

07300500 SALT FORK RED RIVER AT MANGUM, OK

Salt Fork Red Basin
Lower Salt Fork Red Subbasin

LOCATION.--Lat 34°51'30", long 99°30'30" referenced to North American Datum of 1927, in SE ¼ SW ¼ SE ¼ sec.34, T.5 N., R.22 W., Greer County, OK, Hydrologic Unit 11120202, near left bank on downstream side of pier of bridge on State Highway 34, 0.5 mi south of Mangum, 13.0 mi downstream from Fish Creek, and at mile 35.5.

DRAINAGE AREA.--1,454 mi² of which 135 mi² probably is noncontributing, from automated delineation using 10-meter National Elevation Dataset digital elevation model data dated 10/01/2006 and Watershed Boundary Dataset dated 10/01/2006, using Albers Equal-Area Projection, North American Datum 1983.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1905 to June 1906, October 1937 to current year. Monthly discharge only for some periods, published in WSP 131.

REVISED RECORDS.--WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,490.87 ft above NGVD of 1929 (levels by Bureau of Reclamation). Apr. 11, 1905 to June 30, 1906, nonrecording gage at site 0.2 mi upstream at different datum. Oct. 1, 1937 to Nov. 8, 1938, nonrecording gage at present site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Geological Survey satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug 17	0830	*1,390	*7.53

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DISCHARGE, CUBIC FEET PER SECOND
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	0.00	e0.00	e0.00	e0.00	e0.00	e30	4.7	e0.46	e0.00	e0.00	e0.00	0.00
2	0.00	e0.00	e0.00	e0.00	e0.00	e23	4.5	e0.53	e0.00	e0.00	e0.00	0.00
3	e0.00	e0.00	e0.00	e0.00	e0.00	21	6.0	e0.55	e0.00	e0.00	e0.00	0.00
4	e0.00	e0.00	e0.00	e0.00	e0.00	e18	7.3	e0.45	e0.00	e0.00	e0.00	0.00
5	e0.00	e0.00	e0.00	e0.00	e0.00	e14	7.1	e0.45	e0.00	e0.00	e0.00	0.00
6	e0.00	e0.00	e0.00	e0.00	e0.00	e12	7.0	e0.46	e0.00	e0.00	e0.00	0.00
7	e0.00	e0.00	e0.00	e0.00	e0.00	10	6.3	e0.42	e0.00	e0.00	e0.00	0.00
8	e0.00	e0.00	e0.00	e0.00	e0.00	8.9	e6.1	0.36	e0.00	e0.00	e0.00	0.00
9	e0.00	e0.00	e0.00	e0.00	e0.00	e9.5	e5.4	0.37	e0.01	e0.00	e0.00	0.00
10	e0.00	e0.00	e0.00	e0.00	e0.00	e8.7	8.0	e0.39	e0.00	e0.00	e0.00	0.00
11	e0.00	e0.00	e0.00	e0.00	e0.00	e8.7	8.8	e0.38	e0.00	e0.00	e0.00	0.00
12	e0.00	e0.00	e0.00	e0.00	e0.00	e9.3	6.7	e0.28	e0.00	e0.00	e0.00	0.00
13	e0.00	e0.00	e0.00	e0.00	e0.00	9.1	5.9	2.6	e0.00	e0.00	e0.00	e0.00
14	e0.00	e0.00	e0.00	e0.00	e0.00	8.2	5.0	1.3	e0.00	e0.00	e0.00	0.00
15	e0.00	e0.00	e0.00	e0.00	e0.00	8.0	4.0	0.47	e0.00	e0.00	e0.00	0.00
16	e0.00	e0.00	e0.00	e0.00	e0.00	7.7	3.1	0.28	e0.00	e0.00	e0.00	e0.00
17	e0.00	e0.00	e0.00	e0.00	e0.00	6.9	3.3	0.18	e0.02	e0.00	e350	e0.00
18	e0.00	e0.00	e0.00	e0.00	e0.00	6.5	3.6	0.15	e1.3	e0.00	157	0.00
19	e0.00	e0.00	e0.00	e0.00	e0.00	5.9	3.0	0.11	e0.01	e0.00	40	0.00
20	e0.00	e0.00	e0.00	e0.00	e0.00	5.9	2.4	e0.08	e0.00	e0.00	17	0.00
21	e0.00	e0.00	e0.00	e0.00	e2.7	5.5	2.1	e0.06	e0.00	e0.00	9.8	0.00
22	e0.00	e0.00	e0.00	e0.00	e5.6	5.5	1.7	e0.06	e0.00	e0.00	6.1	0.00
23	e0.00	e0.00	e0.00	e0.00	8.9	5.4	1.4	e0.00	e0.00	e0.00	2.6	0.00
24	e0.00	e0.00	e0.00	e0.00	13	5.3	1.4	e0.00	e0.00	e0.00	0.58	0.00
25	e0.00	e0.00	e0.00	e0.00	e21	4.7	1.3	e0.00	e0.00	e0.00	0.12	0.00
26	e0.00	e0.00	e0.00	e0.00	e29	4.6	1.2	e0.00	e0.00	e0.00	0.04	0.00
27	e0.00	e0.00	e0.00	e0.00	e30	4.2	1.0	e0.00	e0.00	e0.00	0.00	0.00
28	e0.00	e0.00	e0.00	e0.00	27	4.3	0.94	e0.00	e0.00	e0.00	0.00	e0.00
29	e0.00	e0.00	e0.00	e0.00	---	4.5	0.70	e0.00	e0.00	e0.00	0.00	0.00
30	e0.00	e0.00	e0.00	e0.00	---	4.5	0.51	e0.00	e0.00	e0.00	0.00	0.00
31	e0.00	---	e0.00	e0.00	---	4.8	---	e0.00	---	e0.00	0.00	---
Total	0.00	0.00	0.00	0.00	137.20	284.6	120.45	10.39	1.34	0.00	583.24	0.00
Mean	0.00	0.00	0.00	0.00	4.90	9.18	4.01	0.34	0.04	0.00	18.8	0.00
Max	0.00	0.00	0.00	0.00	30	30	8.8	2.6	1.3	0.00	350	0.00
Min	0.00	0.00	0.00	0.00	0.00	4.2	0.51	0.00	0.00	0.00	0.00	0.00
Ac-ft	0.00	0.00	0.00	0.00	272	565	239	21	2.7	0.00	1,160	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	67.9	30.7	36.3	44.7	53.8	55.2	96.7	227	202	59.6	34.5	45.3
Max	919	196	148	199	263	344	1,292	1,389	1,602	575	539	424
(WY)	(1961)	(1987)	(1992)	(1960)	(1998)	(1998)	(1997)	(1957)	(1941)	(1953)	(1995)	(1995)
Min	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1941)	(1940)	(1940)	(1940)	(1953)	(1971)	(1955)	(1953)	(1952)	(1963)	(1943)	(1939)

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SUMMARY STATISTICS

	Calendar Year 2012	Water Year 2013	Water Years 1938 - 2013	
Annual total	2,784.61	1,137.22		
Annual mean	7.61	3.12	79.5	
Highest annual mean			277	1941
Lowest annual mean			3.12	2013
Highest daily mean	252 May 2	^a 350 Aug 17	22,600	May 28, 1978
Lowest daily mean	0.00 Many days	0.00 Many days	0.00	At times
Annual seven-day minimum	0.00 Jul 5	0.00 Oct 1	0.00	Aug 14, 1938
Maximum peak flow		1,390 Aug 17	72,000	May 16, 1957
Maximum peak stage		7.53 Aug 17	14.70	Jun 16, 1938
Annual runoff (ac-ft)	5,520	2,260	57,620	
10 percent exceeds	24	6.2	118	
50 percent exceeds	0.22	0.00	18	
90 percent exceeds	0.00	0.00	0.00	

^a Estimated

