



Water-Data Report 2008

**08150800 Beaver Creek near Mason, TX**

Middle Colorado-Llano Basin  
Llano Subbasin

LOCATION.--Lat 30°38'36", long 99°05'44" referenced to North American Datum of 1927, Mason County, TX, Hydrologic Unit 12090204, on left bank at downstream side of downstream bridge on U.S. Highway 87, 1.8 mi upstream from Llano River, 6.4 mi downstream from Spring Creek, and 11.1 mi southeast of Mason.

DRAINAGE AREA.--215 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1963 to current year.

REVISED RECORDS.--WSP 2122: 1964-65. WDR TX-81-3: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,253.24 ft above NGVD of 1929. Prior to Aug. 3, 1978, at site 300 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--Records good except for daily discharges for Mar. 27 and 31, Apr. 1, May 6-7, 30, and June 3-4, which are fair and Mar. 30, which is poor. 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 FOR CURRENT YEAR.--Peak discharges greater than base discharge of 875 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Aug 18	0645	*350	*3.10

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**08150800 Beaver Creek near Mason, TX—Continued**

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

<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>	34	23	21	17	14	9.9	9.9	7.2	2.0	0.49	0.34	4.2
<b>2</b>	33	22	20	16	13	9.5	9.4	6.4	1.9	0.53	0.27	3.7
<b>3</b>	32	21	20	17	14	11	9.3	6.1	1.7	0.90	0.27	3.4
<b>4</b>	31	21	20	17	14	11	16	5.5	1.7	0.98	0.33	3.1
<b>5</b>	31	20	20	16	14	9.7	16	5.8	1.6	0.91	0.38	3.1
<b>6</b>	30	20	19	17	13	9.7	11	6.5	1.4	0.78	0.42	3.0
<b>7</b>	29	19	18	17	13	9.7	9.5	5.8	1.4	0.86	0.38	2.9
<b>8</b>	28	19	18	17	13	9.5	9.0	5.1	1.5	2.3	0.26	2.8
<b>9</b>	31	19	18	16	12	9.2	9.1	4.7	1.4	1.8	0.24	2.7
<b>10</b>	31	19	19	16	12	11	10	4.7	1.3	1.6	0.23	2.7
<b>11</b>	28	19	19	16	13	14	9.9	5.1	1.2	1.5	0.20	2.1
<b>12</b>	28	19	20	15	12	13	8.7	4.6	1.1	0.93	0.43	2.2
<b>13</b>	27	19	21	15	12	11	8.7	4.0	0.98	0.57	11	1.8
<b>14</b>	27	20	20	15	12	9.7	7.4	14	0.92	0.43	4.1	1.6
<b>15</b>	27	19	20	15	12	9.0	7.0	17	0.72	0.35	2.0	1.6
<b>16</b>	30	19	18	16	14	9.3	6.9	9.4	0.68	0.32	1.7	1.6
<b>17</b>	28	19	19	16	15	9.4	7.3	7.4	0.66	0.30	1.9	1.6
<b>18</b>	27	20	18	16	13	10	11	6.4	0.67	0.30	89	1.6
<b>19</b>	25	20	19	16	11	16	10	5.5	0.57	0.28	26	1.8
<b>20</b>	25	19	19	15	12	13	8.4	4.3	0.98	0.26	12	1.9
<b>21</b>	24	20	18	16	12	10	7.9	3.9	2.8	0.27	8.1	2.1
<b>22</b>	33	20	18	17	12	9.8	8.2	3.7	2.7	0.26	5.7	1.8
<b>23</b>	32	19	17	16	11	9.7	7.7	3.2	1.7	0.22	4.3	1.7
<b>24</b>	27	22	18	17	11	9.6	6.9	3.1	1.3	0.43	4.7	1.7
<b>25</b>	25	35	18	17	10	9.2	7.0	2.6	1.1	0.36	5.3	1.7
<b>26</b>	25	29	18	16	9.5	8.4	7.4	2.5	0.90	0.75	5.1	1.6
<b>27</b>	25	24	18	16	9.3	8.1	25	2.5	0.70	1.4	7.1	1.5
<b>28</b>	23	21	18	16	8.8	8.6	15	2.4	0.58	0.91	5.0	1.6
<b>29</b>	23	20	18	15	8.9	11	10	2.6	0.45	0.55	5.0	1.4
<b>30</b>	23	20	17	15	---	11	8.1	2.3	0.46	0.41	4.5	1.4
<b>31</b>	22	---	17	14	---	10	---	2.2	---	0.37	3.7	---
<b>Total</b>	864	626	581	496	350.5	320.0	297.7	166.5	37.07	22.32	209.95	65.9
<b>Mean</b>	27.9	20.9	18.7	16.0	12.1	10.3	9.92	5.37	1.24	0.72	6.77	2.20
<b>Max</b>	34	35	21	17	15	16	25	17	2.8	2.3	89	4.2
<b>Min</b>	22	19	17	14	8.8	8.1	6.9	2.2	0.45	0.22	0.20	1.4
<b>Ac-ft</b>	1,710	1,240	1,150	984	695	635	590	330	74	44	416	131
<b>Cfsm</b>	0.13	0.10	0.09	0.07	0.06	0.05	0.05	0.02	0.01	0.00	0.03	0.01
<b>In.</b>	0.15	0.11	0.10	0.09	0.06	0.06	0.05	0.03	0.01	0.00	0.04	0.01

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 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>	26.3	14.7	13.4	12.5	20.9	22.3	18.0	28.8	35.4	8.14	20.7	11.1
<b>Max</b>	329	215	220	183	285	164	132	197	327	133	443	167
(WY)	(1997)	(2001)	(1992)	(1968)	(1992)	(1997)	(1977)	(1975)	(1987)	(2007)	(1978)	(1964)
<b>Min</b>	0.37	0.91	1.44	1.84	1.41	1.29	0.49	0.72	0.21	0.00	0.00	0.02
(WY)	(1983)	(1980)	(1983)	(1971)	(1984)	(1967)	(1984)	(1996)	(1971)	(1964)	(1985)	(1977)

**08150800 Beaver Creek near Mason, TX—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2007</b>	<b>Water Year 2008</b>		<b>Water Years 1963 - 2008</b>	
<b>Annual total</b>	27,532.2		4,036.94		
<b>Annual mean</b>	75.4		11.0		19.4
<b>Highest annual mean</b>				91.5	1997
<b>Lowest annual mean</b>				1.97	1967
<b>Highest daily mean</b>	4,030	Aug 17	89	Aug 18	12,800 Aug 3, 1978
<b>Lowest daily mean</b>	2.4	Mar 3	0.20	Aug 11	0.00 Aug 3, 1963
<b>Annual seven-day minimum</b>	2.5	Mar 2	0.27	Jul 17	0.00 Aug 3, 1963
<b>Maximum peak flow</b>			350	Aug 18	i 66,900 Aug 3, 1978
<b>Maximum peak stage</b>			3.10	Aug 18	a 24.00 Aug 3, 1978
<b>Annual runoff (ac-ft)</b>	54,610		8,010		14,050
<b>Annual runoff (cfs-m)</b>	0.351		0.051		0.090
<b>Annual runoff (inches)</b>	4.76		0.70		1.23
<b>10 percent exceeds</b>	105		23		24
<b>50 percent exceeds</b>	22		9.7		3.5
<b>90 percent exceeds</b>	4.1		0.68		0.24

<sup>i</sup> From slope-area measurement of peak flow.<sup>a</sup> From floodmark.