

Water-Data Report 2011

07299670 Groesbeck Creek at State Highway 6 near Quanah, TX

Red-Pease Basin
Groesbeck-Sandy Subbasin

LOCATION.--Lat 34°21'16", long 99°44'24" referenced to North American Datum of 1927, Hardeman County, TX, Hydrologic Unit 11130101, near left bank at downstream side of bridge on State Highway 6, 2.0 mi downstream from confluence of North and South Groesbeck Creeks, 4.0 mi north of Quanah, and 9.0 mi upstream from mouth.

DRAINAGE AREA.--303 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Nov. 1961 to current year. Prior to Oct. 1974, published as "Groesbeck Creek at State Highway 283".

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Dec. 1965 to Oct. 1967, July 1971.

BIOCHEMICAL DATA: Dec. 1965 to Oct. 1967.

GAGE.--Water-stage recorder. Datum of gage is 1,425.69 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically. No known regulation. There are several diversions upstream from station for farm and ranch use and for a gypsum plant. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--The highest stage known occurred in June 1891, and the highest stage since 1891 occurred in Sept. 1929, stages unknown. Other large floods are reported to have occurred in 1912, 1936, 1946, 1951, 1955, and 1957, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 22	2145	*187	*8.99

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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	11	10	12	13	10	12	11	12	11	7.5	7.4	7.3
2	11	10	12	13	11	11	10	13	9.8	7.4	7.3	6.6
3	11	10	13	13	12	13	10	12	9.5	7.3	8.0	6.5
4	11	10	12	13	12	12	8.0	12	9.3	6.8	8.3	6.3
5	11	10	12	13	13	12	8.4	12	9.3	7.2	8.0	6.3
6	12	10	12	13	13	11	9.1	12	9.1	7.3	8.0	6.4
7	12	11	12	14	13	11	9.1	12	8.8	7.3	7.8	6.4
8	11	11	13	13	12	12	9.4	12	8.9	7.5	7.7	5.8
9	11	11	13	11	11	12	9.4	12	9.1	7.6	7.6	5.6
10	11	11	13	13	12	13	8.0	11	8.8	7.8	7.5	5.5
11	11	11	13	13	12	13	7.9	11	8.9	7.8	7.9	5.5
12	11	11	12	13	12	13	8.3	12	8.5	7.8	7.6	5.8
13	11	13	13	13	13	13	8.2	10	8.3	7.8	6.9	6.1
14	11	12	13	13	12	12	7.4	11	7.8	7.9	6.8	6.6
15	11	12	12	14	13	12	5.0	10	7.8	7.8	6.9	6.9
16	12	12	13	14	12	12	6.8	10	7.3	7.9	6.9	7.0
17	12	10	13	14	13	13	9.2	9.6	7.7	7.5	7.0	6.3
18	12	11	13	14	13	12	13	10	7.7	7.0	7.1	5.8
19	13	11	13	13	12	12	13	10	7.3	6.8	6.9	6.4
20	15	12	13	13	13	12	11	42	6.9	6.2	6.6	5.9
21	12	12	14	13	13	12	12	31	7.2	6.1	6.9	5.4
22	62	12	13	13	12	11	13	18	7.6	5.7	7.1	6.0
23	91	12	13	13	13	12	13	13	7.8	5.3	5.5	6.9
24	44	12	13	13	13	10	13	12	7.4	5.4	6.1	6.9
25	26	11	13	13	12	12	13	11	7.1	5.9	6.5	6.7
26	17	11	12	13	12	11	13	11	7.0	7.2	7.0	7.0
27	13	12	13	13	11	10	12	11	6.9	6.8	7.1	7.3
28	11	11	14	13	11	11	13	11	6.6	6.7	7.0	6.3
29	10	12	14	13	---	11	11	11	e7.4	7.1	7.4	5.5
30	11	11	14	12	---	11	12	10	7.8	7.3	7.5	5.2
31	11	---	12	12	---	11	---	12	---	7.6	6.7	---
Total	539	335	397	404	341	365	307.2	406.6	244.6	219.3	223.0	188.2
Mean	17.4	11.2	12.8	13.0	12.2	11.8	10.2	13.1	8.15	7.07	7.19	6.27
Max	91	13	14	14	13	13	13	42	11	7.9	8.3	7.3
Min	10	10	12	11	10	10	5.0	9.6	6.6	5.3	5.5	5.2
Ac-ft	1,070	664	787	801	676	724	609	806	485	435	442	373

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	33.4	12.2	10.7	10.0	11.5	15.0	26.3	29.4	48.2	21.1	28.9	40.4
Max	393	41.3	43.0	26.4	62.0	91.2	271	163	502	228	545	286
(WY)	(1984)	(2002)	(1992)	(2001)	(1997)	(1998)	(1997)	(1987)	(1995)	(1996)	(1995)	(1974)
Min	0.68	1.33	1.48	1.33	1.35	1.18	1.12	1.74	1.54	0.10	0.00	0.39
(WY)	(1969)	(1969)	(1969)	(1971)	(1971)	(1971)	(1969)	(1967)	(1967)	(1964)	(1964)	(1968)

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	Calendar Year 2010	Water Year 2011		Water Years 1962 - 2011	
Annual total	10,253.4		3,969.9		
Annual mean	28.1		10.9		23.6
Highest annual mean				112	1995
Lowest annual mean				2.97	1964
Highest daily mean	1,260	Apr 24	91	Oct 23	9,570 Oct 20, 1983
Lowest daily mean	7.6	Jan 7	5.0	Apr 15	0.00 Jul 7, 1964
Annual seven-day minimum	8.2	Jan 4	5.8	Sep 7	0.00 Jul 7, 1964
Maximum peak flow			187	Oct 22	18,000 Oct 20, 1983
Maximum peak stage			8.99	Oct 22	24.78 Oct 20, 1983
Annual runoff (ac-ft)	20,340		7,870		17,110
10 percent exceeds	39		13		26
50 percent exceeds	12		11		8.8
90 percent exceeds	9.8		6.7		1.9

