

Water-Data Report 2013

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY

Upper Green Basin
Blacks Fork Subbasin

LOCATION.--Lat 41°32'46", long 109°41'34" referenced to North American Datum of 1927, in NE ¼ NE ¼ NE ¼ sec.15, T.18 N., R.109 W., Sweetwater County, WY, Hydrologic Unit 14040107, on right bank 200 ft upstream from bridge on U.S. Highway 30, 4.2 mi upstream from Meadow Springs Wash, and 8.5 mi east of Little America.

DRAINAGE AREA.--3,100 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1962 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,140 ft above NGVD of 1929, from topographic map . U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records good except those from Oct. 1 -25 and Aug. 4 -17, which are fair, and those for estimated daily discharges, which are poor. Flow regulated by Meeks Cabin Reservoir, capacity 32,470 acre-ft, since June 1971; by Viva Naughton Reservoir, capacity 45,500 acre-ft, since 1967; by State Line Reservoir, capacity 14,000 acre-ft, since April 1980; by numerous smaller reservoirs; and by diversions for mines and irrigation upstream from station. Quality of water data were collected and are available at <http://waterdata.usgs.gov/usa/nwis/qw>.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| 1 | 9.7 | 32 | 53 | e17 | e9.0 | e21 | 154 | 42 | 116 | 24 | 24 | 0.00 |
| 2 | 13 | 32 | 53 | e19 | e9.8 | e25 | 150 | 37 | 108 | 24 | 23 | 0.00 |
| 3 | 14 | 31 | 54 | e16 | e11 | e32 | 151 | 35 | 96 | 22 | 16 | 0.00 |
| 4 | 12 | 29 | 36 | e14 | e10 | e36 | 179 | 39 | 80 | 21 | 10 | 0.00 |
| 5 | 14 | 27 | 53 | e15 | e11 | e33 | 190 | 41 | 66 | 21 | 4.8 | 0.00 |
| 6 | 14 | 26 | 49 | e17 | e13 | e46 | 166 | 46 | 53 | 21 | 2.9 | 0.00 |
| 7 | 15 | 27 | 49 | e15 | e12 | e59 | 149 | 41 | 45 | 23 | 2.0 | 0.00 |
| 8 | 16 | 26 | 24 | e14 | e11 | e68 | 144 | 40 | 49 | 38 | 1.3 | 0.00 |
| 9 | 16 | 28 | e23 | e16 | e12 | e62 | 121 | 46 | 55 | 53 | 0.91 | 0.00 |
| 10 | 16 | 30 | e22 | e19 | e13 | e72 | 128 | 45 | 66 | 46 | 0.51 | 0.00 |
| 11 | 16 | 26 | e26 | e21 | e11 | e85 | 133 | 46 | 64 | 72 | 0.40 | 0.00 |
| 12 | 17 | 21 | 27 | e19 | e10 | e94 | 149 | 40 | 55 | 63 | 0.42 | 0.00 |
| 13 | 20 | 30 | 28 | e12 | e9.5 | e84 | 156 | 44 | 51 | 57 | 0.47 | 1,470 |
| 14 | 20 | 23 | 24 | e8.2 | e11 | e180 | 135 | 55 | 48 | 48 | 0.52 | 744 |
| 15 | 20 | 37 | 25 | e5.0 | e12 | e310 | 123 | 76 | 43 | 43 | 0.44 | 375 |
| 16 | 21 | 37 | 28 | e4.5 | e14 | 346 | 111 | 133 | 41 | 48 | 0.28 | 392 |
| 17 | 22 | 39 | 28 | e5.2 | e13 | 319 | 106 | 190 | 37 | 53 | 0.07 | 329 |
| 18 | 22 | 59 | 29 | e5.5 | e14 | 289 | 114 | 227 | 38 | 48 | 0.00 | 208 |
| 19 | 22 | 60 | 29 | e5.2 | e12 | 242 | 114 | 280 | 38 | 43 | 0.00 | 138 |
| 20 | 23 | 59 | 28 | e5.6 | e14 | 210 | 108 | 301 | 34 | 41 | 0.00 | 102 |
| 21 | 23 | 62 | 26 | e6.0 | e13 | 185 | 109 | 247 | 35 | 43 | 0.00 | 77 |
| 22 | 23 | 58 | 29 | e5.5 | e13 | 180 | 106 | 232 | 36 | 36 | 0.00 | 59 |
| 23 | 23 | 48 | 28 | e5.5 | e14 | 108 | 101 | 242 | 31 | 29 | 0.00 | 46 |
| 24 | 25 | 38 | 25 | e6.5 | e17 | 93 | 100 | 198 | 31 | 24 | 0.00 | 38 |
| 25 | 25 | 36 | 26 | e7.4 | e15 | 152 | 90 | 182 | 31 | 24 | 0.00 | 32 |
| 26 | 21 | 30 | e27 | e8.5 | e16 | 140 | 82 | 187 | 29 | 22 | 0.00 | 29 |
| 27 | 36 | 30 | e29 | e7.8 | e14 | 132 | 70 | 168 | 26 | 19 | 0.00 | 53 |
| 28 | 36 | 29 | e31 | e7.5 | e17 | 132 | 62 | 143 | 27 | 19 | 0.00 | 201 |
| 29 | 34 | 36 | e24 | e7.0 | --- | 141 | 54 | 149 | 26 | 20 | 0.00 | 197 |
| 30 | 31 | 40 | e19 | e6.8 | --- | 166 | 48 | 127 | 25 | 21 | 0.00 | 141 |
| 31 | 31 | --- | e18 | e7.8 | --- | 166 | --- | 127 | --- | 18 | 0.00 | --- |
| Total | 650.7 | 1,086 | 970 | 329.5 | 351.3 | 4,208 | 3,603 | 3,806 | 1,480 | 1,084 | 88.02 | 4,631.00 |
| Mean | 21.0 | 36.2 | 31.3 | 10.6 | 12.5 | 136 | 120 | 123 | 49.3 | 35.0 | 2.84 | 154 |
| Max | 36 | 62 | 54 | 21 | 17 | 346 | 190 | 301 | 116 | 72 | 24 | 1,470 |
| Min | 9.7 | 21 | 18 | 4.5 | 9.0 | 21 | 48 | 35 | 25 | 18 | 0.00 | 0.00 |
| Ac-ft | 1,290 | 2,150 | 1,920 | 654 | 697 | 8,350 | 7,150 | 7,550 | 2,940 | 2,150 | 175 | 9,190 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2013, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 89.2 | 96.5 | 68.0 | 69.5 | 97.0 | 320 | 440 | 845 | 981 | 314 | 95.5 | 78.2 |
| Max | 376 | 336 | 230 | 371 | 318 | 912 | 1,310 | 2,918 | 4,573 | 2,211 | 542 | 576 |
| (WY) | (1983) | (1983) | (1984) | (1971) | (1984) | (1997) | (1973) | (1984) | (1983) | (2011) | (1983) | (1983) |
| Min | 7.05 | 13.0 | 5.44 | 1.76 | 5.92 | 33.9 | 23.4 | 21.1 | 14.0 | 2.86 | 0.00 | 0.00 |
| (WY) | (1980) | (2002) | (1995) | (2008) | (2008) | (1964) | (2003) | (1977) | (1977) | (2002) | (2002) | (1994) |

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SUMMARY STATISTICS

| | Calendar Year 2012 | | Water Year 2013 | | Water Years 1962 - 2013 | |
|---------------------------------|--------------------|---------------------|-----------------|---------------------|---------------------------------|---------------------------|
| Annual total | 33,812.95 | | 22,287.52 | | | |
| Annual mean | 92.4 | | 61.1 | | 292 | |
| Highest annual mean | | | | | 888 | 1983 |
| Lowest annual mean | | | | | 23.2 | 2002 |
| Highest daily mean | 490 | Mar 16 | 1,470 | Sep 13 | 9,340 | Jun 13, 1965 |
| Lowest daily mean | 0.00 | Aug 30 ^a | 0.00 | Aug 18 ^a | 0.00 | Sep 20, 1962 ^b |
| Annual seven-day minimum | 0.00 | Sep 5 | 0.00 | Aug 18 | 0.00 | Sep 20, 1962 ^c |
| Maximum peak flow | | | 2,230 | Sep 13 | ^d 9,980 Jun 13, 1965 | |
| Maximum peak stage | | | 8.19 | Sep 13 | ^e 11.18 Mar 13, 1997 | |
| Annual runoff (ac-ft) | 67,070 | | 44,210 | | 211,500 | |
| 10 percent exceeds | 231 | | 151 | | 801 | |
| 50 percent exceeds | 54 | | 29 | | 99 | |
| 90 percent exceeds | 5.0 | | 1.7 | | 14 | |

- ^a Many days.
- ^b Many days, several years.
- ^c Several years.
- ^d Gage height, 10.90 ft.
- ^e Backwater from ice.

