Water-Data Report 2013

08080910 White River Reservoir near Spur, TX

Brazos Headwaters Basin
White Subbasin

LOCATION.--Lat 33°27′28″, long 101°05′01″ referenced to North American Datum of 1927, Crosby County, TX, Hydrologic Unit 12050006, on right bank near intake structure at White River Dam on White River, 0.5 mi downstream from Sand Creek, 1.7 mi upstream from Home Creek, 13.0 mi west of Spur, and 22.8 mi upstream from Salt Fork Brazos River.

DRAINAGE AREA.--3,069 mi^2 of which 2,380 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Apr. 1964 to Sept. 1976, Jan. 1999 to Sept. 2002 (contents), Oct. 2002 to current year.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: June 1964 to July 1975.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Aug. 1, 2002, water-stage recorder on intake structure 145 ft left and 20 ft downstream at same datum. Satellite telemeter at station.

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

REMARKS.--Records good. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically. The reservoir is formed by a rolled earthfill dam 3,300 ft long. The dam was completed and storage began in October 1963. The emergency spillway is an open cut channel through rock, 1,100 ft wide, located at the right end of dam. The spillway is designed to discharge 69,000 ft^3/s with a 7.5 ft head. The uncontrolled service spillway is a 5.0-ft square drop-inlet structure that discharges through a 5.0 ft square concrete conduit. The service outlet is a controlled 18-inch diameter concrete pipe that is connected to the 5.0 ft conduit. There is a pump station about 1,400 ft upstream from the dam on the right bank. The pump station is connected to the lake by a 58-inch diameter concrete pipe. The dam is owned by the White River Municipal Water District. The water in the reservoir is used for municipal and industrial supplies for the cities of Crosbyton, Post, Ralls, and Spur. Data regarding the dam are given in the following table:

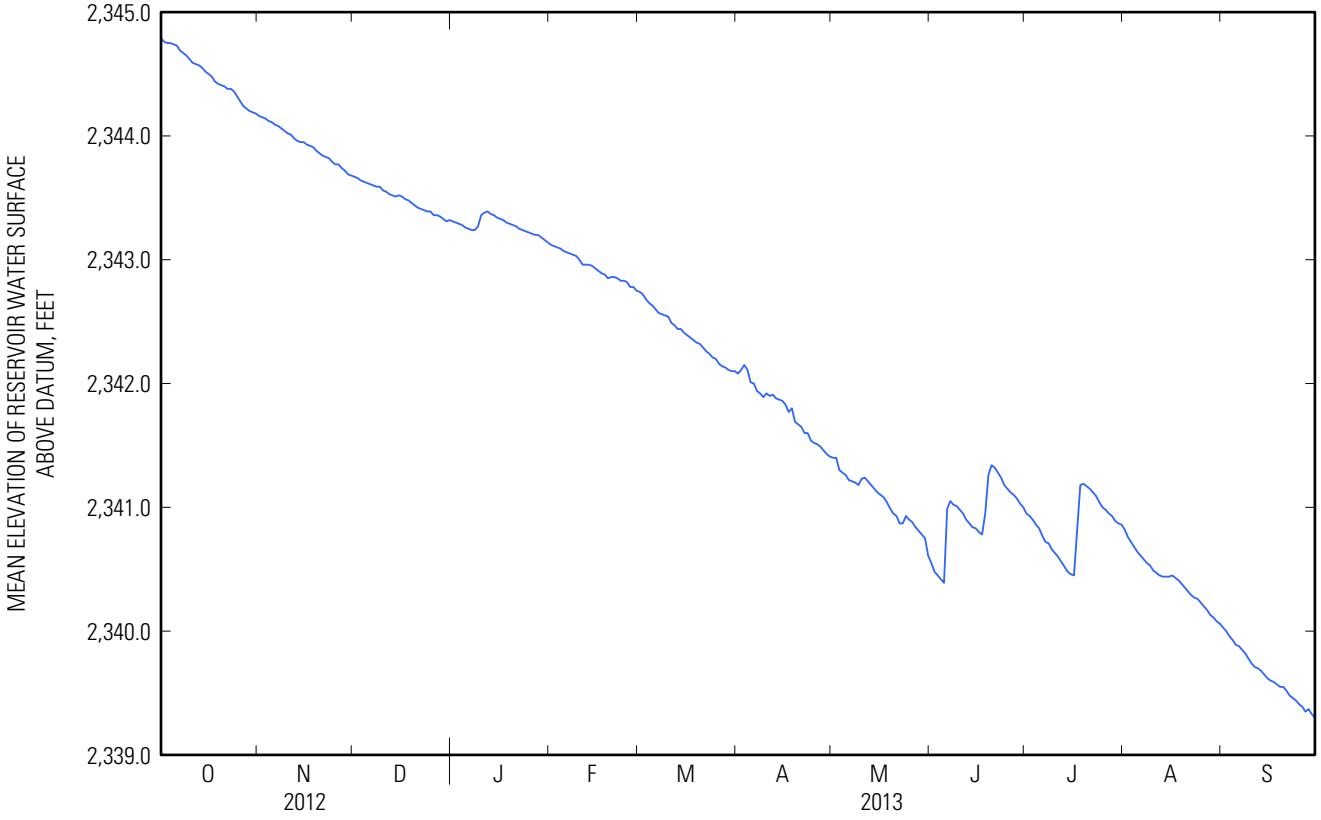
	Elevation (feet)
Top of dam	2,395.0
Crest of emergency spillway	2,384.0
Crest of service spillway	2,372.5
Lowest gated outlet (invert)	2,331.2

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 45,580 acre-ft, Oct. 25, 1974, elevation, 2,372.84 ft; minimum contents, 5,120 acre-ft, Sept. 30, 2002, elevation, 2,346.45 ft; maximum elevation 2,356.94 ft, July 16-18, 2010; minimum elevation, 2,339.28 ft, Sept. 30, 2013.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,344.83 ft, Oct. 1; minimum elevation, 2,339.28 ft, Sept. 30.

08080910 White River Reservoir near Spur, TX—Continued

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,344.79	2,344.16	2,343.67	2,343.31	2,343.12	2,342.74	2,342.08	2,341.40	2,340.55	2,340.95	2,340.82	2,340.03
2	2,344.76	2,344.15	2,343.66	2,343.30	2,343.11	2,342.72	2,342.11	2,341.40	2,340.48	2,340.93	2,340.76	2,340.00
3	2,344.75	2,344.14	2,343.64	2,343.29	2,343.10	2,342.68	2,342.15	2,341.30	2,340.45	2,340.90	2,340.72	2,339.96
4	2,344.75	2,344.12	2,343.63	2,343.28	2,343.09	2,342.65	2,342.11	2,341.28	2,340.42	2,340.86	2,340.68	2,339.93
5	2,344.74	2,344.11	2,343.62	2,343.26	2,343.07	2,342.63	2,342.01	2,341.26	2,340.39	2,340.83	2,340.64	2,339.89
6	2,344.73	2,344.09	2,343.61	2,343.25	2,343.06	2,342.60	2,342.00	2,341.22	2,340.99	2,340.77	2,340.61	2,339.88
7	2,344.69	2,344.08	2,343.60	2,343.24	2,343.05	2,342.57	2,341.94	2,341.21	2,341.05	2,340.72	2,340.58	2,339.85
8	2,344.67	2,344.06	2,343.59	2,343.24	2,343.04	2,342.56	2,341.92	2,341.20	2,341.02	2,340.71	2,340.55	2,339.82
9	2,344.65	2,344.04	2,343.59	2,343.27	2,343.03	2,342.55	2,341.89	2,341.18	2,341.01	2,340.66	2,340.53	2,339.78
10	2,344.62	2,344.02	2,343.56	2,343.36	2,343.00	2,342.54	2,341.92	2,341.23	2,340.98	2,340.63	2,340.49	2,339.74
11	2,344.59	2,344.01	2,343.55	2,343.38	2,342.96	2,342.49	2,341.90	2,341.24	2,340.95	2,340.60	2,340.47	2,339.71
12	2,344.58	2,343.98	2,343.53	2,343.39	2,342.96	2,342.47	2,341.91	2,341.21	2,340.90	2,340.56	2,340.45	2,339.70
13	2,344.57	2,343.96	2,343.52	2,343.37	2,342.96	2,342.44	2,341.88	2,341.18	2,340.87	2,340.52	2,340.44	2,339.68
14	2,344.55	2,343.95	2,343.51	2,343.36	2,342.95	2,342.44	2,341.87	2,341.15	2,340.84	2,340.48	2,340.44	2,339.65
15	2,344.52	2,343.95	2,343.52	2,343.34	2,342.93	2,342.41	2,341.86	2,341.12	2,340.83	2,340.46	2,340.44	2,339.62
16	2,344.50	2,343.93	2,343.51	2,343.33	2,342.91	2,342.39	2,341.83	2,341.10	2,340.80	2,340.45	2,340.45	2,339.60
17	2,344.48	2,343.92	2,343.49	2,343.32	2,342.89	2,342.37	2,341.77	2,341.08	2,340.78	2,340.82	2,340.43	2,339.59
18	2,344.44	2,343.91	2,343.48	2,343.30	2,342.88	2,342.35	2,341.80	2,341.04	2,340.95	2,341.18	2,340.41	2,339.57
19	2,344.42	2,343.88	2,343.46	2,343.29	2,342.85	2,342.33	2,341.69	2,340.99	2,341.26	2,341.19	2,340.38	2,339.55
20	2,344.41	2,343.86	2,343.44	2,343.28	2,342.86	2,342.32	2,341.67	2,340.95	2,341.34	2,341.17	2,340.35	2,339.55
21	2,344.40	2,343.84	2,343.42	2,343.27	2,342.86	2,342.29	2,341.65	2,340.93	2,341.32	2,341.15	2,340.32	2,339.52
22	2,344.38	2,343.83	2,343.41	2,343.25	2,342.85	2,342.26	2,341.60	2,340.87	2,341.28	2,341.12	2,340.29	2,339.48
23	2,344.38	2,343.82	2,343.40	2,343.24	2,342.83	2,342.24	2,341.60	2,340.87	2,341.24	2,341.09	2,340.27	2,339.46
24	2,344.36	2,343.79	2,343.39	2,343.23	2,342.83	2,342.21	2,341.54	2,340.93	2,341.18	2,341.04	2,340.26	2,339.44
25	2,344.32	2,343.77	2,343.39	2,343.22	2,342.82	2,342.20	2,341.52	2,340.90	2,341.15	2,341.00	2,340.23	2,339.41
26	2,344.28	2,343.77	2,343.36	2,343.21	2,342.78	2,342.16	2,341.51	2,340.88	2,341.12	2,340.98	2,340.20	2,339.39
27	2,344.24	2,343.74	2,343.36	2,343.20	2,342.78	2,342.14	2,341.49	2,340.84	2,341.10	2,340.95	2,340.17	2,339.35
28	2,344.22	2,343.72	2,343.35	2,343.20	2,342.75	2,342.13	2,341.46	2,340.81	2,341.07	2,340.93	2,340.13	2,339.37
29	2,344.20	2,343.69	2,343.33	2,343.18	---	2,342.11	2,341.43	2,340.78	2,341.03	2,340.89	2,340.11	2,339.33
30	2,344.19	2,343.68	2,343.31	2,343.16	---	2,342.10	2,341.41	2,340.75	2,341.00	2,340.87	2,340.08	2,339.30
31	2,344.18	---	2,343.32	2,343.14	---	2,342.10	---	2,340.61	---	2,340.86	2,340.06	---
Mean	2,344.49	2,343.93	2,343.49	2,343.27	2,342.94	2,342.39	2,341.78	2,341.06	2,340.95	2,340.85	2,340.41	2,339.64
Max	2,344.79	2,344.16	2,343.67	2,343.39	2,343.12	2,342.74	2,342.15	2,341.40	2,341.34	2,341.19	2,340.82	2,340.03
Min	2,344.18	2,343.68	2,343.31	2,343.14	2,342.75	2,342.10	2,341.41	2,340.61	2,340.39	2,340.45	2,340.06	2,339.30

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