



Water-Data Report 2011

**08068390 Bear Branch at Research Forest Boulevard, The Woodlands, TX**

San Jacinto Basin  
Spring Subbasin

LOCATION.--Lat 30°11'26", long 95°29'28" referenced to North American Datum of 1983, Montgomery County, TX, Hydrologic Unit 12040102, on left bank at downstream side of bridge on Research Boulevard, 1.5 mi upstream from Panther Branch, and 8.4 mi southwest of Conroe.

DRAINAGE AREA.--15.4 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Jan. 1999 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Mar. 1999 to Nov. 1999.

BIOCHEMICAL DATA: Mar. 1999 to Nov. 1999.

BIOLOGICAL DATA: Mar. 1999 to Nov. 1999.

PESTICIDE DATA: Mar. 1999 to Nov. 1999.

SEDIMENT DATA: Mar. 1999 to Nov. 1999.

GAGE.--Water-stage recorder. Datum of gage is NAVD 1988. Prior to Oct. 1, 2010, datum of gage was 125.49 ft above NGVD of 1929 (124.68 ft above current datum). Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversion. 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 500 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan 9	1015	*150	*135.22

**08068390 Bear Branch at Research Forest Boulevard, The Woodlands, TX—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**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>	0.66	1.8	2.4	2.4	3.8	0.40	0.56	0.97	0.18	0.17	0.45	0.01
<b>2</b>	0.64	37	1.8	0.86	2.3	0.48	0.79	0.83	2.0	1.7	0.34	0.00
<b>3</b>	0.59	8.5	1.2	0.73	6.8	0.41	1.3	0.46	0.82	3.5	1.1	0.00
<b>4</b>	0.52	12	0.80	12	5.7	0.36	1.1	0.52	1.8	0.18	0.58	0.00
<b>5</b>	0.49	6.6	0.57	26	4.1	8.8	0.51	0.76	2.0	0.24	0.39	0.00
<b>6</b>	0.51	3.7	0.44	9.8	3.0	0.67	0.28	1.1	10	0.02	0.12	0.00
<b>7</b>	0.47	2.5	0.38	5.4	0.96	0.51	1.9	0.94	6.3	0.04	0.30	0.00
<b>8</b>	0.46	1.6	0.58	3.4	0.64	2.0	0.26	0.94	0.28	0.47	0.74	0.19
<b>9</b>	0.45	1.3	0.33	76	2.1	4.1	0.32	0.97	0.10	0.01	1.6	0.64
<b>10</b>	0.47	0.81	0.26	32	0.77	1.8	0.40	0.73	0.25	5.9	0.59	0.02
<b>11</b>	0.52	0.62	0.25	17	0.59	0.37	0.95	0.60	0.06	3.2	0.35	0.00
<b>12</b>	0.54	0.52	0.21	9.7	3.1	0.47	0.51	12	0.10	0.18	0.15	0.01
<b>13</b>	0.52	0.83	0.20	5.5	2.2	0.46	0.33	5.8	0.45	0.10	1.1	0.15
<b>14</b>	0.51	2.6	0.22	3.5	1.9	17	0.29	0.62	0.35	0.08	20	0.01
<b>15</b>	0.77	42	0.26	2.6	1.6	8.9	0.37	0.40	0.49	0.00	5.1	0.00
<b>16</b>	0.42	16	0.26	31	2.2	5.8	0.22	0.34	0.02	0.38	0.19	0.01
<b>17</b>	0.40	7.3	0.22	41	1.8	4.2	0.27	0.26	0.01	0.61	0.15	0.23
<b>18</b>	0.43	0.94	0.20	16	1.5	3.3	0.36	0.35	0.01	0.31	0.99	5.1
<b>19</b>	0.42	0.68	0.19	10	1.1	2.5	0.30	0.28	0.04	34	0.62	23
<b>20</b>	0.40	0.58	0.20	6.3	1.0	1.7	0.32	0.26	0.02	7.4	0.19	1.6
<b>21</b>	0.39	0.53	0.23	4.0	0.95	1.7	0.28	0.26	0.01	1.8	0.00	0.14
<b>22</b>	0.40	0.46	0.24	2.6	0.77	1.6	0.42	0.30	39	0.22	0.00	0.06
<b>23</b>	0.39	0.47	0.28	2.1	0.78	1.3	0.31	0.24	7.2	0.19	0.01	0.04
<b>24</b>	0.39	0.44	14	33	0.87	1.4	0.34	0.20	3.2	0.12	0.01	0.01
<b>25</b>	0.42	0.38	21	20	0.75	0.97	0.37	0.16	4.5	0.34	9.6	0.01
<b>26</b>	0.43	0.43	6.5	10	0.39	0.96	0.47	0.14	2.0	0.60	0.94	0.02
<b>27</b>	0.35	0.30	3.3	6.5	0.37	1.1	0.37	0.11	2.8	0.20	0.79	0.01
<b>28</b>	0.30	0.26	0.55	4.2	0.45	1.1	0.24	0.06	1.9	0.14	1.5	0.00
<b>29</b>	0.25	10	21	2.5	---	0.93	0.51	0.05	3.1	0.08	0.12	0.02
<b>30</b>	0.25	7.0	12	1.2	---	1.3	0.60	0.04	0.35	4.9	0.00	0.01
<b>31</b>	0.26	---	7.1	1.5	---	1.1	---	0.03	---	1.3	3.6	---
<b>Total</b>	14.02	168.15	97.17	398.79	52.49	77.69	15.25	30.72	89.34	68.38	51.62	31.29
<b>Mean</b>	0.45	5.61	3.13	12.9	1.87	2.51	0.51	0.99	2.98	2.21	1.67	1.04
<b>Max</b>	0.77	42	21	76	6.8	17	1.9	12	39	34	20	23
<b>Min</b>	0.25	0.26	0.19	0.73	0.37	0.36	0.22	0.03	0.01	0.00	0.00	0.00
<b>Ac-ft</b>	28	334	193	791	104	154	30	61	177	136	102	62

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 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>	35.8	30.4	16.6	20.8	21.8	19.7	18.8	25.9	33.7	15.3	7.21	24.2
<b>Max</b>	121	84.5	51.3	57.9	75.6	88.5	127	88.5	243	56.1	23.6	170
(WY)	(2003)	(2003)	(2002)	(2004)	(2005)	(2001)	(2009)	(2004)	(2001)	(2007)	(2008)	(2008)
<b>Min</b>	0.45	3.74	3.13	2.06	1.44	1.12	0.51	0.74	0.69	1.48	0.17	1.04
(WY)	(2011)	(2000)	(2011)	(2000)	(2000)	(2000)	(2011)	(2003)	(2009)	(2008)	(2000)	(2011)

**08068390 Bear Branch at Research Forest Boulevard, The Woodlands, TX—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>	<b>Water Years 1999 - 2011</b>	
<b>Annual total</b>	4,545.45	1,094.91		
<b>Annual mean</b>	12.5	3.00	23.1	
<b>Highest annual mean</b>			40.7	2001
<b>Lowest annual mean</b>			3.00	2011
<b>Highest daily mean</b>	249	Jan 29	76	Jan 9
<b>Lowest daily mean</b>	0.08	Aug 15	0.00	Jul 15
<b>Annual seven-day minimum</b>	0.14	Aug 9	0.00	Sep 1
<b>Maximum peak flow</b>			150	Jan 9
<b>Maximum peak stage</b>			135.22	Jan 9
<b>Annual runoff (ac-ft)</b>	9,020	2,170	4,980	Jun 8, 2001
<b>10 percent exceeds</b>	28	7.2	16,770	
<b>50 percent exceeds</b>	3.2	0.53	49	
<b>90 percent exceeds</b>	0.38	0.04	3.4	
				0.24

<sup>a</sup> Datum then in use.

