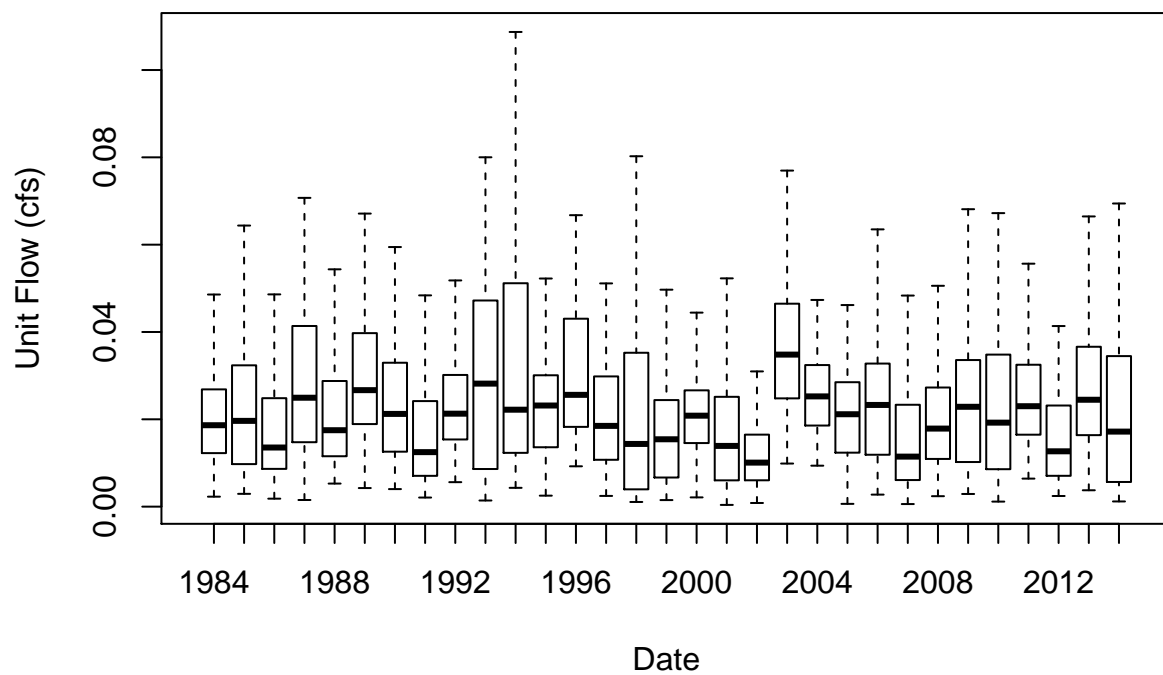




tab.AGWO.cbp6\_N51033\_YP3\_6700\_6670.iqr.by.lrseg.flow.annual

	IQR of Unit Flows (cfs/sq. mi) [25th, 75th]
1984	0.000785 [0, 0.000785]
1985	0.000893 [0, 0.000893]
1986	0.000632 [0, 0.000632]
1987	0.00117 [0, 0.00117]
1988	0.000828 [0, 0.000828]
1989	0.00111 [0, 0.00111]
1990	0.000917 [0, 0.000917]
1991	0.000619 [0, 0.000619]
1992	0.000879 [0, 0.000879]
1993	0.00133 [0, 0.00133]
1994	0.00105 [0, 0.00105]
1995	0.000958 [0, 0.000958]
1996	0.00112 [0, 0.00112]
1997	0.00084 [0, 0.00084]
1998	0.000806 [0, 0.000806]
1999	0.000722 [0, 0.000722]
2000	0.000848 [0, 0.000848]
2001	0.000637 [0, 0.000637]
2002	0.00045 [0, 0.00045]
2003	0.00143 [0, 0.00143]
2004	0.00101 [0, 0.00101]
2005	0.00086 [0, 0.00086]
2006	0.00098 [0, 0.00098]
2007	0.000539 [0, 0.000539]
2008	0.000764 [0, 0.000764]
2009	0.000976 [0, 0.000976]
2010	0.000824 [0, 0.000824]
2011	0.000951 [0, 0.000951]
2012	0.000611 [0, 0.000611]
2013	0.00105 [0, 0.00105]
2014	0.000911 [0, 0.000911]

Fig: Boxplot of Annual AGWO Flows for LR-seg cbp6\_N51033\_YP3\_6700\_6670



tab.cbp6\_N51033\_YP3\_6700\_6670.means.by.land.use

	Mean Unit Flow (cfs/sq. mi)
aop	0.000473
cch	0.000683
cci	0.00121
ccn	0.000701
cfr	0.00041
cir	0.00121
cmo	0.000425
cnr	0.00121
ctg	0.000683
dbl	0.000499
fnp	0.00121
for	0.00041
fsp	0.00121
gom	0.000499
gwm	0.000499
hfr	0.000542
lhy	0.000472
mch	0.000683
mci	0.00121
mcn	0.000701
mir	0.00121
mnr	0.00121
mtg	0.000683
nch	0.000683
nci	0.00121
nir	0.00121
nnr	0.00121
ntg	0.000683
oac	0.000499
ohy	0.000472
osp	0.000425
pas	0.000472
sch	0.000499
scl	0.000499
sgg	0.000499
sho	0.00121
som	0.000499
soy	0.000499
stb	0.00121
stf	0.00121
swm	0.000499
wfp	0.00041
wto	0.000161

tab.cbp6\_N51033\_YP3\_6700\_6670.zero.day.ratios.by.land.use

	Ratio of Days with Zero Flow to Total Days
aop	0.307
cch	0.297
cci	0.907
ccn	0.29
cfr	0.337
cir	0.907
cmo	0.322
cnr	0.907
ctg	0.297
dbl	0.298
fnp	0.906
for	0.339
fsp	0.906
gom	0.298
gwm	0.298
hfr	0.293
lhy	0.308
mch	0.297
mci	0.907
mcn	0.29
mir	0.907
mnr	0.907
mtg	0.297
nch	0.297
nci	0.907
nir	0.907
nnr	0.907
ntg	0.297
oac	0.298
ohy	0.308
osp	0.322
pas	0.308
sch	0.298
scl	0.298
sgg	0.298
sho	0.907
som	0.298
soy	0.298
stb	0.907
stf	0.907
swm	0.298
wfp	0.339
wto	0.508

“Number of features found: 1” \$varkey [1] “om\_class\_cbp\_eos\_file”

\$featureid [1] 452499 Levels: 452499

\$entity\_type [1] “dh\_feature”

\$propcode [1] “vahydro-1.0”

[1] "Trying [http://deq2.bse.vt.edu/d.dh/?q=vardefs.tsv/om\\_class\\_cbp\\_eos\\_file](http://deq2.bse.vt.edu/d.dh/?q=vardefs.tsv/om_class_cbp_eos_file)" [1] "varid: 1394" [1] "Number of properties found: 1" \$varkey [1] "om\_element\_connection"

\$featureid [1] 4842876

\$entity\_type [1] "dh\_properties"

[1] "Trying [http://deq2.bse.vt.edu/d.dh/?q=vardefs.tsv/om\\_element\\_connection](http://deq2.bse.vt.edu/d.dh/?q=vardefs.tsv/om_element_connection)" [1] "varid: 1119" [1] "Number of properties found: 1" [1] "Getting Info for run 120 for element 344868" [1] "From [http://deq2.bse.vt.edu/om/remote/get\\_modelData.php?operation=11&elementid=344868&runid=120&startdate=1984-10-01&enddate=2005-09-30](http://deq2.bse.vt.edu/om/remote/get_modelData.php?operation=11&elementid=344868&runid=120&startdate=1984-10-01&enddate=2005-09-30)" [1] "Returning file Info" [1] "Downloading Compressed Run File <http://deq2.bse.vt.edu/data/proj3/out/runlog120.344868.log.zip>" [1] "Data obtained, found 11688 lines - formatting for IHA analysis" tab.cbp6\_N51085\_YP3\_6700\_6670.means.by.flow

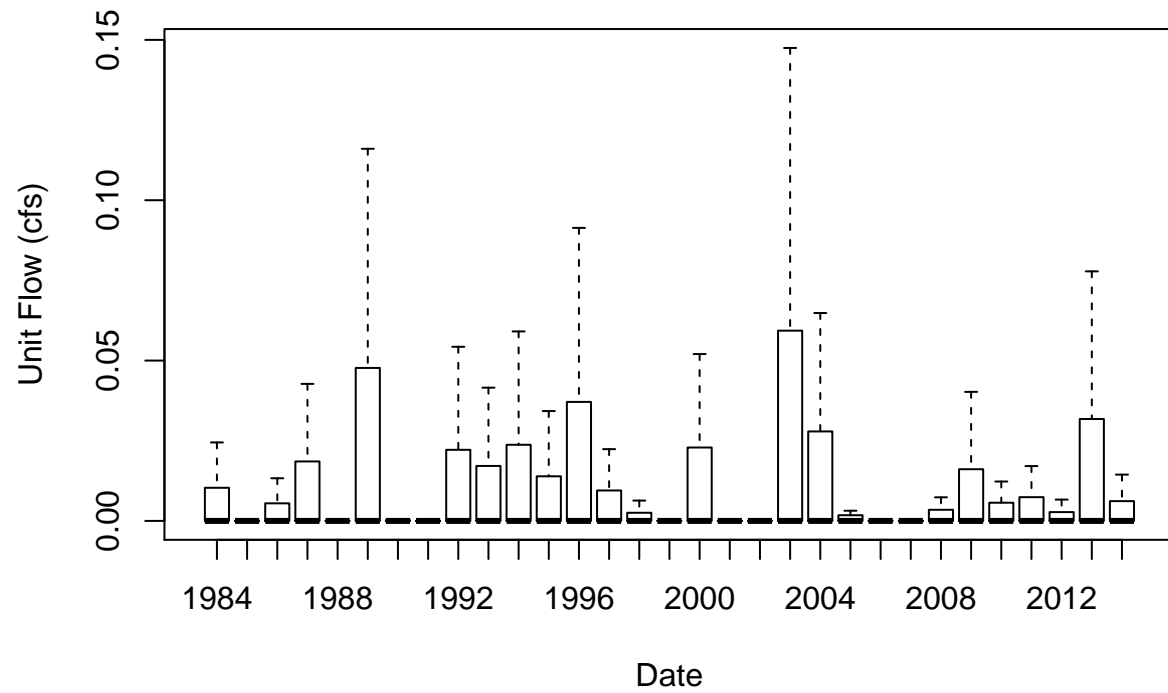
	Mean Unit Flow (cfs/sq. mi)
SURface Outflow	0.00137
InterFloW Outflow	0.000196
Active GroundWater Outflow	0.000654

tab.cbp6\_N51085\_YP3\_6700\_6670.zero.day.ratios.by.flow

	Ratio of Days with Zero Flow to Total Days
SURface Outflow	0.69
InterFloW Outflow	0.477
Active GroundWater Outflow	0.333

	IQR of Unit Flows (cfs/sq. mi) [25th, 75th]	
1984	3.56e-07	[0, 3.56e-07]
1985	2.69e-09	[0, 2.69e-09]
1986	8.73e-08	[0, 8.73e-08]
1987	1.59e-06	[0, 1.59e-06]
1988	8.61e-09	[0, 8.61e-09]
1989	8.64e-06	[0, 8.64e-06]
1990	8.76e-09	[0, 8.76e-09]
1991	4.08e-10	[0, 4.08e-10]
1992	1.63e-06	[0, 1.63e-06]
1993	3.33e-06	[0, 3.33e-06]
1994	3.9e-06	[0, 3.9e-06]
1995	1.16e-06	[0, 1.16e-06]
1996	6.61e-06	[0, 6.61e-06]
1997	7.92e-07	[0, 7.92e-07]
1998	1.7e-07	[0, 1.7e-07]
1999	1.01e-09	[0, 1.01e-09]
2000	3.02e-06	[0, 3.02e-06]
2001	0	[0, 0]
2002	5.64e-09	[0, 5.64e-09]
2003	1.77e-05	[0, 1.77e-05]
2004	5.62e-06	[0, 5.62e-06]
2005	1.66e-08	[0, 1.66e-08]
2006	4.6e-10	[0, 4.6e-10]
2007	0	[0, 0]
2008	8.63e-08	[0, 8.63e-08]
2009	2.38e-06	[0, 2.38e-06]
2010	2.17e-07	[0, 2.17e-07]
2011	8.32e-07	[0, 8.32e-07]
2012	9.22e-08	[0, 9.22e-08]
2013	6.64e-06	[0, 6.64e-06]
2014	5.8e-07	[0, 5.8e-07]

Fig: Boxplot of Annual SURO Flows for LR-seg cbp6\_N51085\_YP3\_6700\_6670

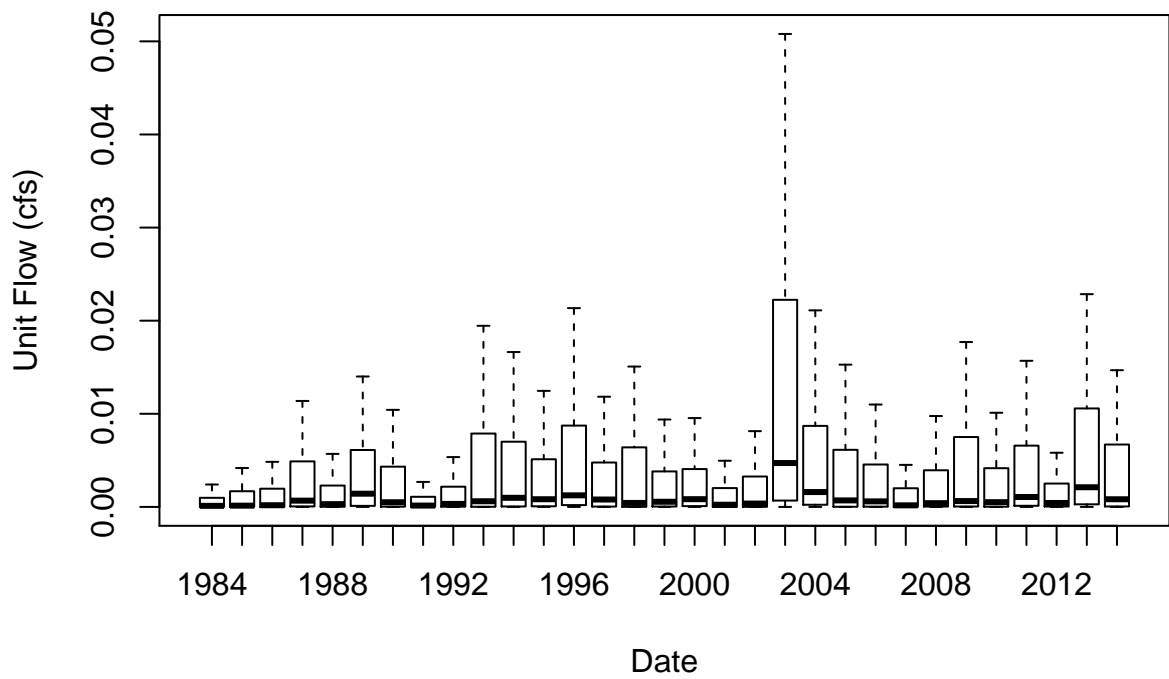


tab.IFWO.cbp6\_N51085\_YP3\_6700\_6670.iqr.by.lrseg.flow.annual

	IQR of Unit Flows (cfs/sq. mi) [25th, 75th]
1984	9.5e-06 [0, 9.5e-06]
1985	1.2e-05 [0, 1.2e-05]
1986	1.26e-05 [0, 1.26e-05]
1987	3.89e-05 [0, 3.89e-05]
1988	1.73e-05 [0, 1.73e-05]
1989	5.24e-05 [0, 5.24e-05]
1990	2.99e-05 [0, 2.99e-05]
1991	8.21e-06 [0, 8.21e-06]
1992	1.61e-05 [0, 1.61e-05]
1993	6.14e-05 [0, 6.14e-05]
1994	6.06e-05 [0, 6.06e-05]
1995	3.84e-05 [0, 3.84e-05]
1996	9.15e-05 [0, 9.15e-05]
1997	4.92e-05 [0, 4.92e-05]
1998	4.14e-05 [0, 4.14e-05]
1999	4.03e-05 [0, 4.03e-05]
2000	5.46e-05 [0, 5.46e-05]
2001	1.87e-05 [0, 1.87e-05]
2002	1.81e-05 [0, 1.81e-05]
2003	0.000302 [0, 0.000302]
2004	0.00011 [0, 0.00011]
2005	5.04e-05 [0, 5.04e-05]
2006	5.11e-05 [0, 5.11e-05]
2007	1.64e-05 [0, 1.64e-05]
2008	2.91e-05 [0, 2.91e-05]
2009	5.46e-05 [0, 5.46e-05]
2010	3.15e-05 [0, 3.15e-05]
2011	7.15e-05 [0, 7.15e-05]
2012	2.73e-05 [0, 2.73e-05]
2013	0.000126 [0, 0.000126]
2014	6.18e-05 [0, 6.18e-05]



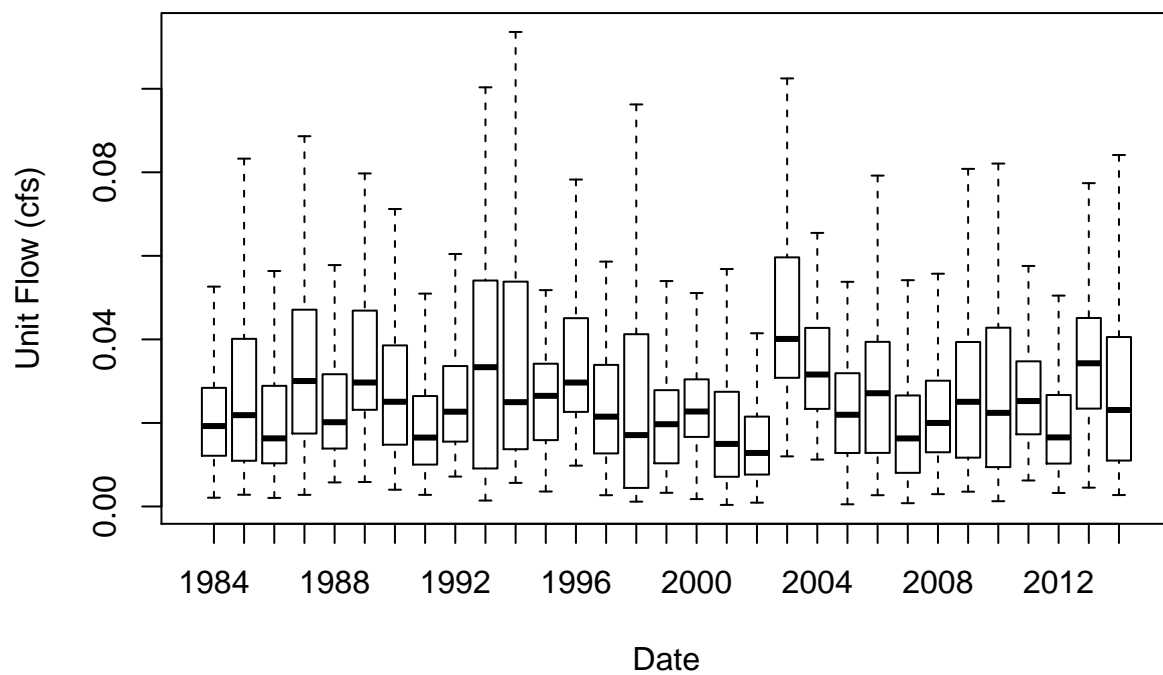
Fig: Boxplot of Annual IFWO Flows for LR-seg cbp6\_N51085\_YP3\_6700\_6670



tab.AGWO.cbp6\_N51085\_YP3\_6700\_6670.iqr.by.lrseg.flow.annual

	IQR of Unit Flows (cfs/sq. mi) [25th, 75th]
1984	0.000819 [0, 0.000819]
1985	0.00101 [0, 0.00101]
1986	0.000756 [0, 0.000756]
1987	0.00133 [0, 0.00133]
1988	0.000916 [0, 0.000916]
1989	0.00126 [0, 0.00126]
1990	0.00108 [0, 0.00108]
1991	0.000736 [0, 0.000736]
1992	0.000976 [0, 0.000976]
1993	0.00153 [0, 0.00153]
1994	0.00126 [0, 0.00126]
1995	0.00106 [0, 0.00106]
1996	0.00128 [0, 0.00128]
1997	0.000974 [0, 0.000974]
1998	0.000895 [0, 0.000895]
1999	0.000827 [0, 0.000827]
2000	0.000932 [0, 0.000932]
2001	0.000732 [0, 0.000732]
2002	0.000595 [0, 0.000595]
2003	0.00173 [0, 0.00173]
2004	0.0013 [0, 0.0013]
2005	0.000925 [0, 0.000925]
2006	0.00117 [0, 0.00117]
2007	0.000727 [0, 0.000727]
2008	0.000842 [0, 0.000842]
2009	0.00111 [0, 0.00111]
2010	0.001 [0, 0.001]
2011	0.00106 [0, 0.00106]
2012	0.000744 [0, 0.000744]
2013	0.00141 [0, 0.00141]
2014	0.00111 [0, 0.00111]

Fig: Boxplot of Annual AGWO Flows for LR-seg cbp6\_N51085\_YP3\_6700\_6670



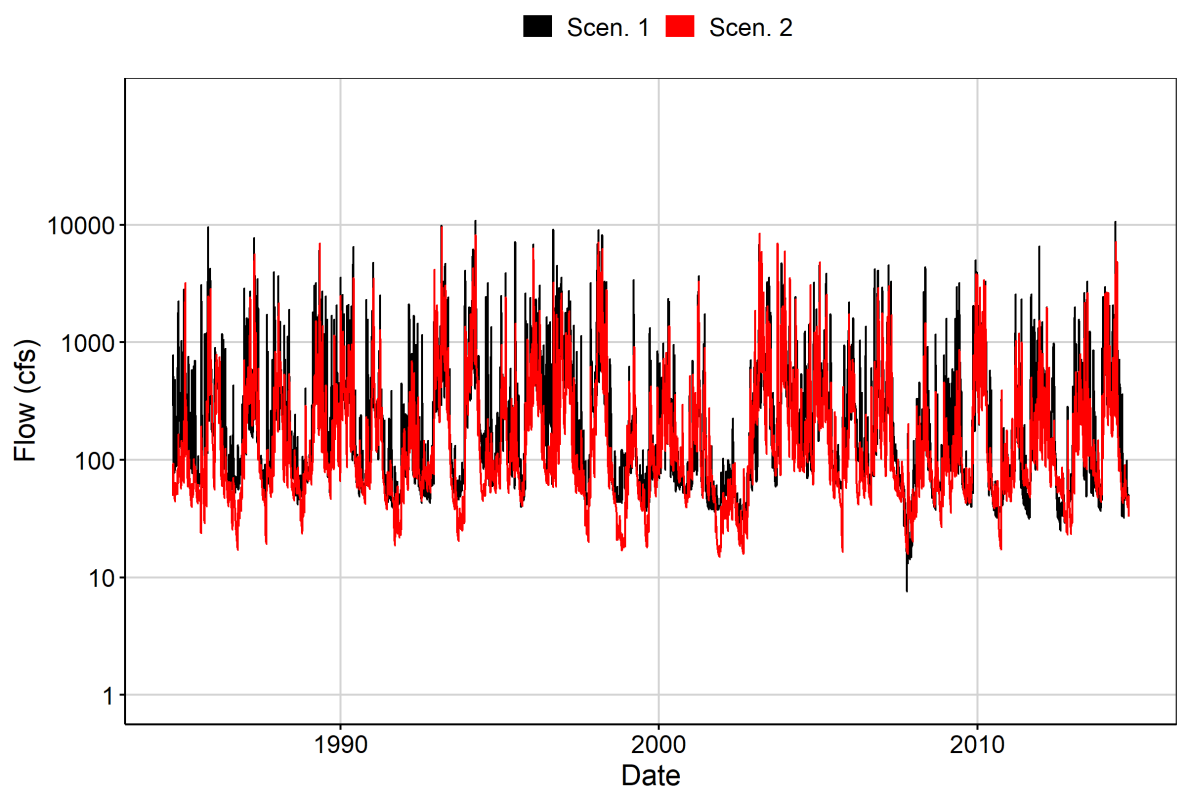
tab.cbp6\_N51085\_YP3\_6700\_6670.means.by.land.use

	Mean Unit Flow (cfs/sq. mi)
aop	4.49e-04
cch	6.61e-04
cci	1.23e-03
ccn	6.71e-04
cfr	3.80e-04
cir	1.23e-03
cmo	3.95e-04
cnr	1.23e-03
ctg	6.61e-04
dbl	4.76e-04
fnp	1.23e-03
for	3.80e-04
fsp	1.23e-03
gom	4.76e-04
gwm	4.76e-04
hfr	5.27e-04
lhy	4.49e-04
mch	6.61e-04
mci	1.23e-03
mcn	6.71e-04
mir	1.23e-03
mnr	1.23e-03
mtg	6.61e-04
nch	6.61e-04
nci	1.23e-03
nir	1.23e-03
nnr	1.23e-03
ntg	6.61e-04
oac	4.76e-04
ohy	4.49e-04
osp	3.95e-04
pas	4.49e-04
sch	4.76e-04
scl	4.76e-04
sgg	4.76e-04
sho	1.23e-03
som	4.76e-04
soy	4.76e-04
stb	1.23e-03
stf	1.23e-03
swm	4.76e-04
wfp	3.80e-04
wto	8.51e-05

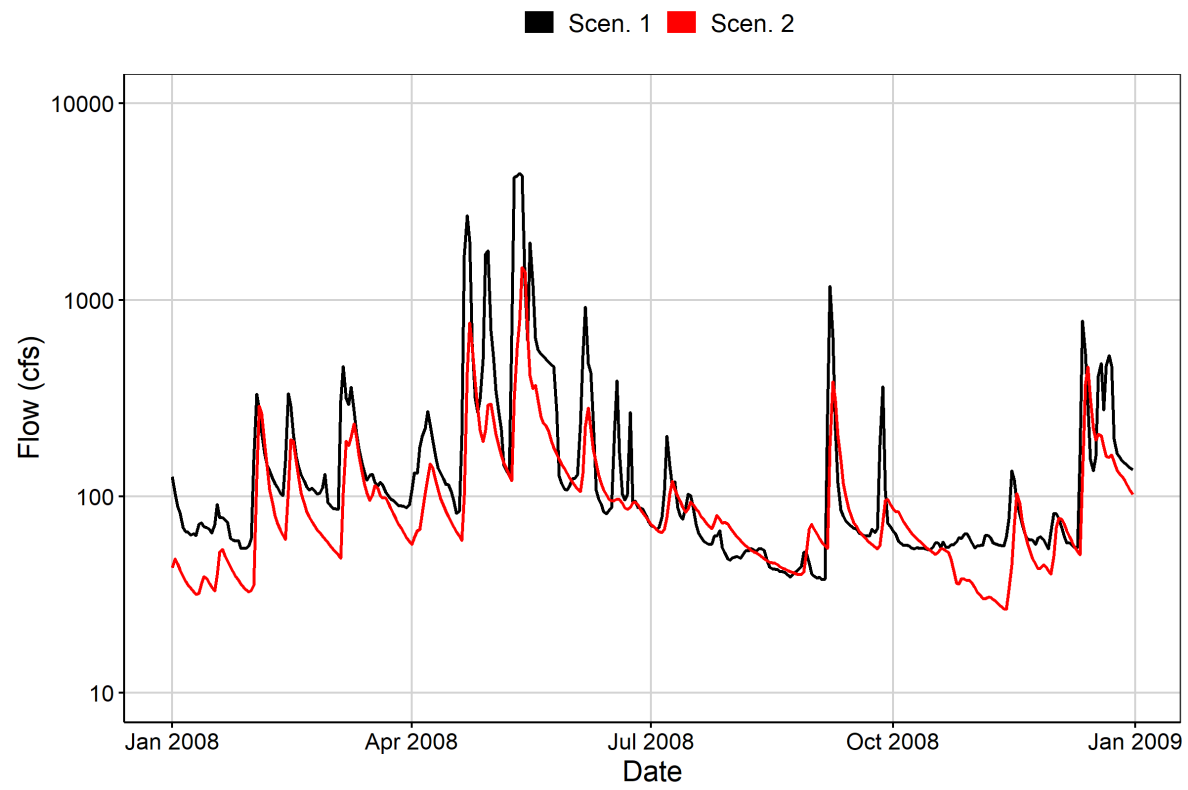
tab.cbp6\_N51085\_YP3\_6700\_6670.zero.day.ratios.by.land.use

	Ratio of Days with Zero Flow to Total Days
aop	0.302
cch	0.289
cci	0.908
ccn	0.279
cfr	0.33
cir	0.908
cmo	0.318
cnr	0.908
ctg	0.289
dbl	0.293
fnp	0.905
for	0.331
fsp	0.905
gom	0.293
gwm	0.293
hfr	0.287
lhy	0.304
mch	0.289
mci	0.908
mcn	0.279
mir	0.908
mnr	0.908
mtg	0.289
nch	0.289
nci	0.908
nir	0.908
nnr	0.908
ntg	0.289
oac	0.293
ohy	0.304
osp	0.318
pas	0.304
sch	0.293
scl	0.293
sgg	0.293
sho	0.908
som	0.293
soy	0.293
stb	0.908
stf	0.908
swm	0.293
wfp	0.331
wto	0.496

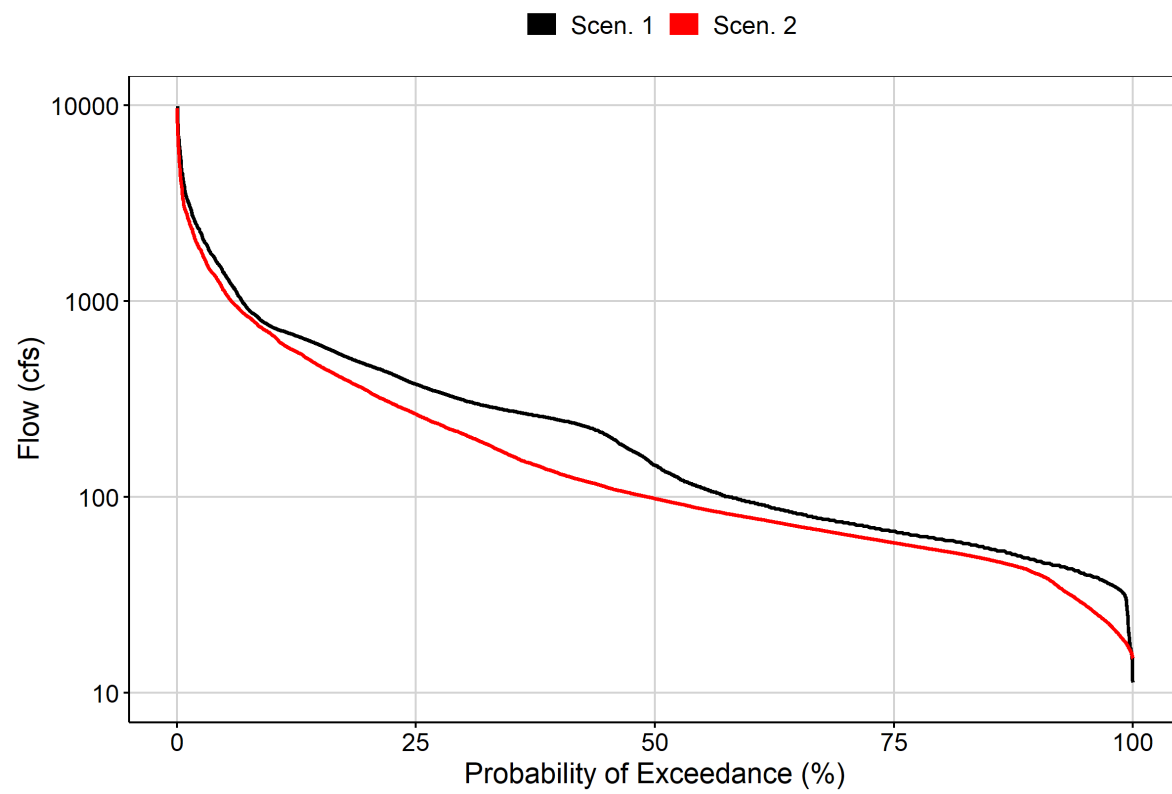
Fig. 1: Hydrograph



**Fig. 2: Zoomed Hydrograph**

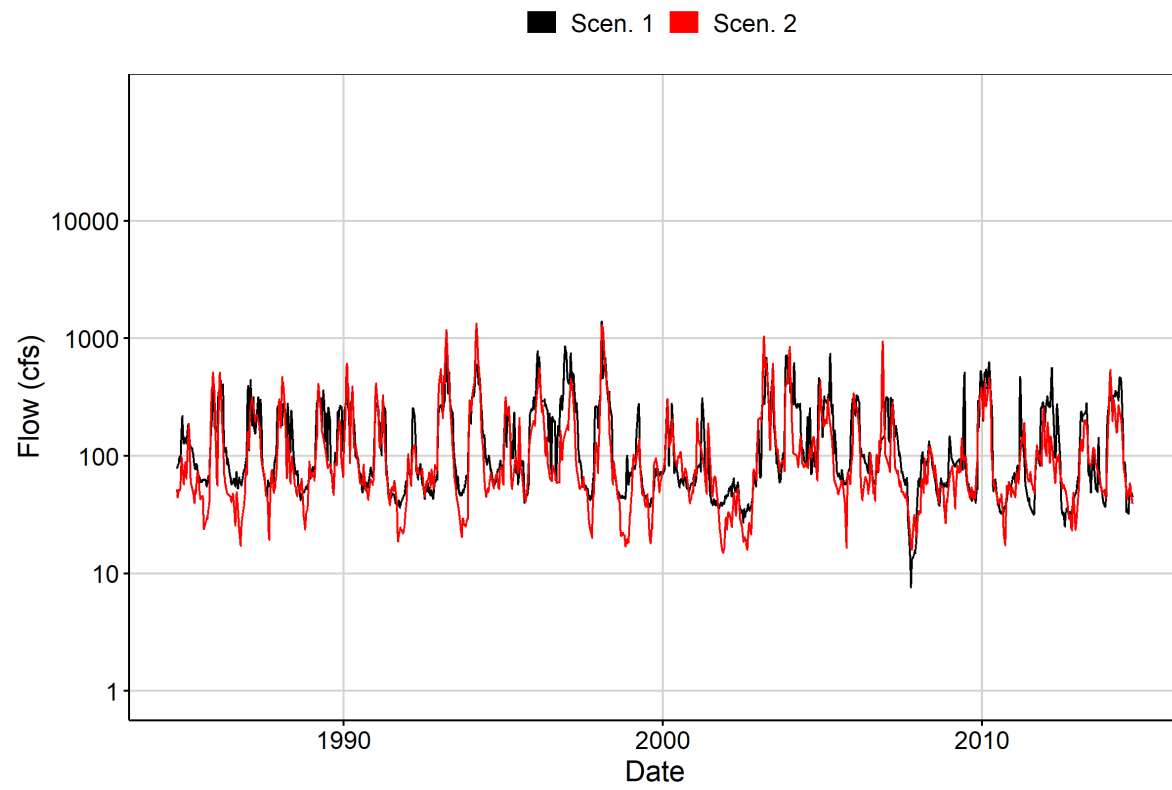


**Fig. 3: Flow Exceedance**





**Fig. 4: Baseflow**



**Fig. 5: Combined Baseflow**

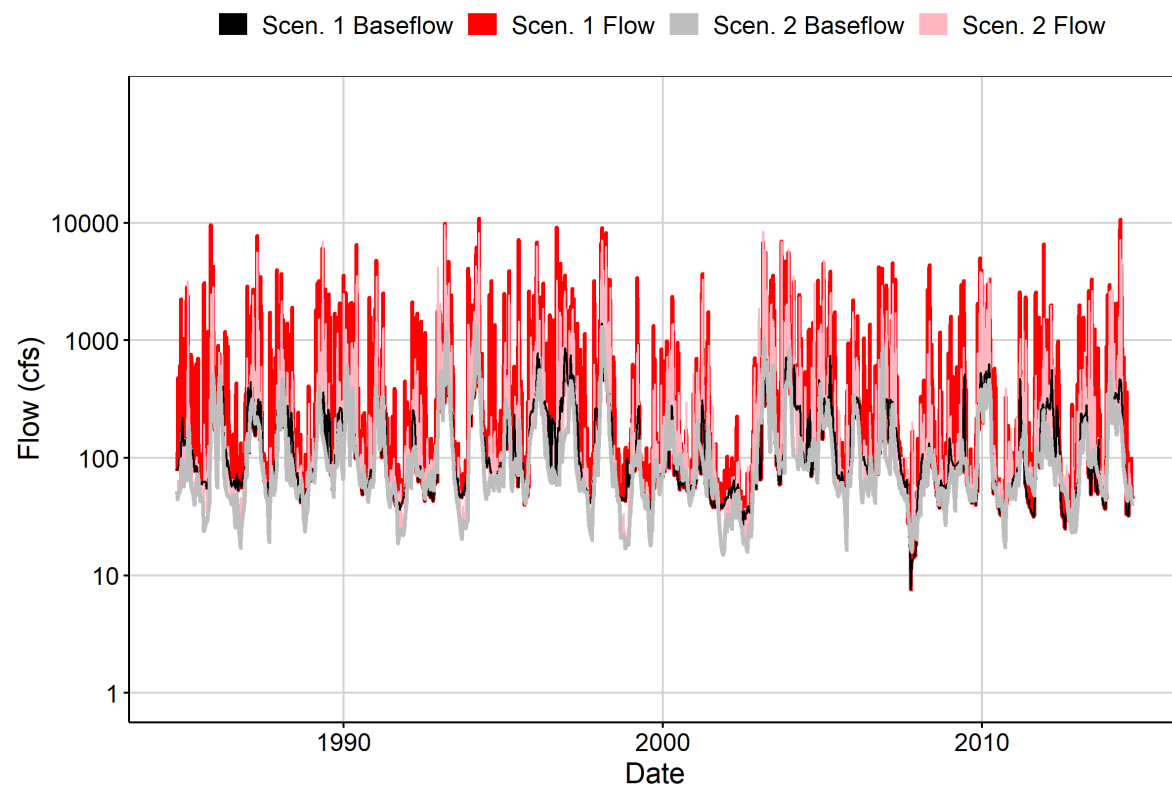


Fig. 6: Largest Difference Period

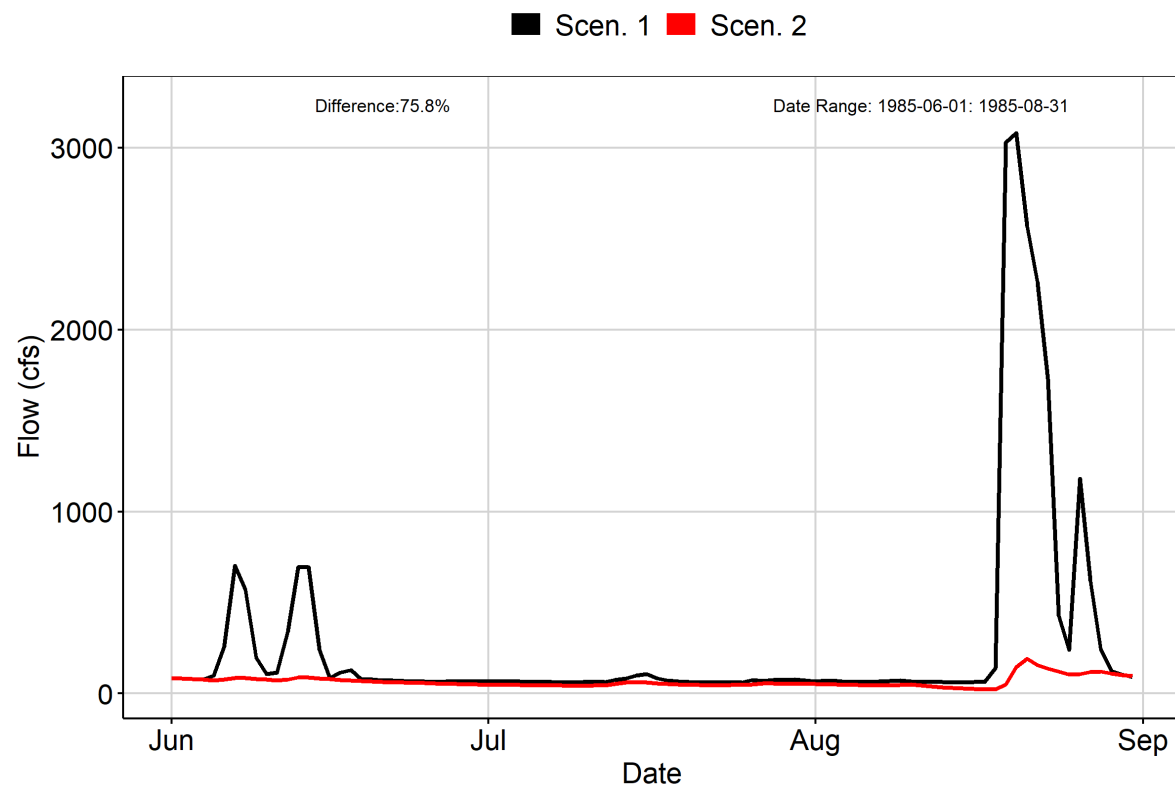


Fig. 7: Second Largest Difference Period

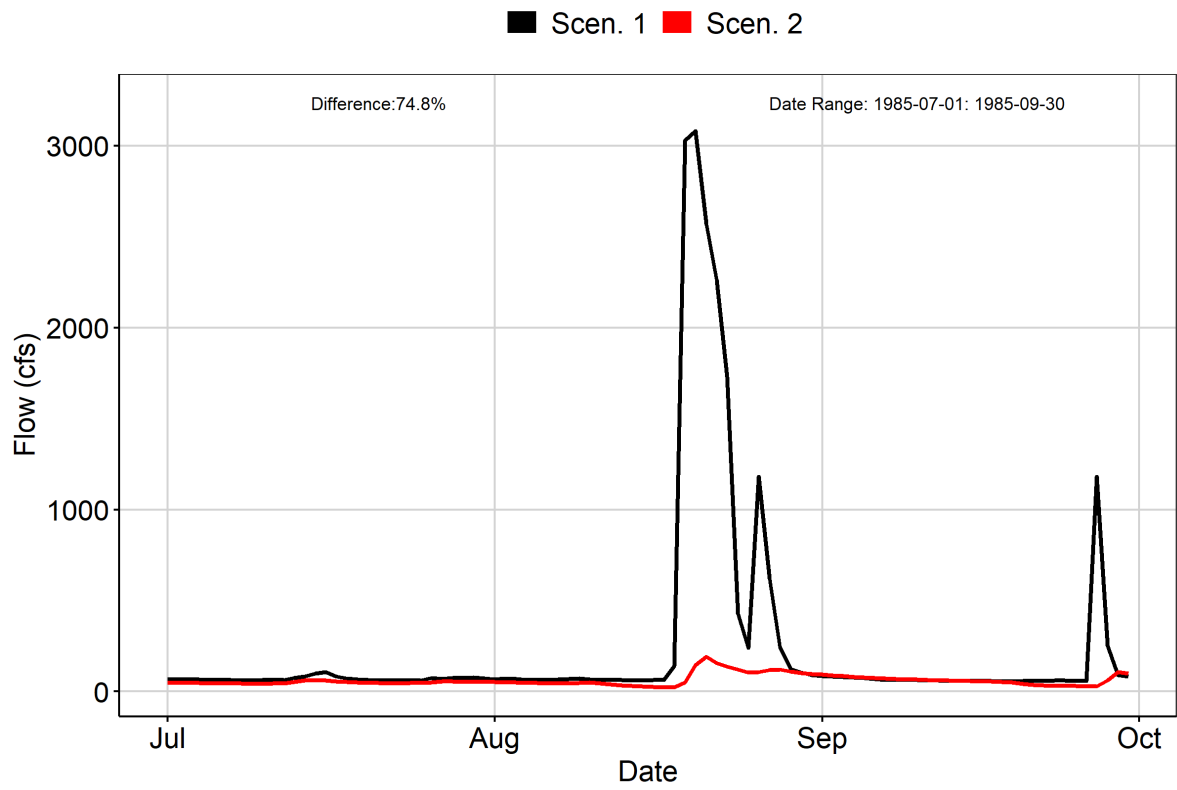


Fig. 8: Third Largest Difference Period

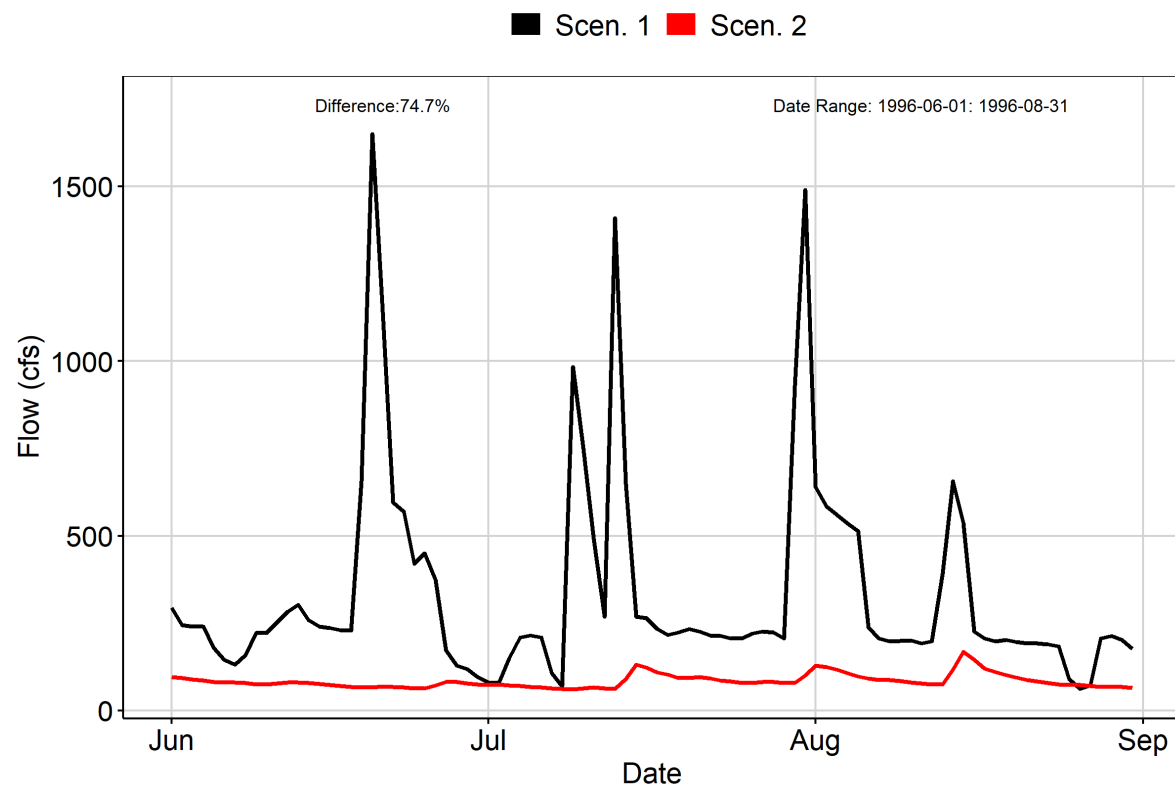


Fig. 9A: Residuals Plot

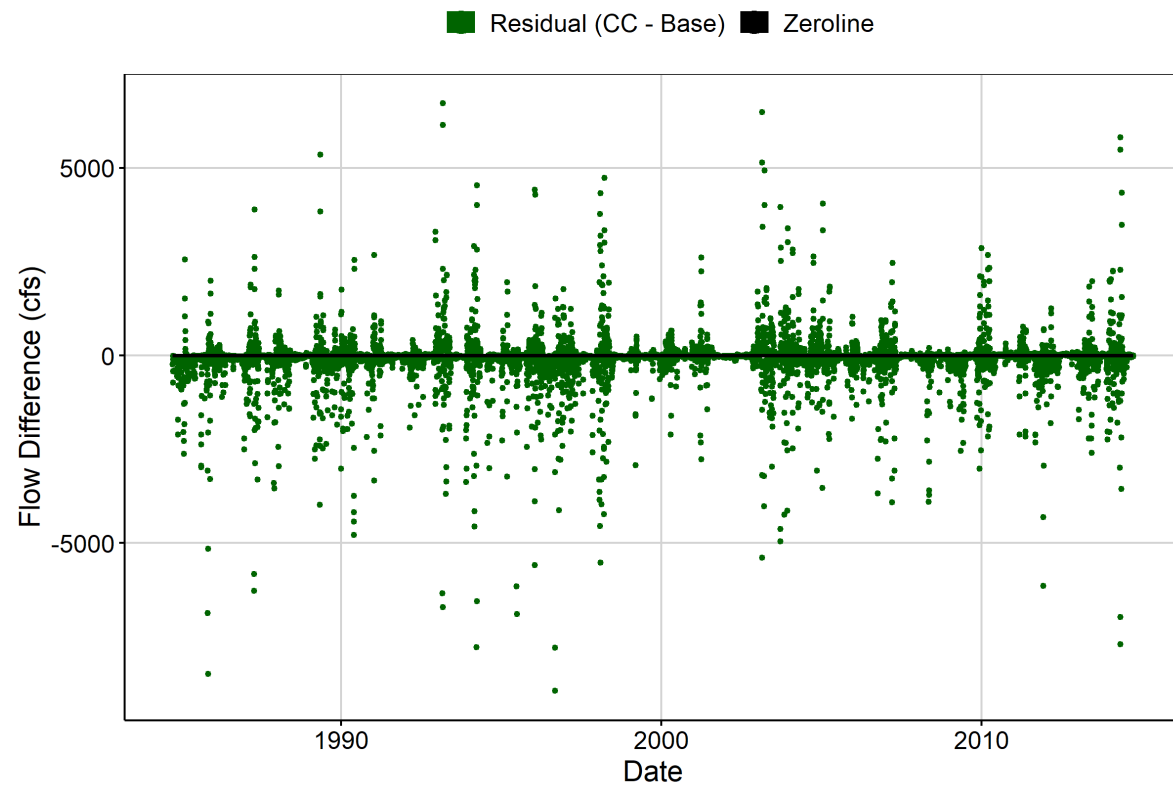


Fig. 9B: Area Weighted Residuals Plot

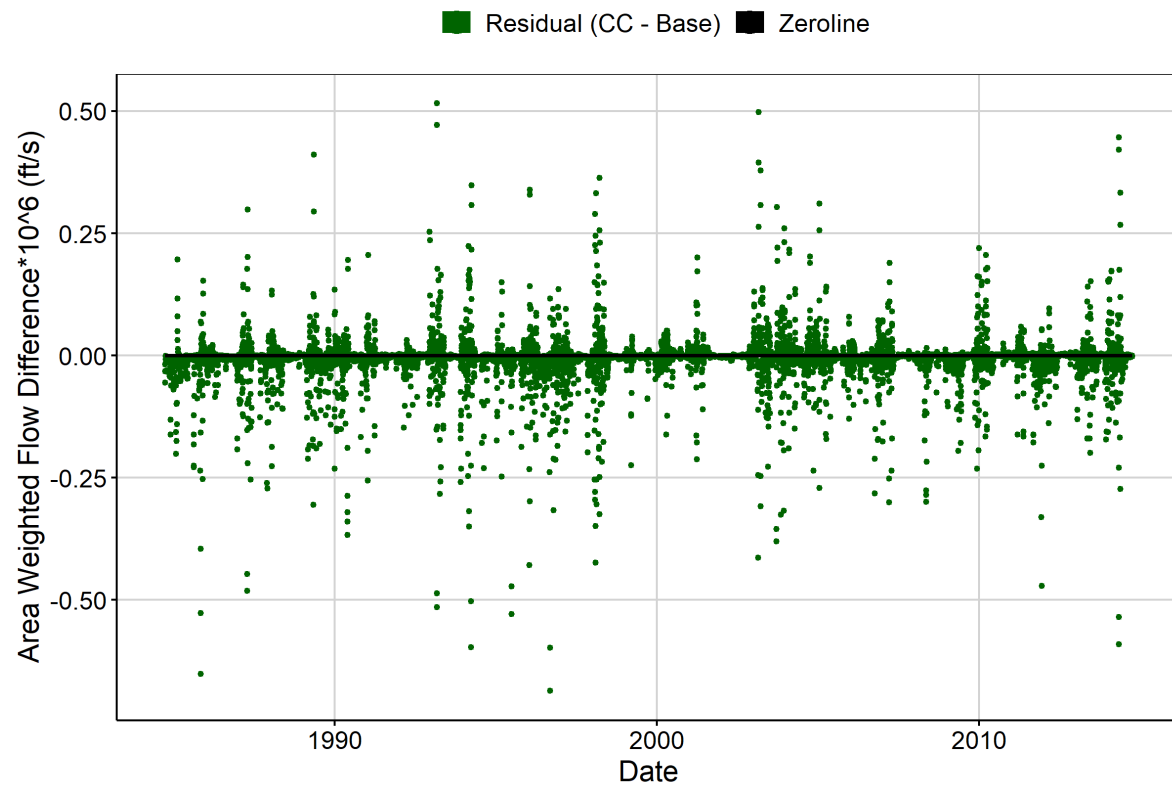
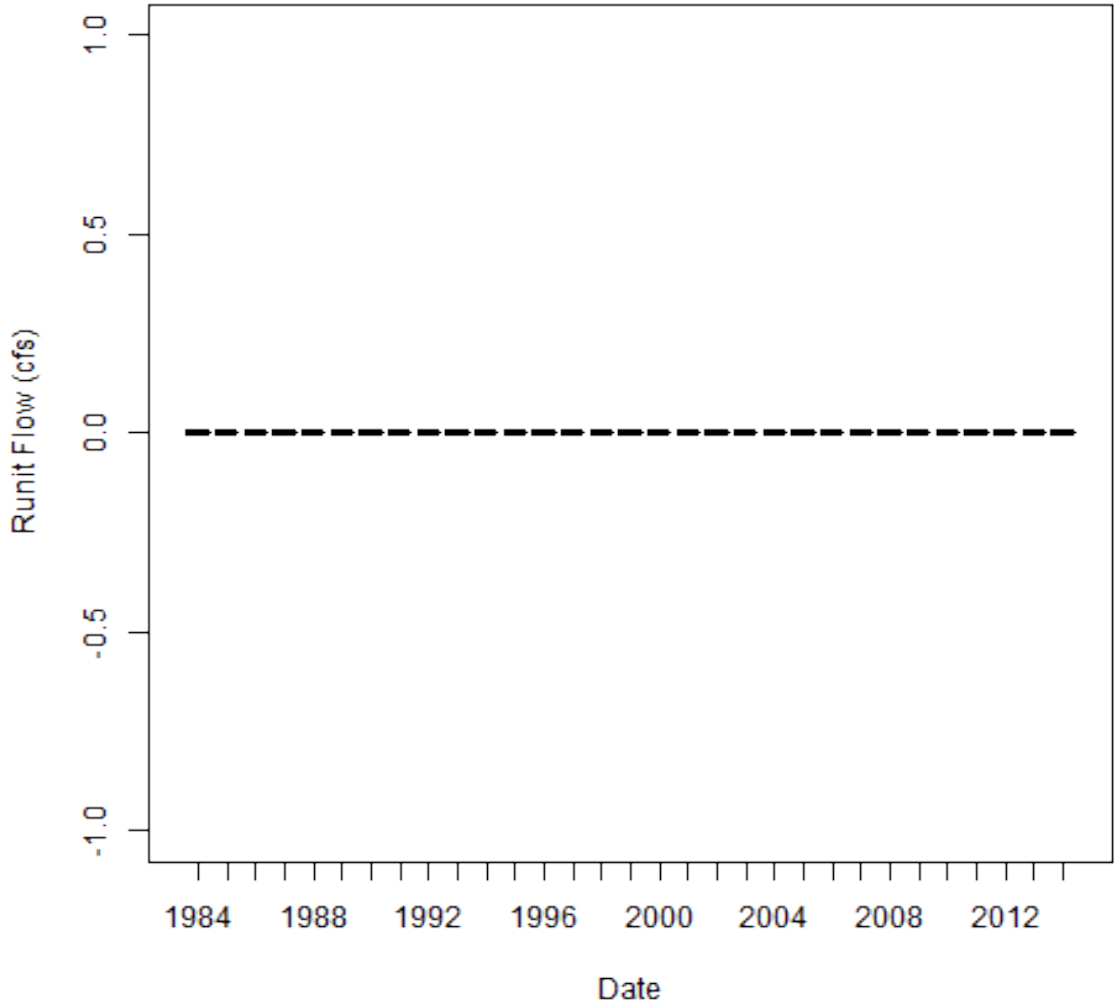


Fig. 10: VA Hydro Scen. 1 Runit Values (Outliers Excluded)



IQR of Runit Flows (cfs/sq. mi) [25th, 75th]	
1984	0 [0, 0]
1985	0 [0, 0]
1986	0 [0, 0]
1987	0 [0, 0]
1988	0 [0, 0]
1989	0 [0, 0]
1990	0 [0, 0]
1991	0 [0, 0]
1992	0 [0, 0]
1993	0 [0, 0]
1994	0 [0, 0]
1995	0 [0, 0]



	IQR of Runit Flows (cfs/sq. mi) [25th, 75th]
1996	0 [0, 0]
1997	0 [0, 0]
1998	0 [0, 0]
1999	0 [0, 0]
2000	0 [0, 0]
2001	0 [0, 0]
2002	0 [0, 0]
2003	0 [0, 0]
2004	0 [0, 0]
2005	0 [0, 0]
2006	0 [0, 0]
2007	0 [0, 0]
2008	0 [0, 0]
2009	0 [0, 0]
2010	0 [0, 0]
2011	0 [0, 0]
2012	0 [0, 0]
2013	0 [0, 0]
2014	0 [0, 0]

Fig. 11: Smallest Difference Period

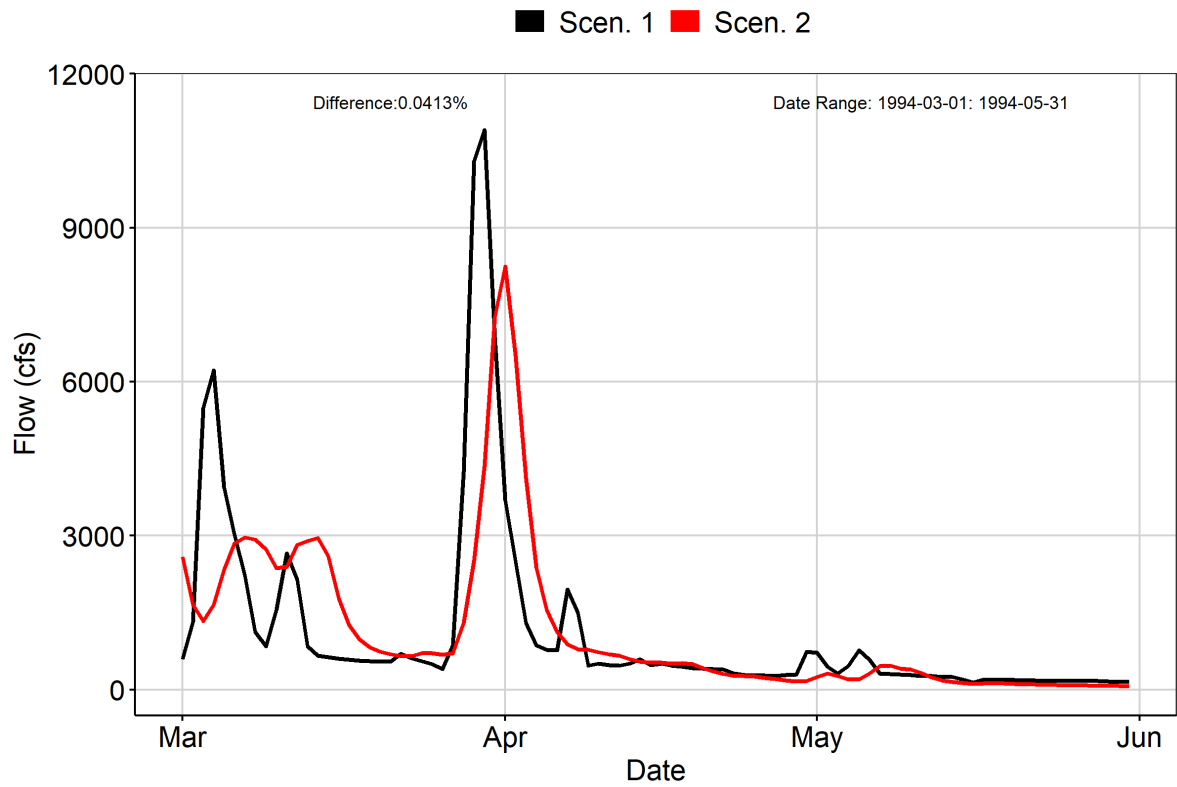


Fig. 12: Second Smallest Difference Period

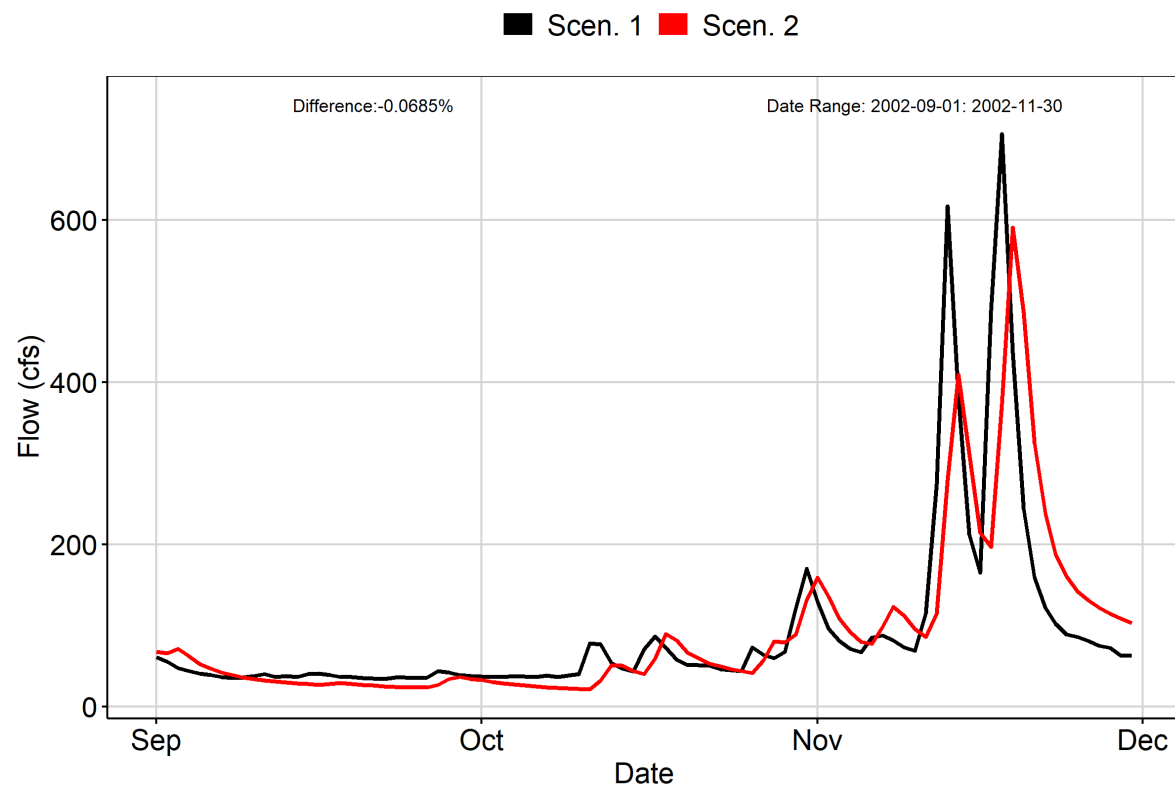


Fig. 13: Third Smallest Difference Period

