

DEADMAN'S BASIN DAM

Fact Sheet

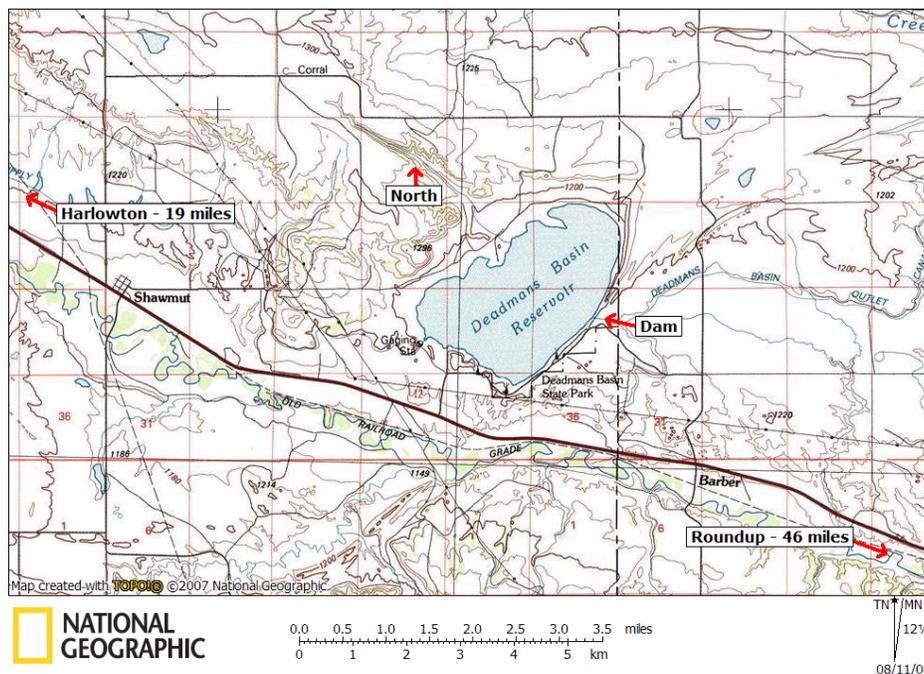
PROJECT DESCRIPTION

- ◆ Off-stream reservoir with supply canal from the Musselshell River, located 10 miles east of Harlowton in Wheatland County
- ◆ Construction completed in 1941. The dam was raised 10 feet in 1958.
- ◆ Owned by DNRC & managed by the SWPB
- ◆ Operated by Deadman's Basin Water Users Association since 1959
- ◆ Project consists of:
 - Earthen Embankment Dam: 60 feet high and 1,490 feet long
 - Earthen Embankment Dike: 18 feet high and 2,950 feet long
 - 300 foot long horseshoe-shaped reinforced concrete outlet tunnel, with 102' foot long 8' concrete box culvert extension and two 60 x 60-inch cast iron slide gates with vertical gate tower
 - 11.5 mile supply canal (600 cfs), two delivery canals (total 12.5 miles): Barber and Careless Creek
- ◆ Reservoir stores 72,218 acre-feet at normal full pool, covering 2,120 surface acres.
- ◆ The dam is a "high hazard" structure, which means that its failure could cause loss of life. Farms and ranches, roads, bridges, and utilities are located in the flood plain.



WATER USE

- ◆ 40,500 acre-feet through 134 contracts used for irrigation and municipal water (Melstone, Ryegate, and Roundup)
- ◆ Reservoir is a popular recreation site; MT Fish, Wildlife, and Parks maintains two day-use facilities



REHABILITATION SUMMARY

The Deadman's Basin Dam was rehabilitated in 2009 – 2011. The rehabilitation project involved extending the outlet, installing a filtration and drainage system to allow for the safe discharge of seepage, constructing a toe berm, and replacing the original gatehouse. Funding included a \$100,000 RRGL grant, \$400,000 RRGL loan, \$585,000 from the Water Storage Special Revenue Account, and \$65,000 from Deadman's Basin Water Users Association.

- ◆ 2009-2010 Outlet Extension Project Approximate Costs = \$780,000
- ◆ 2011 Gatehouse Replacement Project Approximate Costs = \$340,000

FUTURE NEEDS

The project was rehabilitated in 2009 – 20113 and meets or exceeds current dam safety standards. No deficiencies currently exist.



Terminal outlet structure



Gatehouse