

KEY STORAGE FACILITIES

Reservoir: GILLETTE (or BURLINGTON LAKE/FISHING LAKE)

Date: 26 Feb. 2001

Location: SWNE 22, T50N, R72W

Owner: City of Gillette Parks and Recreation Department

Year of Construction: 1908

Total Storage: 2,680 acre-feet

Active Storage: 2,080 acre-feet



Note: This is probably not accurate, given the lake's silting problems.

Dead Storage: 2080 acre-feet

Area/Capacity Data: *(Source: "Proposed Ditch and Reservoir," by CB&Q Ry, Feb. 1907, on file in Safety of Dams office, SEO, Cheyenne, Wyoming.)*

Contour	Incremental Capacity (af)	
47-52	22.82	
52-57	347.3	
57-62	470.2	
62-65	546.8	
47-65		1392.5 Nat. Capacity
65-67	260	
67-72	741	
47-72		2393.5 Capacity with dikes holding 25 feet of water

Dam Construction Type: Earth Fill

Outlet: No operational outlet

Spillway: Principal spillway: Twelve-inch corrugated metal pipe

Auxiliary: Once the flow capacity for the outlet has been exceeded, the lake spills over the roadway over the outlet 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)
Gillette	1046R	RR	03-20-1907	2080	22-50-072

Designated Use: Water Supply

Recreational Use: Trout fishery (bowheads, trout suckers, miscellaneous fish from residents), fishing, non-motorized boating

Associated Irrigation Diversions: None

Associated Industrial Diversions: None

Operational Discussion: Gillette Lake is constructed on the main stem of Donkey Creek, receiving all of the creek's flows and spilling through its outlet (or in cases of severe rainstorms, spilling over the road above the outlet).

The Wyoming Game and Fish Department takes care of the fishery, including occasional poisonings to clean out the lake in preparation for stocking. The property around the lake includes a city park and baseball fields, but the lake is not used for irrigation.

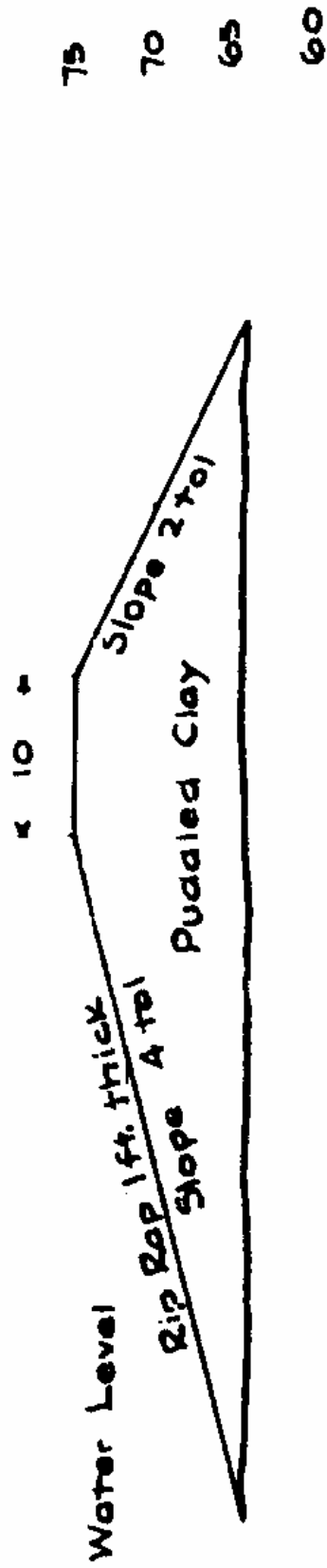
In general, the City of Gillette's Parks and Recreation Department maintains the lake at a constant level. As a result, the lake constantly loses capacity to silting. The Parks and Recreation Department dredged the lake 13 years ago, and conversations indicate that it will need to be done again soon. The lake is experiencing a burgeoning cattail population and its shore is seeing much erosion from wave action.

References: City of Gillette Parks and Recreation superintendent Larry Larson, interview, 26 Feb. 2001.

Map to Accompany Application, Proposed Ditch and Reservoir, Gillette, Wyo., C B & Q Ry Lines West, Feb. 1907

Gillette Lake Dam cross section (Source: "Map to Accompany Application, Proposed Ditch and Reservoir, Gillette, Wyo.," on file in Safety of Dams office, SEO, Cheyenne, Wyoming.):

CROSS-SECTION OF DIKE



No net evaporation data are available for Gillette Fishing Lake.