

**373325104002701 SOUTH FORK BIG ARROYO AT PINON CANYON MANEUVER SITE NEAR HOUGHTON, CO**

Upper Arkansas Basin  
Upper Arkansas-Lake Meredith Subbasin

LOCATION.--Lat 37°33'25.3", long 104°00'27.3" referenced to North American Datum of 1983, in NE ¼ NE ¼ sec.4, T.29 S., R.59 W., Las Animas County, CO, Hydrologic Unit 11020005, on Pinon Canyon Maneuver Site on left bank, 0.7 mi upstream from mouth, 2.9 mi southeast of Houghton, and 5.6 mi east of Thatcher.

DRAINAGE AREA.--1.77 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--March 2006 to September 2011, discontinued (annual maximum only).

GAGE.--Crest-stage gage. Elevation of gage is 5,311 ft above NAVD of 1988, from Global Positioning System technology.

REMARKS.--Natural flow of stream may be affected by erosion-control and livestock-watering reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72 ft<sup>3</sup>/s, July 21, 2009, gage height, 5.60 ft, from step-backwater hydraulic analysis; no flow most days most years.

**MAXIMUM PEAK DISCHARGE  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

| Date | Discharge,<br>in ft <sup>3</sup> /s | Discharge<br>qualification<br>code | Gage height,<br>in ft | Gage height<br>qualification<br>code |
|------|-------------------------------------|------------------------------------|-----------------------|--------------------------------------|
| 2006 | 0.0                                 | ---                                | ---                   | ---                                  |

**MAXIMUM PEAK DISCHARGE  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

| Date | Discharge,<br>in ft <sup>3</sup> /s | Discharge<br>qualification<br>code | Gage height,<br>in ft | Gage height<br>qualification<br>code |
|------|-------------------------------------|------------------------------------|-----------------------|--------------------------------------|
| 2007 | 0.0                                 | ---                                | ---                   | ---                                  |

**MAXIMUM PEAK DISCHARGE  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

| Date | Discharge,<br>in ft <sup>3</sup> /s | Discharge<br>qualification<br>code | Gage height,<br>in ft | Gage height<br>qualification<br>code |
|------|-------------------------------------|------------------------------------|-----------------------|--------------------------------------|
| 2008 | 0.0                                 | ---                                | ---                   | ---                                  |

## 373325104002701 SOUTH FORK BIG ARROYO AT PINON CANYON MANEUVER SITE NEAR HOUGHTON, CO—Continued

**MAXIMUM PEAK DISCHARGE**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

| Date         | Discharge,<br>in ft <sup>3</sup> /s | Discharge<br>qualification<br>code | Gage height,<br>in ft | Gage height<br>qualification<br>code |
|--------------|-------------------------------------|------------------------------------|-----------------------|--------------------------------------|
| Jul 21, 2009 | <sup>a</sup> 72                     | ---                                | 5.60                  | ---                                  |

<sup>a</sup> From step-backwater hydraulic analysis.

**MAXIMUM PEAK DISCHARGE**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

| Date     | Discharge,<br>in ft <sup>3</sup> /s | Discharge<br>qualification<br>code | Gage height,<br>in ft | Gage height<br>qualification<br>code |
|----------|-------------------------------------|------------------------------------|-----------------------|--------------------------------------|
| Mar 2010 | <sup>a</sup> 3.0                    | B                                  | 4.57                  | ---                                  |

<sup>a</sup> From step-backwater hydraulic analysis.

Discharge qualification code:

B - Month or day of occurrence is unknown or not exact

**MAXIMUM PEAK DISCHARGE**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

| Date | Discharge,<br>in ft <sup>3</sup> /s | Discharge<br>qualification<br>code | Gage height,<br>in ft | Gage height<br>qualification<br>code |
|------|-------------------------------------|------------------------------------|-----------------------|--------------------------------------|
| 2011 | 0.0                                 | ---                                | ---                   | ---                                  |