

Evaporation from Deep Creek Lake

by
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The question has come up as to how much evaporation there is from the lake surface.

There is no specific data for Deep Creek Lake, but there is data for the Savage River Reservoir

From: Table 1, p.34 of NOAA Technical Report NWS 34

Mean Monthly, Seasonal, and Annual Pan Evaporation for the United States

Washington, D.C. December 1982,

The mean monthly Class A Pan evaporation, in inches, is:

Apr	May	June	July	Aug	Sept	Oct
5.	5.42	5.8	5.98	5.36	4.17	2.72

The coefficient of variation (standard deviation/mean) for these means are:

Apr	May	June	July	Aug	Sept	Oct
***	9	6	10	13	18	11

This data represents average values from 11 to 37 years of record. The summarized data was extracted from measurements made during 1956-1970.

The sum of these numbers is 34.46 inches.

The seasonal (May-Oct) average is 29.46 inches .

Deep Creek Lake and Savage River Reservoir are very likely to be similar in their evaporation characteristics.

Assuming that they are similar, the actual lake evaporation is roughly 0.70 to 0.75 times the pan evaporation.

Thus, Deep Creek Lake can expect to loose about $0.75 \times 34.46 = 25.8$ inches of water via evaporation, or about 2.2 ft per year.

Casting these numbers in inches/day gives:

The mean daily evaporation from the lake, in inches/day, is:

Apr	May	June	July	Aug	Sept	Oct
0.09	0.13	0.15	0.15	0.13	0.1	0.066

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