

Water-Data Report 2011

08190000 Nueces River at Laguna, TX

Nueces Basin
Nueces Headwaters Subbasin

LOCATION.--Lat 29°25'42", long 99°59'49" referenced to North American Datum of 1927, Uvalde County, TX, Hydrologic Unit 12110101, on right bank 0.5 mi downstream from Sycamore Creek, 1.0 mi northeast of Laguna, and at mile 370.8.

DRAINAGE AREA.--737 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1923 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: May 1949, June 1952, Sept. 1964, Jan. 1966 to Aug. 1968, Feb. 1970 to Aug. 1971, Jan. 1974 to Aug. 1995.

BIOCHEMICAL DATA: Sept. 1964, Jan. 1966 to Aug. 1967, Feb. 1970, Jan. 1974 to Aug. 1995.

BIOLOGICAL DATA: Feb. 1970, Jan. 1974 to Aug. 1993.

PESTICIDE DATA: Aug. 1971, Jan. 1974 to Aug. 1995.

RADIOCHEMICAL DATA: Apr. 1981, Aug. 1995.

SEDIMENT DATA: Aug. 1995.

REVISED RECORDS.--WSP 1562: 1930, 1931(M), 1932, 1939. WDR TX-83-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,119.72 ft above NGVD of 1929. Prior to Jan. 26, 1925, nonrecording gage at site 2.0 mi downstream at different datum. Satellite telemeter at station.

REMARKS.--Records good. No known regulation. There are many small diversions above station for irrigation. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1913 reached a stage of about 29 ft (discharge, 210,000 ft³/s); flood of Sept. 21, 1923, reached a stage of about 26.5 ft (discharge, 160,000 ft³/s); from information by local residents. Maximum stage since at least 1866, that of Sept. 24, 1955.

08190000 Nueces River at Laguna, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	39	35	29	28	36	34	34	22	17	8.9	5.4	9.5
2	41	32	29	29	35	33	32	24	16	8.7	5.2	9.6
3	41	29	29	29	35	34	33	23	16	8.7	5.1	9.8
4	42	28	29	29	35	34	31	22	16	8.0	4.7	9.3
5	43	27	29	29	35	33	31	22	16	7.7	4.5	8.7
6	43	26	29	29	35	34	31	22	16	7.5	4.2	9.9
7	44	26	29	29	35	33	33	23	16	7.4	4.1	10
8	43	27	28	30	35	34	33	21	15	7.3	4.0	10
9	42	30	28	37	35	33	32	21	15	6.7	4.0	10
10	44	30	28	34	36	33	32	21	13	6.6	4.0	9.9
11	43	30	28	34	36	33	30	21	12	6.7	4.0	9.8
12	43	30	28	34	36	33	29	29	12	6.7	5.9	9.5
13	41	29	28	34	36	34	28	22	12	6.5	3.3	9.1
14	35	29	28	34	36	33	29	21	12	6.4	2.5	8.7
15	35	29	28	35	36	33	27	20	12	6.1	2.2	8.9
16	34	29	28	35	36	34	27	20	11	5.7	2.1	1.5
17	34	29	28	35	35	34	27	20	11	5.7	2.0	1.3
18	35	29	28	35	35	34	28	20	11	5.9	1.8	1.1
19	35	29	28	35	35	34	28	20	10	6.0	1.5	1.0
20	35	29	28	35	35	34	27	20	9.7	6.0	1.3	1.0
21	35	29	28	35	35	34	27	20	9.3	5.6	1.2	9.7
22	38	29	28	35	34	34	27	20	23	6.9	1.2	1.1
23	38	30	28	35	34	34	27	20	15	1.8	1.2	1.1
24	37	29	30	35	35	34	26	20	13	9.6	1.2	1.2
25	36	30	28	35	34	35	26	20	12	7.9	1.1	1.0
26	33	28	28	35	35	35	25	18	11	7.2	1.1	9.5
27	e34	29	28	35	35	35	23	18	10	6.5	1.1	8.9
28	e31	29	29	35	33	34	22	18	9.9	6.1	1.0	8.8
29	35	29	29	35	---	35	22	18	9.4	5.8	1.0	9.4
30	36	29	29	35	---	33	23	18	8.9	5.7	9.4	9.1
31	35	---	29	35	---	33	---	17	---	5.9	9.1	---
Total	1,180	873	881	1,034	983	1,047	850	641	390.2	224.4	394.7	301.1
Mean	38.1	29.1	28.4	33.4	35.1	33.8	28.3	20.7	13.0	7.24	12.7	10.0
Max	44	35	30	37	36	35	34	29	23	18	5.9	1.5
Min	31	26	28	28	33	33	22	17	8.9	5.6	4.0	8.7
Ac-ft	2,340	1,730	1,750	2,050	1,950	2,080	1,690	1,270	774	445	783	597
Cfs/m	0.05	0.04	0.04	0.05	0.05	0.05	0.04	0.03	0.02	0.01	0.02	0.01
In.	0.06	0.04	0.04	0.05	0.05	0.05	0.04	0.03	0.02	0.01	0.02	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	229	169	125	107	115	114	123	159	253	168	156	229
Max	2,030	1,778	894	610	1,160	867	963	868	5,407	1,580	2,500	2,668
(WY)	(1974)	(2002)	(1992)	(1992)	(1949)	(1992)	(2004)	(1935)	(1935)	(1939)	(1971)	(1955)
Min	7.39	5.42	5.58	5.46	5.10	7.04	23.7	18.2	12.2	7.24	6.99	8.60
(WY)	(1953)	(1957)	(1957)	(1957)	(1957)	(1957)	(1935)	(1953)	(1953)	(2011)	(1953)	(1956)

08190000 Nueces River at Laguna, TX—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1924 - 2011	
Annual total	31,279		8,799.4			
Annual mean	85.7		24.1		162	
Highest annual mean					611	1935
Lowest annual mean					23.1	1953
Highest daily mean	511	Apr 17	59	Aug 12	107,000	Jun 14, 1935
Lowest daily mean	26	Nov 6	4.0	Aug 8	3.0	Feb 27, 1957
Annual seven-day minimum	28	Nov 3	4.1	Aug 5	3.2	Mar 10, 1957
Maximum peak flow			106	Aug 12	ⁱ 307,000	Sep 24, 1955
Maximum peak stage			2.45	Aug 12	^a 32.70	Sep 24, 1955
Annual runoff (ac-ft)	62,040		17,450		117,500	
Annual runoff (cfsm)	0.116		0.033		0.220	
Annual runoff (inches)	1.58		0.44		2.99	
10 percent exceeds	154		35		251	
50 percent exceeds	68		28		78	
90 percent exceeds	29		8.0		24	

ⁱ From indirect measurement of peak flow.

^a From floodmark.

