

VIRGIN RIVER BASIN

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT

LOCATION.--Lat 37°20'22", long 112°36'13", in SE¼NE¼NW¼ sec. 14, T. 40 S., R. 7 W., Kane County, Hydrologic Unit 15010008, on right bank 50 ft downstream from Lydiás Creek, and 1.0 mi north of Glendale on U.S. Highway 89.

DRAINAGE AREA.--74.2 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and artificial control. Elevation of gage is 5,900 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. A few small diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft<sup>3</sup>/s, Jul 27, 1976, gage height, 4.14 ft, maximum gage height, 4.68 ft, Jul 10, 1999, affected by backwater, discharge unknown; minimum discharge, 2.9 ft<sup>3</sup>/s, several days in May and Jun 1989.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|--|------|--------------------------------|------------------|
| Aug 19 | 1645 | *125                           | *2.01            | No other peak greater than base discharge. |      |                                |                  |

Minimum discharge, 2.4 ft<sup>3</sup>/s, Oct. 27, gage height, 0.91 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 4.3   | 6.8   | 7.7   | 11    | 10    | 13    | 20    | 8.4   | 4.3   | 4.2   | 5.1   | 5.5   |
| 2     | 5.0   | 5.2   | 7.8   | 11    | 9.5   | 13    | 24    | 7.9   | 4.3   | 3.8   | 5.1   | 5.3   |
| 3     | 5.6   | 6.7   | 7.8   | 12    | 11    | 13    | 24    | 6.6   | 4.2   | 3.7   | 4.9   | 5.1   |
| 4     | 5.4   | 5.9   | 8.0   | 9.3   | 10    | 14    | 21    | 5.8   | 3.8   | 4.0   | 4.8   | 5.0   |
| 5     | 5.2   | 6.0   | 8.0   | 8.7   | 10    | 14    | 19    | 7.6   | 4.2   | 3.8   | 4.6   | 5.0   |
| 6     | 5.4   | 5.7   | 8.1   | 10    | 10    | 15    | 18    | 7.4   | 4.0   | 3.4   | 5.2   | 4.8   |
| 7     | 5.0   | 5.8   | 8.4   | 11    | 10    | 18    | 18    | 6.8   | 4.0   | 3.4   | 5.1   | 4.3   |
| 8     | 5.1   | 5.5   | 11    | 11    | 10    | 21    | 18    | 6.6   | 3.7   | 3.4   | 5.2   | 4.3   |
| 9     | 5.1   | 5.8   | 8.1   | 11    | 10    | 24    | 19    | 6.5   | 3.7   | 3.3   | 4.9   | 4.5   |
| 10    | 5.1   | 7.4   | 7.7   | 11    | 10    | 27    | 18    | 6.3   | 3.8   | 3.3   | 4.5   | 4.8   |
| 11    | 4.8   | 6.4   | 8.0   | 11    | 10    | 27    | 16    | 6.3   | 3.8   | 3.4   | 4.4   | 4.5   |
| 12    | 4.4   | 6.9   | 8.1   | 11    | 9.4   | 27    | 12    | 6.3   | 3.5   | 3.5   | 4.3   | 4.5   |
| 13    | 4.8   | 11    | 8.0   | 11    | 9.9   | 27    | 10    | 6.1   | 3.4   | 3.5   | 4.3   | 4.4   |
| 14    | 5.1   | 6.8   | 8.4   | 11    | 10    | 27    | 11    | 5.7   | 3.4   | 4.1   | 4.3   | 4.2   |
| 15    | 5.1   | 6.6   | 8.4   | 11    | 10    | 27    | 11    | 5.2   | 3.2   | 4.2   | 4.3   | 4.2   |
| 16    | 5.2   | 5.5   | 7.7   | 11    | 11    | 26    | 11    | 5.5   | 3.7   | 4.2   | 4.5   | 4.2   |
| 17    | 5.4   | 5.5   | 8.0   | 11    | 11    | 26    | 12    | 5.4   | 4.0   | 3.7   | 5.1   | 4.3   |
| 18    | 5.7   | 5.5   | 8.4   | 11    | 12    | 26    | 14    | 4.7   | 3.8   | 3.9   | 5.4   | 4.6   |
| 19    | 5.7   | 5.5   | 8.6   | 11    | 12    | 26    | 13    | 4.7   | 3.6   | 3.7   | 21    | 9.5   |
| 20    | 5.1   | 5.5   | 8.6   | 11    | 11    | 25    | 12    | 4.5   | 3.5   | 5.1   | 16    | 5.1   |
| 21    | 5.3   | 5.8   | 8.9   | 10    | 12    | 24    | 11    | 4.3   | 3.7   | 5.2   | 11    | 4.7   |
| 22    | 5.7   | 6.1   | 8.3   | 10    | 13    | 23    | 11    | 4.1   | 3.6   | 4.6   | 9.4   | 4.9   |
| 23    | 4.9   | 5.5   | 8.0   | 10    | 13    | 23    | 10    | 4.0   | 3.5   | 4.5   | 8.7   | 5.0   |
| 24    | 5.7   | 6.4   | 8.0   | 11    | 14    | 22    | 11    | 4.4   | 3.5   | 4.6   | 7.8   | 5.2   |
| 25    | 5.7   | 7.7   | 13    | 11    | 14    | 20    | 10    | 3.9   | 3.7   | 4.9   | 6.7   | 5.3   |
| 26    | 5.9   | 7.4   | 27    | 10    | 15    | 20    | 9.8   | 3.6   | 3.7   | 5.5   | 5.5   | 5.7   |
| 27    | 5.5   | 7.2   | 15    | 13    | 14    | 19    | 8.4   | 3.7   | 4.5   | 5.8   | 4.9   | 5.3   |
| 28    | 5.5   | 7.3   | 11    | 13    | 13    | 18    | 7.8   | 3.8   | 4.4   | 5.6   | 4.6   | 5.0   |
| 29    | 5.5   | 7.7   | 10    | 11    | 12    | 18    | 8.0   | 4.2   | 4.5   | 5.6   | 5.1   | 7.5   |
| 30    | 6.3   | 7.8   | 12    | 11    | ---   | 17    | 8.7   | 4.2   | 4.4   | 5.7   | 5.6   | 7.3   |
| 31    | 7.0   | ---   | 11    | 11    | ---   | 16    | ---   | 4.3   | ---   | 4.9   | 4.7   | ---   |
| TOTAL | 165.5 | 194.9 | 297.0 | 337.0 | 326.8 | 656   | 416.7 | 168.8 | 115.4 | 132.5 | 197.0 | 154.0 |
| MEAN  | 5.34  | 6.50  | 9.58  | 10.9  | 11.3  | 21.2  | 13.9  | 5.45  | 3.85  | 4.27  | 6.35  | 5.13  |
| MAX   | 7.0   | 11    | 27    | 13    | 15    | 27    | 24    | 8.4   | 4.5   | 5.8   | 21    | 9.5   |
| MIN   | 4.3   | 5.2   | 7.7   | 8.7   | 9.4   | 13    | 7.8   | 3.6   | 3.2   | 3.3   | 4.3   | 4.2   |
| AC-FT | 328   | 387   | 589   | 668   | 648   | 1,300 | 827   | 335   | 229   | 263   | 391   | 305   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2004, BY WATER YEAR (WY)

|      |        |        |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 13.0   | 14.7   | 15.5   | 16.1   | 18.4   | 24.0   | 34.5   | 27.2   | 13.9   | 10.6   | 10.4   | 10.5   |
| MAX  | 22.5   | 24.6   | 30.2   | 26.2   | 36.4   | 54.3   | 145    | 131    | 43.6   | 28.3   | 26.6   | 24.7   |
| (WY) | (1984) | (1984) | (1967) | (1980) | (1980) | (1993) | (1980) | (1980) | (1980) | (1983) | (1983) | (1980) |
| MIN  | 5.34   | 6.50   | 8.59   | 9.40   | 9.90   | 11.5   | 8.45   | 5.34   | 3.83   | 3.86   | 3.36   | 4.69   |
| (WY) | (2004) | (2004) | (2003) | (1991) | (1991) | (1999) | (2002) | (2002) | (2002) | (2003) | (2002) | (2003) |

VIRGIN RIVER BASIN

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT—Continued

| SUMMARY STATISTICS       | FOR 2003 CALENDAR YEAR |        | FOR 2004 WATER YEAR |        | WATER YEARS 1967 - 2004 |              |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL             | 2,845.9                |        | 3,161.6             |        | 17.4                    |              |
| ANNUAL MEAN              | 7.80                   |        | 8.64                |        | 8.26                    |              |
| HIGHEST ANNUAL MEAN      |                        |        |                     |        | 46.2                    | 1980         |
| LOWEST ANNUAL MEAN       |                        |        |                     |        | 8.26                    | 1990         |
| HIGHEST DAILY MEAN       | 30                     | Mar 16 | 27                  | Dec 26 | 285                     | Apr 21, 1980 |
| LOWEST DAILY MEAN        | 3.0                    | Jul 13 | 3.2                 | Jun 15 | 3.0                     | Aug 7, 2002  |
| ANNUAL SEVEN-DAY MINIMUM | 3.2                    | Jul 8  | 3.4                 | Jul 6  | 3.0                     | Aug 28, 2002 |
| ANNUAL RUNOFF (AC-FT)    | 5,640                  |        | 6,270               |        | 12,590                  |              |
| 10 PERCENT EXCEEDS       | 12                     |        | 16                  |        | 26                      |              |
| 50 PERCENT EXCEEDS       | 6.8                    |        | 6.6                 |        | 14                      |              |
| 90 PERCENT EXCEEDS       | 4.2                    |        | 3.9                 |        | 6.4                     |              |

