

Water-Data Report 2013

06861500 CEDAR BLUFF RESERVOIR NEAR ELLIS, KS

Smoky Hill Basin
Upper Smoky Hill Subbasin

LOCATION.--Lat 38°47'21", long 99°43'13" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.36, T.14 S., R.22 W., Trego County, KS, Hydrologic Unit 10260003, in control house structure of outlet works conduit at dam on Smoky Hill River, 18 mi southwest of Ellis, and at mile 333.7.

DRAINAGE AREA.--5,530 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1950 to current year. Monthly records only prior to August 1960.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Aug. 20, 1960, nonrecording mercury-column gage at same site and datum.

REMARKS.--Records fair except those for estimated daily elevations, which are poor. Reservoir is formed by compacted earthfill dam. Storage began Nov. 13, 1950. Dam was completed in 1951. Total capacity, 870,400 acre-ft, consisting of the following: Dead storage, 8,260 acre-ft below elevation 2,090 ft, sill of trashrack structure; irrigation pool, 176,800 acre-ft between elevations 2,090 ft and 2,144 ft; flood-control pool, 191,900 acre-ft between elevations 2,144 ft and 2,166 ft, crest of uncontrolled spillway and uncontrolled storage, 493,400 acre-ft between elevations 2,166 ft and 2,200 ft. Reservoir was used to store water for flood control, irrigation of 6,600 acres, and recreation. Reservoir is now used for flood control, municipal water supply, and recreation. Figures given herein represent total contents. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 2,154.90 ft, July 2, 1951, July 4, 5, 1957, contents, 269,400 acre-ft; minimum elevation since irrigation pool was first filled, 2,092.20 ft, Sept. 28, 1992, contents, 10,450 acre-ft.

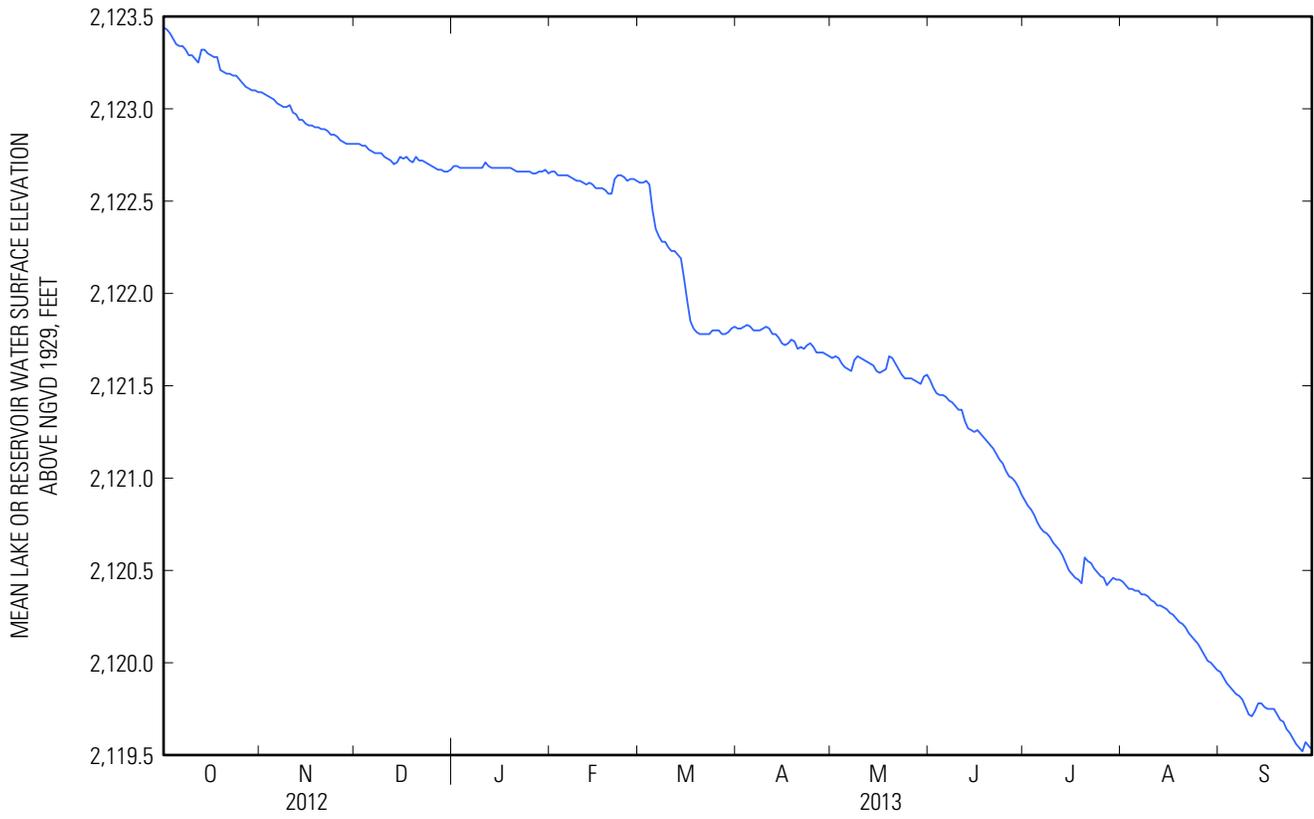
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,123.48 ft, Oct. 1, contents, 68,940 acre-ft; minimum elevation, 2,119.49 ft, Sept. 27, contents, 56,270 acre-ft.

06861500 CEDAR BLUFF RESERVOIR NEAR ELLIS, KS—Continued

LAKE OR RESERVOIR WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,123.44	2,123.09	2,122.81	2,122.69	2,122.66	2,122.60	2,121.81	2,121.65	2,121.53	2,120.88	2,120.44	2,119.95
2	2,123.43	2,123.08	2,122.81	2,122.69	2,122.66	2,122.60	2,121.81	2,121.66	2,121.49	2,120.85	2,120.42	2,119.92
3	2,123.41	2,123.07	2,122.80	2,122.68	2,122.64	2,122.61	2,121.82	2,121.65	2,121.46	2,120.83	2,120.40	2,119.89
4	2,123.38	2,123.06	2,122.80	2,122.68	2,122.64	2,122.59	2,121.83	2,121.62	2,121.45	2,120.80	2,120.40	2,119.87
5	2,123.35	2,123.05	2,122.78	2,122.68	2,122.64	2,122.45	2,121.82	2,121.60	2,121.45	2,120.76	2,120.39	2,119.85
6	2,123.34	2,123.03	2,122.77	2,122.68	2,122.64	2,122.35	2,121.80	2,121.59	2,121.44	2,120.73	2,120.39	2,119.83
7	2,123.34	2,123.02	2,122.76	2,122.68	2,122.63	2,122.31	2,121.80	2,121.58	2,121.42	2,120.71	2,120.37	2,119.82
8	2,123.32	2,123.01	2,122.76	2,122.68	2,122.62	2,122.28	2,121.80	2,121.64	2,121.41	2,120.70	2,120.37	2,119.80
9	2,123.29	2,123.01	2,122.76	2,122.68	2,122.61	2,122.28	2,121.81	2,121.66	2,121.39	2,120.68	2,120.36	2,119.76
10	2,123.29	2,123.02	2,122.74	2,122.68	e2,122.61	2,122.25	2,121.82	2,121.65	2,121.37	2,120.65	2,120.34	2,119.72
11	2,123.27	2,122.98	2,122.73	2,122.71	2,122.60	2,122.23	2,121.81	2,121.64	2,121.37	2,120.63	2,120.33	2,119.71
12	2,123.25	2,122.97	2,122.72	2,122.69	2,122.59	2,122.23	2,121.78	2,121.63	2,121.31	2,120.61	2,120.31	2,119.74
13	2,123.32	2,122.94	2,122.70	2,122.68	2,122.60	2,122.21	2,121.78	2,121.62	2,121.27	2,120.58	2,120.31	2,119.78
14	2,123.32	2,122.94	2,122.71	2,122.68	2,122.59	2,122.19	2,121.76	2,121.61	2,121.26	2,120.54	2,120.30	2,119.78
15	2,123.30	2,122.92	2,122.74	2,122.68	2,122.57	e2,122.08	2,121.73	2,121.58	2,121.25	2,120.50	2,120.29	2,119.76
16	2,123.29	2,122.91	2,122.73	2,122.68	2,122.57	e2,121.96	2,121.72	2,121.57	2,121.26	2,120.48	2,120.27	2,119.75
17	2,123.28	2,122.91	2,122.74	2,122.68	2,122.57	e2,121.85	2,121.73	2,121.58	2,121.24	2,120.46	2,120.26	2,119.75
18	2,123.28	2,122.90	2,122.72	2,122.68	2,122.56	e2,121.81	2,121.75	2,121.59	2,121.22	2,120.45	2,120.24	2,119.75
19	2,123.21	2,122.90	2,122.71	2,122.68	2,122.54	e2,121.79	2,121.74	2,121.66	2,121.20	2,120.43	2,120.22	2,119.72
20	2,123.20	2,122.89	2,122.74	2,122.67	2,122.54	e2,121.78	2,121.70	2,121.65	2,121.18	2,120.57	2,120.21	2,119.69
21	2,123.19	2,122.89	2,122.72	2,122.66	2,122.62	e2,121.78	2,121.71	2,121.62	2,121.16	2,120.55	2,120.19	2,119.68
22	2,123.19	2,122.88	2,122.72	2,122.66	2,122.64	e2,121.78	2,121.70	2,121.59	2,121.13	2,120.54	2,120.16	2,119.64
23	2,123.18	2,122.86	2,122.71	2,122.66	2,122.64	e2,121.78	2,121.72	2,121.56	2,121.10	2,120.51	2,120.14	2,119.62
24	2,123.18	2,122.86	2,122.70	2,122.66	2,122.63	2,121.80	2,121.73	2,121.54	2,121.08	2,120.49	2,120.12	2,119.59
25	2,123.16	2,122.85	2,122.69	2,122.66	2,122.61	2,121.80	2,121.71	2,121.54	2,121.04	2,120.47	2,120.10	2,119.56
26	2,123.14	2,122.83	2,122.68	2,122.65	2,122.62	2,121.80	2,121.68	2,121.54	2,121.01	2,120.46	2,120.07	2,119.54
27	2,123.12	2,122.82	2,122.67	2,122.65	2,122.62	2,121.78	2,121.68	2,121.53	2,121.00	2,120.42	2,120.04	2,119.52
28	2,123.11	2,122.81	2,122.67	2,122.66	2,122.61	2,121.78	2,121.68	2,121.52	2,120.98	2,120.44	2,120.01	2,119.57
29	2,123.10	2,122.81	2,122.66	2,122.66	---	2,121.79	2,121.67	2,121.51	2,120.95	2,120.46	2,120.00	2,119.55
30	2,123.10	2,122.81	2,122.66	2,122.67	---	2,121.81	2,121.66	2,121.55	2,120.91	2,120.45	2,119.98	2,119.53
31	2,123.09	---	2,122.67	2,122.65	---	2,121.82	---	2,121.56	---	2,120.45	2,119.96	---
Mean	2,123.25	2,122.94	2,122.73	2,122.67	2,122.61	2,122.07	2,121.75	2,121.60	2,121.24	2,120.58	2,120.24	2,119.72
Max	2,123.44	2,123.09	2,122.81	2,122.71	2,122.66	2,122.61	2,121.83	2,121.66	2,121.53	2,120.88	2,120.44	2,119.95
Min	2,123.09	2,122.81	2,122.66	2,122.65	2,122.54	2,121.78	2,121.66	2,121.51	2,120.91	2,120.42	2,119.96	2,119.52

06861500 CEDAR BLUFF RESERVOIR NEAR ELLIS, KS—Continued



06861500 CEDAR BLUFF RESERVOIR NEAR ELLIS, KS—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	68,810	67,620	66,680	66,290	66,180	66,010	63,420	62,910	62,520	60,480	59,140	57,650
2	68,760	67,590	66,680	66,300	66,180	66,000	63,450	62,970	62,420	60,410	59,060	57,550
3	68,700	67,550	66,670	66,280	66,150	66,030	63,450	62,910	62,310	60,330	59,000	57,480
4	68,590	67,540	66,640	66,270	66,150	65,960	63,510	62,840	62,280	60,230	59,000	57,410
5	68,490	67,490	66,600	66,280	66,140	65,520	63,470	62,770	62,290	60,110	58,990	57,350
6	68,470	67,440	66,560	66,260	66,120	65,170	63,390	62,730	62,240	60,020	58,980	57,280
7	68,450	67,390	66,540	66,270	66,110	65,050	63,390	62,710	62,190	59,960	58,920	57,230
8	68,400	67,370	66,530	66,260	66,070	64,970	63,390	62,890	62,140	59,920	58,920	57,180
9	68,310	67,360	66,520	66,260	66,050	64,940	63,430	62,960	62,100	59,850	58,890	57,070
10	68,280	67,400	66,460	66,280	e66,050	64,850	63,450	62,930	62,030	59,770	58,840	56,970
11	68,230	67,270	66,420	66,360	65,990	64,790	63,430	62,890	62,020	59,710	58,790	56,940
12	68,180	67,210	66,390	66,290	65,990	64,790	63,330	62,850	61,840	59,650	58,730	57,030
13	68,390	67,140	66,350	66,270	65,990	64,730	63,340	62,820	61,700	59,560	58,740	57,140
14	68,380	67,130	66,360	66,250	65,950	64,660	63,260	62,800	61,690	59,430	58,700	57,130
15	68,320	67,080	66,460	66,250	65,910	e64,290	63,170	62,710	61,640	59,310	58,660	57,080
16	68,300	67,050	66,430	66,260	65,910	e63,900	63,130	62,670	61,690	59,250	58,620	57,050
17	68,280	67,040	66,450	66,250	65,890	e63,570	63,180	62,690	61,620	59,200	58,570	57,050
18	68,250	67,000	66,400	66,250	65,880	e63,420	63,240	62,730	61,560	59,150	58,510	57,040
19	68,040	67,000	66,370	66,250	65,790	e63,360	63,210	62,940	61,490	59,110	58,480	56,960
20	67,990	66,970	66,460	66,220	65,800	e63,350	63,100	62,920	61,440	59,520	58,430	56,880
21	67,970	66,970	66,380	66,210	66,060	e63,340	63,100	62,830	61,380	59,470	58,370	56,830
22	67,980	66,920	66,380	66,200	66,130	e63,350	63,070	62,720	61,260	59,430	58,280	56,720
23	67,950	66,870	66,360	66,210	66,120	e63,340	63,150	62,630	61,170	59,340	58,220	56,670
24	67,930	66,860	66,320	66,180	66,090	63,410	63,160	62,570	61,110	59,290	58,160	56,590
25	67,860	66,820	66,290	66,190	66,050	63,390	63,110	62,580	60,990	59,220	58,090	56,480
26	67,780	66,770	66,260	66,160	66,060	63,400	63,030	62,560	60,920	59,190	58,010	56,420
27	67,720	66,730	66,230	66,180	66,050	63,340	63,020	62,550	60,880	59,060	57,920	56,360
28	67,680	66,700	66,240	66,200	66,030	63,340	63,010	62,500	60,800	59,120	57,820	56,520
29	67,660	66,700	66,220	66,190	---	63,360	62,970	62,450	60,720	59,180	57,790	56,460
30	67,660	66,680	66,200	66,240	---	63,440	62,940	62,600	60,590	59,160	57,740	56,410
31	67,630	---	66,230	66,180	---	63,470	---	62,620	---	59,150	57,680	---
Mean	68,180	67,120	66,420	66,240	66,030	64,280	63,240	62,750	61,630	59,570	58,520	56,960