DAVIDSON RIVER - NCWRC TROUT HATCHERY IFIM SITE 09:14 Friday, August 9, 2013

DA = 13.8 SQ MI (35.28493 -82.79348)

PERIOD 1/1/1967 TO 9/30/2006 - WATERFALL SIMULATION, DROPPED FIRST 3 MONTHS - UNREGULATED&1970S LANDCOVER

| | | MONTH | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ANNUAL | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| | MEAN | 51.781 | 62.959 | 62.868 | 66.087 | 53.423 | 48.175 | 43.337 | 36.249 | 43.249 | 42.463 | 44.285 | 54.308 | 64.716 |
| | ST DEV | 60.411 | 67.401 | 58.859 | 71.023 | 46.044 | 48.251 | 50.115 | 33.315 | 75.968 | 65.67 | 64.213 | 61.363 | 59.312 |
| | OBS | 14518 | 1240 | 1130 | 1240 | 1200 | 1240 | 1200 | 1240 | 1240 | 1200 | 1209 | 1170 | 1209 |
| | MIN | 6.41 | 11.287 | 15.121 | 16.126 | 12.872 | 10.805 | 8.36 | 8.956 | 8.702 | 7.682 | 6.41 | 8.068 | 16.466 |
| | PERCT 1 | 10.219 | 14.154 | 18.552 | 17.265 | 14.693 | 12.58 | 9.7185 | 9.944 | 10.189 | 9.29 | 7.544 | 9.385 | 18.55 |
| | PERCT 5 | 13.9 | 21.307 | 23.593 | 21.127 | 19.091 | 16.295 | 12.721 | 11.79 | 11.961 | 11.659 | 11.719 | 12.329 | 21.409 |
| | PERCT 10 | 17.266 | 25.705 | 25.653 | 24.043 | 21.762 | 18.956 | 16.469 | 14.103 | 13.342 | 13.572 | 14.176 | 15.563 | 24.977 |
| | PERCT 25 | 24.473 | 32.03 | 31.17 | 32.686 | 27.744 | 25.704 | 22.916 | 18.641 | 17.457 | 19.217 | 19.831 | 25.389 | 31.641 |
| | MEDIAN | 35.648 | 42.623 | 43.47 | 46.527 | 38.651 | 34.904 | 30.896 | 26.072 | 28.233 | 27.164 | 29.444 | 36.069 | 46.127 |
| | PERCT 75 | 62.887 | 81.887 | 78.727 | 83.79 | 63.622 | 56.216 | 47.95 | 44.726 | 46.932 | 44.098 | 45.903 | 64.615 | 83.483 |
| | PERCT 90 | 97.498 | 107.42 | 108.17 | 112.6 | 105.58 | 87.016 | 83.846 | 70.746 | 84.142 | 78.765 | 83.865 | 103.91 | 111.29 |
| | PERCT 95 | 119.23 | 123.64 | 132.3 | 131.99 | 126.52 | 106.57 | 99.339 | 92.831 | 101.27 | 102.48 | 108.77 | 124.5 | 135.41 |
| | PERCT 99 | 287.89 | 243.04 | 333.49 | 367.33 | 229.71 | 259.83 | 205.13 | 125.56 | 223.2 | 303.03 | 298.7 | 304.95 | 383.32 |
| | MAX | 1791.9 | 1410.3 | 654.17 | 1080.9 | 559.3 | 916.53 | 985.42 | 595.24 | 1791.9 | 1061.1 | 1336.7 | 802.48 | 542.02 |
| | LN(7D)MEAN | 1.1456 | 1.5459 | 1.5469 | 1.543 | 1.4979 | 1.4185 | 1.3828 | 1.3242 | 1.3088 | 1.3101 | 1.3259 | 1.3994 | 1.5472 |
| | LN(7D)STD | 0.158 | 0.1534 | 0.1511 | 0.155 | 0.1666 | 0.146 | 0.1744 | 0.1927 | 0.1945 | 0.1976 | 0.2183 | 0.2131 | 0.1632 |
| | LN(7D)SKEW | 0.0262 | -0.632 | 0.1534 | -0.28 | -0.279 | -0.599 | -0.445 | 0.2541 | 0.2327 | -0.024 | -0.398 | -0.499 | 0.0603 |
| | 7Q10 | 8.7817 | 21.99 | 22.696 | 21.892 | 19.062 | 16.779 | 14.219 | 12.108 | 11.613 | 11.384 | 10.929 | 13.113 | 21.837 |

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| | | MONTH | | | |
|---|---|---|---|---|---|
| | | DEC-MAR | APR-JUN | JUL-SEP | OCT-NOV |
| | MEAN | 64.183 | 48.31 | 40.634 | 49.214 |
| | ST DEV | 64.507 | 48.327 | 61.096 | 63.014 |
| | OBS | 4819 | 3640 | 3680 | 2379 |
| | MIN | 11.287 | 8.36 | 7.682 | 6.41 |
| | PERCT 1 | 17.265 | 11.244 | 9.778 | 8.13 |
| | PERCT 5 | 21.809 | 15.8 | 11.849 | 12.061 |
| | PERCT 10 | 25.119 | 19.103 | 13.623 | 14.642 |
| | PERCT 25 | 31.959 | 24.929 | 18.402 | 21.58 |
| | MEDIAN | 44.679 | 34.559 | 27.139 | 32.527 |
| | PERCT 75 | 82.226 | 55.524 | 45.194 | 53.445 |
| | PERCT 90 | 109.65 | 91.956 | 78.582 | 96.532 |
| | PERCT 95 | 130.79 | 114.26 | 98.608 | 122.03 |
| | PERCT 99 | 338.87 | 241.94 | 214.19 | 304.95 |
| | MAX | 1410.3 | 985.42 | 1791.9 | 1336.7 |
| | LN(7D)MEAN | 1.4247 | 1.3374 | 1.2109 | 1.2935 |
| | LN(7D)STD | 0.1267 | 0.1557 | 0.1759 | 0.2219 |
| | LN(7D)SKEW | -0.433 | -0.702 | 0.3052 | -0.312 |
| | 7Q10 | 18.098 | 13.499 | 9.8191 | 10.067 |