## NEVADA CREEK DAM

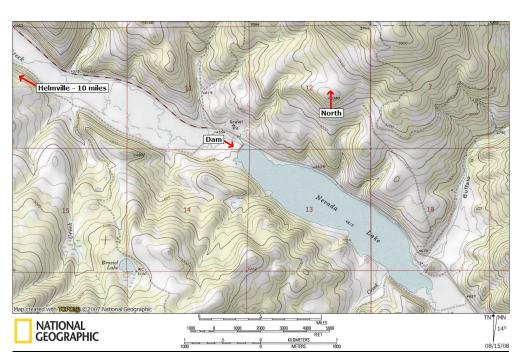
### Fact Sheet

## PROJECT DESCRIPTION

- ◆ Located on Nevada Creek in Powell County, adjacent to State Hwy 141, between Avon and Helmville
- ♦ Construction completed in 1938
- ♦ Owned by DNRC & managed by SWPB
- ♦ Operated by Nevada Creek WUA since 1939
- Project consists of:
  - Earthfill Dam, 105 feet high, 1,083 feet long
  - Uncontrolled ogee crest concrete chute spillway
  - 5-foot diameter 400 foot-long and 6-foot diameter 140 foot-long, gated, reinforced concrete outlet conduit
  - 54-inch butterfly operating gate and 54-inch diameter slide guard gate
- ♦ Normal storage at spillway crest is 11,152 acre-feet, covering 368 surface acres
- ♦ The dam is a "high hazard" structure which means that its failure could cause loss of life. Numerous houses, roads, bridges, canals and utilities are located in the flood plain below the dam.



- ♦ 8,440 acre-feet through 35 contracts with two canals: Douglas Canal (12.7 miles long) and North Canal (13.4 miles long)
- Water primarily used for irrigation but also used for water-based recreation and regulation of stream flows





# **REHABILITATION SUMMARY**

Nevada Creek Dam was rehabilitated in 2001 – 2003. The rehabilitation project included:

- Replacement of the spillway
- Extension of the outlet works
- Installation of relief wells to reduce foundation pressures
- The addition of a toe berm to enhance embankment stability
- Project cost (design and construction): \$2,800,000 (2004)

# **FUTURE NEEDS**

The dam was rehabilitated from 2001 - 2003 and meets or exceeds all current safety standards. No deficiencies currently exist.



Upstream Face



Outlet



Spillway