Water-Data Report 2013

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 mi^2.

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. 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 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 17	0730	*121	*8.16

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 07299670, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/07299670.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10	7.7	7.4	9.7	7.2	6.9	5.8	7.5	6.7	4.7	4.9	4.4
2	8.3	8.1	7.2	8.7	7.4	7.4	6.2	5.5	6.4	4.7	4.9	4.3
3	7.6	7.6	7.4	9.0	7.4	7.6	5.7	6.3	6.2	4.7	4.8	4.4
4	7.1	7.5	7.0	8.9	7.7	7.7	11	6.6	6.0	4.7	4.7	4.5
5	6.8	6.8	6.7	9.2	7.6	6.3	9.8	6.5	6.2	4.8	4.5	4.5
6	6.6	6.9	6.7	9.1	7.8	6.2	7.4	6.8	9.4	4.6	4.1	4.5
7	6.6	6.9	6.3	9.4	7.0	7.2	6.8	6.9	11	4.2	4.2	4.4
8	6.9	7.4	6.5	9.7	6.9	7.3	6.2	6.3	8.8	3.0	4.6	4.4
9	7.4	7.4	6.4	9.5	6.2	7.6	5.4	5.9	9.5	3.9	6.8	4.4
10	7.2	7.0	6.1	16	6.8	5.6	6.0	46	8.6	4.3	6.1	4.3
11	7.6	7.1	6.1	11	6.9	7.1	6.7	14	7.6	4.3	5.0	4.4
12	7.9	7.2	6.3	8.2	9.3	6.8	6.3	9.7	6.6	4.1	6.3	4.4
13	7.5	6.8	6.3	7.6	10	7.5	6.7	8.9	6.3	4.4	7.5	4.3
14	7.6	6.8	6.8	8.0	7.7	8.0	6.7	8.9	6.0	3.8	6.7	4.4
15	7.3	6.9	8.0	8.1	6.7	8.5	7.2	8.8	5.9	4.6	5.6	4.6
16	7.6	7.1	7.3	8.1	6.6	7.7	7.0	9.2	6.0	10	5.5	8.1
17	7.5	7.2	7.5	8.2	7.6	6.5	7.6	9.5	6.0	76	5.8	24
18	7.2	7.3	7.4	8.3	7.2	6.3	6.0	9.5	5.9	34	5.4	21
19	7.3	7.5	6.6	8.0	6.4	6.1	6.9	8.7	5.6	11	5.1	12
20	7.9	7.2	7.2	7.9	6.1	6.3	6.3	8.2	5.9	6.8	5.0	7.7
21	8.2	7.3	8.7	7.7	10	6.6	7.6	8.1	5.9	5.8	4.8	6.2
22	8.0	7.6	8.9	7.9	8.2	5.7	7.9	8.8	5.4	5.4	4.8	5.9
23	7.8	7.0	8.9	7.9	7.4	5.8	6.2	7.6	5.2	5.3	4.8	5.9
24	7.6	6.8	9.1	7.3	7.1	5.3	6.7	8.3	4.9	4.9	4.7	5.9
25	6.9	7.0	8.8	7.5	8.8	5.5	7.1	8.3	4.9	5.1	4.6	6.0
26	6.5	6.5	9.8	7.4	11	5.7	7.4	8.2	5.1	9.7	4.6	6.1
27	6.4	6.5	9.6	8.0	7.9	5.9	7.4	7.6	5.1	7.4	4.3	6.0
28	6.7	6.8	9.4	8.1	7.4	6.5	8.0	7.8	4.8	5.7	4.3	7.8
29	6.9	7.8	9.7	12	---	6.3	7.8	7.1	4.8	5.1	4.3	9.9
30	7.4	7.5	9.1	6.3	---	6.7	6.9	7.2	4.8	5.2	4.5	9.2
31	7.7	---	9.8	7.3	---	6.0	---	7.2	---	5.0	4.5	---
Total	230.0	215.2	239.0	270.0	214.3	206.6	210.7	285.9	191.5	267.2	157.7	207.9
Mean	7.42	7.17	7.71	8.71	7.65	6.66	7.02	9.22	6.38	8.62	5.09	6.93
Max	10	8.1	9.8	16	11	8.5	11	46	11	76	7.5	24
Min	6.4	6.5	6.1	6.3	6.1	5.3	5.4	5.5	4.8	3.0	4.1	4.3
Ac-ft	456	427	474	536	425	410	418	567	380	530	313	412

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	32.4	12.5	10.6	9.97	11.3	14.8	25.8	28.6	48.3	20.6	29.3	39.3
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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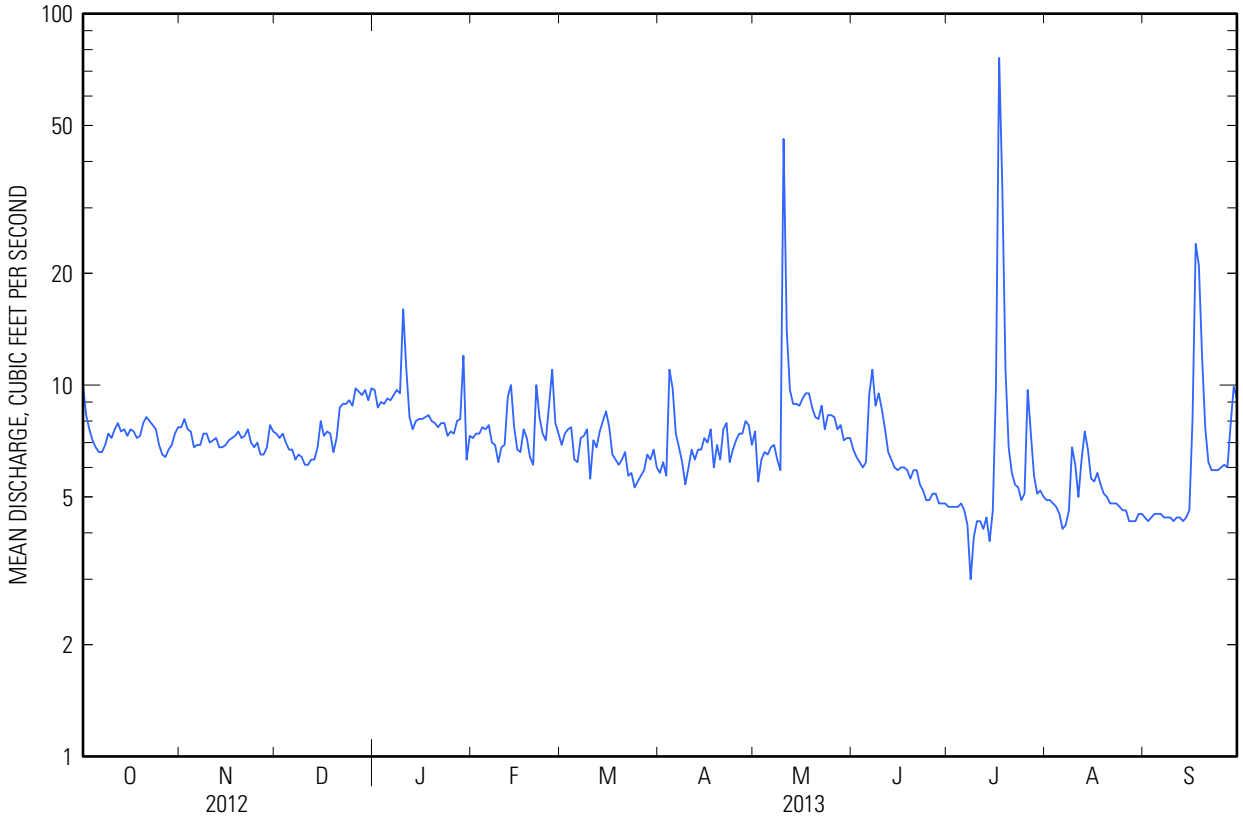
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1962 - 2013	
Annual total	8,118.0		2,696.0			
Annual mean	22.2		7.39		23.3	
Highest annual mean					112	1995
Lowest annual mean					2.97	1964
Highest daily mean	1,720	Jun 13	76	Jul 17	9,570	Oct 20, 1983
Lowest daily mean	3.0	Aug 5	3.0	Jul 8	0.00	Jul 7, 1964
Annual seven-day minimum	3.1	Jul 30	4.0	Jul 8	0.00	Jul 7, 1964
Maximum peak flow			121	Jul 17	18,000	Oct 20, 1983
Maximum peak stage			8.16	Jul 17	24.78	Oct 20, 1983
Annual runoff (ac-ft)	16,100		5,350		16,890	
10 percent exceeds	14		9.2		25	
50 percent exceeds	7.6		6.9		8.7	
90 percent exceeds	4.1		4.7		2.0