Water-Data Report 2010

# 01189995 FARMINGTON RIVER AT TARIFFVILLE, CT

Lower Connecticut Basin
Farmington Subbasin

LOCATION.--Lat 41°54′30″, long 72°45′40″ referenced to North American Datum of 1927, Hartford County, CT, Hydrologic Unit 01080207, on right bank at Tariffville, behind house at 20 Tunxis Rd., 0.3 mi downstream from bridge on State Rt. 189 and 5.5 mi upstream from gage at Rainbow.

DRAINAGE AREA.--577 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1928 to September 1939, October 1971 to current year. January 1913 to August 1928 furnished by Farmington River Power Company.

REVISED RECORDS.--WSP 851: 1936. WSP 1301: 1937-39 (revised records published are included with those for "Farmington River at Rainbow, Conn."). WDR CT-76-1: 1972-75. WDR CT-80-1: Drainage area. WDR CT-07-01: 1980, 1982, 1984, 1987 (P).

GAGE.--Water-stage recorder August 1928 to September 1939 and since October 1971. January 1913 to August 1928, staff gage on forebay of dam of Hartford Electric Light Co. Datum of gage is 130.21 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at station.

REMARKS.--Records good except for estimated daily discharges, which are fair. Peak flows are affected by flood-control regulation at Colebrook River Lake, Highland Lake Reservoir, Sucker Brook Dam, and Mad River Reservoir. The natural flow regime can be altered by regulation from water-supply reservoirs (Barkhamsted, Lake McDonough, East Branch, Nepaug, Whigville, and West Branch), flood-control reservoirs (Colebrook River Lake, Highland Lake Reservoir, Sucker Brook Dam, and Mad River Reservoir), and by Otis Reservoir.



Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2010: U.S. Geological Survey Water-Data Report WDR-US-2010, site 01189995, accessed at http://wdr.water.usgs.gov/wy2010/pdfs/01189995.2010.pdf

**01189995 FARMINGTON RIVER AT TARIFFVILLE, CT—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**
**DAILY MEAN VALUES**
[e, estimated]

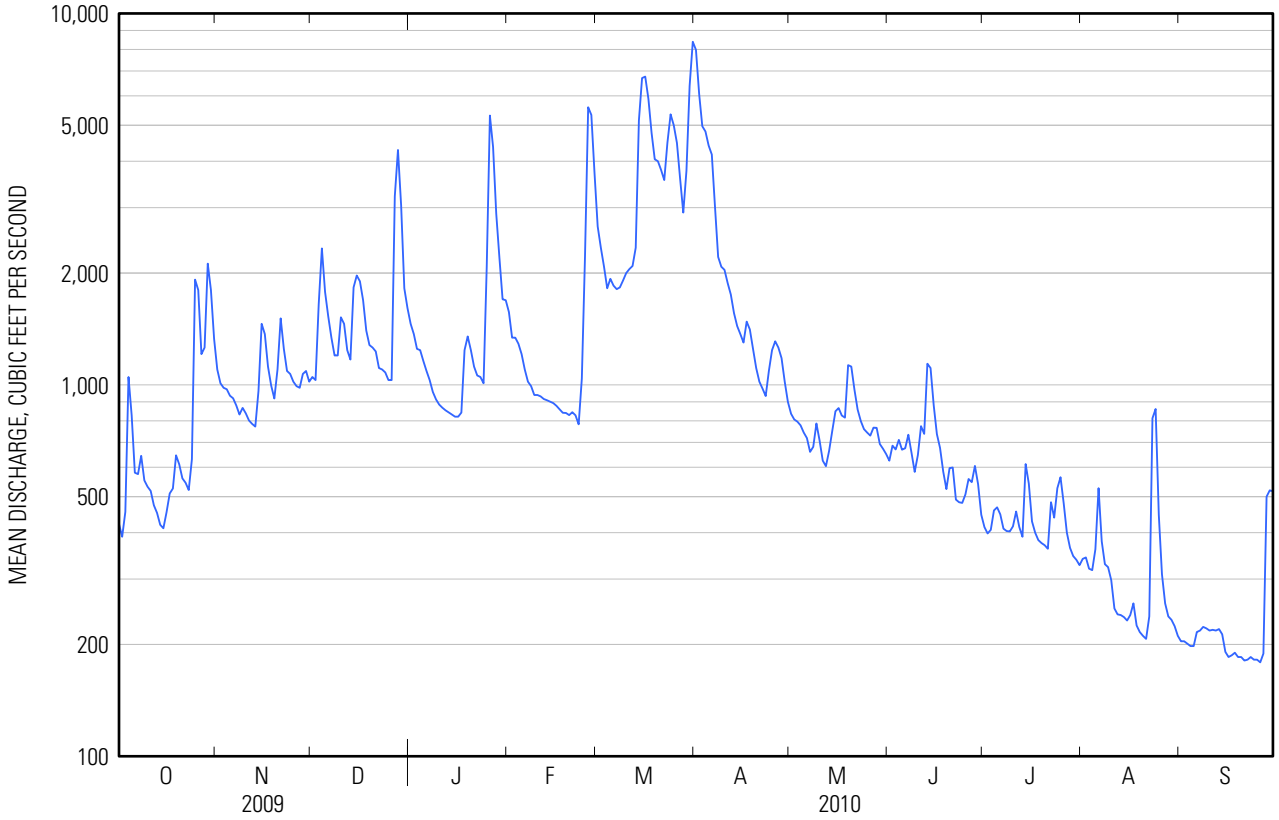
| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 422 | 1,100 | 1,050 | e1,460 | e1,570 | 2,670 | 7,980 | 836 | 625 | 414 | 340 | 204 |
| 2 | 390 | 1,010 | 1,030 | e1,370 | e1,340 | 2,340 | 6,080 | 807 | 686 | 398 | 343 | 204 |
| 3 | 455 | 982 | 1,650 | e1,250 | e1,340 | 2,080 | 4,970 | 796 | 670 | 407 | 320 | 201 |
| 4 | 1,050 | 973 | 2,330 | e1,240 | e1,290 | 1,820 | 4,810 | 778 | 711 | 459 | 317 | 198 |
| 5 | 827 | 935 | 1,780 | e1,160 | e1,210 | 1,930 | 4,410 | 744 | 669 | 468 | 361 | 198 |
| 6 | 580 | 920 | 1,530 | e1,090 | e1,100 | 1,850 | 4,170 | 719 | 675 | 448 | 527 | 216 |
| 7 | 575 | 880 | 1,340 | e1,030 | e1,020 | 1,810 | 3,020 | 660 | 734 | 410 | 379 | 218 |
| 8 | 644 | 832 | 1,200 | e957 | e992 | 1,830 | 2,210 | 681 | 656 | 404 | 329 | 223 |
| 9 | 553 | 867 | 1,200 | e914 | e939 | 1,910 | 2,080 | 787 | 583 | 403 | 323 | 221 |
| 10 | 532 | 838 | 1,520 | e885 | e939 | 2,000 | 2,040 | 708 | 647 | 416 | 298 | 218 |
| 11 | 518 | 802 | 1,460 | e868 | e931 | 2,050 | 1,880 | 625 | 774 | 456 | 250 | 219 |
| 12 | 474 | 785 | 1,240 | e854 | e916 | 2,090 | 1,750 | 604 | 738 | 414 | 241 | 218 |
| 13 | 452 | 772 | 1,170 | e843 | e909 | 2,340 | 1,560 | 664 | 1,140 | 390 | 240 | 220 |
| 14 | 420 | 963 | 1,830 | e832 | e901 | 5,150 | 1,440 | 752 | 1,110 | 612 | 237 | 213 |
| 15 | 411 | 1,460 | 1,970 | 821 | e893 | 6,700 | 1,370 | 849 | 881 | 542 | 232 | 191 |
| 16 | 454 | 1,370 | 1,900 | 821 | e878 | 6,760 | 1,300 | 866 | 737 | 429 | 240 | 185 |
| 17 | 510 | 1,120 | 1,690 | 842 | 859 | 5,890 | 1,480 | 827 | 676 | 400 | 258 | 187 |
| 18 | 526 | 996 | 1,400 | 1,240 | 841 | 4,770 | 1,410 | 816 | 584 | 382 | 225 | 190 |
| 19 | 646 | 919 | 1,280 | 1,350 | 840 | 4,050 | 1,250 | 1,130 | 524 | 375 | 216 | 185 |
| 20 | 611 | 1,100 | 1,260 | 1,240 | 829 | 4,000 | 1,110 | 1,120 | 597 | 370 | 211 | 185 |
| 21 | 560 | 1,510 | 1,230 | 1,120 | 844 | 3,790 | 1,020 | 970 | 599 | 362 | 207 | 181 |
| 22 | 545 | 1,250 | 1,110 | 1,060 | 828 | 3,560 | 977 | 858 | 491 | 483 | 238 | 182 |
| 23 | 521 | 1,090 | 1,100 | 1,050 | 783 | 4,490 | 933 | 799 | 483 | 439 | 813 | 185 |
| 24 | 631 | 1,070 | 1,080 | 1,010 | 1,040 | 5,350 | 1,090 | 760 | 481 | 527 | 861 | 182 |
| 25 | 1,920 | 1,020 | 1,030 | 2,080 | 2,220 | 5,000 | 1,240 | 744 | 507 | 564 | 447 | 182 |
| 26 | 1,800 | 992 | 1,030 | 5,310 | 5,590 | 4,480 | 1,310 | 730 | 558 | 480 | 309 | 179 |
| 27 | 1,210 | 982 | 3,220 | 4,370 | 5,330 | 3,590 | 1,260 | 767 | 547 | 400 | 258 | 189 |
| 28 | 1,260 | 1,070 | 4,290 | 2,890 | 3,720 | 2,910 | 1,180 | 766 | 605 | 364 | 238 | 500 |
| 29 | 2,120 | 1,090 | 3,040 | 2,200 | --- | 3,770 | 1,020 | 693 | 540 | 346 | 233 | 520 |
| 30 | 1,800 | 1,020 | e1,820 | e1,700 | --- | 6,380 | 900 | 673 | 447 | 338 | 224 | 517 |
| 31 | 1,330 | --- | e1,610 | e1,690 | --- | 8,390 | --- | 651 | --- | 327 | 211 | --- |
| Total | 24,747 | 30,718 | 50,390 | 45,547 | 40,892 | 115,750 | 67,250 | 24,180 | 19,675 | 13,227 | 9,926 | 6,911 |
| Mean | 798 | 1,024 | 1,625 | 1,469 | 1,460 | 3,734 | 2,242 | 780 | 656 | 427 | 320 | 230 |
| Max | 2,120 | 1,510 | 4,290 | 5,310 | 5,590 | 8,390 | 7,980 | 1,130 | 1,140 | 612 | 861 | 520 |
| Min | 390 | 772 | 1,030 | 821 | 783 | 1,810 | 900 | 604 | 447 | 327 | 207 | 179 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2010, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 858 | 1,024 | 1,247 | 1,266 | 1,229 | 1,840 | 2,125 | 1,411 | 1,179 | 714 | 665 | 675 |
| Max | 2,643 | 1,994 | 3,287 | 3,499 | 2,790 | 3,734 | 4,721 | 3,329 | 3,647 | 2,398 | 1,323 | 1,794 |
| (WY) | (2006) | (2004) | (1997) | (2006) | (1976) | (2010) | (1983) | (1989) | (1982) | (1972) | (2009) | (1975) |
| Min | 253 | 306 | 287 | 140 | 366 | 612 | 475 | 470 | 355 | 306 | 266 | 227 |
| (WY) | (1981) | (2002) | (1981) | (1981) | (1980) | (2002) | (1985) | (1985) | (1985) | (1985) | (2002) | (2002) |

**01189995 FARMINGTON RIVER AT TARIFFVILLE, CT—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2009 | | Water Year 2010 | | Water Years 1972 - 2010 | |
|---|---|---|---|---|---|---|
| **Annual total** | 455,081 | | 449,213 | | | |
| **Annual mean** | 1,247 | | 1,231 | | 1,185 | |
| **Highest annual mean** | | | | | 1,683 | 2006 |
| **Lowest annual mean** | | | | | 451 | 1985 |
| **Highest daily mean** | 4,290 | Dec 28 | 8,390 | Mar 31 | 15,800 | Apr 17, 2007 |
| **Lowest daily mean** | 343 | Sep 26 | 179 | Sep 26 | 128 | Feb 7, 1985 |
| **Annual seven-day minimum** | 373 | Sep 21 | 182 | Sep 20 | 131 | Jan 19, 1981 |
| **Maximum peak flow** | | | 8,680 | Apr 1 | [a]29,900 | Sep 22, 1938 |
| **Maximum peak stage** | | | 7.87 | Apr 1 | [b]14.00 | Sep 22, 1938 |
| **Instantaneous low flow** | | | 179 | Sep 21[d] | [c]153 | Sep 12, 2002 |
| **10 percent exceeds** | 1,970 | | 2,340 | | 2,370 | |
| **50 percent exceeds** | 1,070 | | 849 | | 827 | |
| **90 percent exceeds** | 621 | | 238 | | 377 | |

[a] From computation of flow over dam 0.6 mi. downstream.
[b] From floodmarks.
[c] Probably less than 30 ft³/s Mar. 1, 1938, river below intake.
[d] Also Sep. 22, 26-27.