

GREEN RIVER BASIN

1

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT

LOCATION.--Lat 39°52'33", long 111°02'12", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 9, T. 11 S., R. 8 E., Utah County, Hydrologic Unit 14060007, 50 ft downstream from bridge on U.S. Highways 6-50, 1.5 mi downstream from Tabbyune Creek, 2.5 mi northwest of the Colton railroad siding, and 4.5 mi southeast of Soldier Summit.

DRAINAGE AREA.--75.6 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1967 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,230 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 962 ft<sup>3</sup>/s, May 27, 1983, gage height, 5.82 ft; no flow many days Aug and Sep 1977 and 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Mar 25 | 2345 | *52                               | *1.81               |      |      |                                   |                     |

Minimum daily discharge, 0.42 ft<sup>3</sup>/s, Aug 15.

**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     | 2.1  | 3.6   | e3.3 | e2.8 | e3.0  | e3.2  | 36    | e42   | 15    | 7.6   | 2.0   | 0.58  |
| 2     | 2.2  | 3.8   | e2.9 | e3.0 | e3.3  | e3.1  | 39    | e41   | 14    | 6.7   | 2.7   | 0.47  |
| 3     | 4.7  | 4.1   | e2.9 | e3.1 | e3.3  | e3.3  | 49    | e40   | 13    | 6.1   | 3.0   | 0.50  |
| 4     | 3.2  | 4.0   | e2.9 | e2.8 | e3.5  | e3.1  | 48    | e39   | 12    | 6.5   | 2.4   | 0.70  |
| 5     | 2.8  | e3.9  | e3.0 | e2.5 | e3.6  | e3.4  | 47    | 43    | 12    | 6.2   | 2.3   | 0.87  |
| 6     | 2.9  | e3.8  | e3.1 | e2.5 | e3.3  | e3.2  | 45    | 45    | 11    | 5.6   | 2.1   | 0.90  |
| 7     | 2.8  | e3.7  | e3.1 | e2.6 | e3.5  | e3.8  | 45    | 44    | 10    | 5.3   | 1.8   | 0.90  |
| 8     | 3.0  | 3.6   | e2.9 | e2.7 | e3.5  | e4.0  | 42    | 42    | 9.5   | 4.9   | 1.4   | 0.81  |
| 9     | 2.9  | 3.9   | e2.8 | e2.8 | e3.2  | e3.9  | 39    | 39    | 9.0   | 4.6   | 1.1   | 0.70  |
| 10    | 2.9  | 4.1   | e2.9 | e2.7 | e2.9  | e4.7  | 41    | 36    | 11    | 4.7   | 0.81  | 0.59  |
| 11    | 2.8  | 4.1   | e3.0 | e2.8 | e3.1  | e4.6  | 46    | 34    | 13    | 4.2   | 0.60  | 0.49  |
| 12    | 2.8  | 3.7   | e3.0 | e3.0 | e2.6  | e6.9  | 43    | 34    | 11    | 3.9   | 0.45  | 0.54  |
| 13    | 2.9  | 4.0   | e3.1 | e3.0 | e2.8  | e8.0  | 43    | 32    | 11    | 3.6   | e0.44 | 0.63  |
| 14    | 3.0  | 4.2   | e3.2 | e2.8 | e3.2  | e8.0  | 43    | 30    | 10    | 4.1   | e0.43 | 0.64  |
| 15    | 2.9  | 3.7   | e2.9 | e2.9 | e3.2  | e7.8  | 41    | 28    | 9.6   | 4.3   | e0.42 | 0.65  |
| 16    | 3.0  | 3.7   | e2.6 | e3.0 | e3.6  | e7.6  | 41    | 27    | 9.2   | 4.5   | e0.50 | 0.57  |
| 17    | 3.0  | 4.3   | e2.7 | e2.9 | e3.8  | e10   | 41    | 26    | 10    | 4.4   | 0.67  | 0.70  |
| 18    | 3.1  | e3.6  | e2.7 | e3.1 | e4.0  | e13   | 44    | 25    | 11    | 4.1   | 1.1   | 0.84  |
| 19    | 3.0  | e3.6  | e2.8 | e3.2 | e3.8  | e13   | 42    | 24    | 9.6   | 3.6   | 2.6   | 1.2   |
| 20    | 3.1  | e3.8  | e3.0 | e3.2 | e3.5  | e12   | e42   | 23    | 8.4   | 3.3   | 2.6   | 1.6   |
| 21    | 3.1  | e3.5  | e3.1 | e3.0 | e3.7  | e20   | e42   | 23    | 7.8   | 2.8   | 1.9   | 1.5   |
| 22    | 3.1  | e3.1  | e3.0 | e3.0 | e4.1  | e30   | e42   | 21    | 7.5   | 2.7   | 1.5   | 1.5   |
| 23    | 3.1  | e2.6  | e2.9 | e3.5 | e4.1  | 46    | e43   | 21    | 7.2   | 3.0   | 1.5   | 1.6   |
| 24    | 3.2  | e2.7  | e2.8 | e3.4 | e3.7  | 46    | e40   | 22    | 6.7   | 2.9   | 1.6   | 1.6   |
| 25    | 3.0  | e2.7  | e3.0 | e3.7 | e3.8  | 46    | e40   | 20    | 6.9   | 2.9   | 1.6   | 1.7   |
| 26    | 2.9  | e3.0  | e2.9 | e3.6 | e3.9  | 47    | e41   | 20    | 9.2   | 2.8   | 1.3   | 1.6   |
| 27    | 2.9  | e2.9  | e2.6 | e3.5 | e3.4  | 38    | e42   | 19    | 7.9   | 4.0   | 1.2   | 1.7   |
| 28    | 3.1  | e2.8  | e2.6 | e3.7 | e3.5  | 34    | e43   | 18    | 7.5   | 3.8   | 1.1   | 1.8   |
| 29    | 3.2  | e2.9  | e2.6 | e4.0 | e3.3  | 30    | e45   | 19    | 8.4   | 3.2   | 0.93  | 2.1   |
| 30    | 3.1  | e3.1  | e2.7 | e3.9 | ---   | 30    | e43   | 17    | 8.7   | 2.7   | 0.84  | 3.0   |
| 31    | 3.5  | ---   | e2.9 | e3.6 | ---   | 32    | ---   | 16    | ---   | 2.0   | 0.70  | ---   |
| TOTAL | 93.3 | 106.5 | 89.9 | 96.3 | 100.2 | 525.6 | 1,278 | 910   | 297.1 | 131.0 | 43.59 | 32.98 |
| MEAN  | 3.01 | 3.55  | 2.90 | 3.11 | 3.46  | 17.0  | 42.6  | 29.4  | 9.90  | 4.23  | 1.41  | 1.10  |
| MAX   | 4.7  | 4.3   | 3.3  | 4.0  | 4.1   | 47    | 49    | 45    | 15    | 7.6   | 3.0   | 3.0   |
| MIN   | 2.1  | 2.6   | 2.6  | 2.5  | 2.6   | 3.1   | 36    | 16    | 6.7   | 2.0   | 0.42  | 0.47  |
| AC-FT | 185  | 211   | 178  | 191  | 199   | 1,040 | 2,530 | 1,800 | 589   | 260   | 86    | 65    |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

## GREEN RIVER BASIN

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT—Continued

| SUMMARY STATISTICS       | FOR 2003 CALENDAR YEAR | FOR 2004 WATER YEAR | WATER YEARS 1968 - 2004 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 4,845.6                | 3,704.47            |                         |
| ANNUAL MEAN              | 13.3                   | 10.1                |                         |
| HIGHEST ANNUAL MEAN      |                        |                     | 26.5                    |
| LOWEST ANNUAL MEAN       |                        |                     | 61.9                    |
| HIGHEST DAILY MEAN       | 100                    | May 17              | 2.21                    |
| LOWEST DAILY MEAN        | 1.7                    | Sep 17              | 1983                    |
| ANNUAL SEVEN-DAY MINIMUM | 1.9                    | Sep 21              | 1977                    |
| ANNUAL RUNOFF (AC-FT)    | 9,610                  | 7,350               | 927 May 27, 1983        |
| 10 PERCENT EXCEEDS       | 43                     | 40                  | 0.00 Aug 6, 1977        |
| 50 PERCENT EXCEEDS       | 3.7                    | 3.5                 | 0.00 Aug 6, 1977        |
| 90 PERCENT EXCEEDS       | 2.6                    | 1.5                 |                         |

e Estimated

