



Water-Data Report 2006

**10301300 Walker River Below Mason Valley Wildlife Management Area  
at Railroad Crossing Near Wabuska, NV**

Walker Basin  
Walker Subbasin

LOCATION.--Lat 39°07'41.4", long 119°07'00.1" referenced to North American Datum of 1983, in NW ¼ NW ¼ NE ¼ sec.31, T.15 N., R.26 E., Lyon County, NV, Hydrologic Unit 16050303.

**SURFACE-WATER RECORDS**

REMARKS.--Walker Lake is a perennial, natural terminal lake that became at-risk because of upstream agricultural diversions. Between 1882 and 1994, upstream diversions caused Walker Lake to decline about 140 feet and the total dissolved solids (TDS) concentrations to increase from 2,500 mg/L to 13,300 mg/L. The Lahontan cutthroat trout (LCT), a threatened species that is native to Walker Lake, has adapted to the high TDS of terminal basins. However, diversions have lowered lake levels and increased TDS to concentrations that threaten the survival of the LCT. The objectives of this project are to develop (1) an improved water budget for Walker Lake and (2) the capability to predict how changes in irrigation practices in and below Mason Valley will affect flows in the lower Walker River so alternatives for supplementing flows can be evaluated.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>	<b>Gage height, in ft</b>
Nov 28, 2005	54.1	---
Nov 28, 2005	53.3	---
Nov 28, 2005	53.5	---