



Water-Data Report 2009

08086400 Hubbard Creek Reservoir nr Breckenridge, TX

Middle Brazos-Clear Fork Basin
Hubbard Subbasin

LOCATION.--Lat 32°49'53", long 98°58'03" referenced to North American Datum of 1927, Stephens County, TX, Hydrologic Unit 12060105, on left bank just upstream from dam on Hubbard Creek, 1.4 mi upstream from U.S. Highway 183, 6.5 mi northwest of Breckenridge, and 12.6 mi upstream from mouth.

DRAINAGE AREA.--1,085 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1962 to Sept. 2003 (contents), Oct. 2003 to current year.

PERIOD OF RECORD, Water-Quality--

CHEMICAL DATA: Sept. 1963 to Feb. 2007.

BIOCHEMICAL DATA: Sept. 1963 to Feb. 2007.

REVISED RECORDS.--WDR TX-76-2: Drainage area. WDR TX-95-2: 1990-94.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

COOPERATION.--Records of diversions may be obtained from West Central Texas Municipal Water District.

REMARKS.--Records good. Interruptions in the record were due to vandalism of the instrument and editing of wind effect. The reservoir is formed by a rolled earthfill dam 5,630 ft long. There are two additional levees, the north and south, making an overall length of 3.5 mi. Storage began September 1962 and the dam was completed in December 1962. The emergency spillway is a 2,000-foot-wide cut through natural ground near the left end of dam. The service spillway is a partially controlled morning-glory type, with 12 lift gates designed to discharge 30,000 ft³/s with a 17.5-ft head through a 22.0-ft-diameter concrete conduit. The dam is the property of the West Central Texas Municipal Water District. Prior to Oct. 1, 1998, contents determined from capacity table dated Aug. 1, 1962, furnished by West Central Texas Municipal Water District. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,208.0
Design flood.....	1,194.0
Top of gates.....	1,185.1
Crest of spillway (top of conservation pool).....	1,176.6
Lowest gated outlet (invert).....	1,136.0

Beginning in the 2006 Water Year, water-quality data formerly published with this site are now published as:

Site ID	Site Name
324514099010201	Hubbard Creek Reservoir Site P11
324541099053601	Hubbard Creek Reservoir Site P18
324606099000201	Hubbard Creek Reservoir Site P10
324649099000501	Hubbard Creek Reservoir Site P09
324802099021601	Hubbard Creek Reservoir Site P15
324932098575101	Hubbard Creek Reservoir Site P01
324949098594301	Hubbard Creek Reservoir Site P13

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 441,200 acre-ft, Oct. 14, 1981, elevation, 1,190.22 ft; minimum since normal operating level was reached in May 1969, 113,200 acre-ft, Mar. 18, 19, 2002, elevation, 1,164.08 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,180.07 ft, Oct. 6; minimum elevation, 1,175.34 ft, Sept. 30.

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ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,180.03	1,179.74	1,179.31	1,178.94	1,178.59	1,178.29	1,178.03	1,177.55	1,177.28	1,176.88	1,176.47	1,175.67
2	1,180.01	1,179.74	1,179.30	1,178.93	1,178.58	1,178.27	1,177.97	1,177.53	1,177.26	1,176.88	1,176.45	1,175.63
3	1,179.99	1,179.72	1,179.27	1,178.92	1,178.56	1,178.26	1,177.92	1,177.51	1,177.24	1,176.88	1,176.42	1,175.60
4	1,179.97	1,179.71	1,179.24	1,178.88	1,178.55	1,178.25	1,177.91	1,177.49	1,177.22	1,176.87	1,176.39	1,175.58
5	1,179.95	1,179.71	1,179.23	1,178.89	1,178.55	1,178.25	1,177.85	1,177.48	1,177.19	1,176.88	1,176.36	1,175.56
6	1,180.04	1,179.67	1,179.22	1,178.89	1,178.55	1,178.23	1,177.81	1,177.48	1,177.18	---	1,176.32	1,175.54
7	1,180.03	1,179.66	1,179.22	1,178.88	1,178.54	1,178.22	1,177.80	1,177.47	1,177.14	---	1,176.29	1,175.52
8	1,180.01	1,179.65	1,179.22	1,178.86	1,178.56	1,178.20	1,177.78	1,177.46	1,177.11	1,176.84	1,176.26	1,175.51
9	1,179.99	1,179.64	1,179.18	1,178.86	1,178.58	1,178.20	1,177.76	1,177.44	1,177.10	1,176.80	1,176.22	1,175.47
10	1,179.96	1,179.63	1,179.16	1,178.83	1,178.57	1,178.18	1,177.71	1,177.42	1,177.13	1,176.76	1,176.22	1,175.44
11	1,179.93	1,179.61	1,179.15	1,178.82	1,178.56	1,178.17	1,177.70	1,177.41	1,177.28	1,176.72	1,176.20	1,175.43
12	1,179.90	1,179.60	1,179.14	1,178.80	1,178.54	1,178.23	1,177.77	1,177.41	1,177.27	1,176.69	1,176.22	1,175.46
13	1,179.91	1,179.59	1,179.16	1,178.79	1,178.53	1,178.25	1,177.76	1,177.40	1,177.25	1,176.66	1,176.20	1,175.56
14	1,180.04	1,179.56	1,179.12	1,178.78	1,178.51	1,178.29	1,177.75	1,177.37	1,177.24	1,176.62	1,176.17	1,175.59
15	1,180.04	1,179.53	1,179.09	1,178.76	1,178.50	1,178.28	1,177.73	1,177.36	1,177.21	1,176.58	1,176.15	1,175.59
16	1,180.01	1,179.52	1,179.08	1,178.76	1,178.49	1,178.27	1,177.71	1,177.48	1,177.19	1,176.54	1,176.10	1,175.56
17	1,180.00	1,179.50	1,179.07	1,178.75	1,178.50	1,178.27	1,177.73	1,177.53	1,177.15	1,176.54	1,176.07	1,175.55
18	1,179.99	1,179.48	1,179.07	1,178.73	1,178.48	1,178.25	1,177.73	1,177.51	1,177.13	1,176.52	1,176.03	1,175.54
19	1,179.97	1,179.48	1,179.06	1,178.72	1,178.46	1,178.23	1,177.71	1,177.49	1,177.10	1,176.50	1,176.01	1,175.53
20	1,179.95	1,179.43	1,179.05	1,178.70	1,178.46	1,178.22	1,177.70	1,177.47	1,177.08	1,176.48	1,175.99	1,175.52
21	1,179.94	1,179.42	1,179.02	1,178.70	1,178.42	1,178.20	1,177.68	1,177.45	1,177.05	1,176.45	1,175.96	1,175.52
22	1,179.92	1,179.41	1,179.02	1,178.70	1,178.41	1,178.20	1,177.68	1,177.43	1,177.02	1,176.42	1,175.94	1,175.49
23	1,179.90	1,179.41	1,179.01	1,178.67	1,178.39	1,178.21	1,177.66	1,177.43	1,176.99	1,176.42	1,175.92	1,175.47
24	1,179.87	1,179.38	1,178.99	1,178.65	1,178.38	1,178.18	1,177.64	1,177.45	1,176.96	1,176.40	1,175.89	1,175.46
25	1,179.86	1,179.38	1,178.99	1,178.64	1,178.36	1,178.16	1,177.62	1,177.44	1,176.94	1,176.37	1,175.85	1,175.44
26	1,179.83	1,179.36	1,178.99	1,178.63	1,178.35	1,178.15	1,177.62	1,177.42	1,176.91	1,176.35	1,175.83	1,175.42
27	1,179.81	1,179.35	1,179.01	1,178.63	1,178.33	1,178.14	1,177.59	1,177.38	1,176.88	1,176.33	1,175.80	1,175.41
28	1,179.79	1,179.35	1,178.98	1,178.63	1,178.30	1,178.13	1,177.57	1,177.37	1,176.85	1,176.38	1,175.76	1,175.38
29	1,179.77	1,179.34	1,178.97	1,178.62	---	1,178.11	1,177.57	1,177.35	1,176.83	1,176.37	1,175.73	1,175.37
30	1,179.75	1,179.33	1,178.96	1,178.62	---	1,178.09	1,177.56	1,177.33	1,176.87	1,176.48	1,175.71	1,175.36
31	1,179.74	---	1,178.94	1,178.60	---	1,178.05	---	1,177.31	---	1,176.48	1,175.69	---
Mean	1,179.93	1,179.53	1,179.10	1,178.76	1,178.49	1,178.21	1,177.73	1,177.44	1,177.10	---	1,176.09	1,175.51
Max	1,180.04	1,179.74	1,179.31	1,178.94	1,178.59	1,178.29	1,178.03	1,177.55	1,177.28	---	1,176.47	1,175.67
Min	1,179.74	1,179.33	1,178.94	1,178.60	1,178.30	1,178.05	1,177.56	1,177.31	1,176.83	---	1,175.69	1,175.36

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