

07205500 EAGLE NEST LAKE NEAR EAGLE NEST, NM

Upper Canadian Basin
Cimarron Subbasin

LOCATION.--Lat 36°31'53.12", long 105°13'46.02" referenced to North American Datum of 1983, Colfax County, NM, Hydrologic Unit 11080002, in Maxwell Grant, at upstream face of Eagle Nest Dam on Cimarron River, 2.5 mi southeast of Eagle Nest, 6.7 mi west of Ute Park, and at mile 48.7.

DRAINAGE AREA.--167 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1927 to December 1944 (monthend contents only, published in WSP 1311), May 1950 to September 1965 (monthend contents only), October 1965 to June 1987 (nonrecording gage read several times a month at random intervals), July 1987 to current year. Prior to January 1972 published as "Eagle Nest Reservoir."

REVISED RECORDS.--WSP 1281: drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,056.8 ft above NGVD of 1929. Prior to Oct. 1964, gage heights were raised by addition of 8,000 ft and called elevations.

COOPERATION.--Supplemental gage readings provided by Cimarron River watermaster.

REMARKS.--Lake is formed by concrete dam with spillway cut in natural rock, completed June 30, 1918; storage began in June 1917. Capacity, 79,120 acre-ft between gage heights 35.0 ft, sill of outlet gate, and 137.0 ft, crest of ungated spillway. Dead storage negligible. Records given herein represent usable contents. Water released is used for irrigation. Lake is recreational area. Diversions for irrigation of about 2,500 acres upstream from reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 81,360 acre-ft, May 21-29, 1994, gage height, 137.86 ft; minimum observed, 635 acre-ft, Dec. 14, 1954, gage height, 61.33 ft.

EXTREMES FOR CURRENT YEAR.--

Maximum contents, 30,300 acre-ft, Oct 4, 2012, Elev. 111.06 ft; minimum, 21,400 acre-ft, Sept 10, 2013 Elev. 103.33 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	30,200	29,100	28,800	29,100	29,300	29,600	30,000	29,100	25,900	23,300	23,000	22,000
2	30,200	29,100	28,800	29,100	29,300	29,600	30,000	29,000	25,800	23,300	22,900	21,900
3	30,200	29,100	28,800	29,100	29,300	29,600	30,100	29,000	25,700	23,200	22,900	21,900
4	30,100	29,000	28,800	29,100	29,300	29,600	30,100	28,900	25,700	23,200	22,900	21,800
5	30,000	29,000	28,800	29,100	29,300	29,600	30,100	28,900	25,700	23,200	22,800	21,700
6	30,000	29,000	28,900	29,200	29,300	29,600	30,100	28,800	25,600	23,200	22,800	21,600
7	29,900	e29,000	28,800	29,100	29,300	29,600	30,100	28,700	25,500	23,200	22,800	21,600
8	29,900	e29,000	28,800	29,100	29,300	29,700	30,100	28,700	25,400	23,300	22,800	21,500
9	29,900	28,900	28,900	29,100	29,400	29,700	30,000	28,600	25,400	23,300	22,800	21,400
10	29,800	28,900	28,900	29,100	29,400	29,700	30,100	28,600	25,300	e23,300	22,800	21,400
11	29,800	28,900	28,800	29,100	29,400	29,700	30,100	28,600	25,300	e23,300	22,800	21,400
12	29,800	28,900	28,900	29,100	29,400	29,700	30,100	28,500	25,200	e23,300	22,800	21,500
13	29,800	28,900	28,900	29,100	29,400	29,700	30,100	28,500	25,200	e23,300	22,800	21,500
14	29,700	29,000	28,900	29,100	29,400	29,700	30,000	28,400	25,100	e23,300	22,700	21,600
15	29,700	28,900	28,900	29,200	29,400	29,800	30,000	28,400	25,000	e23,200	22,700	21,600
16	29,600	28,900	28,900	29,200	29,400	29,800	30,000	28,200	24,900	23,200	22,700	21,600
17	29,600	28,900	28,900	29,200	29,400	29,900	30,000	28,100	24,900	23,200	22,600	21,600
18	29,600	28,900	28,900	29,200	29,400	29,900	29,900	28,000	24,800	23,200	22,600	21,500
19	29,500	28,900	29,000	29,200	29,400	29,900	29,900	27,800	24,800	23,200	22,500	21,500
20	29,600	28,900	29,000	29,200	29,500	30,000	29,800	27,700	24,700	23,200	22,500	21,500
21	29,500	28,900	28,900	29,200	29,500	29,900	29,800	27,500	24,600	23,200	22,500	21,500
22	29,500	28,900	28,900	29,200	29,500	29,900	29,600	27,300	24,600	23,200	22,400	21,700
23	29,400	28,900	29,000	29,200	29,500	29,900	29,600	27,200	24,500	23,200	22,400	21,600
24	29,400	28,900	29,000	29,200	29,500	29,900	29,600	27,000	24,200	23,100	22,400	21,600
25	29,300	28,900	29,000	29,200	29,600	29,900	29,500	26,900	24,100	23,100	22,300	21,600
26	29,200	28,800	29,000	29,200	29,500	29,900	29,500	26,700	23,900	23,100	22,300	21,500
27	29,200	28,800	29,000	29,200	29,500	29,900	29,400	26,500	23,800	23,100	22,200	21,500
28	29,200	28,900	29,100	29,200	29,500	30,000	29,400	26,400	23,700	23,100	22,100	21,500
29	29,200	28,800	29,100	29,300	---	30,000	29,300	26,300	23,600	23,000	22,100	21,500
30	29,100	28,900	29,000	29,300	---	30,000	29,200	26,100	23,500	23,000	22,000	21,500
31	29,100	---	29,100	29,200	---	30,000	---	25,900	---	23,000	22,000	---
Max	30,200	29,100	29,100	29,300	29,600	30,000	30,100	29,100	25,900	23,300	23,000	22,000
Min	29,100	28,800	28,800	29,100	29,300	29,600	29,200	25,900	23,500	23,000	22,000	21,400
End of month gage height, in feet	110.16	109.98	110.14	110.24	110.47	110.85	110.22	107.62	105.46	104.98	103.98	103.39
Change in contents, in acre-feet	-1,100	-300	300	200	200	500	-900	-3,200	-2,400	-500	-1,000	-600

	Calendar Year 2012	Water Year 2013
Max	41,400	30,200
Min	28,800	21,400

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