



Water-Data Report 2006

10166430 WEST CANYON CREEK NEAR CEDAR FORT, UT

Jordan Basin
Utah Lake Subbasin

LOCATION.--Lat 40°24'19", long 112°05'59" referenced to North American Datum of 1927, in NW ¼ NE ¼ NE ¼ sec.7, T.5 S., R.2 W., Utah County, UT, Hydrologic Unit 16020201, on right bank 100 ft upstream from a right bank diversion, 540 ft downstream from 6 ft culvert, and 5.3 mi north of Cedar Fort.

DRAINAGE AREA.--26.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1965 to October 1975, October 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,620 ft above NGVD of 1929, from topographic map. Prior to July 21, 1993 at site 700 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,660 ft³/s, Aug 28, 1971, gage height, 7.50 ft, site and datum then in use, from slope-area measurement; minimum, 0.01 ft³/s, Apr 20, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 44 ft³/s, May 16, gage height 3.02 ft; minimum daily discharge, 1.1 ft³/s, Feb 26.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated; &, affected value]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|
| 1 | e3.1 | 2.1 | 2.1 | 1.9 | 1.5 | 1.4 | 1.9 | 24 | 21 | 9.8 | 3.3 | 2.1 |
| 2 | e2.7 | 2.1 | 2.0 | 2.1 | 1.5 | 1.4 | 1.9 | 24 | 21 | 9.3 | 3.2 | 2.0 |
| 3 | e2.7 | 2.1 | 2.0 | 1.9 | 1.5 | 1.3 | 2.2 | 23 | 22 | 9.1 | 3.0 | 2.0 |
| 4 | 2.9 | 2.2 | e1.9 | 1.8 | 1.5 | 1.3 | &6.8 | 24 | 22 | 10 | 2.9 | 2.0 |
| 5 | 2.7 | 2.1 | e1.3 | 1.7 | 1.5 | 1.3 | e5.0 | 25 | 23 | 8.3 | 2.9 | 2.0 |
| 6 | 2.6 | 2.1 | 1.5 | 1.8 | e1.3 | 1.3 | e7.0 | 24 | 22 | 8.8 | 2.9 | 2.0 |
| 7 | 2.6 | 2.2 | e1.3 | 1.7 | e1.3 | 1.4 | e10 | 25 | 22 | 7.4 | 3.0 | 2.1 |
| 8 | 2.7 | 2.2 | e1.4 | 1.7 | e1.3 | 1.3 | e9.0 | 29 | 22 | 6.9 | 2.9 | 2.1 |
| 9 | 2.6 | 2.2 | e1.3 | e1.6 | 1.4 | 1.4 | e10 | 29 | 24 | 6.5 | 2.9 | 2.1 |
| 10 | 2.6 | 2.2 | 1.3 | e1.6 | e1.4 | e1.2 | e18 | 29 | 23 | 6.2 | 2.9 | 1.9 |
| 11 | 2.6 | 2.2 | 1.6 | 1.6 | e1.4 | e1.2 | e33 | 28 | 22 | 6.0 | 2.8 | 1.9 |
| 12 | 2.6 | 2.1 | 1.6 | 1.6 | e1.4 | e1.2 | e30 | 28 | 21 | 5.6 | 2.7 | 1.9 |
| 13 | 2.5 | 2.1 | 1.6 | e1.4 | e1.3 | e1.2 | e26 | 29 | 20 | 5.3 | 2.7 | 1.9 |
| 14 | 2.5 | 2.2 | e1.5 | 1.6 | e1.3 | e1.2 | e27 | 30 | 20 | 4.8 | 2.6 | 1.9 |
| 15 | 2.5 | 2.2 | e1.5 | 1.5 | e1.3 | 1.4 | e28 | 31 | 19 | 4.6 | 2.7 | 2.1 |
| 16 | 2.5 | 2.1 | e1.6 | e1.4 | e1.2 | 1.4 | e34 | 34 | 17 | 4.4 | 2.6 | 2.0 |
| 17 | 2.4 | 2.1 | 1.7 | e1.4 | e1.3 | 1.4 | e36 | 33 | 16 | 4.3 | 2.5 | 1.9 |
| 18 | 2.4 | 2.1 | 1.7 | 1.6 | e1.3 | 1.4 | e27 | 33 | 15 | 4.3 | 2.5 | 1.9 |
| 19 | 2.3 | 2.1 | 1.7 | 1.6 | e1.3 | 1.5 | e30 | 33 | 15 | 4.0 | 2.5 | 1.9 |
| 20 | 2.1 | 2.1 | 1.7 | 1.5 | e1.2 | 1.4 | e26 | 32 | 15 | 3.9 | 2.6 | 2.0 |
| 21 | 2.0 | 2.1 | 1.7 | 1.5 | e1.3 | 1.4 | e24 | 34 | 14 | 3.7 | 2.5 | 1.9 |
| 22 | 2.1 | 2.1 | 1.8 | e1.5 | 1.3 | 1.4 | 22 | 32 | 14 | 3.5 | 2.5 | 2.2 |
| 23 | 2.2 | 2.1 | 1.8 | e1.4 | 1.3 | 1.4 | 25 | 30 | 14 | 3.5 | 2.5 | 1.9 |
| 24 | 2.2 | 2.1 | 1.7 | e1.4 | 1.3 | 1.4 | 25 | 28 | 13 | 3.4 | 2.5 | 1.9 |
| 25 | 2.2 | 2.1 | 1.7 | 1.4 | 1.2 | 1.4 | 23 | 28 | 12 | 3.3 | 2.5 | 1.9 |
| 26 | 2.2 | 2.1 | 1.8 | 1.5 | 1.1 | 1.5 | 22 | 28 | 12 | 3.2 | 2.4 | 1.9 |
| 27 | 2.2 | 2.1 | 1.8 | 1.5 | 1.2 | 1.5 | 22 | 28 | 11 | 3.2 | 2.4 | 1.9 |
| 28 | 2.4 | 2.0 | 1.8 | e1.5 | 1.4 | 2.5 | 22 | 25 | 11 | 3.1 | 2.3 | 1.9 |
| 29 | 2.2 | 2.1 | 1.8 | 1.5 | --- | 5.1 | 23 | 23 | 11 | 3.0 | 2.2 | 1.9 |
| 30 | 2.2 | 2.0 | 1.8 | 1.5 | --- | 2.9 | 24 | 22 | 11 | 2.9 | 2.1 | 1.9 |
| 31 | 2.1 | --- | 2.1 | 1.5 | --- | 1.9 | --- | 21 | --- | 3.3 | 2.1 | --- |
| Total | 75.6 | 63.6 | 52.1 | 49.2 | 37.3 | 49.0 | 600.8 | 866 | 525 | 165.6 | 82.1 | 59.0 |
| Mean | 2.44 | 2.12 | 1.68 | 1.59 | 1.33 | 1.58 | 20.0 | 27.9 | 17.5 | 5.34 | 2.65 | 1.97 |
| Max | 3.1 | 2.2 | 2.1 | 2.1 | 1.5 | 5.1 | 36 | 34 | 24 | 10 | 3.3 | 2.2 |
| Min | 2.0 | 2.0 | 1.3 | 1.4 | 1.1 | 1.2 | 1.9 | 21 | 11 | 2.9 | 2.1 | 1.9 |
| Ac-ft | 150 | 126 | 103 | 98 | 74 | 97 | 1,190 | 1,720 | 1,040 | 328 | 163 | 117 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966-75, 1987-2006, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 1.28 | 1.07 | 0.73 | 0.60 | 0.57 | 1.06 | 4.77 | 14.1 | 11.5 | 5.06 | 2.57 | 1.54 |
| Max | 4.16 | 3.40 | 2.05 | 1.59 | 1.56 | 3.59 | 20.0 | 44.2 | 29.0 | 21.2 | 8.90 | 4.47 |
| (WY) | (1996) | (1996) | (1996) | (2006) | (1987) | (1996) | (2006) | (1973) | (1995) | (1975) | (1975) | (1975) |
| Min | 0.17 | 0.13 | 0.10 | 0.06 | 0.06 | 0.07 | 0.08 | 2.35 | 1.63 | 0.66 | 0.26 | 0.18 |
| (WY) | (1993) | (2004) | (1993) | (1991) | (1991) | (2004) | (2003) | (2003) | (1992) | (1992) | (1992) | (2003) |

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| | Calendar Year 2005 | Water Year 2006 | Water Years 1966-75, 1987-2006 |
|---------------------------------|---------------------------|------------------------|---------------------------------------|
| Annual total | 2,850.07 | 2,625.3 | |
| Annual mean | 7.81 | 7.19 | 3.75 |
| Highest annual mean | | | 8.65 |
| Lowest annual mean | | | 0.60 |
| Highest daily mean | 55 May 24 | 36 Apr 17 | 85 May 20, 1973 |
| Lowest daily mean | 0.40 Jan 7 | 1.1 Feb 26 | 0.03 Oct 2, 1992 |
| Annual seven-day minimum | 0.43 Jan 20 | 1.2 Feb 20 | 0.05 Apr 20, 2003 |
| Annual runoff (ac-ft) | 5,650 | 5,210 | 2,720 |
| 10 percent exceeds | 22 | 24 | 11 |
| 50 percent exceeds | 2.9 | 2.2 | 1.2 |
| 90 percent exceeds | 0.45 | 1.4 | 0.20 |

