



Water-Data Report 2011

**08050100 Mountain Creek at Grand Prairie, TX**

Upper Trinity Basin  
Lower West Fork Trinity Subbasin

LOCATION.--Lat 32°44'51", long 96°55'32" referenced to North American Datum of 1927, Dallas County, TX, Hydrologic Unit 12030102, on roadway embankment at upstream right end of downstream bridge on West Jefferson Boulevard, 1,000 ft upstream from bridge on U.S. Highway 180, 1.2 mi upstream from Texas and Pacific Railroad Company bridge, 1.5 mi downstream from Mountain Creek Lake Dam, and 4.4 mi east of Grand Prairie.

DRAINAGE AREA.--298 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Oct. 1960 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: May 1969, Feb. to May 1994.

PESTICIDE DATA: Feb. to May 1994.

SEDIMENT DATA: Feb. to May 1994.

GAGE.--Water-stage recorder. Datum of gage is 404.31 ft above NGVD of 1929. Prior to Dec. 19, 1984, at datum 3.0 ft higher. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily mean discharges, which are poor. Some records listed in the Period of Record for surface water and water quality may not be available electronically. Since installation of gage, flows have been regulated by Mountain Creek Lake Dam. No flow at times. No known diversions.

## Water-Data Report 2011

**08050100 Mountain Creek at Grand Prairie, TX—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**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>	2.4	2.2	2.3	2.4	9.0	2.8	2.5	4.6	1.4	1.4	e1.3	0.83
<b>2</b>	1.8	38	2.7	2.1	4.2	2.4	2.3	967	1.3	4.1	1.3	0.85
<b>3</b>	345	910	2.1	2.5	2.4	2.8	12	526	1.2	4.3	1.3	0.92
<b>4</b>	6.5	10	2.1	2.2	2.4	3.3	377	5.6	1.1	3.7	1.3	0.91
<b>5</b>	2.2	4.5	1.6	2.1	9.2	2.4	427	3.7	1.2	3.5	1.3	0.97
<b>6</b>	2.3	3.6	1.5	2.1	55	2.3	6.4	2.8	1.3	3.6	1.4	1.1
<b>7</b>	3.1	3.3	1.5	1.9	396	2.6	4.1	3.5	1.2	3.5	1.3	1.2
<b>8</b>	5.8	3.6	1.5	1.9	4.0	3.6	3.5	3.1	1.3	3.4	1.3	1.1
<b>9</b>	3.3	3.6	2.3	654	5.0	2.7	5.9	3.3	1.3	3.3	1.3	1.1
<b>10</b>	3.0	2.9	1.8	276	3.7	2.3	5.8	3.1	1.2	3.4	1.2	1.2
<b>11</b>	2.7	2.3	1.6	3.9	2.9	5.6	763	19	1.2	3.4	1.1	1.2
<b>12</b>	2.9	4.8	1.5	2.7	2.6	4.5	213	717	1.1	3.3	1.3	1.2
<b>13</b>	2.8	3.9	1.5	e2.3	4.2	3.3	3.5	8.7	1.1	3.2	3.3	1.1
<b>14</b>	2.9	2.7	1.7	2.8	3.2	2.7	3.9	3.0	1.3	3.2	2.9	1.0
<b>15</b>	3.0	2.5	6.7	3.2	3.4	2.5	5.4	450	1.1	3.2	1.5	1.1
<b>16</b>	2.9	2.6	4.3	218	4.9	2.7	3.1	3.2	1.1	2.1	1.0	1.2
<b>17</b>	3.0	7.1	1.6	3.5	7.4	7.9	4.0	338	1.6	1.3	0.88	2.0
<b>18</b>	3.1	2.5	1.6	2.3	3.7	4.6	5.3	10	1.9	1.3	0.89	1.5
<b>19</b>	2.8	2.5	1.9	2.0	355	3.2	9.1	2.7	2.7	1.3	0.89	1.7
<b>20</b>	2.7	3.0	3.5	508	6.8	4.1	14	3.9	1.9	1.3	0.91	1.5
<b>21</b>	2.7	6.5	3.3	3.3	4.6	4.6	3.5	315	49	1.9	0.89	1.3
<b>22</b>	2.7	5.3	1.8	2.1	386	21	8.6	5.5	43	2.2	0.92	1.4
<b>23</b>	14	2.6	1.7	2.0	14	5.2	6.2	280	3.0	2.1	0.93	1.6
<b>24</b>	453	8.9	12	179	5.6	2.1	7.6	453	1.4	2.0	0.89	1.6
<b>25</b>	6.6	3.3	12	3.1	348	3.3	225	60	1.2	2.2	1.0	1.5
<b>26</b>	3.7	2.4	2.8	1.8	4.6	3.2	5.6	4.8	1.2	1.5	1.0	1.4
<b>27</b>	2.3	2.3	414	1.8	5.6	2.3	2.8	3.7	1.4	1.2	0.97	1.4
<b>28</b>	2.3	3.1	34	1.8	5.7	2.2	1.8	6.2	1.0	1.2	0.96	1.2
<b>29</b>	2.4	2.7	317	2.3	---	2.2	3.3	7.2	1.1	1.3	0.94	1.1
<b>30</b>	2.5	2.1	281	3.1	---	2.5	4.8	2.8	1.2	e1.4	0.96	1.1
<b>31</b>	2.3	---	4.4	295	---	2.5	---	1.9	---	e1.5	0.90	---
<b>Total</b>	898.7	1,054.8	1,129.3	2,191.2	1,659.1	119.4	2,140.0	4,218.3	131.0	76.3	38.03	37.28
<b>Mean</b>	29.0	35.2	36.4	70.7	59.3	3.85	71.3	136	4.37	2.46	1.23	1.24
<b>Max</b>	453	910	414	654	396	21	763	967	49	4.3	3.3	2.0
<b>Min</b>	1.8	2.1	1.5	1.8	2.4	2.1	1.8	1.9	1.0	1.2	0.88	0.83
<b>Ac-ft</b>	1,780	2,090	2,240	4,350	3,290	237	4,240	8,370	260	151	75	74

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2011, 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>	87.0	82.6	99.1	112	177	236	207	258	170	71.3	40.7	67.8
<b>Max</b>	884	1,286	1,102	1,483	976	1,104	1,170	1,941	1,032	1,364	1,108	811
(WY)	(2010)	(1992)	(1972)	(1992)	(2001)	(1977)	(1966)	(1969)	(2007)	(2007)	(2004)	(2010)
<b>Min</b>	0.22	0.30	0.26	0.11	0.17	0.30	0.91	0.68	0.50	0.21	0.16	0.36
(WY)	(1989)	(1964)	(1976)	(1976)	(1964)	(1976)	(1987)	(1984)	(1971)	(1972)	(1972)	(1972)

**08050100 Mountain Creek at Grand Prairie, TX—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>	<b>Water Years 1961 - 2011</b>	
<b>Annual total</b>	77,317.35	13,693.41		
<b>Annual mean</b>	212	37.5	134	
<b>Highest annual mean</b>			506	1992
<b>Lowest annual mean</b>			4.39	1988
<b>Highest daily mean</b>	4,720	Sep 8	967 May 2	24,700 May 7, 1969
<b>Lowest daily mean</b>	0.35	Jan 10	0.83 Sep 1	0.00 Jan 25, 1964
<b>Annual seven-day minimum</b>	0.48	Jan 7	0.90 Aug 17	0.02 Dec 23, 1983
<b>Maximum peak flow</b>			3,080 May 2	38,100 Apr 19, 1976
<b>Maximum peak stage</b>			15.89 May 2	28.57 Mar 19, 2006
<b>Annual runoff (ac-ft)</b>	153,400		27,160	96,950
<b>10 percent exceeds</b>	880		20	308
<b>50 percent exceeds</b>	3.1		2.7	1.5
<b>90 percent exceeds</b>	1.3		1.1	0.38

