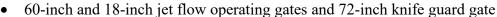
Fact Sheet

### UDY DAN

## PROJECT DESCRIPTION

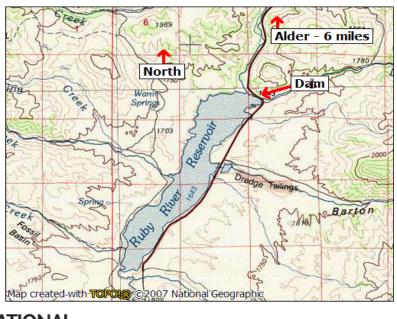
- ◆ Located on the Ruby River in Madison County, 7 miles south of Alder
- ♦ Construction completed in 1938
- ♦ Owned by DNRC & managed by SWPB
- Operated by Ruby Water Users Association since 1938
- ◆ Project consists of:
  - Earthen Embankment Dam, 112.5 feet high, 846 feet long
  - Reinforced concrete chute spillway with 3-cycle labyrinth weir crest
  - 90 inch reinforced concrete outlet conduit upstream of gates; 72 inch steel conduit downstream of gates



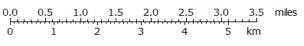
- Storage at full pool is 37,642 acre-feet, covering 970 surface acres.
- ♦ The dam is a "high hazard" structure which means that its failure could cause loss of life. Farms, ranches, numerous homes, roads, bridges, and utilities are located in the flood plain.

#### **WATER USE**

- ♦ 194 contracts for 38,845 acre-feet of water delivered through two canals: West Bench (12 miles long) and Vigilante (26 miles long) Canals
- ♦ Water is primarily used for irrigation; reservoir also used for water-based recreation and regulation of stream flows









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### **REHABILITATION SUMMARY**

A major rehabilitation of the Ruby Dam began in August 2010.

- ♦ Phase 1 of the rehabilitation included removing and replacing the spillway, and the development of a new maintenance access road. Phase 1 was completed in December 2011.
- ♦ Phase 2 of the project included constructing a new outlet works conduit, operating gates, gate operating system, and gate house. The majority of the construction was completed in the summer of 2014.
- Funding for the rehabilitation project came from numerous sources including: Hydropower Revenue, Water Storage Account, RRGL Grant and Loan, and the Ruby Water User's Association.
- Project costs (engineering and construction): \$16,970,000.

# **FUTURE NEEDS**

The rehabilitation project brings the dam into full compliance with current dam safety standards. No deficiencies currently exist.



Labyrinth weir spillway and footbridge



Spillway



Outlet works under construction



**Outlet Works Operational Test**