



Water-Data Report 2008

08164300 Navidad River near Hallettsville, TX

Lavaca Basin
Navidad Subbasin

LOCATION.--Lat 29°28'00", long 96°48'45" referenced to North American Datum of 1927, Lavaca County, TX, Hydrologic Unit 12100102, on right bank at downstream end of bridge on U.S. Highway 90-A, 0.8 mi downstream from Mixons Creek, 1.2 mi southwest of Sublime, and 8.0 mi northeast of Hallettsville.

DRAINAGE AREA.--332 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1961 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Oct. 1967 to Feb. 1968.

BIOCHEMICAL DATA: Oct. 1967 to Feb. 1968.

REVISED RECORDS.--WSP 2123: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 159.28 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions. 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 1860, 40 ft in June 1940; flood in July 1936 reached a stage of 39 ft, from information by local residents and Southern Pacific Railroad Company.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,630 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 19	1030	*6,450	*25.84

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	28	11	55	28	32	30	24	12	2.7	1.0	0.96	0.70
2	32	11	51	27	35	29	22	12	2.4	0.88	0.96	0.70
3	35	11	45	26	34	29	22	11	2.3	1.0	0.96	0.64
4	31	11	41	27	33	30	22	9.9	2.1	1.1	0.96	0.62
5	29	11	40	28	32	29	21	9.4	2.0	1.3	0.96	0.62
6	28	11	38	29	30	29	20	9.9	2.0	1.4	0.96	0.62
7	28	10	37	28	29	32	20	11	2.0	1.5	0.96	0.56
8	30	11	35	28	28	31	20	10	1.9	1.9	0.96	0.55
9	31	11	34	27	29	31	19	9.1	1.9	1.6	0.96	0.55
10	29	11	32	27	27	32	19	8.4	2.1	1.9	0.96	0.55
11	28	12	31	26	28	106	18	7.8	1.7	1.4	0.96	0.49
12	25	12	31	25	29	92	16	7.1	1.6	1.2	0.96	0.48
13	19	12	31	25	28	51	15	7.2	1.5	0.96	0.96	0.48
14	16	12	38	24	27	41	14	7.7	1.5	0.96	0.96	0.48
15	23	11	60	25	27	35	14	7.5	1.4	0.95	0.96	0.42
16	137	10	40	40	30	31	15	7.3	1.3	0.96	0.96	0.37
17	32	11	37	33	210	30	15	6.7	1.2	0.96	0.96	0.26
18	21	876	37	31	154	31	22	6.4	1.3	0.96	0.96	0.23
19	18	4,500	35	135	66	33	29	6.3	1.3	0.96	2.0	0.18
20	16	563	34	64	50	43	20	6.1	1.1	0.96	1.5	0.18
21	15	152	32	50	46	38	18	5.8	1.2	0.96	1.0	0.16
22	14	113	32	63	44	32	16	5.5	2.2	0.96	0.91	0.16
23	13	70	30	46	40	28	15	5.1	1.4	0.96	0.86	0.12
24	12	529	30	41	37	26	14	4.4	1.1	1.4	0.86	0.12
25	11	1,570	30	39	34	25	13	4.1	0.99	1.6	0.86	0.11
26	11	267	31	42	32	25	14	3.9	0.78	1.1	0.81	0.11
27	11	126	31	42	30	25	16	3.7	0.78	0.96	0.78	0.08
28	11	88	31	41	30	24	14	3.5	0.78	0.96	0.78	0.08
29	11	72	30	38	31	24	13	3.4	0.78	0.96	0.78	0.08
30	11	61	30	35	---	24	12	3.2	0.78	0.96	0.72	0.07
31	11	---	29	34	---	24	---	2.9	---	0.96	0.70	---
Total	767	9,176	1,118	1,174	1,282	1,090	532	218.3	46.09	35.63	29.84	10.77
Mean	24.7	306	36.1	37.9	44.2	35.2	17.7	7.04	1.54	1.15	0.96	0.36
Max	137	4,500	60	135	210	106	29	12	2.7	1.9	2.0	0.70
Min	11	10	29	24	27	24	12	2.9	0.78	0.88	0.70	0.07
Ac-ft	1,520	18,200	2,220	2,330	2,540	2,160	1,060	433	91	71	59	21
Cfsm	0.07	0.92	0.11	0.11	0.13	0.11	0.05	0.02	0.00	0.00	0.00	0.00
In.	0.09	1.03	0.13	0.13	0.14	0.12	0.06	0.02	0.01	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	153	186	127	134	161	128	189	291	242	39.8	25.6	138
Max	1,709	1,533	943	691	1,251	611	1,158	1,502	1,792	403	332	1,975
(WY)	(1999)	(2005)	(1977)	(1968)	(1992)	(1992)	(1973)	(1972)	(1973)	(2007)	(1971)	(1974)
Min	0.00	0.04	0.97	6.38	8.46	9.87	7.17	2.39	0.68	0.16	0.01	0.01
(WY)	(1991)	(1991)	(1991)	(1990)	(1996)	(1991)	(1996)	(1996)	(1990)	(1990)	(1990)	(1990)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1962 - 2008	
Annual total	75,163.5		15,479.63			
Annual mean	206		42.3		151	
Highest annual mean					508	1992
Lowest annual mean					11.3	2006
Highest daily mean	5,660	May 27	4,500	Nov 19	30,500	Sep 14, 1974
Lowest daily mean	7.6	Jan 3	0.07	Sep 30	0.00	Aug 5, 1964
Annual seven-day minimum	9.2	Aug 25	0.09	Sep 24	0.00	Sep 2, 1964
Maximum peak flow			6,450	Nov 19	53,500	Sep 13, 1974
Maximum peak stage			25.84	Nov 19	36.05	Sep 13, 1974
Annual runoff (ac-ft)	149,100		30,700		109,100	
Annual runoff (cfs)	0.620		0.127		0.454	
Annual runoff (inches)	8.42		1.73		6.17	
10 percent exceeds	349		41		135	
50 percent exceeds	34		14		22	
90 percent exceeds	11		0.78		2.0	

