

Water-Data Report 2013

**07300000 Salt Fork Red River near Wellington, TX**

Salt Fork Red Basin  
Lower Salt Fork Red Subbasin

LOCATION.--Lat 34°57'27", long 100°13'14" referenced to North American Datum of 1927, Collingsworth County, TX, Hydrologic Unit 11120202, near center of stream at downstream side of bridge on U.S. Highway 83, 4.0 mi downstream from Fort Worth and Denver (Burlington) Railway Co. bridge, 4.5 mi south of Lutie, and 7.2 mi north of Wellington.

DRAINAGE AREA.--1,222 mi<sup>2</sup> of which 209 mi<sup>2</sup> probably is noncontributing.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 1952 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Feb. 1951 to Sept. 1954, Oct. 1967 to Sept. 1997, Oct. 1999 to Sept. 2006.

BIOCHEMICAL DATA: Oct. 1974 to Sept. 1978, Oct. 1982 to Sept. 1997, Oct. 1999 to Sept. 2006.

BIOLOGICAL DATA: Oct. 1974 to Sept. 1978, Oct. 1982 to Sept. 1997, Oct. 1999 to Sept. 2006.

SEDIMENT DATA: Oct. 1974 to Dec. 1977.

PERIOD OF DAILY RECORD, Water-Quality.--

SPECIFIC CONDUCTANCE: June 1952 to Sept. 1954, Oct. 1967 to Sept. 1991.

WATER TEMPERATURE: June 1952 to Sept. 1954, Oct. 1967 to Sept. 1991.

GAGE.--Water-stage recorder. Datum of gage is 1,941.41 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for Dec. 4 through Apr. 15, which are fair. Since water year 1967, at least 10% of contributing drainage area has been regulated. There are several small diversions upstream from gage for irrigation. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--14 years (water years 1953-1966) prior to completion of Greenbelt Lake, 72.6 ft<sup>3</sup>/s (52,600 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS 1953-1966: Maximum discharge, 146,000 ft<sup>3</sup>/s May 16, 1957 (gage height, 19.00 ft), from rating curve extended above 11,000 ft<sup>3</sup>/s on basis of slope-area measurement of 63,400 ft<sup>3</sup>/s; minimum, 0.10 ft<sup>3</sup>/s June 19, 1952.

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## 07300000 Salt Fork Red River near Wellington, TX—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**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>	5.3	4.4	4.8	5.3	6.8	40	14	3.5	0.80	0.97	1.3	1.6
<b>2</b>	3.9	4.4	4.8	5.2	7.1	34	14	5.2	0.95	1.1	1.0	1.5
<b>3</b>	3.1	4.4	4.6	5.2	7.2	29	14	4.5	0.77	1.1	0.74	1.4
<b>4</b>	2.8	4.4	4.6	5.2	7.4	27	14	3.9	2.1	1.4	0.72	1.4
<b>5</b>	2.8	4.4	4.7	5.7	7.1	22	13	3.8	1.1	1.0	0.51	1.3
<b>6</b>	2.8	4.3	4.8	5.4	7.2	21	12	4.0	4.7	1.1	0.48	1.3
<b>7</b>	3.0	4.1	4.9	5.6	7.0	20	11	3.6	2.1	0.67	0.68	1.2
<b>8</b>	3.5	4.3	4.9	5.7	6.3	19	9.7	4.2	2.4	0.68	0.88	1.1
<b>9</b>	3.2	4.4	4.8	6.8	7.1	24	9.7	4.7	5.7	0.54	102	0.96
<b>10</b>	3.2	4.8	4.6	20	10	25	11	51	2.4	0.53	4.3	0.97
<b>11</b>	3.6	5.7	4.7	11	7.6	20	10	19	1.7	0.73	1.7	0.99
<b>12</b>	3.8	4.7	4.6	9.2	11	19	9.3	9.3	1.3	0.78	2.8	1.0
<b>13</b>	3.7	4.4	4.6	7.5	14	17	8.5	7.1	1.3	0.34	2.3	1.1
<b>14</b>	3.4	4.4	5.6	8.0	12	17	7.7	4.1	1.3	1.2	1.7	2.9
<b>15</b>	3.6	4.2	5.4	8.2	13	17	6.6	2.5	1.7	2.9	1.4	1.6
<b>16</b>	3.8	4.4	4.8	7.7	12	18	6.3	2.2	1.3	12	744	2.2
<b>17</b>	3.8	4.5	4.8	8.0	11	16	6.7	2.0	10	4.9	75	3.4
<b>18</b>	3.9	4.5	4.7	7.1	10	15	6.5	1.7	2.9	3.6	19	1.9
<b>19</b>	4.1	4.6	4.8	7.2	8.8	14	5.4	1.5	4.2	2.5	11	1.9
<b>20</b>	4.2	4.5	4.4	7.1	11	14	4.8	1.4	2.6	2.0	7.8	2.0
<b>21</b>	4.1	4.4	4.6	7.1	24	14	4.2	2.2	1.9	1.8	6.1	1.9
<b>22</b>	3.9	3.8	4.6	7.0	40	13	3.9	1.7	1.6	1.5	4.9	1.8
<b>23</b>	3.9	4.1	4.7	7.1	34	13	4.5	1.7	1.3	1.3	4.0	1.7
<b>24</b>	3.9	4.4	4.8	7.0	35	13	4.5	1.6	1.1	1.2	3.4	1.7
<b>25</b>	4.2	4.5	4.4	7.0	42	12	4.2	1.3	0.97	4.6	2.9	1.7
<b>26</b>	4.2	4.5	4.7	7.1	49	12	4.0	1.1	0.86	3.2	2.5	1.7
<b>27</b>	4.4	4.4	5.2	7.1	69	12	3.8	0.96	0.76	2.3	2.3	1.7
<b>28</b>	4.5	4.4	5.0	6.9	47	12	3.7	1.00	0.70	1.7	2.2	3.8
<b>29</b>	4.5	4.6	4.9	7.1	---	12	3.0	2.3	0.82	1.6	2.0	2.7
<b>30</b>	4.5	4.9	4.6	6.9	---	13	3.0	2.0	1.5	1.4	1.9	18
<b>31</b>	4.5	---	6.3	6.7	---	17	---	1.00	---	1.5	1.7	---
<b>Total</b>	118.1	133.8	149.7	228.1	523.6	571	233.0	156.06	62.83	62.14	1,013.21	68.42
<b>Mean</b>	3.81	4.46	4.83	7.36	18.7	18.4	7.77	5.03	2.09	2.00	32.7	2.28
<b>Max</b>	5.3	5.7	6.3	20	69	40	14	51	10	12	744	18
<b>Min</b>	2.8	3.8	4.4	5.2	6.3	12	3.0	0.96	0.70	0.34	0.48	0.96
<b>Ac-ft</b>	234	265	297	452	1,040	1,130	462	310	125	123	2,010	136

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2013<sup>2</sup>, 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>	29.2	26.9	26.2	31.4	39.2	47.0	78.8	91.9	113	30.8	22.9	27.8
<b>Max</b>	279	213	92.4	86.0	117	165	1,218	468	1,006	271	301	123
(WY)	(1987)	(1987)	(1992)	(1993)	(1998)	(1998)	(1997)	(1977)	(1995)	(2010)	(1968)	(2003)
<b>Min</b>	0.87	2.21	3.59	4.90	10.9	8.15	6.10	2.61	0.44	0.13	0.20	0.22
(WY)	(2012)	(2012)	(1984)	(2012)	(1967)	(1972)	(1971)	(1971)	(2011)	(2011)	(2012)	(2011)

**07300000 Salt Fork Red River near Wellington, TX—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2012</b>	<b>Water Year 2013</b>	<b>Water Years 1967 - 2013<sup>z</sup></b>	
<b>Annual total</b>	4,202.74	3,319.96		
<b>Annual mean</b>	11.5	9.10	47.0	
<b>Highest annual mean</b>			165	1997
<b>Lowest annual mean</b>			9.10	2013
<b>Highest daily mean</b>	230	Sep 29	744	Aug 16
<b>Lowest daily mean</b>	0.04	Sep 3	0.34	Jul 13
<b>Annual seven-day minimum</b>	0.06	Aug 29	0.61	Jul 7
<b>Maximum peak flow</b>			2,270	Aug 16
<b>Maximum peak stage</b>			6.67	Aug 16
<b>Annual runoff (ac-ft)</b>	8,340	6,590	34,040	
<b>10 percent exceeds</b>	26	14	67	
<b>50 percent exceeds</b>	4.6	4.4	16	
<b>90 percent exceeds</b>	0.16	1.1	3.4	

<sup>z</sup> Period of regulated streamflow.

