



Water-Data Report 2008

**08095600 Bosque River near Waco, TX**

Middle Brazos-Bosque Basin  
Bosque Subbasin

LOCATION.--Lat 31°36'04", long 97°11'36" referenced to North American Datum of 1927, McLennan County, TX, Hydrologic Unit 12060203, on downstream side of bridge on Farm Road 1637, 1.8 mi downstream from Waco Lake Dam, 2.8 mi upstream from mouth, and 4.7 mi northwest of courthouse in Waco.

DRAINAGE AREA.--1,656 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Aug. 1959 to Sept. 1981 (daily mean discharge). Oct. 1981 to Sept. 1982 (daily mean discharge above 2,000 ft<sup>3</sup>/s). Oct. 2007 to Sept. 2008 (Periodic discharge measurements).

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft <sup>3</sup> /s	Gage height, in ft
May 29, 2008	71.2	---

## 08095600 Bosque River near Waco, TX—Continued

**WATER-QUALITY RECORDS**

## PERIOD OF RECORD--

CHEMICAL DATA: Jan. 1962 to July 1964, Jan. 1981 to Aug. 1982, Feb. 1998 to Aug. 2008 (discontinued).

BIOCHEMICAL DATA: Jan. 1962 to July 1964, Jan. 1981 to Aug. 1982, Feb. 1998 to Aug. 2008 (discontinued).

RADIOCHEMICAL DATA: Jan. 1981 to May 1981.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 6

[Remark codes: &lt;, less than; A, average; E, estimated.]

Date	Time	Sample medium and type	DepthTo bottom at sample locati- on, feet (81903)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Baro- metri- c pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)
Feb 20...	0830	Surface water, regular	--	20	--	7.2	747
May 29...	0915	Surface water, regular	A6.60	--	71	13	753
Aug 13...	0830	Surface water, regular	--	20	--	8.2	748
							4.8
							65

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 6

[Remark codes: &lt;, less than; A, average; E, estimated.]

Date	pH, water, unfiltrd field, std units (00400)	Specif- ic conduc- tance, wat unf field, μS/cm (00095)	Temper- ature, wat air deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO <sub>3</sub> (00900)	Noncarb hard- ness, wat flt field, mg/L as CaCO <sub>3</sub> (00904)	Magnes- ium, water, fltrd, mg/L (00915)	Potas- sium, water, fltrd, mg/L (00925)	Sodium adsorp- tion ratio (00935)	Sodium frac- tion of cation (00931)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt field, mg/L as CaCO <sub>3</sub> (39086)	
Feb 20...	8.3	374	14.6	12.0	170	E15	58.8	5.04	3.57	.4	13	11.7	153
May 29...	8.2	363	27.5	26.9	150	15	53.1	4.99	3.79	.4	15	12.6	139
Aug 13...	7.8	455	28.3	29.4	150	27	51.3	6.39	4.45	1.1	30	31.4	128

## 08095600 Bosque River near Waco, TX—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 6

[Remark codes: &lt;, less than; A, average; E, estimated.]

Date	Bicarbonate, wat flt infl pt titr., field, mg/L (00453)	Carbon- ate, wat flt infl pt titr., field, mg/L (00452)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO <sub>2</sub> (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue + total non- filter- able, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrate water, fltrd, mg/L as N (71851)	
Feb 20...	E186	<1	12.0	.20	8.58	24.3	E217	13	.38	<.020	.27	1.16	.26
May 29...	168	<1	13.3	.22	8.30	23.5	E204	11	.46	<.020	.34	1.47	.33
Aug 13...	155	<1	38.4	.23	10.8	33.1	E252	<10	.47	<.020	<.04	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 6

[Remark codes: &lt;, less than; A, average; E, estimated.]

Date	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L (00613)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, 5 day, 20 degC mg/L (00310)	Alum- inum, water, fltrd, μg/L (01106)	Anti- mony, water, fltrd, μg/L (01095)	Arsenic water, fltrd, μg/L (01000)	Barium, water, fltrd, μg/L (01005)
Feb 20...	.012	.004	.64	E.011	E.003	.007	E.03	4.6	<2.0	2.5	.16	1.7	49
May 29...	.030	.009	.80	E.018	E.006	.007	E.03	5.3	<2.0	E1.5	.14	2.6	47
Aug 13...	--	<.002	--	.045	.015	.007	E.03	5.7	<2.0	2.2	.15	6.0	66

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 5 of 6

[Remark codes: &lt;, less than; A, average; E, estimated.]

Date	Beryll- ium, water, fltrd, μg/L (01010)	Cadmium water, fltrd, μg/L (01025)	Chrom- ium, water, fltrd, μg/L (01030)	Cobalt water, fltrd, μg/L (01035)	Copper water, fltrd, μg/L (01040)	Lead, water, fltrd, μg/L (01049)	Mangan- ese, water, fltrd, μg/L (01056)	Mercury water, fltrd, μg/L (71890)	Molyb- denum, water, fltrd, μg/L (01060)	Nickel, water, fltrd, μg/L (01065)	Selen- ium, water, fltrd, μg/L (01145)	Silver, water, fltrd, μg/L (01075)	Zinc, water, fltrd, μg/L (01090)
Feb 20...	<.01	<.04	<.12	.07	1.2	.09	.4	<.010	1.3	.97	.25	<.1	1.9
May 29...	<.01	<.04	.18	.08	E.77	E.06	.4	--	1.4	1.2	.25	<.1	E1.2
Aug 13...	<.01	<.04	<.12	.06	<1.0	<.08	7.4	<.010	1.7	1.1	.19	<.1	E1.2

**08095600 Bosque River near Waco, TX—Continued**

**WATER-QUALITY  
DATA  
WATER YEAR  
OCTOBER 2007 TO  
SEPTEMBER 2008**

Part 6 of 6

[Remark codes:  
<, less than;  
A, average;  
E, estimated.]

	<b>Uranium natural water, fltrd,</b>
<b>Date</b>	<b>µg/L (22703)</b>
<b>Feb</b>	
<b>20...</b>	<b>.76</b>
<b>May</b>	
<b>29...</b>	<b>.65</b>
<b>Aug</b>	
<b>13...</b>	<b>.65</b>