
MEMORANDUM

Subject: **Bear River Basin Plan**
 BROADBENT RESERVOIR (also Heber Reservoir)

Date: March 10, 2001

Location: The original Heber Reservoir, permitted in 1906 (permit # 896 Res) was located in Sections 35 and 36, Township 13N, Range 119W. It was situated on Branch of Willow Creek, tributary to Willow Creek, tributary to Sulphur Creek, tributary to Bear River. The Broadbent Dam was constructed in 1990 approximately 400 feet downstream of the existing Heber Dam. The Broadbent Reservoir, therefore, includes the old Heber Reservoir storage.

Year of construction: 1910 Original Heber Reservoir
 1990 Broadbent Dam (Enlargement of Heber Reservoir)

Ownership: Joseph Broadbent. Contact George Thatcher (801) 225-3991

Total Storage: 893.54 acre-feet permitted capacity

Surface Area: 38.23 acres at full capacity

Dam Construction Type: Earth-fill with rock face

Water Rights: The table below represents the three permits that have been issued for the Broadbent / Heber Reservoir.

Ben Reservoir Permitted Storage Rights			
Permit No.	Priority	Volume (acre-feet)	Comments
896 Res	8-21-1906	388.50	<i>Pre-Compact Storage</i>
9018 Res	7-2-1980	503.86 active 1.68 dead 505.04 total	<i>Original Broadbent Reservoir storage right transferred to Heber Reservoir site – July 9, 1989, Board Docket No. 89-5-4</i>
TOTALS		893.54	

Designated Use: Irrigation and Stock

Recreational Use: None

Associated Irrigation Diversions: Broadbent diversions

Associated Industrial Diversions: None

Operational Discussion: The Broadbent Reservoir was initially permitted to be constructed in Bones Hollow, a tributary of LaChapelle Creek. On July 9, 1989, prior to construction of the reservoir, the Board of Control granted a petition to transfer the permitted rights to the site of the Heber Reservoir. The Broadbent Dam was constructed approximately 400 feet downstream of the Heber Dam, thus incorporating the Heber Reservoir into a single larger reservoir.

The original Heber water rights (388.5 acre-feet) pre-date the Bear River Compact, and hence are not subject to compact restrictions. The Broadbent Reservoir is also supplied via an extension of the Broadbent supply ditch.

In the 1999 Wyoming summary to the Bear River Commission we read; *“The Broadbent supply ditch which brings water from the Green River basin now has a recorder with telemetry, thus allowing the State Engineer to document imports. (with a portion of the flow bypassing the gage orifice, only 24.8 acre-feet were recorded over a period from July 31st to the end of the water year, averaging a flow of only 0.2 FS over 62 days.)”*

Resources:

- 1) *Water Right Permit filings, mapping and special limitations obtained from the Wyoming State Engineers Office.*
- 2) *Jade Henderson, 1999 Wyoming Summary for the Bear River Commission Biennial Report*