

## KEY STORAGE FACILITIES

**Reservoir:** TRACT 37

**Date:** 26 Feb. 2001

**Location:** SENW 31, T57N, R66W

**Owner:** F. A. BUSH & WYO BOARD OF LAND COMM.

**Year of Construction:** 1976

**Total Storage:** 2,454 acre-feet

**Active Storage:** 1,236.3 acre-feet

**Dead Storage:** 183.4 acre-feet



**Area/Capacity Data:** *(Source: Map accompanying permit for Tract 37 Reservoir, on file in SEO Safety of Dams office.)*

Contour	Area (acres)	Average (acres)	Capacity (af)	
86	0			↑
		3.45	17.25	
91	6.89			
		22.07	110.35	↑ Inactive Storage ↓
96	37.25			
		61.13	183.375	↑
99	85			
		101.08	202.15	
101	117.15			↑ Irrigation ↓
		147.70	738.5	
106	178.25			
		197.125	295.69	↑ Flood Storage ↓
107.5	216			
		259.125	906.94	
111	302.25			↓
Total Available Capacity			2454.26	

**Dam Construction Type:** Earth Fill

**Outlet:** Twenty-four-inch corrugated metal pipe (method of controlling flow not available)

**Spillway:** Principal: Sixty-six-inch corrugated metal pipe

**End-of-Month Storage Records:** No

**Water Rights:** *(Source: Tabulation of Adjudicated Surface Water Rights of the State of Wyoming, Water Division Number Two, Oct. 1999)*

Reservoir	Permit Number	Permitted Use	Priority Date	Volume (af)	Headgate Location (S-T-R)
Tract 37	7610R	I,S	01-02-1974	1252.96	T 37-57-066

**Designated Use:** Irrigation, flood control, and stock

**Associated Irrigation Diversions:** Information not available.

**References:** *Map to Accompany Application for Permit, Tract 37 Reservoir,*  
F.A. Bush, Inc., 1974.



*Net evaporative storage loss for Tract 37 Reservoir:*

Lewis Annual Evaporation (in.) 41  
 Total Storage (acre-feet) 2,454

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average percent of storage	52.1	55.7	63.8	67.0	73.3	74.9	73.5	71.3	69.2	51.6	51.3	51.5
Generated storage (acre-feet)	1278	1366	1565	1643	1800	1837	1803	1750	1699	1265	1259	1263
Corresponding area (acres)	236.7	241.6	252.7	257.0	265.8	267.8	266.0	263.0	260.2	236.0	235.6	235.8

**Calculations:**

Monthly Lewis Evap. (inches)	1.107	1.025	1.599	3.28	4.715	5.371	7.011	6.396	4.715	3.116	1.599	1.066
Monthly Precipitation (inches)	0.25	0.25	0.75	1.25	2.75	2.75	1.75	1.25	1.25	1.25	0.75	0.75
Net Evaporation (inches)	0.857	0.775	0.849	2.03	1.965	2.621	5.261	5.146	3.465	1.866	0.849	0.316
<b>Total Net Evaporation (acre-feet)</b>	17	16	18	43	44	58	117	113	75	37	17	6
												<b>560</b>