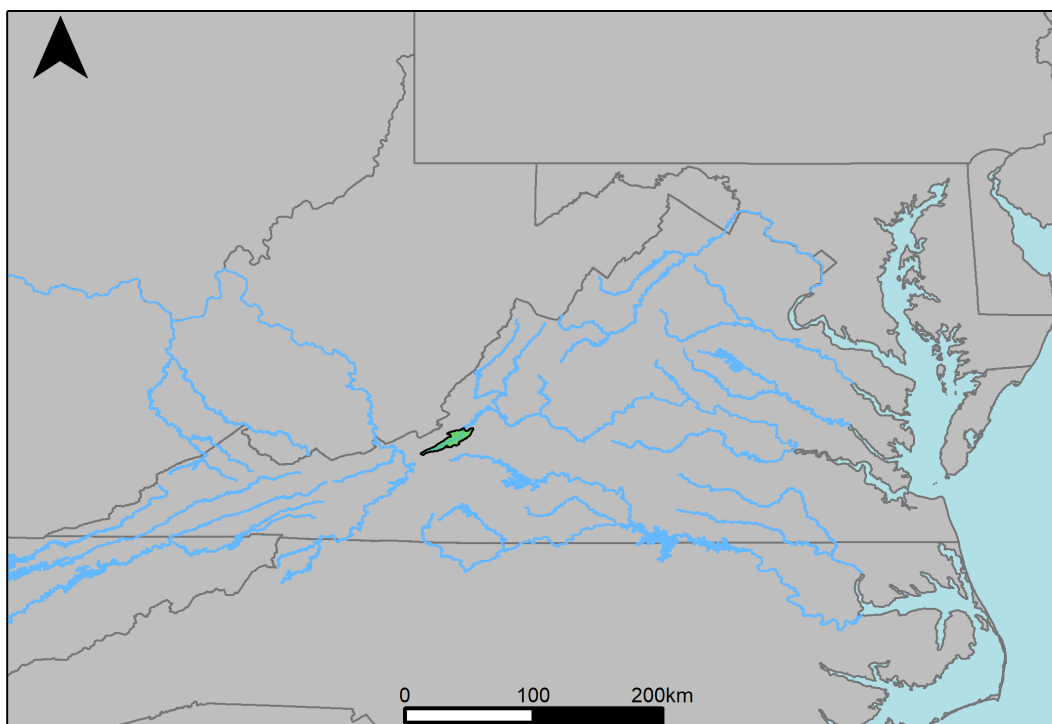


River Segment JU1_7690_7490: VA Hydro Run 120 vs. VA Hydro Run 121



The average daily discharge change between scenario 1 and scenario 2 for the 20 year timespan was 4.14883%, with 0.556% of its rolling three month time spans above 20% difference.

Table 1: Monthly Low Flows

| | Scen. 1 | Scen. 2 | Pct. Difference |
|---------------|---------|---------|-----------------|
| Jan. Low Flow | 17.5 | 17.8 | 1.41 |
| Feb. Low Flow | 37.5 | 39.6 | 5.53 |
| Mar. Low Flow | 70.2 | 71.4 | 1.82 |
| Apr. Low Flow | 89.4 | 98.1 | 9.7 |
| May Low Flow | 121 | 128 | 5.6 |
| Jun. Low Flow | 120 | 120 | -0.1 |
| Jul. Low Flow | 83.3 | 86 | 3.26 |
| Aug. Low Flow | 60.3 | 59.8 | -0.9 |
| Sep. Low Flow | 15.6 | 15.8 | 1.63 |
| Oct. Low Flow | 3.3 | 3.4 | 3.02 |
| Nov. Low Flow | 2.72 | 2.82 | 3.41 |
| Dec. Low Flow | 5.23 | 5.19 | -0.87 |

Table 2: Monthly Average Flows

| | Scen. 1 | Scen. 2 | Pct. Difference |
|-------------------|---------|---------|-----------------|
| Overall Mean Flow | 133 | 138 | 4.15 |
| Jan. Mean Flow | 202 | 216 | 6.96 |
| Feb. Mean Flow | 214 | 225 | 5.37 |
| Mar. Mean Flow | 258 | 254 | -1.26 |
| Apr. Mean Flow | 204 | 216 | 5.87 |
| May Mean Flow | 134 | 139 | 3.55 |
| Jun. Mean Flow | 101 | 105 | 4.18 |
| Jul. Mean Flow | 42.5 | 43.2 | 1.75 |
| Aug. Mean Flow | 49.3 | 52.2 | 5.84 |
| Sep. Mean Flow | 80.7 | 86.7 | 7.4 |
| Oct. Mean Flow | 71.3 | 72.4 | 1.57 |
| Nov. Mean Flow | 104 | 108 | 3.86 |
| Dec. Mean Flow | 141 | 150 | 6.27 |

Table 3: Monthly High Flows

| | Scen. 1 | Scen. 2 | Pct. Difference |
|----------------|---------|---------|-----------------|
| Jan. High Flow | 59.9 | 62.2 | 3.88 |
| Feb. High Flow | 185 | 193 | 4.37 |
| Mar. High Flow | 228 | 270 | 18.4 |
| Apr. High Flow | 600 | 647 | 7.82 |
| May High Flow | 420 | 450 | 7.2 |
| Jun. High Flow | 524 | 535 | 2.25 |
| Jul. High Flow | 375 | 372 | -0.62 |
| Aug. High Flow | 233 | 248 | 6.47 |
| Sep. High Flow | 96.7 | 97 | 0.3 |
| Oct. High Flow | 71.1 | 81.3 | 14.3 |
| Nov. High Flow | 64.9 | 71.5 | 10.1 |
| Dec. High Flow | 74.9 | 79.5 | 6.17 |

Table 4: Period Low Flows

| | Scen. 1 | Scen. 2 | Pct. Difference |
|--------------------------|---------|---------|-----------------|
| Min. 1 Day Min | 0.01 | 0.01 | 7.68 |
| Med. 1 Day Min | 1.36 | 1.32 | -2.86 |
| Min. 3 Day Min | 0.01 | 0.01 | 7.94 |
| Med. 3 Day Min | 1.55 | 1.5 | -2.8 |
| Min. 7 Day Min | 0.01 | 0.01 | 8.6 |
| Med. 7 Day Min | 2.02 | 1.97 | -2.64 |
| Min. 30 Day Min | 0.09 | 0.09 | 3.49 |
| Med. 30 Day Min | 6.75 | 7.09 | 5.09 |
| Min. 90 Day Min | 9.12 | 9.47 | 3.85 |
| Med. 90 Day Min | 25.9 | 26.5 | 2.33 |
| 7Q10 | 0.08 | 0.09 | 7.66 |
| Year of 90-Day Min. Flow | 2000 | 2000 | 0 |
| Drought Year Mean | 72.9 | 78 | 6.96 |
| Mean Baseflow | 72.4 | 73.4 | 1.44 |

Table 5: Period High Flows

| | Scen. 1 | Scen. 2 | Pct. Difference |
|-----------------|---------|---------|-----------------|
| Max. 1 Day Max | 3320 | 3350 | 0.71 |
| Med. 1 Day Max | 1510 | 1700 | 12.4 |
| Max. 3 Day Max | 2310 | 2320 | 0.42 |
| Med. 3 Day Max | 1100 | 1220 | 11.2 |
| Max. 7 Day Max | 1240 | 1240 | 0.09 |
| Med. 7 Day Max | 690 | 769 | 11.5 |
| Max. 30 Day Max | 715 | 716 | 0.21 |
| Med. 30 Day Max | 345 | 356 | 3.08 |
| Max. 90 Day Max | 479 | 514 | 7.23 |
| Med. 90 Day Max | 245 | 248 | 1.42 |

Table 6: Non-Exceedance Flows

| | Scen. 1 | Scen. 2 | Pct. Difference |
|--------------------------|---------|---------|-----------------|
| 1% Non-Exceedance | 0.32 | 0.33 | 2.07 |
| 5% Non-Exceedance | 3.45 | 3.47 | 0.66 |
| 50% Non-Exceedance | 85.8 | 87.9 | 2.47 |
| 95% Non-Exceedance | 403 | 421 | 4.42 |
| 99% Non-Exceedance | 954 | 1070 | 12 |
| Sept. 10% Non-Exceedance | 1.28 | 1.32 | 3.14 |

Fig. 1: Hydrograph

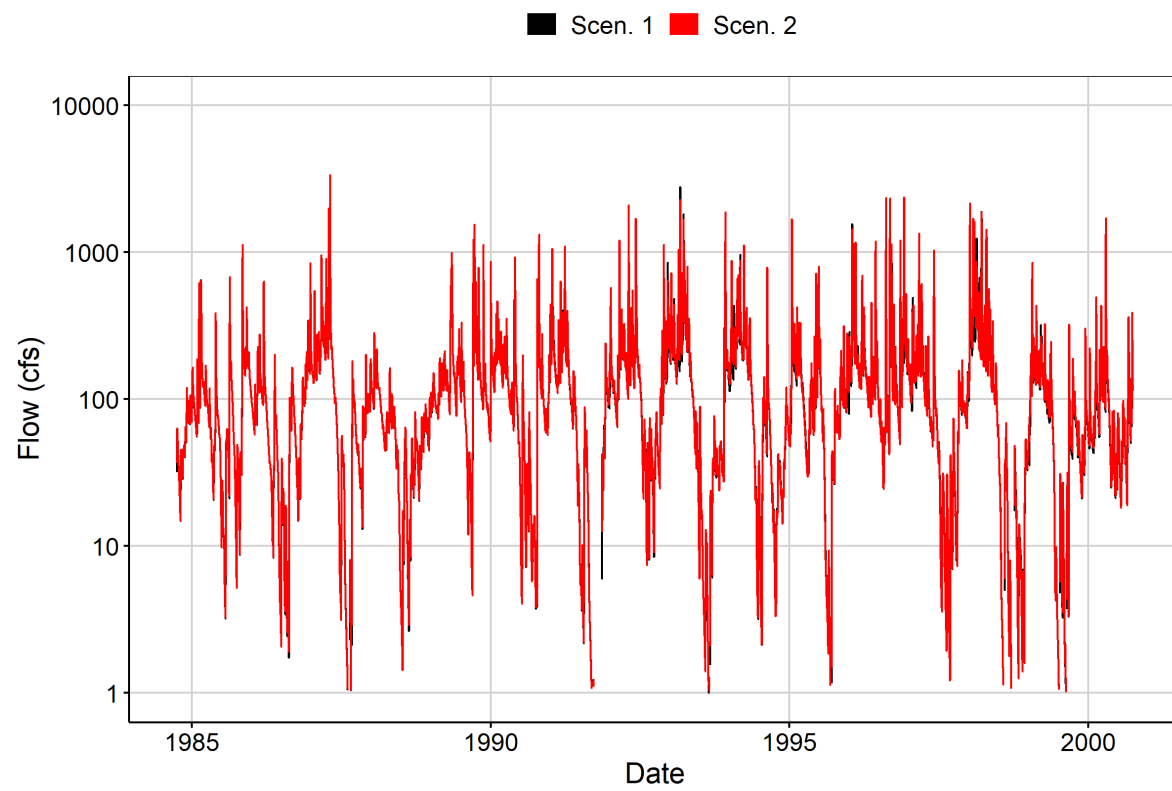


Fig. 2: Zoomed Hydrograph

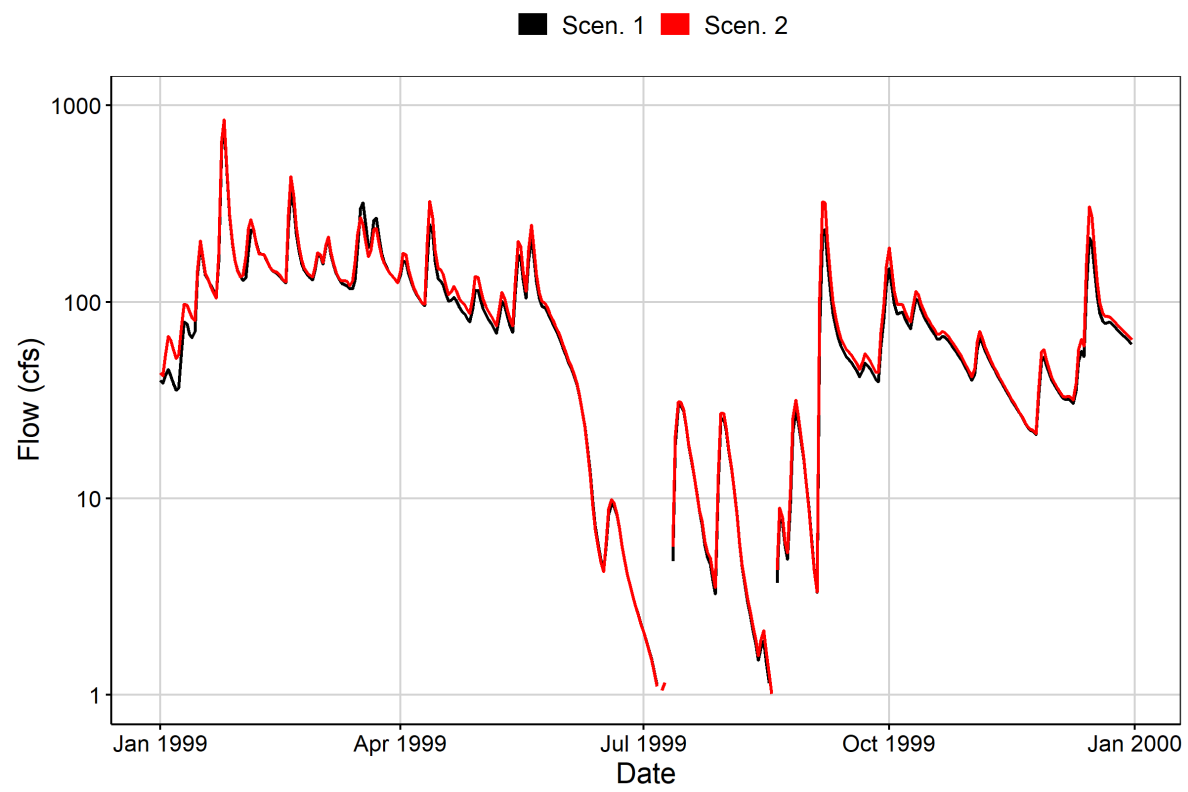


Fig. 3: Flow Exceedance

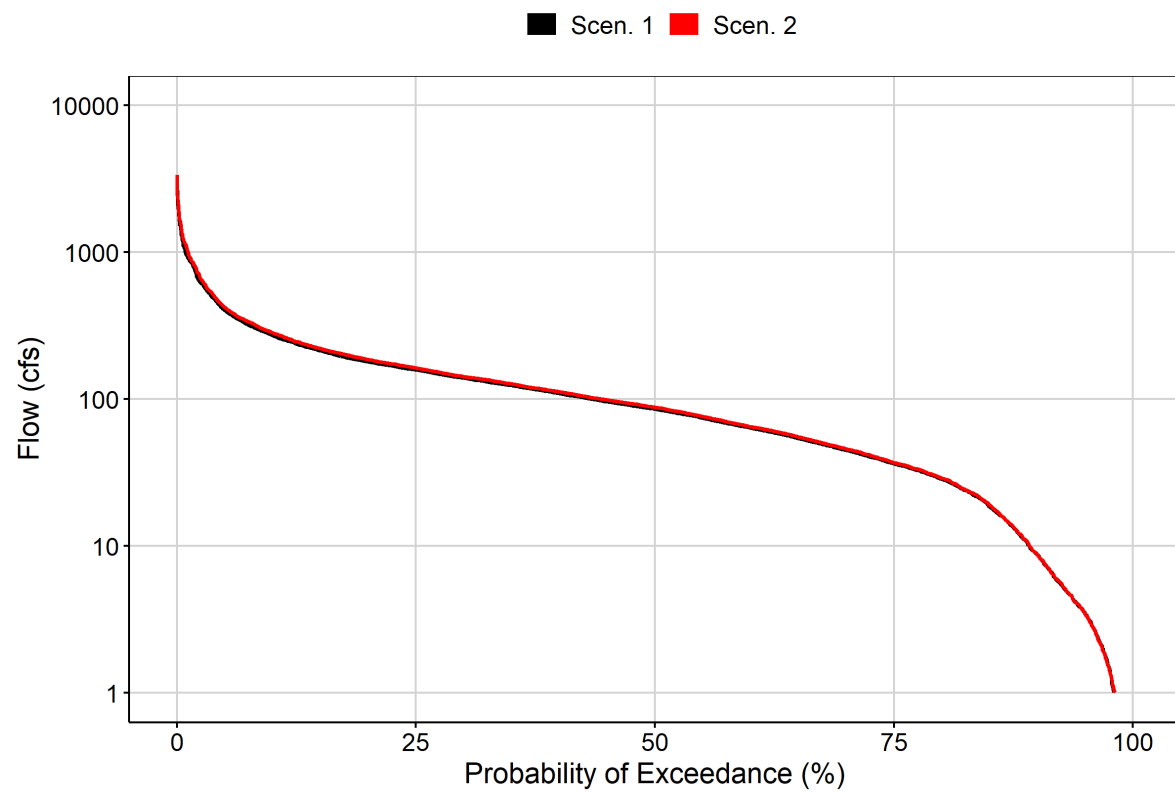


Fig. 4: Baseflow

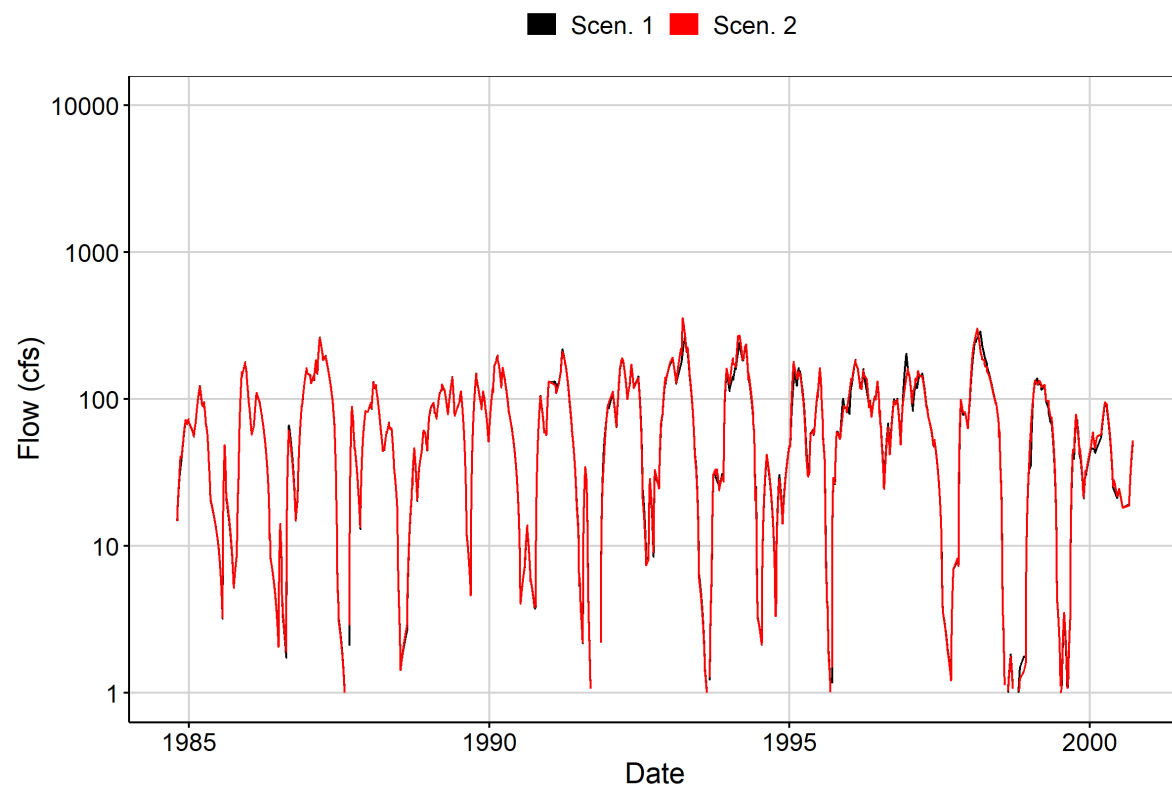


Fig. 5: Combined Baseflow

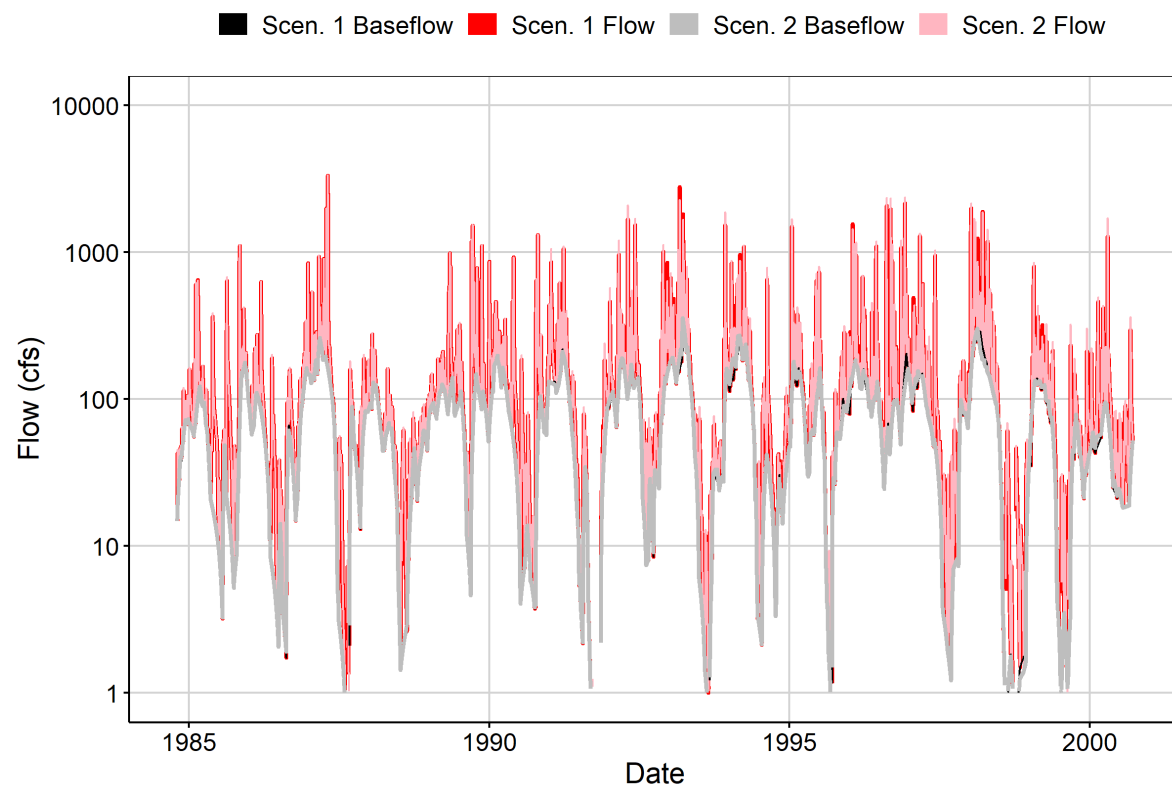


Fig. 6: Largest Difference Period

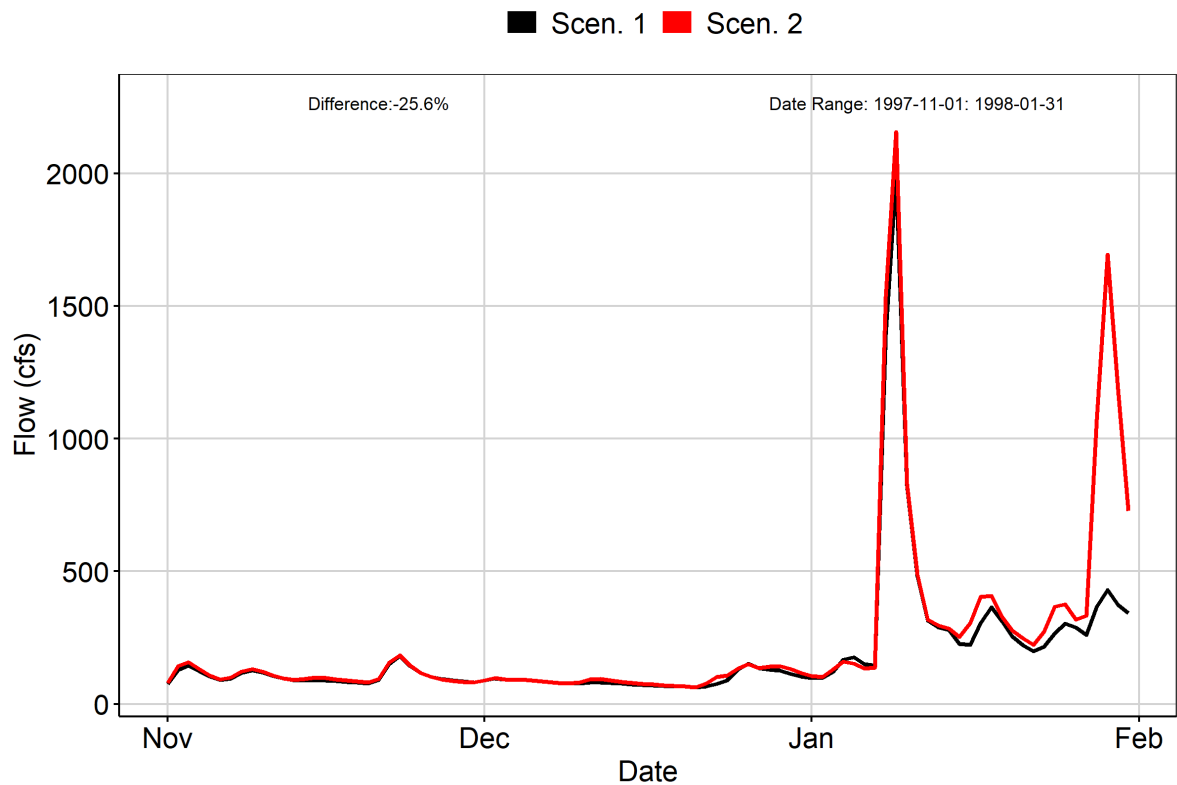


Fig. 7: Second Largest Difference Period

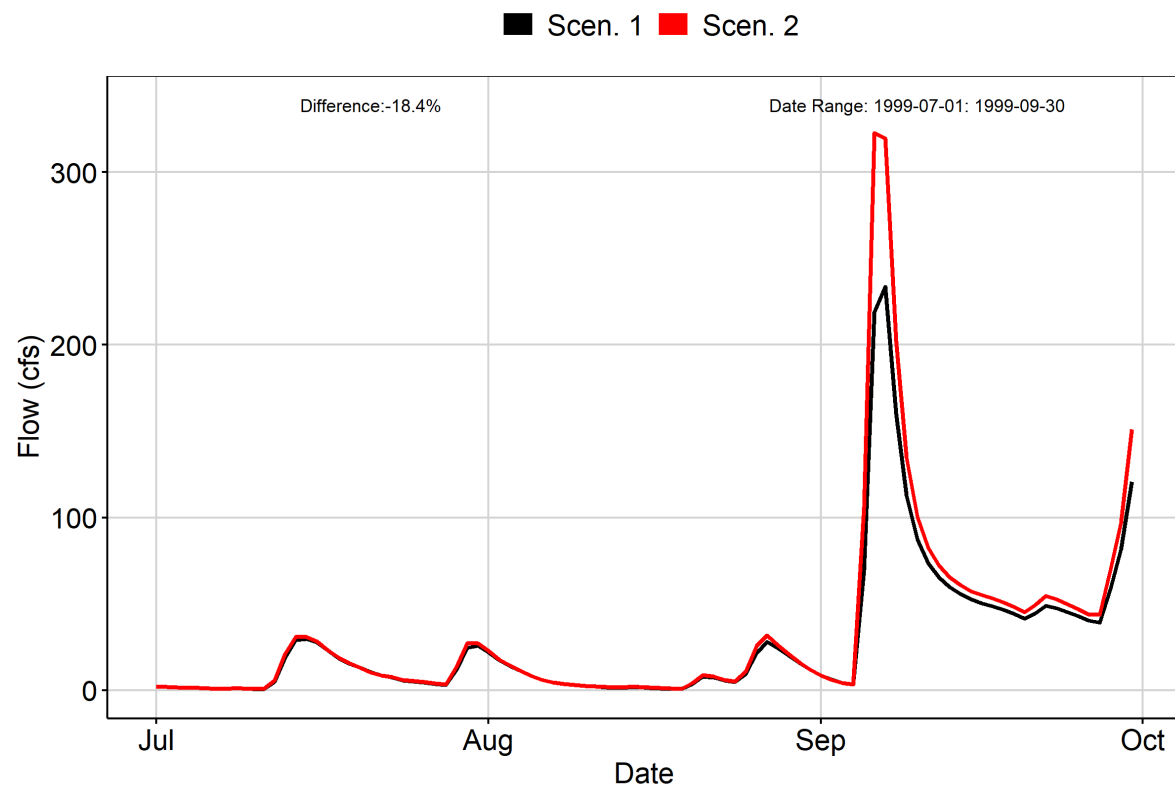


Fig. 8: Third Largest Difference Period

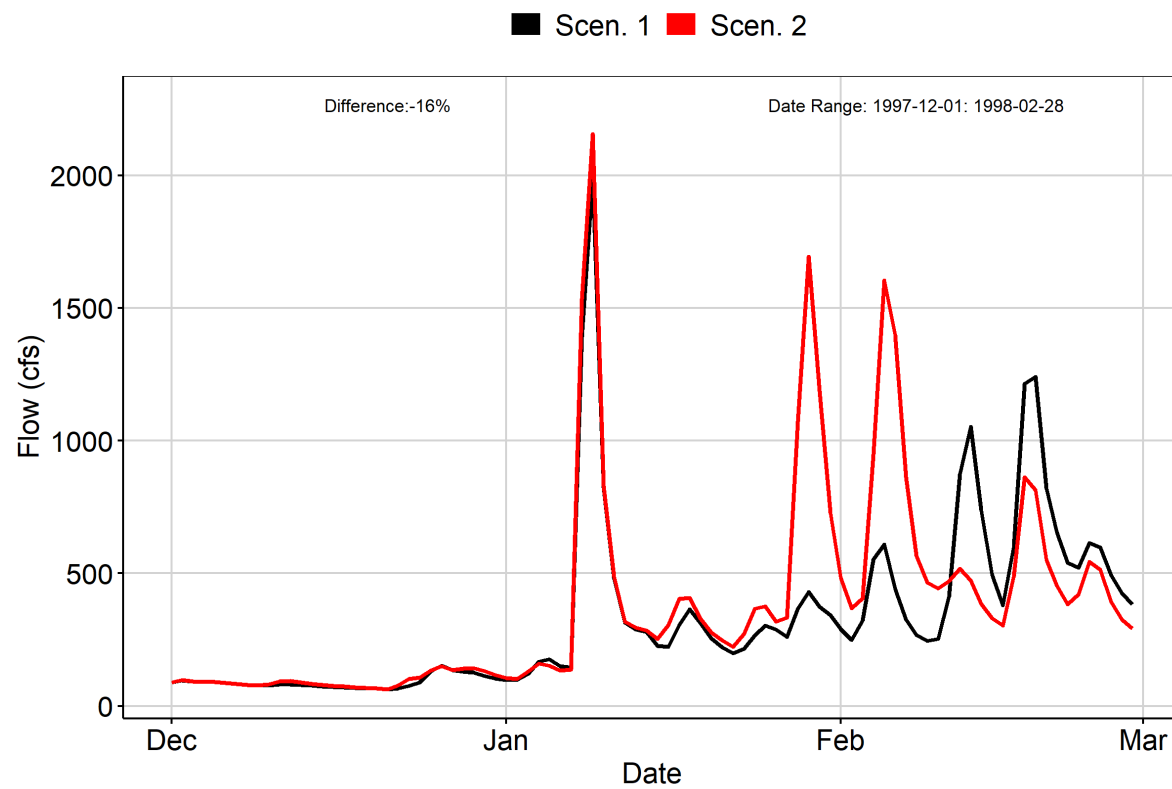


Fig. 9A: Residuals Plot

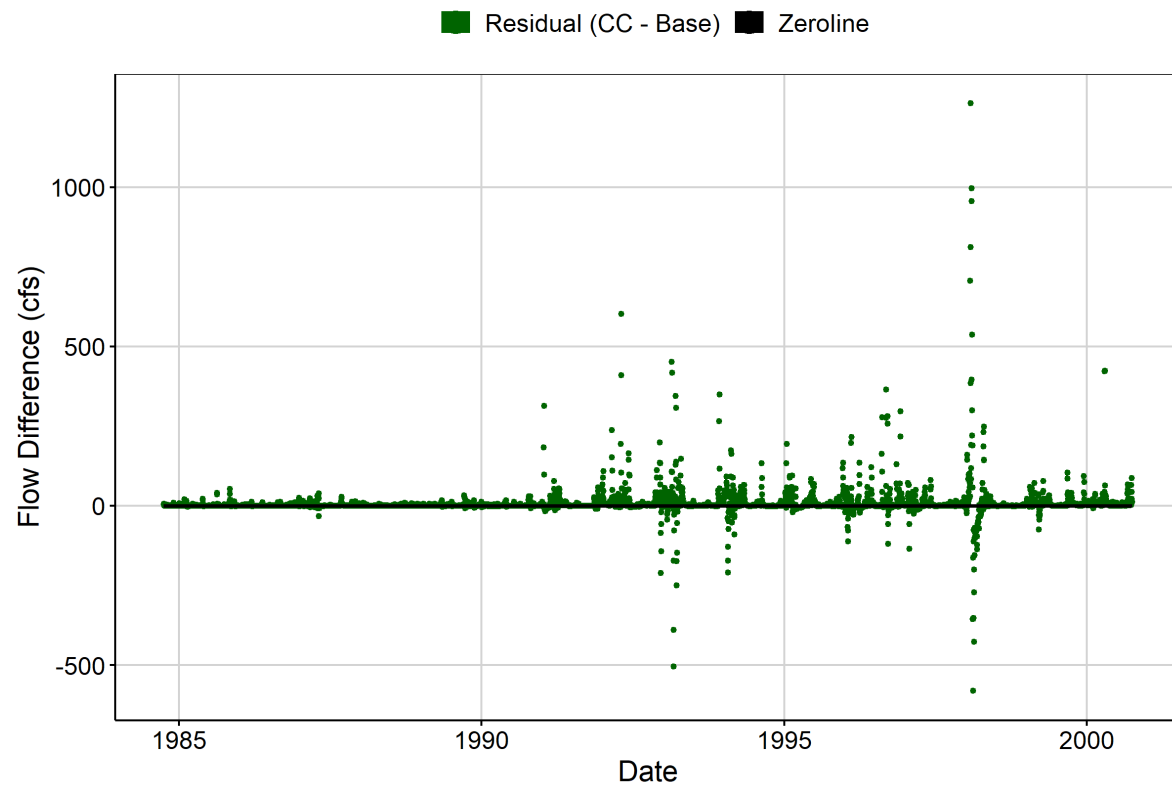


Fig. 9B: Area Weighted Residuals Plot

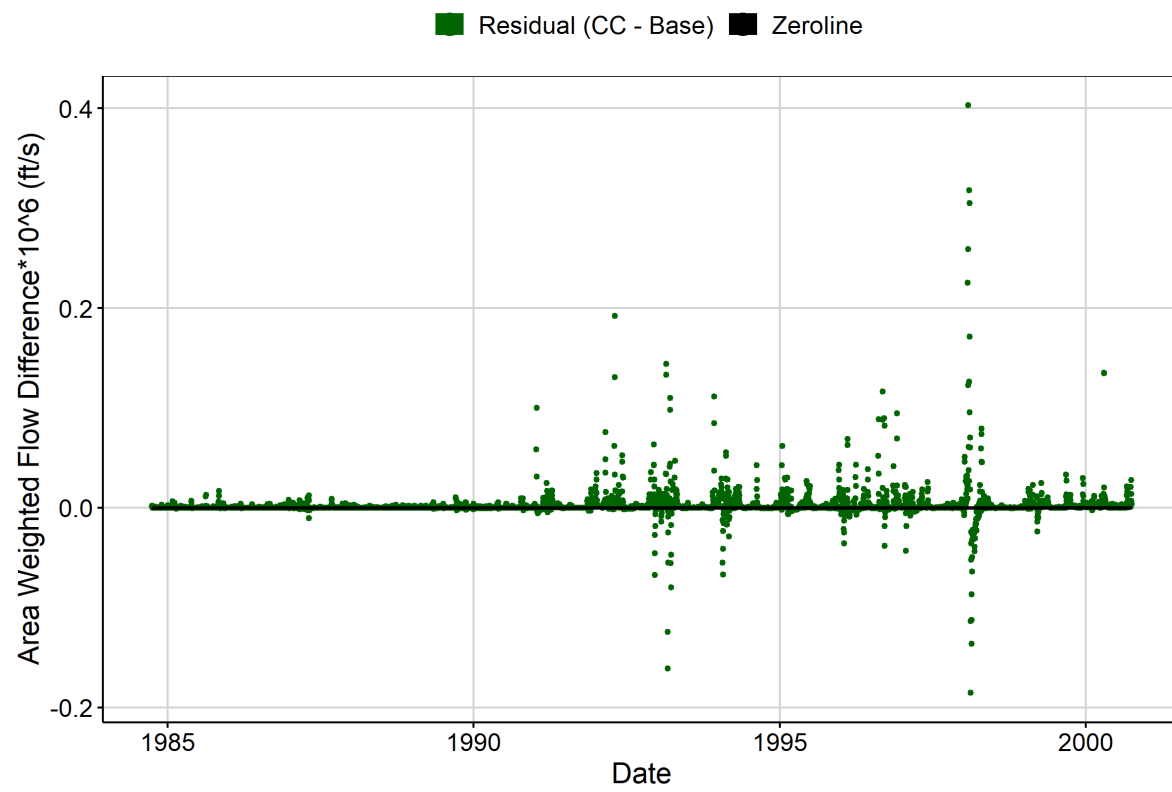
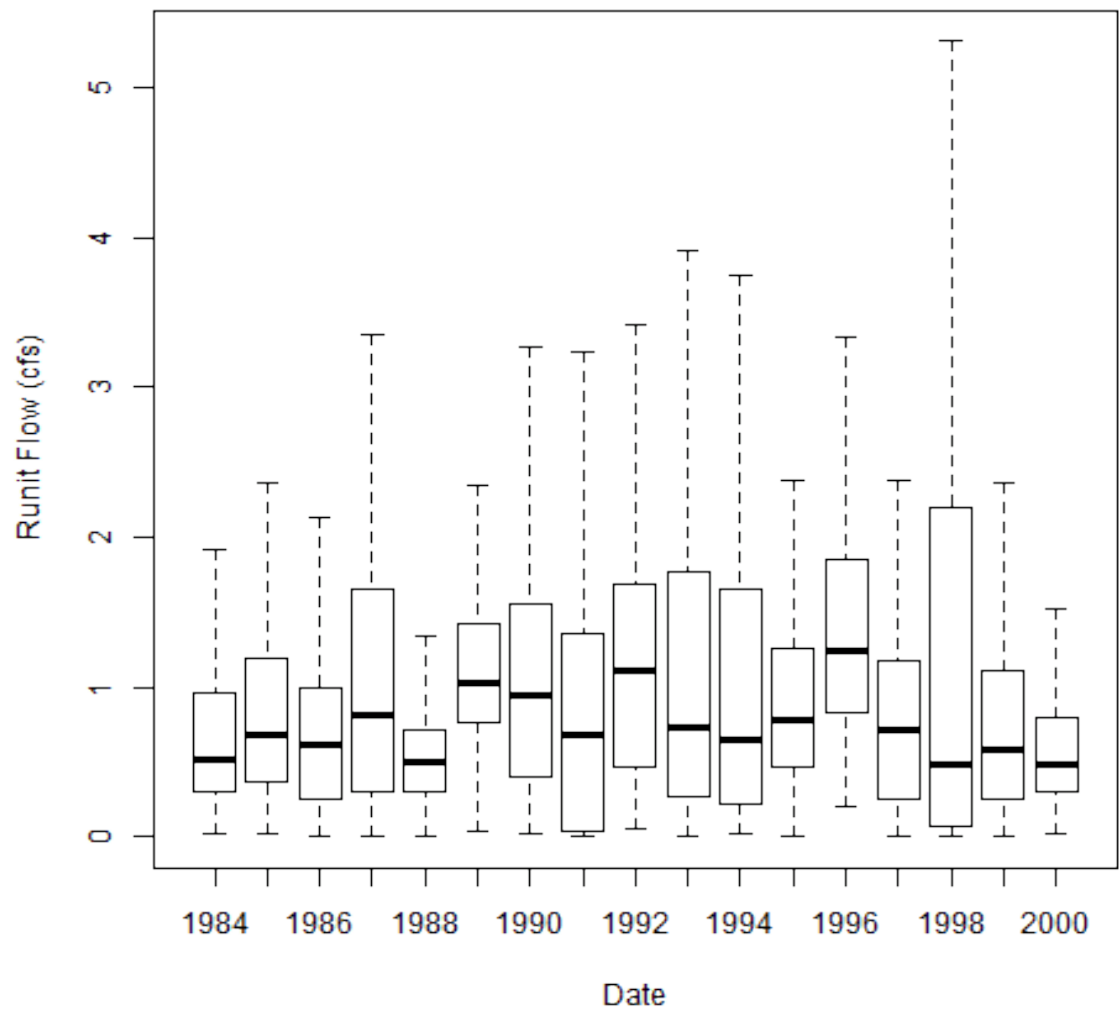


Fig. 10: VA Hydro Scen. 1 Runit Values (Outliers Excluded)



Tab: Annual IQR of Local Runoff Inflows

| | IQR of Runit Flows (cfs/sq. mi) [25th, 75th] |
|------|--|
| 1984 | 0.65 [0.302, 0.952] |
| 1985 | 0.822 [0.368, 1.19] |
| 1986 | 0.755 [0.245, 1] |
| 1987 | 1.35 [0.296, 1.65] |
| 1988 | 0.421 [0.299, 0.72] |
| 1989 | 0.664 [0.756, 1.42] |
| 1990 | 1.15 [0.4, 1.55] |
| 1991 | 1.32 [0.0385, 1.36] |

| | IQR of Runit Flows (cfs/sq. mi) [25th, 75th] | |
|------|--|----------------|
| 1992 | 1.22 | [0.463, 1.68] |
| 1993 | 1.51 | [0.26, 1.77] |
| 1994 | 1.43 | [0.221, 1.65] |
| 1995 | 0.798 | [0.462, 1.26] |
| 1996 | 1.04 | [0.824, 1.86] |
| 1997 | 0.915 | [0.255, 1.17] |
| 1998 | 2.13 | [0.0699, 2.2] |
| 1999 | 0.853 | [0.247, 1.1] |
| 2000 | 0.498 | [0.303, 0.801] |

Fig. 11: Smallest Difference Period

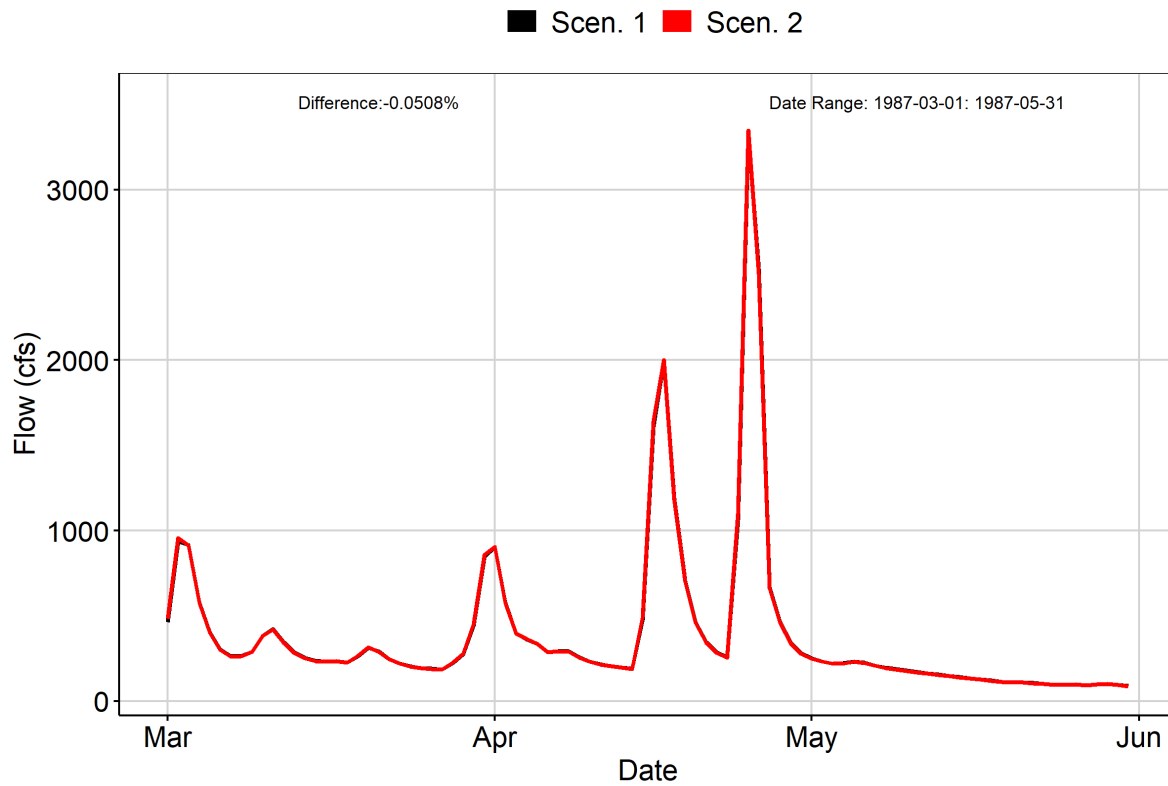


Fig. 12: Second Smallest Difference Period

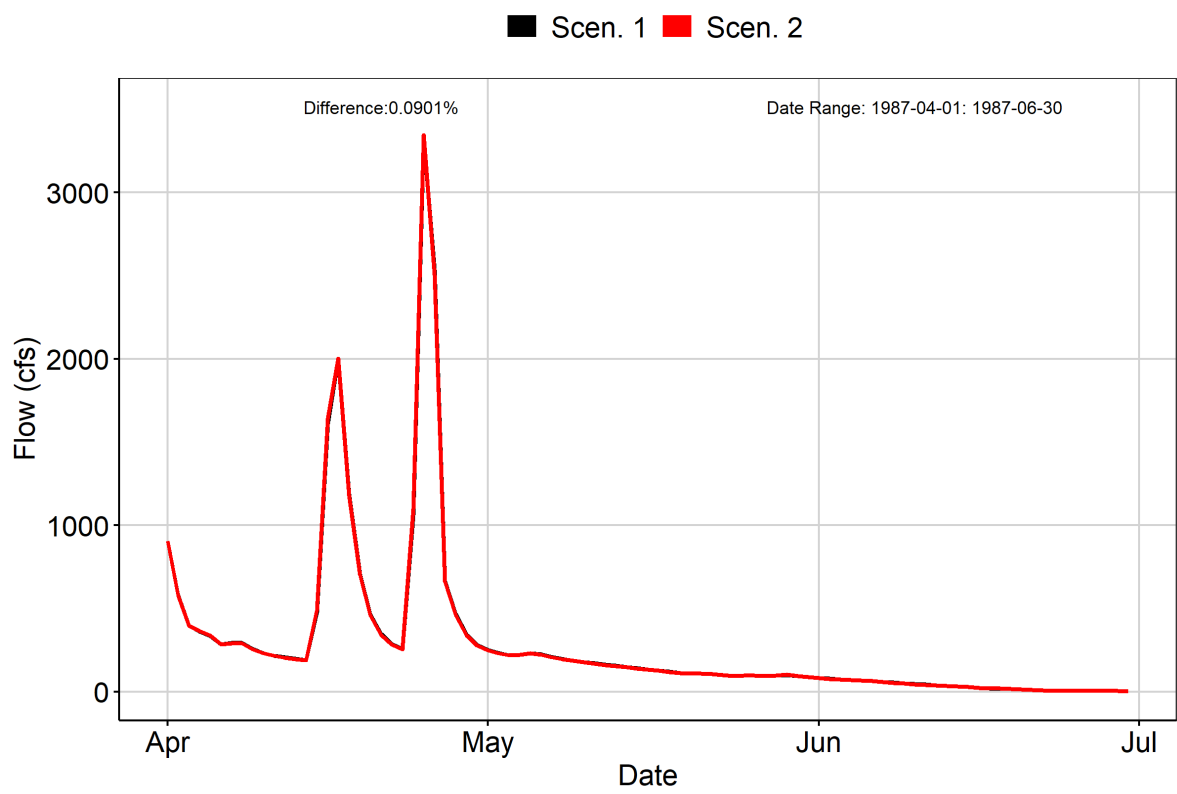
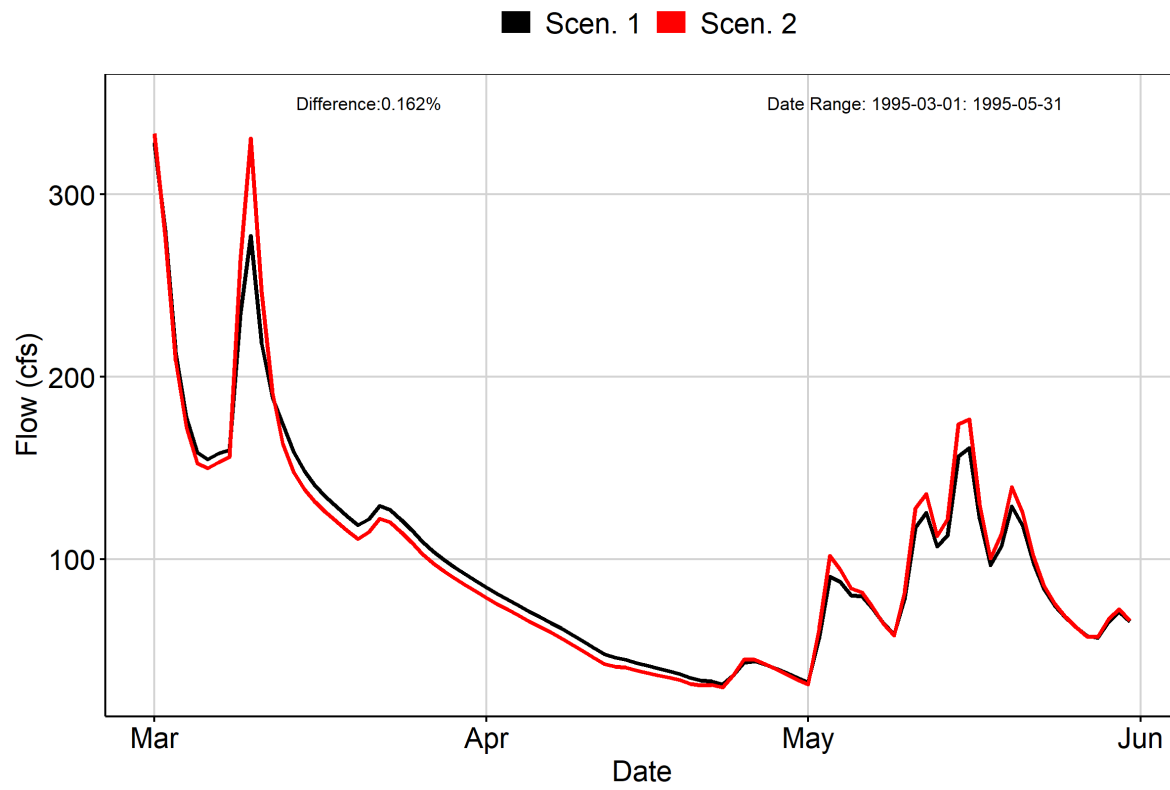


Fig. 13: Third Smallest Difference Period



Additional Tables: Land-River Segment Flow Metrics

Tab: Mean Flows by Flow Type: LR-Seg cbp6_N51045_JU1_7690_7490

| | Mean Unit Flow (cfs/sq. mi) |
|----------------------------|-----------------------------|
| SURface Outflow | 0.00134 |
| InterFloW Outflow | 0.000396 |
| Active GroundWater Outflow | 0.000813 |

Tab: Ratio of Zero-Flow Days by Flow Type: LR-Seg cbp6_N51045_JU1_7690_7490

| | Ratio of Days with Zero Flow to Total Days |
|----------------------------|--|
| SURface Outflow | 0.637 |
| InterFloW Outflow | 0.465 |
| Active GroundWater Outflow | 0.342 |

Tab: IQR for SURface Outflow: LR-Seg cbp6_N51045_JU1_7690_7490

| | IQR of Unit Flows (cfs/sq. mi) [25th, 75th] |
|------|---|
| 1984 | 4.31e-06 [0, 4.31e-06] |
| 1985 | 2.33e-06 [0, 2.33e-06] |
| 1986 | 5.19e-06 [0, 5.19e-06] |
| 1987 | 1.42e-05 [0, 1.42e-05] |
| 1988 | 1.76e-06 [0, 1.76e-06] |
| 1989 | 2.08e-05 [0, 2.08e-05] |
| 1990 | 7.11e-06 [0, 7.11e-06] |
| 1991 | 1.98e-07 [0, 1.98e-07] |
| 1992 | 1.13e-05 [0, 1.13e-05] |
| 1993 | 5.97e-06 [0, 5.97e-06] |
| 1994 | 9.56e-06 [0, 9.56e-06] |
| 1995 | 8.35e-06 [0, 8.35e-06] |
| 1996 | 3.7e-05 [0, 3.7e-05] |
| 1997 | 5.75e-06 [0, 5.75e-06] |
| 1998 | 6.15e-06 [0, 6.15e-06] |
| 1999 | 1.88e-06 [0, 1.88e-06] |
| 2000 | 2.88e-07 [0, 2.88e-07] |

Tab: IQR for InterFlow Outflow: LR-Seg cbp6_N51045_JU1_7690_7490

| | IQR of Unit Flows (cfs/sq. mi) [25th, 75th] | |
|------|---|---------------|
| 1984 | 3.78e-05 | [0, 3.78e-05] |
| 1985 | 3.73e-05 | [0, 3.73e-05] |
| 1986 | 3.95e-05 | [0, 3.95e-05] |
| 1987 | 9.69e-05 | [0, 9.69e-05] |
| 1988 | 3.29e-05 | [0, 3.29e-05] |
| 1989 | 0.000183 | [0, 0.000183] |
| 1990 | 0.000149 | [0, 0.000149] |
| 1991 | 4.93e-05 | [0, 4.93e-05] |
| 1992 | 0.000171 | [0, 0.000171] |
| 1993 | 0.000126 | [0, 0.000126] |
| 1994 | 0.000105 | [0, 0.000105] |
| 1995 | 0.00013 | [0, 0.00013] |
| 1996 | 0.000348 | [0, 0.000348] |
| 1997 | 0.000107 | [0, 0.000107] |
| 1998 | 0.000122 | [0, 0.000122] |
| 1999 | 9.15e-05 | [0, 9.15e-05] |
| 2000 | 6.91e-05 | [0, 6.91e-05] |

Tab: IQR for Active GroundWater Outflow: LR-Seg cbp6_N51045_JU1_7690_7490

| | IQR of Unit Flows (cfs/sq. mi) [25th, 75th] | |
|------|---|---------------|
| 1984 | 0.0012 | [0, 0.0012] |
| 1985 | 0.00141 | [0, 0.00141] |
| 1986 | 0.0012 | [0, 0.0012] |
| 1987 | 0.00148 | [0, 0.00148] |
| 1988 | 0.000993 | [0, 0.000993] |
| 1989 | 0.00164 | [0, 0.00164] |
| 1990 | 0.00152 | [0, 0.00152] |
| 1991 | 0.0014 | [0, 0.0014] |
| 1992 | 0.00175 | [0, 0.00175] |
| 1993 | 0.00161 | [0, 0.00161] |
| 1994 | 0.00146 | [0, 0.00146] |
| 1995 | 0.00135 | [0, 0.00135] |
| 1996 | 0.0017 | [0, 0.0017] |
| 1997 | 0.00124 | [0, 0.00124] |
| 1998 | 0.00142 | [0, 0.00142] |
| 1999 | 0.00116 | [0, 0.00116] |
| 2000 | 0.000958 | [0, 0.000958] |

Tab: Mean Flows by Land Use: LR-Seg cbp6_N51045_JU1_7690_7490

| | Mean Unit Flow (cfs/sq. mi) |
|-----|-----------------------------|
| aop | 0.000668 |
| cch | 0.000787 |
| cci | 0.00114 |
| ccn | 0.000827 |
| cfr | 0.000639 |
| cir | 0.00114 |
| cmo | 0.000654 |
| cnr | 0.00114 |
| ctg | 0.000787 |
| dbl | 0.000692 |
| fnp | 0.00114 |
| for | 0.00064 |
| fsp | 0.00114 |
| gom | 0.000692 |
| gwm | 0.000692 |
| hfr | 0.000694 |
| lhy | 0.000668 |
| mch | 0.000787 |
| mci | 0.00114 |
| mcn | 0.000827 |
| mir | 0.00114 |
| mnr | 0.00114 |
| mtg | 0.000787 |
| nch | 0.000787 |
| nci | 0.00114 |
| nir | 0.00114 |
| nnr | 0.00114 |
| ntg | 0.000787 |
| oac | 0.000692 |
| ohy | 0.000668 |
| osp | 0.000654 |
| pas | 0.000668 |
| sch | 0.000692 |
| scl | 0.000692 |
| sgg | 0.000692 |
| sho | 0.00114 |
| som | 0.000692 |
| soy | 0.000692 |
| stb | 0.00114 |
| stf | 0.00114 |
| swm | 0.000692 |
| wfp | 0.00064 |
| wto | 0.00064 |

Tab: Ratio of Zero-Flow Days by Land Use: LR-Seg cbp6__N51045_JU1__7690__7490

| | Ratio of Days with Zero Flow to Total Days |
|-----|--|
| aop | 0.281 |
| cch | 0.277 |
| cci | 0.891 |
| ccn | 0.255 |
| cfr | 0.32 |
| cir | 0.891 |
| cmo | 0.295 |
| cnr | 0.891 |
| ctg | 0.277 |
| dbl | 0.276 |
| fnp | 0.891 |
| for | 0.33 |
| fsp | 0.891 |
| gom | 0.276 |
| gwm | 0.276 |
| hfr | 0.279 |
| lhy | 0.28 |
| mch | 0.277 |
| mci | 0.891 |
| mcn | 0.255 |
| mir | 0.891 |
| mnr | 0.891 |
| mtg | 0.277 |
| nch | 0.277 |
| nci | 0.891 |
| nir | 0.891 |
| nnr | 0.891 |
| ntg | 0.277 |
| oac | 0.276 |
| ohy | 0.28 |
| osp | 0.295 |
| pas | 0.28 |
| sch | 0.276 |
| scl | 0.276 |
| sgg | 0.276 |
| sho | 0.891 |
| som | 0.276 |
| soy | 0.276 |
| stb | 0.891 |
| stf | 0.891 |
| swm | 0.276 |
| wfp | 0.33 |
| wto | 0.33 |

Tab: Mean Flows by Flow Type: LR-Seg cbp6_N51121_JU1_7690_7490

| | Mean Unit Flow (cfs/sq. mi) |
|----------------------------|-----------------------------|
| SURface Outflow | 0.0013 |
| InterFloW Outflow | 0.00035 |
| Active GroundWater Outflow | 0.000463 |

Tab: Ratio of Zero-Flow Days by Flow Type: LR-Seg cbp6_N51121_JU1_7690_7490

| | Ratio of Days with Zero Flow to Total Days |
|----------------------------|--|
| SURface Outflow | 0.673 |
| InterFloW Outflow | 0.519 |
| Active GroundWater Outflow | 0.36 |

Tab: IQR for SURface Outflow: LR-Seg cbp6_N51121_JU1_7690_7490

| | IQR of Unit Flows (cfs/sq. mi) [25th, 75th] |
|------|---|
| 1984 | 2.77e-06 [0, 2.77e-06] |
| 1985 | 1.76e-06 [0, 1.76e-06] |
| 1986 | 5.83e-06 [0, 5.83e-06] |
| 1987 | 1.03e-05 [0, 1.03e-05] |
| 1988 | 8.85e-07 [0, 8.85e-07] |
| 1989 | 1.96e-05 [0, 1.96e-05] |
| 1990 | 4.78e-06 [0, 4.78e-06] |
| 1991 | 7.74e-09 [0, 7.74e-09] |
| 1992 | 1.22e-05 [0, 1.22e-05] |
| 1993 | 7.66e-06 [0, 7.66e-06] |
| 1994 | 6.62e-06 [0, 6.62e-06] |
| 1995 | 5.79e-06 [0, 5.79e-06] |
| 1996 | 3.7e-05 [0, 3.7e-05] |
| 1997 | 4.91e-06 [0, 4.91e-06] |
| 1998 | 7.22e-06 [0, 7.22e-06] |
| 1999 | 1.28e-07 [0, 1.28e-07] |
| 2000 | 1.83e-07 [0, 1.83e-07] |

Tab: IQR for InterFloW Outflow: LR-Seg cbp6_N51121_JU1_7690_7490

| | IQR of Unit Flows (cfs/sq. mi) [25th, 75th] | |
|------|---|---------------|
| 1984 | 1.94e-05 | [0, 1.94e-05] |
| 1985 | 2.59e-05 | [0, 2.59e-05] |
| 1986 | 3.87e-05 | [0, 3.87e-05] |
| 1987 | 8.93e-05 | [0, 8.93e-05] |
| 1988 | 2.18e-05 | [0, 2.18e-05] |
| 1989 | 0.00016 | [0, 0.00016] |
| 1990 | 0.000143 | [0, 0.000143] |
| 1991 | 2.81e-05 | [0, 2.81e-05] |
| 1992 | 0.000115 | [0, 0.000115] |
| 1993 | 8.22e-05 | [0, 8.22e-05] |
| 1994 | 7.39e-05 | [0, 7.39e-05] |
| 1995 | 5.49e-05 | [0, 5.49e-05] |
| 1996 | 0.000256 | [0, 0.000256] |
| 1997 | 6.73e-05 | [0, 6.73e-05] |
| 1998 | 0.000102 | [0, 0.000102] |
| 1999 | 3.96e-05 | [0, 3.96e-05] |
| 2000 | 2.35e-05 | [0, 2.35e-05] |

Tab: IQR for Active GroundWater Outflow: LR-Seg cbp6_N51121_JU1_7690_7490

| | IQR of Unit Flows (cfs/sq. mi) [25th, 75th] | |
|------|---|---------------|
| 1984 | 0.000606 | [0, 0.000606] |
| 1985 | 0.000759 | [0, 0.000759] |
| 1986 | 0.000764 | [0, 0.000764] |
| 1987 | 0.000983 | [0, 0.000983] |
| 1988 | 0.000563 | [0, 0.000563] |
| 1989 | 0.00108 | [0, 0.00108] |
| 1990 | 0.000965 | [0, 0.000965] |
| 1991 | 0.000852 | [0, 0.000852] |
| 1992 | 0.000987 | [0, 0.000987] |
| 1993 | 0.00103 | [0, 0.00103] |
| 1994 | 0.000803 | [0, 0.000803] |
| 1995 | 0.000687 | [0, 0.000687] |
| 1996 | 0.00109 | [0, 0.00109] |
| 1997 | 0.000698 | [0, 0.000698] |
| 1998 | 0.000956 | [0, 0.000956] |
| 1999 | 0.000489 | [0, 0.000489] |
| 2000 | 0.000399 | [0, 0.000399] |

Tab: Mean Flows by Land Use: LR-Seg cbp6_N51121_JU1_7690_7490

| | Mean Unit Flow (cfs/sq. mi) |
|-----|-----------------------------|
| aop | 0.000488 |
| cch | 0.000642 |
| cci | 0.00104 |
| ccn | 0.000688 |
| cfr | 0.000448 |
| cir | 0.00104 |
| cmo | 0.000467 |
| cnr | 0.00104 |
| ctg | 0.000642 |
| dbl | 0.000519 |
| fnp | 0.00104 |
| for | 0.000448 |
| fsp | 0.00104 |
| gom | 0.000519 |
| gwm | 0.000519 |
| hfr | 0.00052 |
| lhy | 0.000488 |
| mch | 0.000642 |
| mci | 0.00104 |
| mcn | 0.000688 |
| mir | 0.00104 |
| mnr | 0.00104 |
| mtg | 0.000642 |
| nch | 0.000642 |
| nci | 0.00104 |
| nir | 0.00104 |
| nnr | 0.00104 |
| ntg | 0.000642 |
| oac | 0.000519 |
| ohy | 0.000488 |
| osp | 0.000467 |
| pas | 0.000488 |
| sch | 0.000519 |
| scl | 0.000519 |
| sgg | 0.000519 |
| sho | 0.00104 |
| som | 0.000519 |
| soy | 0.000519 |
| stb | 0.00104 |
| stf | 0.00104 |
| swm | 0.000519 |
| wfp | 0.000448 |
| wto | 0.000448 |

Tab: Ratio of Zero-Flow Days by Land Use: LR-Seg cbp6_N51121_JU1_7690_7490

| | Ratio of Days with Zero Flow to Total Days |
|-----|--|
| aop | 0.328 |
| cch | 0.333 |
| cci | 0.895 |
| ccn | 0.302 |
| cfr | 0.393 |
| cir | 0.895 |
| cmo | 0.349 |
| cnr | 0.895 |
| ctg | 0.333 |
| dbl | 0.318 |
| fnp | 0.894 |
| for | 0.401 |
| fsp | 0.894 |
| gom | 0.318 |
| gwm | 0.318 |
| hfr | 0.327 |
| lhy | 0.329 |
| mch | 0.333 |
| mci | 0.895 |
| mcn | 0.302 |
| mir | 0.895 |
| mnr | 0.895 |
| mtg | 0.333 |
| nch | 0.333 |
| nci | 0.895 |
| nir | 0.895 |
| nnr | 0.895 |
| ntg | 0.333 |
| oac | 0.318 |
| ohy | 0.329 |
| osp | 0.351 |
| pas | 0.329 |
| sch | 0.318 |
| scl | 0.318 |
| sgg | 0.318 |
| sho | 0.895 |
| som | 0.318 |
| soy | 0.318 |
| stb | 0.895 |
| stf | 0.895 |
| swm | 0.318 |
| wfp | 0.401 |
| wto | 0.401 |

Tab: Mean Flows by Flow Type: LR-Seg cbp6_N51161_JU1_7690_7490

| | Mean Unit Flow (cfs/sq. mi) |
|----------------------------|-----------------------------|
| SURface Outflow | 0.00146 |
| InterFloW Outflow | 0.000295 |
| Active GroundWater Outflow | 0.000571 |

Tab: Ratio of Zero-Flow Days by Flow Type: LR-Seg cbp6_N51161_JU1_7690_7490

| | Ratio of Days with Zero Flow to Total Days |
|----------------------------|--|
| SURface Outflow | 0.681 |
| InterFloW Outflow | 0.442 |
| Active GroundWater Outflow | 0.326 |

Tab: IQR for SURface Outflow: LR-Seg cbp6_N51161_JU1_7690_7490

| | IQR of Unit Flows (cfs/sq. mi) [25th, 75th] |
|------|---|
| 1984 | 5.93e-07 [0, 5.93e-07] |
| 1985 | 1.12e-06 [0, 1.12e-06] |
| 1986 | 1.69e-06 [0, 1.69e-06] |
| 1987 | 9.16e-06 [0, 9.16e-06] |
| 1988 | 5.44e-07 [0, 5.44e-07] |
| 1989 | 1.93e-05 [0, 1.93e-05] |
| 1990 | 8.61e-06 [0, 8.61e-06] |
| 1991 | 2.04e-09 [0, 2.04e-09] |
| 1992 | 5.94e-06 [0, 5.94e-06] |
| 1993 | 9.54e-06 [0, 9.54e-06] |
| 1994 | 5.07e-06 [0, 5.07e-06] |
| 1995 | 3.64e-06 [0, 3.64e-06] |
| 1996 | 3.01e-05 [0, 3.01e-05] |
| 1997 | 3.92e-06 [0, 3.92e-06] |
| 1998 | 1.99e-06 [0, 1.99e-06] |
| 1999 | 5.36e-07 [0, 5.36e-07] |
| 2000 | 2.85e-10 [0, 2.85e-10] |

Tab: IQR for InterFloW Outflow: LR-Seg cbp6_N51161_JU1_7690_7490

| | IQR of Unit Flows (cfs/sq. mi) [25th, 75th] | |
|------|---|---------------|
| 1984 | 1.82e-05 | [0, 1.82e-05] |
| 1985 | 3.44e-05 | [0, 3.44e-05] |
| 1986 | 3.64e-05 | [0, 3.64e-05] |
| 1987 | 0.000102 | [0, 0.000102] |
| 1988 | 3.84e-05 | [0, 3.84e-05] |
| 1989 | 0.000201 | [0, 0.000201] |
| 1990 | 0.000212 | [0, 0.000212] |
| 1991 | 6.31e-05 | [0, 6.31e-05] |
| 1992 | 0.00021 | [0, 0.00021] |
| 1993 | 0.000182 | [0, 0.000182] |
| 1994 | 7.97e-05 | [0, 7.97e-05] |
| 1995 | 0.00012 | [0, 0.00012] |
| 1996 | 0.000323 | [0, 0.000323] |
| 1997 | 0.000114 | [0, 0.000114] |
| 1998 | 8.86e-05 | [0, 8.86e-05] |
| 1999 | 7.85e-05 | [0, 7.85e-05] |
| 2000 | 5.23e-05 | [0, 5.23e-05] |

Tab: IQR for Active GroundWater Outflow: LR-Seg cbp6_N51161_JU1_7690_7490

| | IQR of Unit Flows (cfs/sq. mi) [25th, 75th] | |
|------|---|---------------|
| 1984 | 0.000535 | [0, 0.000535] |
| 1985 | 0.000876 | [0, 0.000876] |
| 1986 | 0.000777 | [0, 0.000777] |
| 1987 | 0.00117 | [0, 0.00117] |
| 1988 | 0.000673 | [0, 0.000673] |
| 1989 | 0.00115 | [0, 0.00115] |
| 1990 | 0.00116 | [0, 0.00116] |
| 1991 | 0.000878 | [0, 0.000878] |
| 1992 | 0.00117 | [0, 0.00117] |
| 1993 | 0.00119 | [0, 0.00119] |
| 1994 | 0.000962 | [0, 0.000962] |
| 1995 | 0.000946 | [0, 0.000946] |
| 1996 | 0.0013 | [0, 0.0013] |
| 1997 | 0.000778 | [0, 0.000778] |
| 1998 | 0.000723 | [0, 0.000723] |
| 1999 | 0.000704 | [0, 0.000704] |
| 2000 | 0.000577 | [0, 0.000577] |

Tab: Mean Flows by Land Use: LR-Seg cbp6_N51161_JU1_7690_7490

| | Mean Unit Flow (cfs/sq. mi) |
|-----|-----------------------------|
| aop | 0.000538 |
| cch | 0.000705 |
| cci | 0.00116 |
| ccn | 0.000722 |
| cfr | 0.0005 |
| cir | 0.00116 |
| cmo | 0.000509 |
| cnr | 0.00116 |
| ctg | 0.000705 |
| dbl | 0.000564 |
| fnp | 0.00116 |
| for | 0.0005 |
| fsp | 0.00116 |
| gom | 0.000564 |
| gwm | 0.000564 |
| hfr | 0.000594 |
| lhy | 0.000538 |
| mch | 0.000705 |
| mci | 0.00116 |
| mcn | 0.000722 |
| mir | 0.00116 |
| mnr | 0.00116 |
| mtg | 0.000705 |
| nch | 0.000705 |
| nci | 0.00116 |
| nir | 0.00116 |
| nnr | 0.00116 |
| ntg | 0.000705 |
| oac | 0.000564 |
| ohy | 0.000538 |
| osp | 0.000509 |
| pas | 0.000538 |
| sch | 0.000564 |
| scl | 0.000564 |
| sgg | 0.000564 |
| sho | 0.00116 |
| som | 0.000564 |
| soy | 0.000564 |
| stb | 0.00116 |
| stf | 0.00116 |
| swm | 0.000564 |
| wfp | 0.0005 |
| wto | 0.0005 |

Tab: Ratio of Zero-Flow Days by Land Use: LR-Seg cbp6__N51161_JU1_7690_7490

| | Ratio of Days with Zero Flow to Total Days |
|-----|--|
| aop | 0.278 |
| cch | 0.28 |
| cci | 0.897 |
| ccn | 0.267 |
| cfr | 0.306 |
| cir | 0.897 |
| cmo | 0.294 |
| cnr | 0.897 |
| ctg | 0.28 |
| dbl | 0.277 |
| fnp | 0.9 |
| for | 0.311 |
| fsp | 0.9 |
| gom | 0.277 |
| gwm | 0.277 |
| hfr | 0.272 |
| lhy | 0.281 |
| mch | 0.28 |
| mci | 0.897 |
| mcn | 0.267 |
| mir | 0.897 |
| mnr | 0.897 |
| mtg | 0.28 |
| nch | 0.28 |
| nci | 0.897 |
| nir | 0.897 |
| nnr | 0.897 |
| ntg | 0.28 |
| oac | 0.277 |
| ohy | 0.281 |
| osp | 0.295 |
| pas | 0.281 |
| sch | 0.277 |
| scl | 0.277 |
| sgg | 0.277 |
| sho | 0.897 |
| som | 0.277 |
| soy | 0.277 |
| stb | 0.897 |
| stf | 0.897 |
| swm | 0.277 |
| wfp | 0.311 |
| wto | 0.311 |

Additional Figures: Land-River Segment Flow Boxplots

Fig: Annual SURO Flows for LR-seg cbp6_N51045_JU1_7690_7490

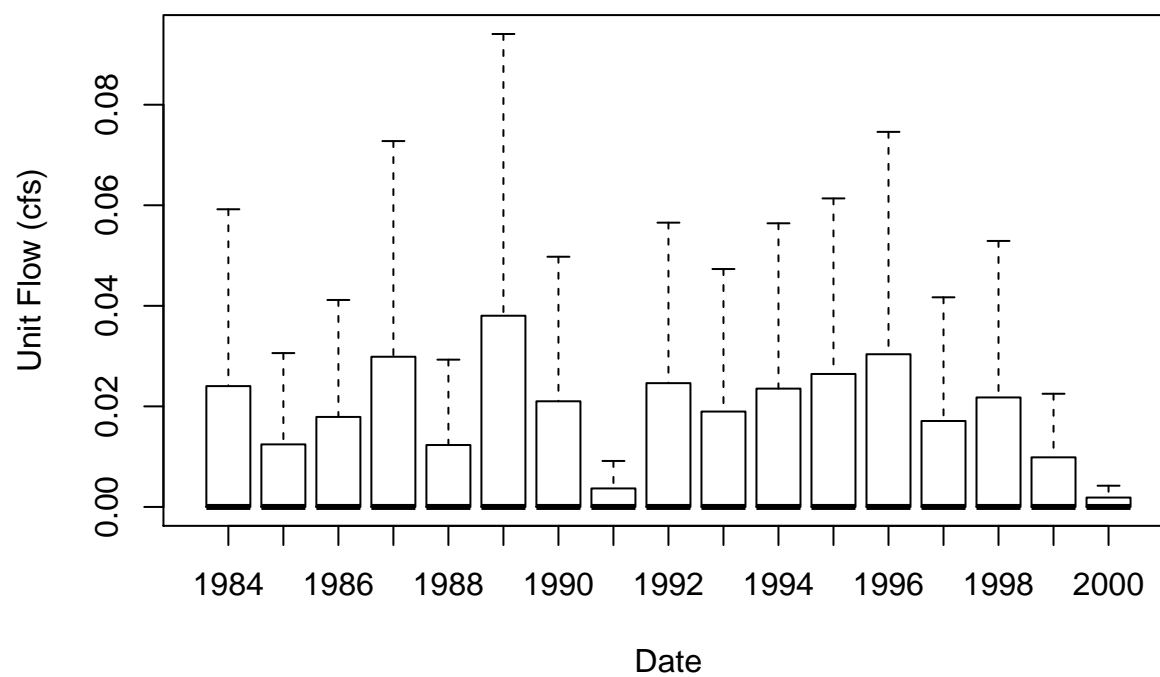


Fig: Annual IFWO Flows for LR-seg cbp6_N51045_JU1_7690_7490

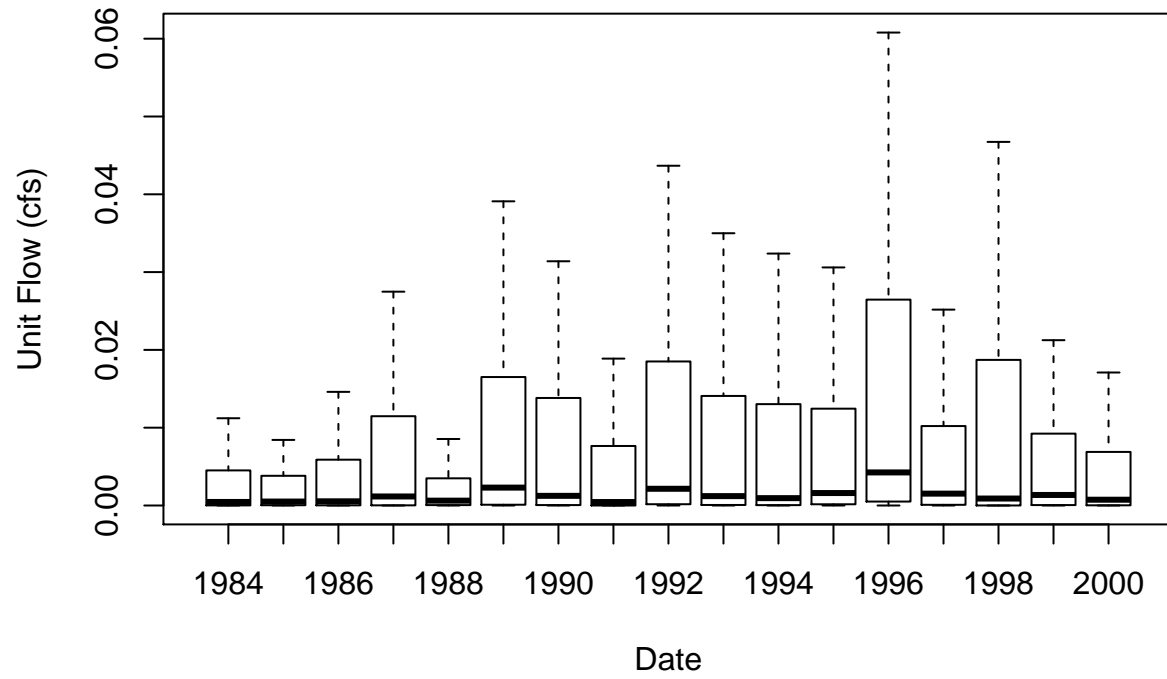


Fig: Annual AGWO Flows for LR-seg cbp6_N51045_JU1_7690_7490

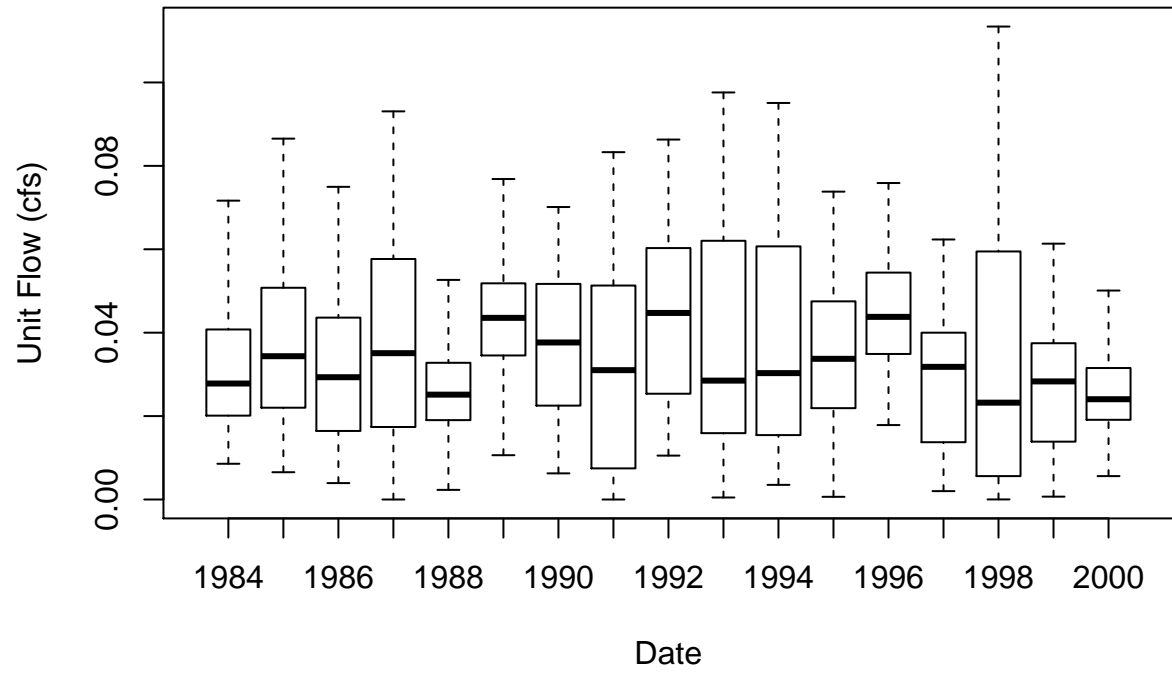


Fig: Annual SURO Flows for LR-seg cbp6_N51121_JU1_7690_7490

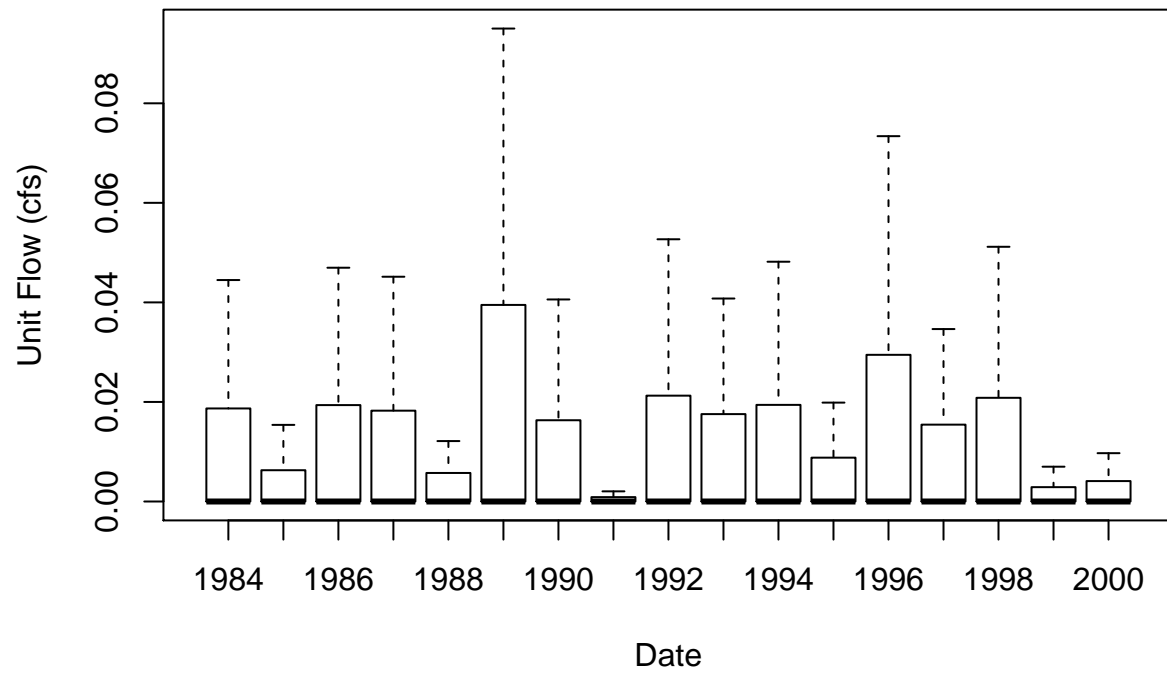


Fig: Annual IFWO Flows for LR-seg cbp6_N51121_JU1_7690_7490

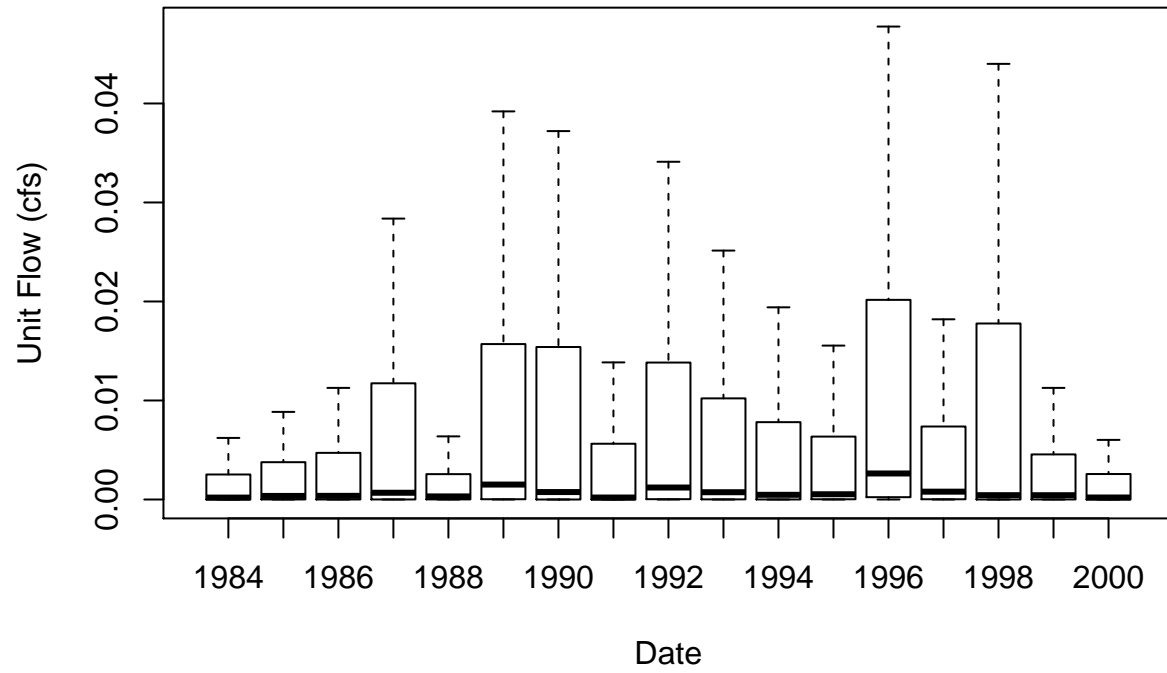


Fig: Annual AGWO Flows for LR-seg cbp6_N51121_JU1_7690_7490

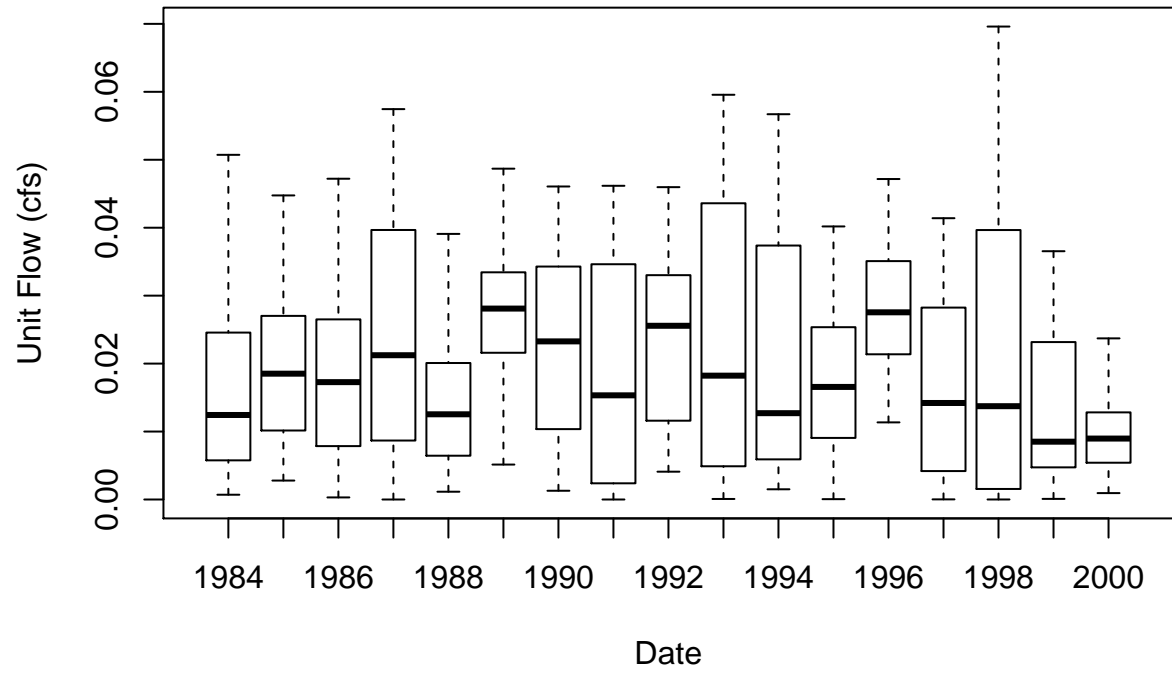


Fig: Annual SURO Flows for LR-seg cbp6_N51161_JU1_7690_7490

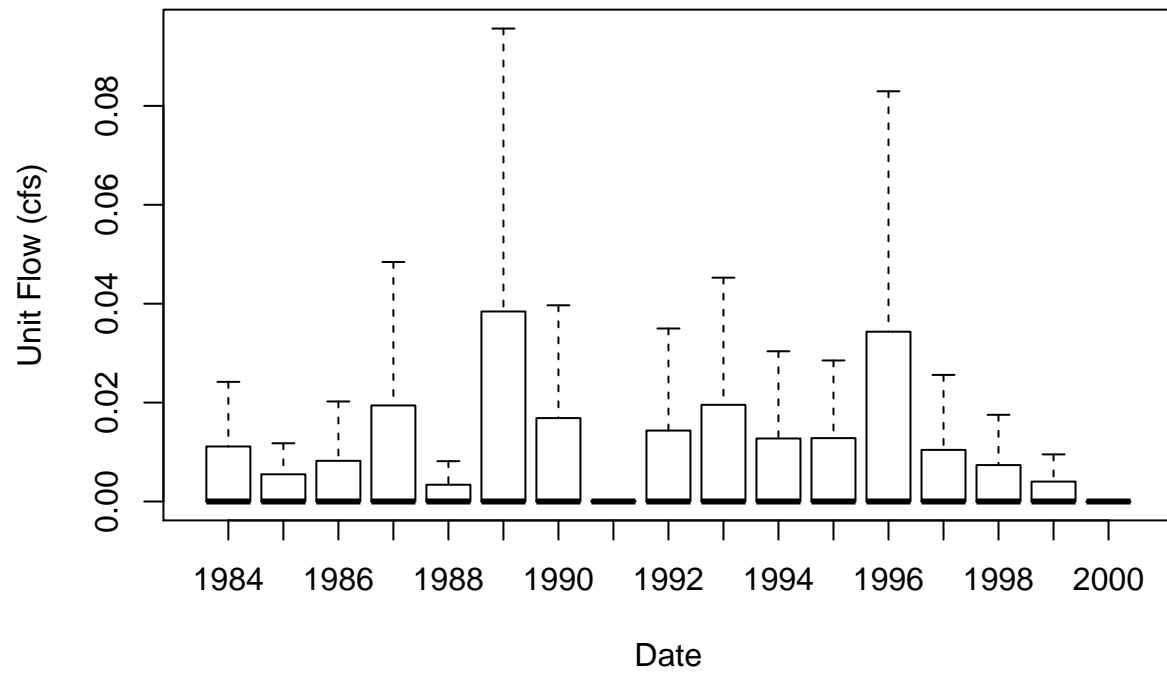


Fig: Annual IFWO Flows for LR-seg cbp6_N51161_JU1_7690_7490

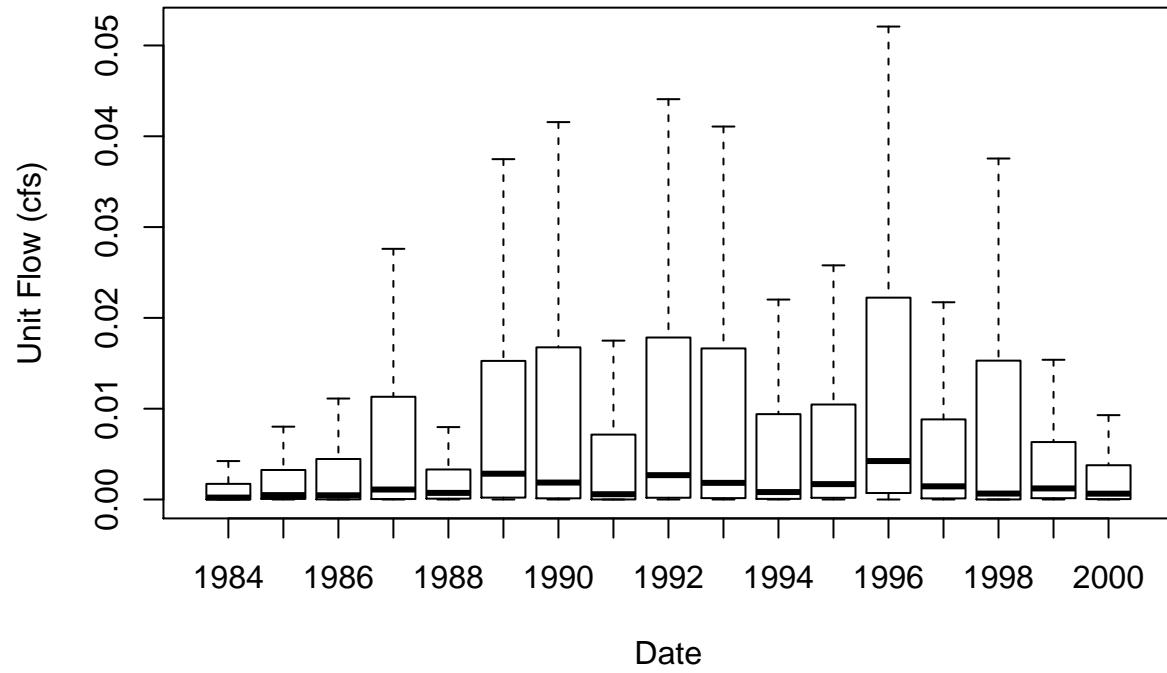


Fig: Annual AGWO Flows for LR-seg cbp6_N51161_JU1_7690_7490

