

Water-Data Report 2011

08192000 Nueces River below Uvalde, TX

Nueces Basin
Upper Nueces Subbasin

LOCATION.--Lat 29°07'25", long 99°53'40" referenced to North American Datum of 1927, Uvalde County, TX, Hydrologic Unit 12110103, on right bank, 5.7 mi upstream from bridge on U.S. Highway 83, 8.8 mi southwest of Uvalde, 18.2 mi downstream from West Nueces River, and at mile 338.7.

DRAINAGE AREA.--1,861 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Apr. 1939 to current year.

PERIOD OF RECORD, Water-quality.--

CHEMICAL DATA: Jan. 1963 to Aug. 1995.

BIOCHEMICAL DATA: Jan. 1963 to Aug. 1995.

BIOLOGICAL DATA: Aug. 1995.

PESTICIDE DATA: Aug. 1995.

RADIOCHEMICAL DATA: Aug. 1995.

SEDIMENT DATA: Aug. 1995.

REVISED RECORDS.--WSP 1732: 1956(M). WDR TX-83-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 796.12 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. Part of the flow of the Nueces River and its headwater tributaries enters the Edwards and associated limestones in the Balcones Fault Zone that crosses the basin between Nueces River at Laguna (station 08190000) and this station. No known regulation. There are many small diversions above station for irrigation. No flow at times. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1836, 40.4 ft June 14, 1935, from floodmark (discharge 616,000 ft³/s at Nueces River near Uvalde, discontinued station 08191500, 8.5 miles upstream, by slope-area measurement). Large floods also occurred in 1901 and 1913, stages unknown.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 850 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 1	0000	*8.3	*2.41

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.0	6.7	6.8	6.2	5.7	4.9	5.2	3.2	1.6	0.81	0.46	0.00
2	8.0	6.6	7.0	6.2	5.2	4.9	5.2	3.2	1.4	0.81	0.41	0.00
3	7.6	6.3	7.1	6.6	5.2	5.2	5.2	3.1	1.4	0.86	0.38	0.00
4	7.3	6.3	7.1	6.6	5.2	5.2	4.9	3.0	1.4	0.78	0.34	0.00
5	7.0	6.3	7.0	6.5	5.2	5.4	4.3	3.0	1.4	0.71	0.31	0.00
6	7.0	6.6	7.0	6.2	5.1	5.0	4.6	3.2	1.4	0.65	0.27	0.00
7	7.0	6.6	7.1	6.2	5.0	5.0	4.6	3.8	1.3	0.65	0.25	0.00
8	7.0	6.6	7.1	6.2	5.0	5.2	4.6	2.9	1.2	0.62	0.22	0.00
9	7.0	6.5	7.0	6.8	4.9	5.1	4.6	2.6	1.1	0.56	0.19	0.00
10	7.0	6.6	7.0	6.2	4.7	4.9	4.5	2.6	1.1	0.50	0.21	0.00
11	7.0	7.0	7.0	6.1	4.9	5.1	4.2	2.6	1.1	0.48	0.39	0.00
12	7.0	7.0	6.9	5.9	4.9	5.2	4.3	3.5	1.0	0.48	0.38	0.00
13	6.9	6.7	7.0	5.9	4.9	5.2	4.3	3.0	1.0	0.48	0.35	0.00
14	6.8	6.6	7.0	6.1	4.9	5.2	4.3	2.5	0.99	0.46	0.31	0.00
15	6.6	6.6	7.0	6.5	4.9	5.2	4.2	2.4	0.97	0.44	0.26	0.00
16	6.9	6.6	7.0	6.8	5.0	5.2	4.0	2.4	0.88	0.42	0.19	0.00
17	7.0	6.6	7.0	6.2	5.1	5.2	4.1	2.3	0.86	0.40	0.16	0.00
18	7.0	6.6	7.0	6.2	5.2	5.2	4.3	2.2	0.83	0.40	0.14	0.02
19	7.0	6.6	7.0	6.0	5.2	5.2	4.3	2.2	0.75	0.52	0.11	0.05
20	7.0	6.8	7.0	6.1	5.1	5.2	4.1	2.0	0.73	0.86	0.08	0.06
21	6.9	7.0	7.0	5.9	5.1	5.2	4.0	2.1	0.80	0.69	0.06	0.07
22	7.0	7.0	7.0	5.9	5.2	5.3	4.0	2.1	2.7	0.66	0.05	0.06
23	7.0	7.0	7.0	5.9	5.2	5.2	3.9	2.0	1.6	1.2	0.04	0.06
24	7.0	7.0	7.2	5.9	5.0	5.2	3.7	2.0	1.2	0.84	0.04	0.05
25	7.0	7.0	6.8	5.9	5.0	5.2	3.7	1.9	1.00	0.67	0.03	0.05
26	6.9	7.0	6.6	5.9	5.2	5.4	3.6	1.8	0.96	0.59	0.02	0.04
27	7.0	7.0	6.6	5.9	5.2	5.2	3.3	1.8	0.88	0.53	0.02	0.03
28	6.8	7.1	6.8	5.9	4.8	5.1	3.2	1.8	0.84	0.48	0.02	0.02
29	6.6	7.4	6.8	5.9	---	5.2	3.1	1.7	0.83	0.46	0.02	0.02
30	6.6	6.8	6.6	5.9	---	5.2	3.2	1.6	0.81	0.45	0.01	0.01
31	6.6	---	6.5	5.9	---	5.2	---	1.6	---	0.45	0.01	---
Total	217.5	202.5	215.0	190.4	142.0	160.1	125.5	76.1	34.03	18.91	5.73	0.54
Mean	7.02	6.75	6.94	6.14	5.07	5.16	4.18	2.45	1.13	0.61	0.18	0.02
Max	8.0	7.4	7.2	6.8	5.7	5.4	5.2	3.8	2.7	1.2	0.46	0.07
Min	6.6	6.3	6.5	5.9	4.7	4.9	3.1	1.6	0.73	0.40	0.01	0.00
Ac-ft	431	402	426	378	282	318	249	151	67	38	11	1.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	248	140	84.1	70.4	90.1	65.9	83.0	103	241	154	193	199
Max	3,153	1,600	811	656	2,487	909	869	972	3,496	1,525	4,057	3,081
(WY)	(1974)	(2005)	(1992)	(1985)	(1949)	(1992)	(2004)	(1987)	(1958)	(1976)	(1998)	(1964)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1953)	(1953)	(1952)	(1952)	(1952)	(1952)	(1952)	(1953)	(1953)	(1951)	(1951)	(1951)

08192000 Nueces River below Uvalde, TX—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 1939 - 2011	
Annual total	2,894.7	1,388.31		
Annual mean	7.93	3.80	139	
Highest annual mean			678	1997
Lowest annual mean			3.63	1956
Highest daily mean	15	Apr 15	8.0	Oct 1
Lowest daily mean	4.6	Jan 8	0.00	Sep 1
Annual seven-day minimum	4.8	Jan 5	0.00	Sep 1
Maximum peak flow			25	Apr 24
Maximum peak stage			2.57	Apr 24
Annual runoff (ac-ft)	5,740	2,750	100,700	
10 percent exceeds	11	7.0	214	
50 percent exceeds	7.1	4.9	27	
90 percent exceeds	6.0	0.06	3.7	

ⁱ From indirect measurement of peak flow.^a From floodmark.