



Water-Data Report 2008

**08198500 Sabinal River at Sabinal, TX**

Nueces Basin  
Upper Frio Subbasin

LOCATION.--Lat 29°18'05", long 99°28'46" referenced to North American Datum of 1927, Uvalde County, TX, Hydrologic Unit 12110106, on left bank 80 ft downstream from bridge on U.S. Highway 90, 1,100 ft downstream from Southern Pacific Lines railroad bridge, 0.8 mi west of Sabinal, 5.8 mi upstream from Ranchero Creek, and 21.1 mi upstream from mouth.

DRAINAGE AREA.--241 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Sept. 1952 to current year.

REVISED RECORDS.--WDR TX-83-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 882.17 ft above NGVD of 1929. Prior to July 29, 1958, nonrecording gage, and July 29, 1958, to Mar. 19, 1964, water-stage recorder at site 80 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation. Several small diversions for irrigation above station. Most of low flow of the Sabinal River enters the Edwards and associated limestones in the Balcones Fault Zone, which crosses the basin upstream from this station and downstream from Sabinal River near Sabinal (station 08198000). No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1890, 40 ft Aug. 24, 1919, from information by local residents. Flood of July 2, 1932, reached a stage of 31 ft (discharge, 60,000 ft<sup>3</sup>/s), from information by Southern Pacific Lines. Information indicates that a flood in 1858 covered the town site of Sabinal. The stage would have been 70 to 80 ft, which seems unlikely. However, it is possible that a flood occurred in 1858 that covered part of the town site and was higher than any flood since that date.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Aug 20	0515	*123	*5.09

**08198500 Sabinal River at Sabinal, TX—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**  
[*e*, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	21	5.1	4.6	3.2	3.2	2.9	1.9	2.1	0.91	0.88	0.79	1.4
<b>2</b>	20	5.0	4.5	3.1	3.2	3.0	1.9	2.1	0.92	0.94	0.79	1.4
<b>3</b>	18	4.9	4.4	3.2	3.2	2.8	1.8	2.1	0.93	0.98	0.77	1.3
<b>4</b>	16	4.8	4.5	3.2	3.2	3.0	1.8	2.1	0.93	0.93	0.75	1.3
<b>5</b>	14	4.8	4.4	3.2	3.1	3.0	1.8	2.1	0.93	0.94	0.78	1.3
<b>6</b>	12	4.7	4.4	3.2	3.0	2.8	1.8	1.9	0.97	0.94	0.83	1.3
<b>7</b>	11	4.6	4.5	3.2	3.0	2.6	1.8	1.8	0.99	1.0	0.84	1.2
<b>8</b>	10	4.6	4.5	3.0	3.0	2.5	1.7	1.7	1.0	1.1	0.84	1.3
<b>9</b>	9.2	4.6	4.4	3.0	3.0	2.3	1.7	1.7	1.1	1.0	0.81	1.2
<b>10</b>	8.8	4.5	4.6	3.0	2.9	2.3	1.7	1.6	1.1	1.0	0.78	1.2
<b>11</b>	8.3	4.2	4.7	3.0	2.9	2.2	1.9	1.3	1.0	0.96	0.76	1.3
<b>12</b>	7.7	4.1	4.5	3.0	2.9	2.2	2.1	1.4	1.0	0.92	0.81	1.2
<b>13</b>	7.3	4.1	4.6	3.0	2.9	2.0	2.3	1.2	1.00	0.91	0.83	1.2
<b>14</b>	6.9	4.1	4.4	2.9	2.9	2.0	2.5	1.1	1.0	0.91	0.84	1.2
<b>15</b>	6.6	4.8	4.4	2.8	2.8	2.0	2.4	1.1	1.0	0.88	0.83	1.2
<b>16</b>	6.4	4.9	4.4	2.8	3.0	2.1	2.5	1.3	1.0	0.84	0.89	1.1
<b>17</b>	6.4	5.0	4.4	2.7	3.0	2.1	2.4	1.2	1.1	0.81	0.97	1.1
<b>18</b>	6.0	4.9	4.4	2.7	3.0	2.0	e2.3	1.1	1.1	0.81	0.98	1.1
<b>19</b>	5.8	4.9	4.3	2.6	2.9	2.0	e2.1	1.2	0.98	0.76	0.99	1.1
<b>20</b>	5.8	4.8	4.2	2.7	2.9	2.3	e2.0	1.1	0.98	0.76	15	1.1
<b>21</b>	5.7	4.7	4.3	2.7	2.9	2.0	1.9	1.1	0.97	0.76	1.5	1.1
<b>22</b>	6.3	4.9	4.0	2.7	2.9	1.9	1.9	1.1	1.1	0.73	1.3	1.1
<b>23</b>	6.2	5.0	3.8	2.6	2.9	1.9	2.0	1.1	1.1	0.74	1.5	1.1
<b>24</b>	6.1	5.1	3.8	2.7	2.8	2.1	1.9	1.1	1.1	0.87	1.4	1.1
<b>25</b>	6.0	5.1	3.8	2.7	2.8	2.1	1.9	1.0	1.1	0.92	1.4	1.1
<b>26</b>	6.0	4.9	3.6	2.7	2.8	2.1	2.5	1.00	0.98	0.86	1.4	0.92
<b>27</b>	5.8	4.9	3.5	2.8	2.8	2.1	1.9	0.96	0.96	0.83	1.4	0.90
<b>28</b>	5.8	4.9	3.5	2.9	2.9	2.2	2.0	0.91	0.89	0.80	1.4	0.89
<b>29</b>	5.6	4.6	3.4	2.9	3.0	2.3	2.0	0.90	0.87	0.79	1.5	0.87
<b>30</b>	5.5	4.6	3.3	3.0	---	2.2	2.1	0.96	0.87	0.77	1.5	0.85
<b>31</b>	5.4	---	3.2	3.1	---	2.0	---	0.92	---	0.77	1.4	---
<b>Total</b>	271.6	142.1	129.3	90.3	85.8	71.0	60.5	42.25	29.88	27.11	46.58	34.43
<b>Mean</b>	8.76	4.74	4.17	2.91	2.96	2.29	2.02	1.36	1.00	0.87	1.50	1.15
<b>Max</b>	21	5.1	4.7	3.2	3.2	3.0	2.5	2.1	1.1	1.1	15	1.4
<b>Min</b>	5.4	4.1	3.2	2.6	2.8	1.9	1.7	0.90	0.87	0.73	0.75	0.85
<b>Ac-ft</b>	539	282	256	179	170	141	120	84	59	54	92	68

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2008, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	33.5	21.6	17.8	13.6	18.3	22.8	24.9	31.4	103	103	34.6	21.6
<b>Max</b>	261	247	498	292	510	535	349	427	1,493	2,333	709	210
(WY)	(1970)	(2001)	(1992)	(1992)	(1992)	(1992)	(1992)	(1987)	(1987)	(2002)	(1971)	(1958)
<b>Min</b>	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)	(1953)	(1953)	(1953)	(1956)	(1956)	(1953)	(1953)	(1953)	(1962)	(1962)

**08198500 Sabinal River at Sabinal, TX—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2007</b>	<b>Water Year 2008</b>	<b>Water Years 1952 - 2008</b>
<b>Annual total</b>	29,769.31	1,030.85	
<b>Annual mean</b>	81.6	2.82	37.3
<b>Highest annual mean</b>			265
<b>Lowest annual mean</b>			0.07
<b>Highest daily mean</b>	9,210	Jul 21	22,900
<b>Lowest daily mean</b>	0.58	Jan 15	Jul 5, 2002
<b>Annual seven-day minimum</b>	0.61	Jan 10	0.00
<b>Maximum peak flow</b>		123 Aug 20	119,000
<b>Maximum peak stage</b>		5.09 Aug 20	a39.00
<b>Annual runoff (ac-ft)</b>	59,050	2,040	27,030
<b>10 percent exceeds</b>	175	5.0	41
<b>50 percent exceeds</b>	4.6	2.1	1.8
<b>90 percent exceeds</b>	0.76	0.89	0.19

<sup>a</sup> From floodmark.

