08136600 O. H. Ivie Reservoir near Voss, TX

Middle Colorado-Concho Basin
Middle Colorado Subbasin

LOCATION.--Lat 31°30′00″, long 99°40′05″ referenced to North American Datum of 1927, Coleman County, TX, Hydrologic Unit 12090106, on left bank, in outlet structure of Freese-Nichols Dam on Colorado River, 8.0 mi northeast of Millersview, 10.0 mi southwest of Voss, and at mile 615.1.

DRAINAGE AREA.--24,038 mi^2 of which 11,391 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Sept. 1990 to Sept. 2003 (daily mean contents), Oct. 2003 to Sept. 2004 (daily mean elevation), Oct. 2004 to current year.

GAGE.--Water-stage recorder. Datum of gage determined from Colorado River Municipal Water District survey point (vertical control unknown). Satellite telemeter at station.

COOPERATION.--Records of diversions may be obtained from the Colorado River Municipal Water District.

REMARKS.--Records good except those for estimated daily contents, which are poor. The lake is formed by a concrete dam and spillway with six 50- by 40-foot tainter gates, and a 6,000 ft overflow spillway with a 2,000 ft tapered fuse plug release feature. Total length of the dam is 12,000 ft. The dam was completed and storage began Mar. 15, 1990. Recording equipment was installed May 30, 1990, but water did not reach the sensing point until Sept. 21, 1990 (at an elevation of 1,502.05 ft). The dam is owned by the Colorado River Municipal Water District. Water is utilized for municipal use for several West Texas communities, the city of San Angelo being the largest user. The capacity curve is based on a survey made in 1989 by Freese and Nichols, Consulting Engineers, Fort Worth, TX. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	1,584.0
Crest of overflow spillway	1,563.0
Crest of spillway (tainter gates sill)	1,528.0
Lowest gated outlet (service outlet)	1,440.0

EXTREMES FOR PERIOD OF RECORD.--Sept. 1990 to Sept. 2003, Oct. 2004 to current year: Maximum contents, 574,700 acre-ft, June 26, 1997; minimum contents after initial filling, 162,700 acre-ft, Oct. 3, 4, 5, 2004; Sept. 1990 to current year: Maximum elevation, 1,552.55 ft, June 26, 1997; minimum elevation, 1,522.05 ft, Oct. 3, 4, 5, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 248,400 acre-ft, Oct. 1, gage height, 1,531.07 ft; minimum contents, 198,200 acre-ft, Sept. 30, gage height, 1,526.15 ft.

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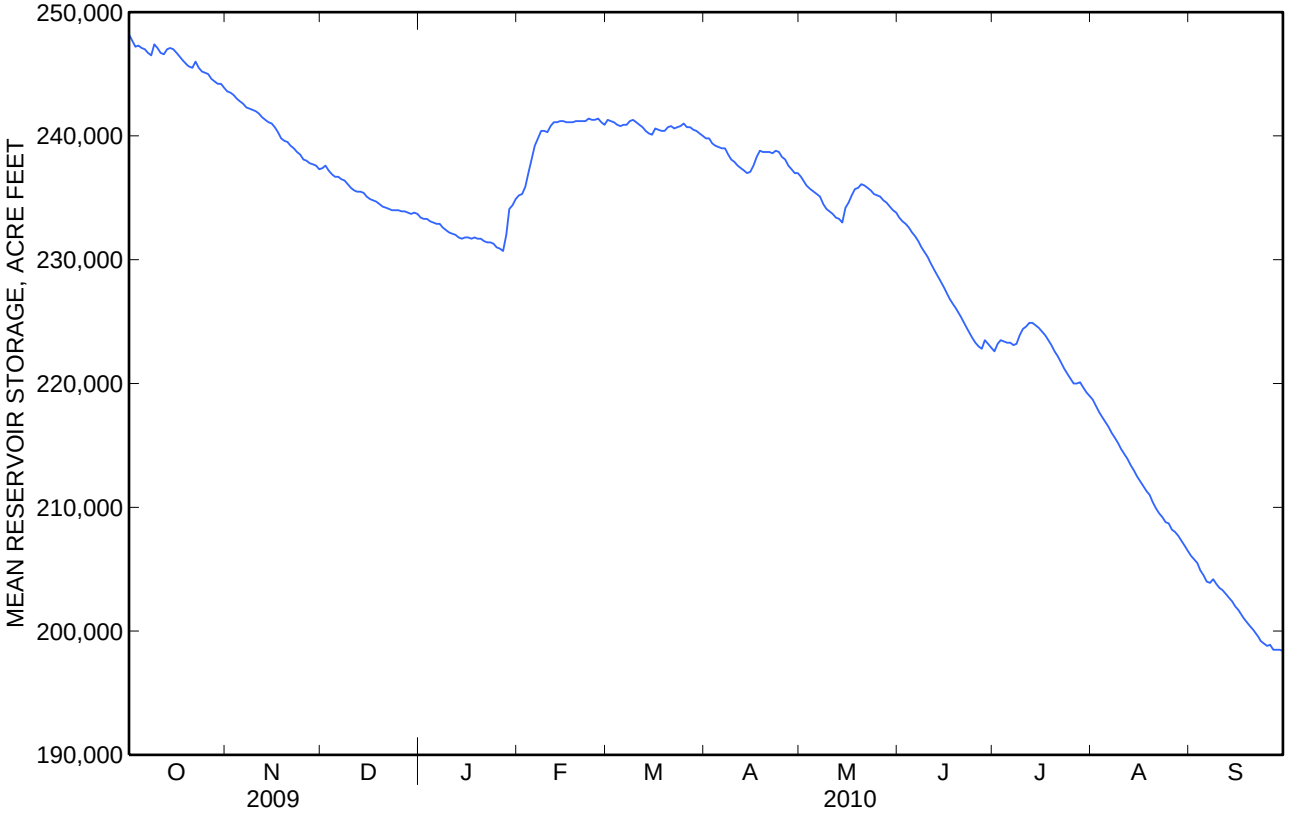
RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	248,200	243,600	237,400	233,400	235,200	241,300	239,800	236,700	233,400	222,600	218,700	206,100
2	247,700	243,500	237,600	233,300	235,300	241,200	239,800	236,300	233,100	223,200	218,200	205,800
3	247,200	243,300	237,200	233,300	235,900	241,100	239,400	235,900	232,900	223,500	217,700	205,500
4	247,300	243,000	236,900	233,100	237,000	240,900	239,200	235,700	232,600	223,400	217,300	204,900
5	247,100	242,800	236,700	233,000	238,100	240,800	239,100	235,500	232,200	223,300	216,900	204,500
6	247,000	242,600	236,700	232,900	239,200	240,900	239,000	235,300	231,900	223,300	216,500	204,000
7	246,700	242,300	236,500	232,900	239,800	240,900	239,000	235,100	231,500	223,100	216,000	203,900
8	246,500	242,200	236,400	232,600	240,400	241,200	238,500	234,500	231,000	223,200	215,600	204,200
9	247,400	242,100	236,100	232,400	240,400	241,300	238,100	234,100	230,600	223,900	215,200	203,800
10	247,100	242,000	235,800	232,200	240,300	241,100	237,900	233,900	230,200	224,400	214,700	203,500
11	246,700	241,800	235,600	232,100	240,800	240,900	237,600	233,700	229,700	224,600	214,300	203,300
12	246,600	241,500	235,500	232,000	241,100	240,700	237,400	233,400	229,200	224,900	213,900	203,000
13	247,000	241,300	235,500	231,800	241,100	240,400	237,200	233,300	228,700	224,900	213,400	202,700
14	247,100	241,100	235,400	231,700	241,200	240,200	237,000	233,000	228,300	224,700	213,000	202,400
15	247,000	241,000	235,100	231,800	241,200	240,100	237,100	234,200	227,800	224,500	212,500	202,000
16	246,700	240,700	234,900	231,800	241,100	240,600	237,600	234,600	227,300	224,200	212,100	201,700
17	246,400	240,300	234,800	231,700	241,100	240,500	238,300	235,200	226,800	223,900	211,700	201,300
18	246,100	239,800	234,700	231,800	241,100	240,400	238,800	235,700	226,400	223,500	211,300	200,900
19	245,800	239,600	234,500	231,700	241,200	240,400	238,700	235,800	226,000	223,100	211,000	200,600
20	245,600	239,500	234,300	231,700	241,200	240,700	238,700	236,100	225,600	222,600	210,400	200,300
21	245,500	239,200	234,200	231,500	241,200	240,800	238,700	236,000	225,100	222,200	209,900	200,000
22	246,000	239,000	234,100	231,400	241,200	240,600	238,600	235,800	224,600	221,700	209,500	199,600
23	245,500	238,700	234,000	231,400	241,400	240,700	238,800	235,600	224,200	221,200	209,200	199,200
24	245,200	238,500	e234,000	231,300	241,300	240,800	238,700	235,300	223,700	220,800	208,800	199,000
25	245,100	238,100	234,000	231,000	241,300	241,000	238,300	235,200	223,300	220,400	208,700	198,800
26	245,000	238,000	233,900	230,900	241,400	240,700	238,100	235,100	223,000	220,000	208,200	198,900
27	244,600	237,800	233,900	230,700	241,100	240,700	237,600	234,800	222,800	220,000	208,000	198,500
28	244,400	237,700	233,800	232,000	240,900	240,500	237,300	234,600	223,500	220,100	207,700	198,500
29	244,200	237,600	233,700	234,100	---	240,400	237,000	234,300	223,200	219,700	207,300	198,500
30	244,200	237,300	233,800	234,400	---	240,200	237,000	234,000	222,900	219,300	206,900	198,400
31	243,900	---	233,700	234,900	---	240,000	---	233,800	---	219,000	206,500	---
Mean	246,200	240,500	235,200	232,300	240,100	240,700	238,300	234,900	227,700	222,600	212,300	201,800
Max	248,200	243,600	237,600	234,900	241,400	241,300	239,800	236,700	233,400	224,900	218,700	206,100
Min	243,900	237,300	233,700	230,700	235,200	240,000	237,000	233,000	222,800	219,000	206,500	198,400

	Calendar Year 2009	Water Year 2010
Mean	270,600	231,000
Max	306,100	248,200
Min	233,700	198,400

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