



Water-Data Report 2011

08047050 Marys Creek at Benbrook, TX

Upper Trinity Basin
Lower West Fork Trinity Subbasin

LOCATION.--Lat 32°41'42", long 97°26'49" referenced to North American Datum of 1927, Tarrant County, TX, Hydrologic Unit 12030102, on left bank of upstream side of bridge, 0.75 mi north of I-20 on Winscott Road in Benbrook, 0.125 mi downstream from confluence with Walnut Creek and 0.25 mi upstream from confluence with Clear Fork Trinity River.

DRAINAGE AREA.--54.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 604.97 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair except for daily mean discharges from June to Sept., which are poor. Daily mean and peak discharges greater than 3,000 ft³s are poor. Some records listed in the Period of Record for surface water may not be available electronically. No known regulation. Low flow is affected at times by diversions from small dams upstream. No flow at times most years.

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08047050 Marys Creek at Benbrook, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.3	2.0	1.1	4.0	e22	1.1	1.5	13	0.98	e0.72	e0.20	e0.10
2	1.1	14	1.1	4.4	e76	1.1	1.8	81	1.0	e0.50	e0.16	e0.09
3	0.74	7.3	1.1	4.3	e5.3	1.2	1.8	3.1	0.89	e0.50	e0.16	e0.09
4	0.74	1.9	1.2	4.6	e4.2	1.1	19	1.7	0.84	e0.50	e0.16	e0.09
5	0.79	1.8	1.1	5.2	7.4	1.3	1.9	1.3	0.91	e0.50	e0.16	e0.09
6	0.90	1.8	0.97	5.1	5.6	1.4	1.7	1.3	0.97	e0.50	e0.16	e0.08
7	0.97	1.8	0.99	4.6	5.6	1.4	1.8	1.2	0.94	e0.46	e0.16	e0.08
8	0.87	1.8	1.0	4.5	3.0	1.1	1.8	1.1	0.83	e0.41	e0.15	e0.08
9	0.90	1.9	1.1	113	e28	1.1	1.8	1.1	0.75	e0.40	e0.13	e0.08
10	0.84	1.9	1.1	16	1.8	0.99	1.7	1.1	0.79	e0.40	e0.13	e0.07
11	0.89	2.0	1.0	5.4	1.6	0.97	e17	53	0.82	e0.40	e0.13	e0.07
12	0.85	3.9	0.99	5.1	1.7	0.90	e5.2	3.5	0.97	e0.40	e0.30	e0.07
13	0.87	1.8	1.0	5.3	1.7	0.93	3.9	1.6	0.82	e0.40	17	e0.07
14	1.1	1.5	1.1	3.6	1.4	0.89	2.9	1.3	0.85	e0.35	e1.00	e0.06
15	1.4	1.5	1.2	3.6	1.4	0.88	2.8	1.2	0.77	e0.32	e0.49	e0.06
16	1.4	1.3	1.2	3.8	1.4	0.93	2.2	1.1	0.73	e0.32	e0.11	15
17	1.4	1.1	1.1	3.4	1.3	1.1	2.0	1.1	0.75	e0.32	e0.14	e1.5
18	1.2	1.6	1.0	3.2	1.2	0.97	1.8	1.1	0.68	e0.32	e0.13	e1.1
19	1.3	0.99	1.0	3.3	1.2	1.3	1.5	1.0	0.62	e0.32	e0.12	e0.90
20	1.3	1.0	1.3	3.2	1.3	1.2	1.3	3.4	0.65	e0.29	e0.14	e0.75
21	1.3	1.2	1.5	3.0	1.3	1.1	0.95	1.6	1.5	e0.26	e0.18	e0.60
22	1.3	1.2	1.7	2.8	1.3	1.2	0.76	3.9	1.7	e0.30	e0.13	e0.50
23	90	1.1	1.8	2.8	1.2	1.1	0.75	49	0.81	e0.28	e0.11	e0.41
24	5.6	1.2	33	2.7	1.3	1.2	1.00	4.2	0.77	e0.26	e0.11	e0.39
25	2.3	1.1	5.0	2.9	1.4	1.2	3.1	2.7	0.68	e0.29	e0.11	e0.39
26	2.2	0.95	2.7	2.8	1.2	1.1	0.96	1.7	0.61	e0.25	e0.10	e0.34
27	2.1	1.1	2.7	2.9	1.1	1.1	0.94	1.4	0.63	e0.20	e0.10	e0.30
28	2.0	1.1	3.9	3.0	1.2	1.2	0.87	1.4	e0.50	e0.21	e0.10	e0.25
29	2.1	1.1	12	2.8	---	1.2	0.86	1.1	e0.55	e0.21	e0.10	e0.25
30	2.1	1.2	3.4	2.6	---	1.3	0.81	0.92	e0.64	e0.21	e0.10	e0.21
31	2.1	---	3.9	2.6	---	1.3	---	0.99	---	e0.20	e0.10	---
Total	133.96	64.14	93.25	236.5	183.1	34.86	86.40	243.11	24.95	11.00	22.37	24.07
Mean	4.32	2.14	3.01	7.63	6.54	1.12	2.88	7.84	0.83	0.35	0.72	0.80
Max	90	14	33	113	76	1.4	19	81	1.7	0.72	17	15
Min	0.74	0.95	0.97	2.6	1.1	0.88	0.75	0.92	0.50	0.20	0.10	0.06
Ac-ft	266	127	185	469	363	69	171	482	49	22	44	48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	16.9	15.6	12.7	16.0	39.9	48.7	26.5	25.2	47.9	10.7	3.59	7.29
Max	173	82.7	55.2	60.3	181	127	75.5	87.5	316	80.7	23.0	43.1
(WY)	(2010)	(2010)	(2010)	(2010)	(2001)	(2001)	(2010)	(1999)	(2004)	(2007)	(2007)	(2009)
Min	0.27	0.07	0.66	1.82	2.47	1.12	2.88	5.12	0.83	0.21	0.18	0.03
(WY)	(2006)	(2006)	(2006)	(2006)	(2008)	(2011)	(2011)	(2005)	(2011)	(1998)	(2000)	(2005)

08047050 Marys Creek at Benbrook, TX—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 1998 - 2011	
Annual total	15,128.81	1,157.71		
Annual mean	41.4	3.17	22.9	
Highest annual mean			66.8	2010
Lowest annual mean			3.17	2011
Highest daily mean	527	Sep 8	113	Jan 9
Lowest daily mean	0.30	Aug 5	0.06	Sep 14
Annual seven-day minimum	0.64	Jul 30	0.07	Sep 9
Maximum peak flow			676	Oct 23
Maximum peak stage			3.30	Oct 23
Annual runoff (ac-ft)	30,010		2,300	
10 percent exceeds	131		4.2	
50 percent exceeds	6.0		1.1	
90 percent exceeds	0.90		0.16	

