



Water-Data Report TX-2005

08052745 Doe Branch at US Highway 380 near Prosper, TX

Trinity River Basin

LOCATION.--Lat 33°13'09", long 96°53'30" referenced to North American Datum of 1927, Denton County, Hydrologic Unit 12030103, on right bank at downstream side of Hwy 380.

DRAINAGE AREA.--38.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1, 2004 to Sept. 30, 2005.

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

REMARKS.--Records good except those for Aug. 10 to Sept. 30 and estimated daily discharges, which are fair. Since installation of gage in Oct. 2004, at least 10% of contributing drainage area has been regulated. The Upper Trinity Regional Water District discharges water through a pipeline from Jim L. Chapman Lake into the river upstream from this station, which accounts for nearly all base flows at this site.

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**DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e28	754	35	16	22	5.7	12	78	93	98	76	e105
2	e28	62	28	104	38	4.7	15	71	93	98	78	e103
3	e27	271	26	1,190	26	4.4	14	95	92	99	80	101
4	e27	50	24	450	24	e4.4	14	97	93	99	80	e106
5	e26	33	25	e109	23	e5.5	35	97	93	81	80	106
6	e25	28	81	e54	27	5.0	80	90	93	97	83	e109
7	24	26	201	e25	31	4.4	96	96	41	98	82	110
8	23	19	39	18	24	3.9	98	96	60	97	82	e105
9	24	11	30	15	22	4.0	98	97	91	97	84	e89
10	30	13	26	e24	21	4.2	97	96	92	97	86	e81
11	26	13	24	e32	21	3.6	96	97	92	98	89	e81
12	11	9.3	22	18	21	2.9	96	97	92	98	87	82
13	7.2	4.0	21	81	e22	2.9	96	96	93	98	87	84
14	5.8	4.1	21	25	e13	e2.8	95	71	94	98	82	77
15	5.3	6.1	20	30	4.4	2.8	96	95	95	95	74	87
16	4.7	4.4	21	29	3.8	2.7	96	94	94	76	74	92
17	4.8	335	20	10	3.1	2.8	96	94	95	51	73	93
18	16	240	21	8.9	3.0	2.8	96	94	91	54	72	94
19	23	26	21	8.7	4.0	2.7	96	96	95	57	72	94
20	23	13	21	8.4	e4.9	2.6	96	70	92	60	70	93
21	23	12	22	20	4.2	2.7	96	93	91	61	70	e94
22	24	794	22	28	3.1	2.9	96	93	96	62	70	93
23	20	e729	20	28	e4.2	16	96	93	96	64	70	92
24	24	389	22	7.0	e4.3	44	96	92	97	66	81	91
25	19	51	22	12	4.5	46	97	92	96	67	88	e92
26	20	38	22	18	4.1	83	98	93	97	68	89	93
27	12	33	22	18	10	e260	98	92	98	66	91	92
28	33	34	30	20	9.2	e40	98	94	97	67	93	e92
29	64	31	18	19	---	21	98	99	97	70	95	e92
30	64	37	8.5	11	---	6.9	83	93	97	72	97	e92
31	65	---	28	36	---	5.2	---	93	---	74	98	---
Total	756.8	4,069.9	963.5	2,473.0	401.8	602.5	2,474	2,844	2,736	2,483	2,533	2,815
Mean	24.4	136	31.1	79.8	14.3	19.4	82.5	91.7	91.2	80.1	81.7	93.8
Max	65	794	201	1,190	38	260	98	99	98	99	98	110
Min	4.7	4.0	8.5	7.0	3.0	2.6	12	70	41	51	70	77
Ac-ft	1,500	8,070	1,910	4,910	797	1,200	4,910	5,640	5,430	4,930	5,020	5,580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	24.4	136	31.1	79.8	14.3	19.4	82.5	91.7	91.2	80.1	81.7	93.8
Max	24.4	136	31.1	79.8	14.3	19.4	82.5	91.7	91.2	80.1	81.7	93.8
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
Min	24.4	136	31.1	79.8	14.3	19.4	82.5	91.7	91.2	80.1	81.7	93.8
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

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SUMMARY STATISTICS

	Water Year 2005	
Annual total	25,152.5	
Annual mean	68.9	
Highest daily mean	1,190	Jan 3
Lowest daily mean	2.6	Mar 20
Annual seven-day minimum	2.7	Mar 15
Maximum peak flow	1,650	Nov 22
Maximum peak stage	535.87	Nov 22
Annual runoff (ac-ft)	49,890	
10 percent exceeds	98	
50 percent exceeds	67	
90 percent exceeds	5.0	

