# 12390700 PROSPECT CREEK AT THOMPSON FALLS, MT

Pend Oreille Basin
Lower Clark Fork Subbasin

LOCATION.--Lat 47°35′10″, long 115°21′15″ referenced to North American Datum of 1927, in SE ¼ SE ¼ SE ¼ sec.7, T.21 N., R.29 W., Sanders County, MT, Hydrologic Unit 17010213, lot 12,on right bank 500 ft downstream from Dry Creek, 0.5 mi upstream from mouth, and 0.7 mi south of Thompson Falls.

DRAINAGE AREA.--182 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1956 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,382.40 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are good. No known regulation or diversions occur upstream from station. U.S. Geological Survey satellite telemeter is located at the station. Several unpublished observations of water temperature and specific conductance were made during the year.

**12390700 PROSPECT CREEK AT THOMPSON FALLS, MT—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**
**DAILY MEAN VALUES**
[e, estimated]

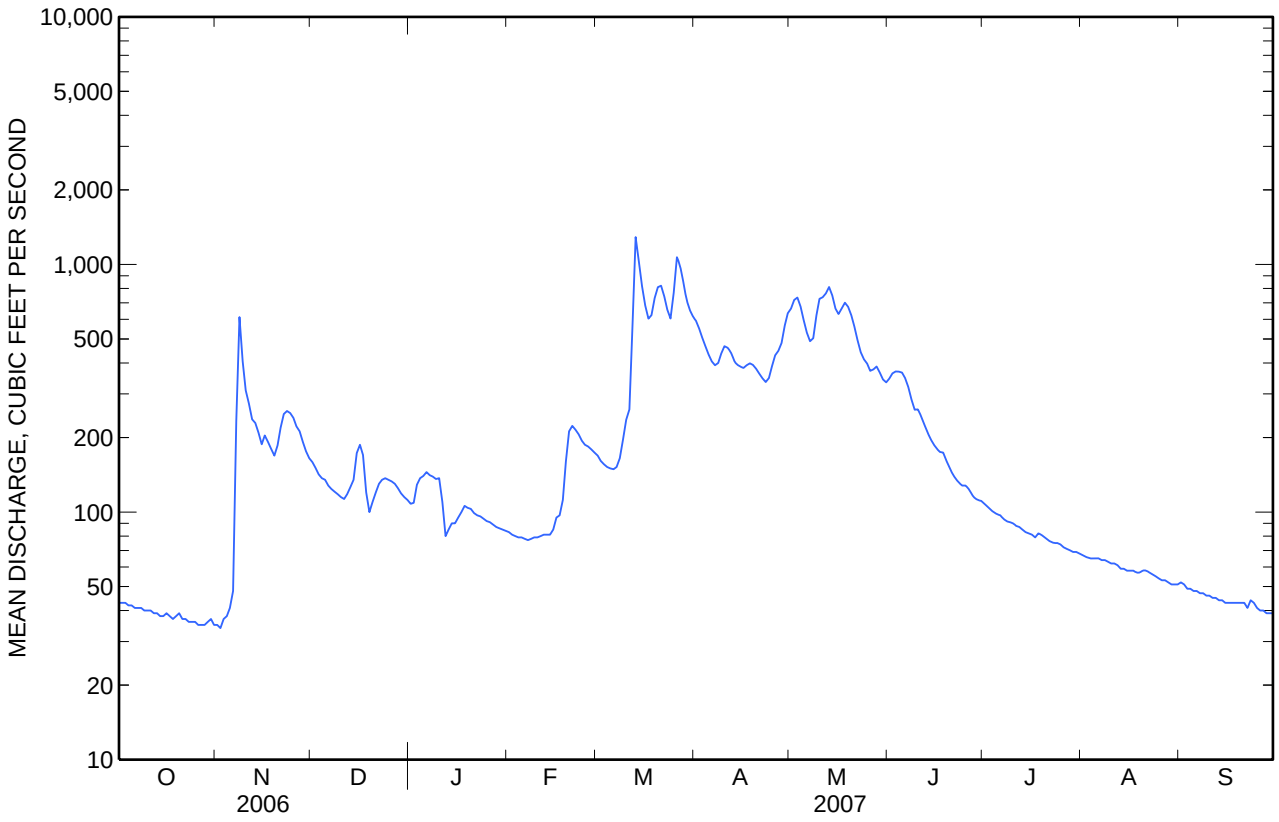
| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43 | 35 | 159 | 108 | 83 | 169 | 593 | 664 | 346 | 108 | 67 | 52 |
| 2 | 43 | 34 | 151 | 109 | 81 | 161 | 551 | 719 | 363 | 105 | 66 | 51 |
| 3 | 43 | 37 | 142 | 129 | 80 | 156 | 507 | 735 | 370 | 102 | 65 | 49 |
| 4 | 42 | 38 | 137 | 137 | 79 | 152 | 468 | 676 | 369 | 100 | 65 | 49 |
| 5 | 42 | 41 | 135 | 140 | 79 | 150 | 433 | 597 | 366 | 98 | 65 | 48 |
| 6 | 41 | 48 | 128 | 145 | 78 | 149 | 406 | 531 | 348 | 97 | 65 | 48 |
| 7 | 41 | 233 | 124 | 141 | 77 | 152 | 392 | 490 | 320 | 94 | 64 | 47 |
| 8 | 41 | 613 | 121 | 139 | 78 | 165 | 400 | 504 | 285 | 92 | 64 | 47 |
| 9 | 40 | 406 | 118 | 136 | 79 | 196 | 437 | 623 | 259 | 91 | 63 | 46 |
| 10 | 40 | 310 | 115 | 137 | 79 | 236 | 468 | 727 | 260 | 90 | 62 | 46 |
| 11 | 40 | 274 | 113 | e110 | 80 | 260 | 461 | 737 | 245 | 88 | 62 | 45 |
| 12 | 39 | 237 | 118 | e80 | 81 | 581 | 441 | 764 | 226 | 87 | 61 | 45 |
| 13 | 39 | 229 | 126 | e85 | 81 | 1,290 | 411 | 811 | 212 | 85 | 59 | 44 |
| 14 | 38 | 209 | 135 | e90 | 81 | 1,030 | 394 | 750 | 198 | 83 | 59 | 44 |
| 15 | 38 | 188 | 173 | e90 | 85 | 817 | 388 | 664 | 187 | 82 | 58 | 43 |
| 16 | 39 | 204 | 187 | e95 | 95 | 683 | 382 | 631 | 181 | 81 | 58 | 43 |
| 17 | 38 | 192 | e170 | e100 | 97 | 604 | 392 | 665 | 175 | 79 | 58 | 43 |
| 18 | 37 | 180 | e120 | 106 | 112 | 624 | 399 | 701 | 174 | 82 | 57 | 43 |
| 19 | 38 | 169 | e100 | 104 | 160 | 732 | 393 | 675 | 161 | 81 | 57 | 43 |
| 20 | 39 | 186 | e110 | 103 | 212 | 810 | 379 | 623 | 151 | 79 | 58 | 43 |
| 21 | 37 | 219 | e120 | 99 | 223 | 821 | 362 | 562 | 143 | 77 | 58 | 43 |
| 22 | 37 | 249 | e130 | 97 | 215 | 743 | 347 | 494 | 136 | 76 | 57 | 41 |
| 23 | 36 | 256 | e135 | 96 | 206 | 657 | 335 | 442 | 131 | 75 | 56 | 44 |
| 24 | 36 | 251 | 137 | 94 | 194 | 605 | 348 | 414 | 128 | 75 | 55 | 43 |
| 25 | 36 | 240 | 135 | 92 | 187 | 769 | 388 | 398 | 128 | 74 | 54 | 41 |
| 26 | 35 | 222 | 133 | 91 | 184 | 1,070 | 430 | 372 | 124 | 72 | 53 | 40 |
| 27 | 35 | 212 | 130 | 89 | 179 | 983 | 448 | 377 | 118 | 71 | 53 | 40 |
| 28 | 35 | 192 | 125 | 87 | 174 | 842 | 482 | 387 | 114 | 70 | 52 | 39 |
| 29 | 36 | 176 | 119 | 86 | --- | 736 | 567 | 366 | 112 | 69 | 51 | 39 |
| 30 | 37 | 165 | 115 | 85 | --- | 662 | 636 | 343 | 111 | 69 | 51 | 39 |
| 31 | 35 | --- | 112 | 84 | --- | 616 | --- | 334 | --- | 68 | 51 | --- |
| Total | 1,196 | 6,045 | 4,073 | 3,284 | 3,439 | 17,621 | 13,038 | 17,776 | 6,441 | 2,600 | 1,824 | 1,328 |
| Mean | 38.6 | 202 | 131 | 106 | 123 | 568 | 435 | 573 | 215 | 83.9 | 58.8 | 44.3 |
| Max | 43 | 613 | 187 | 145 | 223 | 1,290 | 636 | 811 | 370 | 108 | 67 | 52 |
| Min | 35 | 34 | 100 | 80 | 77 | 149 | 335 | 334 | 111 | 68 | 51 | 39 |
| Ac-ft | 2,370 | 11,990 | 8,080 | 6,510 | 6,820 | 34,950 | 25,860 | 35,260 | 12,780 | 5,160 | 3,620 | 2,630 |
| Cfsm | 0.21 | 1.11 | 0.72 | 0.58 | 0.67 | 3.12 | 2.39 | 3.15 | 1.18 | 0.46 | 0.32 | 0.24 |
| In. | 0.24 | 1.24 | 0.83 | 0.67 | 0.70 | 3.60 | 2.66 | 3.63 | 1.32 | 0.53 | 0.37 | 0.27 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2007, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 53.5 | 80.7 | 112 | 118 | 157 | 224 | 473 | 770 | 517 | 157 | 81.8 | 60.4 |
| Max | 168 | 469 | 701 | 735 | 875 | 828 | 877 | 1,425 | 1,468 | 317 | 109 | 79.9 |
| (WY) | (1960) | (1996) | (1996) | (1974) | (1996) | (1972) | (1969) | (1997) | (1974) | (1997) | (1982) | (1959) |
| Min | 28.7 | 28.8 | 29.9 | 29.1 | 26.4 | 31.8 | 84.5 | 297 | 142 | 73.7 | 48.5 | 35.8 |
| (WY) | (2002) | (2002) | (1988) | (2001) | (2001) | (2001) | (2001) | (1977) | (1987) | (1977) | (1977) | (2001) |

**12390700 PROSPECT CREEK AT THOMPSON FALLS, MT—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2006 | | Water Year 2007 | | Water Years 1957 - 2007 | |
|---|---|---|---|---|---|---|
| **Annual total** | 84,173 | | 78,665 | | | |
| **Annual mean** | 231 | | 216 | | 234 | |
| **Highest annual mean** | | | | | 441 | 1974 |
| **Lowest annual mean** | | | | | 85.8 | 2001 |
| **Highest daily mean** | 1,290 | May 18 | 1,290 | Mar 13 | 4,960 | Jan 16, 1974 |
| **Lowest daily mean** | 34 | Nov 2 | 34 | Nov 2 | 25 | Feb 19, 2001 |
| **Annual seven-day minimum** | 35 | Oct 27 | 35 | Oct 27 | 25 | Feb 27, 2001 |
| **Maximum peak flow** | | | 1,430 | Mar 13 | 5,490 | Jan 16, 1974 |
| **Maximum peak stage** | | | 5.10 | Mar 13 | 9.86 | Jan 16, 1974 |
| **Instantaneous low flow** | | | [a]34 | Nov 1 | 22 | Feb 8, 2001 |
| **Annual runoff (ac-ft)** | 167,000 | | 156,000 | | 169,300 | |
| **Annual runoff (cfsm)** | 1.27 | | 1.18 | | 1.28 | |
| **Annual runoff (inches)** | 17.20 | | 16.08 | | 17.45 | |
| **10 percent exceeds** | 570 | | 604 | | 629 | |
| **50 percent exceeds** | 138 | | 119 | | 101 | |
| **90 percent exceeds** | 43 | | 41 | | 43 | |

[a] Gage height, 0.54 ft.