

## 11415500 BOWMAN LAKE NEAR GRANITEVILLE CA

**LOCATION.**--Lat 39°27'01", long 120°39'09" referenced to North American Datum of 1927, in SE 1/4 SW 1/4 sec.5, T.18 N., R.12 E., Nevada County, CA, Hydrologic Unit 18020125, on right bank, near rockfill portion of Bowman Dam on Canyon Creek, 4.6 mi east of Graniteville, and 8 mi south of Sierra City.

**DRAINAGE AREA.**--27.1 mi<sup>2</sup>.

**ESTABLISHMENT AND HISTORY.**--Staff gage established by Nevada Irrigation District, December 1926. Recording gage installed by USGS in September 1964.

**GAGE.**--Design Analysis H-350XL datalogger, Design Analysis H-355 bubbler, with a Design Analysis H-222 DASE GOES Satellite Transmitter and a Teledesign radio in a concrete block building near right abutment of rockfill dam. Datum of gage is at mean sea level.

Outside gages are on 18 vertical and on 6 sloping staffs.

**FLOODS.**--Maximum contents, 71,000 acre-ft, May 30, 1965, elevation 5,566.5'.

**REGULATION AND DIVERSIONS.**-- Water is diverted from Middle Yuba River through Milton Bowman tunnel, capacity 490 cfs. Discharge normally released through outlet tunnel and valve in left bank side of rock-fill dam.

**ACCURACY.**--Good.

**COOPERATION.**--Nevada Irrigation District operates the gage.

**JUSTIFICATION.**--Required under FERC license 2266. Storage in a major reservoir.

**REMARKS.**--Total capacity, 68,700 acre-ft between elevations 5400', bottom of outlet tunnel and 5,563.6', crest of concrete arch dam. Flashboards are occasionally added raising elevation to 5565.8', and capacity to 70,400 acre-ft. A portion of the concrete arch dam has radial gates, which are required to be raised in October and may be closed in the spring. The elevation of the crest under the spillway gates is 5,557.90'.

Bowman spills at:

5557.90' when gates are open (63,720 AF)

5563.60' when gates are closed (68,510 AF)