

## 11416000 BOWMAN-SPAULDING CANAL INTAKE NEAR GRANITEVILLE CA

**LOCATION.**--Lat 39°26'23.5" N, long 120°39'32.7" W referenced to North American Datum of 1927, Nevada County, CA, Hydrologic Unit 18020125, Tahoe National Forest on left bank 0.6 mi downstream from Bowman Dam, 4.2 mi east of Graniteville, and 8.5 mi south of Sierra City.

**ESTABLISHMENT AND HISTORY.**--June 28, 1927 by Nevada Irrigation District at site 0.3 mi upstream. Station rebuilt by USGS July 1, 1965. Station and canal rebuilt by Nevada Irrigation District June 2016 and the CMP gage was replaced by concrete well and block house, located on the right side of the canal.

**GAGE.**--Float operated Design Analysis encoder and a Design Analysis H-500 XL datalogger connected to a Design Analysis H-222 DASE GOES satellite transmitter and a Tele Design radio, housed in concrete well and shelter on right bank. Measuring bridge is located 10' downstream from gage. The canal and gage were reconstructed in June 2016.

Outside gage is vertical staff opposite of gage well; limits 0 to 6.74'. The inside staff in well has limits from 0 to 6.74 feet.

Datum of gage is 5,390.39' above mean sea level.

**CONTROL.**—All flows: rectangular section, canal banks, channel, and steel control plate installed at the end of the rectangular section. Some shifting is due to algae growth and rocks in channel. The canal and gage were reconstructed in June, 2016.

**WINTER FLOW.**--Rarely ice affected.

**REGULATION AND DIVERSIONS.**--Flow regulated by Bowman Dam. Water is diverted to Bowman Lake from the Middle Yuba River via the Milton-Bowman tunnel.

**ACCURACY.**--Good.

**COOPERATION.**--NID operates this site. USGS reviews and publishes the data.

**JUSTIFICATION.**--Required under FERC license 2266 to record diversion from Bowman Lake to Spaulding Lake.