

## TRINITY RIVER BASIN

8-0557. Bachman Branch at Dallas, Tex.

Location.--Lat 32°51'26", long 96°50'12", at bridge on Midway Road at Dallas, Dallas County, 1,400 ft south of Northwest Highway, 1.5 miles upstream from Bachman Lake Dam, and 6.0 miles northwest of Dallas City Hall.

Drainage area.--10.0 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 27, 1963	50	0.18	Nov. 10, 1964	67	2.57	June 20, 1965	80	1.90
Jan. 4, 1964	33	.53	Nov. 18	65	220	July 24	86	.13
Feb. 4	49	17.6	Nov. 18	65	128	Aug. 28	78	.09
Feb. 5	48	4.69	Nov. 30	50	2.33	Oct. 6	62	.84
Feb. 6	50	3.43	Jan. 12, 1965	50	2.72	Nov. 5	63	11.4
Feb. 17	46	1.87	Jan. 22	57	40.8	Dec. 7	47	.86
Mar. 9	50	56.3	Feb. 9	49	596	Jan. 5, 1966	49	1.06
Mar. 27	57	3.31	Feb. 9	45	406	Feb. 14	51	3.46
May 5	71	2.11	Feb. 9	49	197	Mar. 24	56	1.90
June 10	83	.88	Feb. 27	53	7.81	June 14	76	3.14
Aug. 24	81	.50	Mar. 25	48	2.63	July 16	81	2.47
Sept. 17	71	1.95	Apr. 26	64	24.1	Aug. 18	82	.59
Oct. 20	58	.34	June 4	75	3.85	Sept. 22	67	.80

## TRINITY RIVER BASIN

8-0565. Turtle Creek at Dallas, Tex.

Location.--Lat 32°48'26", long 96°48'08", 68 ft upstream from Hall Street Dam, 210 ft upstream from Hall Street at Dallas, Dallas County, and 2.0 miles north of Dallas County Courthouse.

Drainage area.--7.98 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 17, 1951	47	0.79	Mar. 17, 1958	52	4.60	Jan. 8, 1962	46	1.40
Jan. 16, 1952	62	.89	July 22	92	.58	Feb. 9	60	2.06
Mar. 22	60	.93	Aug. 22	84	.23	Mar. 7	50	2.42
Apr. 12	55	25.2	Sept. 17	82	.33	Apr. 9	64	3.24
May 20	70	4.39	Oct. 14	73	.30	May 10	76	3.37
May 23	67	112	Nov. 18	56	2.59	May 29	72	25.0
June 2	82	1.45	Jan. 26, 1959	50	1.01	June 13	76	3.07
July 3	84	.35	Apr. 6	70	.21	July 20	84	5.08
Aug. 6	88	.23	May 13	74	2.53	Dec. 27	46	2.85
Sept. 19	73	.16	June 17	69	.52	Feb. 11	44	1.57
Oct. 28	62	.05	July 30	84	.53	Mar. 21	65	1.52
Nov. 9	58	105	Aug. 21	89	.17	Apr. 24	69	18.7
Dec. 23	50	2.64	Sept. 10	82	.01	May 28	78	7.36
Jan. 7, 1953	54	1.60	Sept. 28	84	.39	June 25	89	.76
Feb. 20	54	5.57	Oct. 14	71	3.80	Sept. 11	87	.82
May 8	78	1.62	Nov. 13	54	3.50	Oct. 17, 1963	78	.38
July 15	79	.05	Dec. 10	55	6.85	Nov. 26	59	.60
Aug. 21	84	.13	Jan. 7, 1960	48	8.35	Jan. 9, 1964	46	1.88
Nov. 10	52	1.20	Feb. 11	48	2.81	Feb. 24	51	8.06
Dec. 9	53	.64	Mar. 18	57	3.32	Feb. 25	50	8.18
Jan. 20, 1954	55	4.40	Apr. 15	74	2.67	Mar. 10	49	7.45
May 25	73	12.4	May 17	80	.76	Mar. 27	60	3.49
Nov. 19	62	.37	June 22	89	.50	May 5	72	2.08
Mar. 15, 1955	69	1.40	Aug. 2	92	.37	June 11	85	.51
Apr. 26	78	.84	Sept. 19	85	.42	July 15	86	.48
July 7	92	.37	Oct. 14	74	3.44	Sept. 2	88	.84
Aug. 8	82	.30	Nov. 23	58	.52	Dec. 2	56	2.47
Oct. 28	59	.06	Feb. 9, 1961	49	6.22	Jan. 13, 1965	53	2.22
Nov. 29	59	.06	Mar. 22	63	4.43	Feb. 26	51	5.79
Feb. 21, 1956	61	1.08	Apr. 24	72	1.33	Mar. 25	50	29.3
Apr. 5	65	.37	May 24	73	.60	Apr. 24	79	1.68
May 21	84	.24	June 26	73	3.86	June 3	80	3.81
Nov. 21	55	.15	July 26	83	.50	June 21	82	1.48
Dec. 17	58	.29	Sept. 5	81	.29	Aug. 27	84	1.32
Jan. 15, 1957	46	.46	Oct. 9	71	3.66	Oct. 7	69	1.16
Apr. 5	66	4.73	Oct. 13	80	1.13	Dec. 8	55	1.41
Apr. 26	63	515	Nov. 14	56	.80	Jan. 6, 1966	51	1.07
Oct. 3	74	.25	Nov. 27	56	2.12	Mar. 24	58	1.53
Feb. 3, 1958	45	2.34	Dec. 6	55	6.25	July 16	87	.75

TRINITY RIVER BASIN

8-0570. Trinity River at Dallas, Tex.

Location.--Lat 32°46'30", long 96°49'10" at Commerce Street viaduct at Dallas, Dallas County, and 5½ miles downstream from confluence of West and Elm Forks.

Drainage area.--6,106 sq mi.

Remarks.--Flow largely regulated by Bridgeport Reservoir since 1932, Eagle Mountain Reservoir since 1934, Benbrook and Grapevine Reservoirs since 1952, Garza-Little Elm Reservoir since 1954, and several smaller reservoirs, all of which have a total combined capacity of 2,323,000 acre-ft.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 3, 1949	53	158	June 2, 1952	81	259	May 13, 1959	82	137
Jan. 25	46	5,650	July 3	86	134	May 29	80	97.6
Jan. 26	43	3,650	Aug. 8	88	139	June 16	84	94.6
Jan. 27	43	3,900	Sept. 9	86	74.7	June 23	88	6,440
Feb. 25	55	21,600	Oct. 8	66	88.4	July 30	84	152
Feb. 26	53	18,800	Oct. 29	56	88.3	Aug. 21	81	113
Feb. 28	50	1,300	Nov. 14	66	87.8	Sept. 10	81	104
Mar. 31	62	626	Dec. 2	44	83.0	Sept. 28	80	102
May 4	76	261	Jan. 7, 1953	50	123	Nov. 13	60	322
May 18	70	70,300	Feb. 20	54	150	Feb. 10, 1960	50	1,920
May 20	73	28,200	Mar. 20	73	107	Mar. 17	49	367
May 21	74	6,100	May 17	68	12,700	Mar. 28	61	450
June 14	74	10,900	June 15	89	64.4	Apr. 15	70	157
Aug. 4	86	222	July 15	80	58.1	May 16	79	185
Sept. 7	86	204	Oct. 1	84	7.66	Aug. 1	90	138
Oct. 26	56	13,600	Nov. 10	54	134	Sept. 19	84	155
Oct. 27	56	10,200	Jan. 20, 1954	55	122	Oct. 14	73	672
Oct. 28	60	6,460	Feb. 24	62	73.0	Nov. 22	62	149
Nov. 18	58	242	Apr. 29	82	72.9	Dec. 28	49	146
Dec. 21	59	197	Jan. 4, 1955	65	56.9	Feb. 9, 1961	56	1,980
Feb. 27, 1950	55	2,020	Feb. 11	49	75.9	Apr. 24	75	191
Apr. 5	66	900	Mar. 15	72	134	June 22	83	296
Apr. 20	60	10,400	Apr. 26	79	54.4	July 25	87	340
Apr. 21	60	8,030	July 7	92	73.0	Sept. 5	80	141
May 4	71	27,300	Aug. 8	91	54.5	Oct. 3	65	289
May 9	70	6,230	Oct. 21	74	69.1	Nov. 2	70	503
June 9	79	483	Nov. 29	50	47.3	Mar. 2, 1962	49	208
July 11	83	1,780	Feb. 21, 1956	60	95.7	Apr. 9	62	189
Aug. 10	84	2,170	Apr. 5	67	83.9	May 17	78	159
Oct. 17	74	1,170	May 2	68	6,740	July 2	81	650
Nov. 17	60	950	May 21	81	61.0	Feb. 4, 1963	48	170
Dec. 13	49	321	July 12	88	74.9	Apr. 18	74	136
Jan. 17, 1951	52	206	Aug. 20	89	54.5	June 5	79	625
Feb. 28	61	348	Nov. 21	57	72.8	July 3	88	162
Mar. 20	59	308	Dec. 17	57	56.4	Aug. 13	87	176
Apr. 5	64	150	Jan. 15, 1957	42	54.1	Sept. 25	79	201
Apr. 17	69	125	Feb. 26	57	102	Nov. 7	71	96.0
May 16	75	334	Apr. 6	62	194	Jan. 7, 1964	50	99.6
June 4	72	7,370	Aug. 23	76	1,660	Feb. 11	51	213
June 6	73	1,510	Oct. 2	74	322	Mar. 13	57	165
June 19	80	2,500	Oct. 3	76	273	Apr. 30	74	157
July 17	88	341	July 22, 1958	81	117	June 5	74	214
Aug. 20	87	289	Aug. 22	81	181	July 2	85	189
Sept. 19	76	266	Sept. 17	75	430	Aug. 10	90	174
Oct. 17	70	204	Oct. 14	70	245	Sept. 14	79	129
Nov. 8	57	111	Nov. 11	62	170	Sept. 17	74	2,970
Nov. 15	64	115	Dec. 15	53	144	Sept. 22	70	27,300
Dec. 19	45	139	Jan. 19, 1959	48	174	Oct. 19	61	247
Jan. 16, 1952	62	115	Jan. 26	58	125	Dec. 6, 1965	55	281
Feb. 27	55	213	Mar. 31	65	108	Jan. 3, 1966	53	323
Apr. 1	74	104	Apr. 6	76	92.5	Mar. 24	62	159
May 1	77	183						

## TRINITY RIVER BASIN

8-0571. White Rock Creek at Keller Springs Road, Dallas, Tex.

Location.--Lat  $32^{\circ}58'13''$ , long  $96^{\circ}48'19''$ , at bridge on Keller Springs Road in Dallas, 0.5 mile upstream from St. Louis Southwestern Railway Lines bridge, 0.9 mile upstream from Spanky Branch, and 13 miles north of Dallas County Courthouse.

Drainage area.--29.4 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 18, 1961	84	1.17	Nov. 2, 1962	60	13.8	Dec. 1, 1964	50	17.0
Aug. 3	98	0.19	Dec. 11	47	13.2	Jan. 12, 1965	47	8.41
Oct. 2	65	86.0	Jan. 9, 1963	51	7.31	Feb. 27	51	20.5
Oct. 3	62	5.48	Feb. 11	45	4.38	Apr. 25	79	.74
Nov. 6	55	1.19	Apr. 23	74	.97	June 4	61	9.84
Dec. 6	55	4.91	May 24	68	2.66	June 20	84	5.90
Jan. 8, 1962	42	4.07	June 24	87	.29	Nov. 4	61	8.77
Feb. 8	45	2.94	July 15	83	.64	Dec. 7	51	.94
Mar. 7	50	4.41	Mar. 19, 1964	59	24.0	Jan. 4, 1966	49	1.15
Apr. 9	64	10.2	Mar. 30	58	1.78	Feb. 14	51	5.45
Apr. 24	66	41.3	Apr. 1	61	2.64	Mar. 24	59	.81
May 10	78	5.89	Sept. 21	69	2,640	June 15	81	4.99
May 13	72	25.6	Oct. 20	64	1.22	July 18	89	4.03
July 20	85	3.29	Nov. 5	61	124	Aug. 17	87	2.98
Aug. 27	84	3.24	Nov. 8	63	34.8	Sept. 21	75	4.26

## TRINITY RIVER BASIN

8-0572. White Rock Creek at Greenville Avenue, Dallas, Tex.

Location.--Lat  $32^{\circ}53'21''$ , long  $96^{\circ}45'23''$ , at bridge on Greenville Avenue in Dallas, 1.1 miles downstream from Texas and New Orleans Railroad Co. bridge, 1.2 miles downstream from Cottonwood Creek, 2.9 miles upstream from White Rock Lake, and 8.2 miles northeast of Dallas County Courthouse.

Drainage area.--66.4 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 18, 1961	89	3.12	Mar. 20, 1963	64	11.4	Feb. 26, 1965	52	75.7
Aug. 3	81	1.07	Apr. 24	68	6.11	Mar. 26	49	26.0
Sept. 5	83	.22	May 24	72	13.8	Apr. 25	74	13.6
Oct. 3	59	18.5	June 25	82	2.77	June 4	76	37.3
Nov. 6	52	7.03	Aug. 5	87	.93	June 21	78	17.6
Jan. 8, 1962	44	18.0	Sept. 10	88	.66	July 24	89	2.30
Feb. 8	55	14.3	Oct. 22	70	.96	Aug. 27	86	1.10
Mar. 7	49	21.7	Nov. 27	53	1.40	Oct. 7	63	5.73
Apr. 9	60	25.7	Jan. 14, 1964	32	1.49	Nov. 4	63	93.1
Apr. 24	64	116	Feb. 18	52	6.98	Dec. 7	50	6.70
May 10	78	22.4	Mar. 30	61	12.0	Jan. 5, 1966	48	5.45
June 13	74	51.9	May 7	72	17.2	Feb. 14	46	20.4
July 20	86	9.80	June 11	85	5.51	Mar. 25	51	7.63
Aug. 27	85	12.2	July 16	88	.56	Apr. 28	65	1,500
Oct. 5	77	14.6	Sept. 1	87	1.25	June 13	77	66.3
Nov. 2	60	42.8	Sept. 17	73	11.8	Aug. 18	82	8.39
Dec. 11	46	43.6	Oct. 21	59	8.24	Sept. 21	72	11.2
Feb. 11, 1963	44	13.2	Dec. 1	47	40.4			

## TRINITY RIVER BASIN

8-0574. White Rock Creek at Scyene Road, Dallas, Tex.

Location.--Lat  $32^{\circ}45'57''$ , long  $96^{\circ}43'50''$ , 30 ft downstream from Texas and New Orleans Railroad Co. bridge, 125 ft downstream from Scyene Road (State Highway 352) at Dallas, Dallas County, 4.5 miles east of Dallas County Courthouse, and 5.8 miles above mouth.

Drainage area.--125 sq mi.

Remarks.--Flow partly regulated by White Rock Lake (capacity, 12,300 acre-ft) located 4.5 miles upstream.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 27, 1962	45	25.4	Mar. 31, 1964	69	3.18	July 28, 1965	84	2.14
Feb. 12, 1963	44	7.69	May 6	73	45.5	Aug. 26	86	1.55
Nov. 20	61	14.7	July 17	86	1.30	Sept. 30	67	3.98
Apr. 22	82	2.44	Sept. 2	90	1.76	Dec. 3	52	31.2
May 26	84	4.81	Oct. 22	61	13.5	Jan. 7, 1966	53	3.49
June 26	92	2.78	Dec. 3	52	120	Feb. 13	54	50.3
Sept. 9	88	1.25	Jan. 14, 1965	50	37.8	Mar. 25	59	7.32
Oct. 18	73	1.19	Feb. 26	47	190	Apr. 26	67	19,800
Nov. 26	62	2.81	Mar. 26	45	49.0	Apr. 29	65	6,650
Jan. 15, 1964	39	1.02	Apr. 24	73	13.3	June 9	92	2.50
Jan. 27	54	1.96	June 2	79	49.1	Aug. 16	86	47.8
Feb. 24	52	1.08	June 20	81	24.3	Sept. 19	77	54.7

## TRINITY RIVER BASIN

8-0574.1. Trinity River below Dallas, Tex.

Location.--Lat  $32^{\circ}42'27''$ , long  $96^{\circ}44'08''$ , at bridge on South Loop Highway 12, 1 mile downstream from White Rock Creek, 1.5 miles upstream from Five Mile Creek, and 6.4 miles southeast of Dallas County Courthouse in Dallas.

Drainage area.--6,278 sq mi.

Remarks.--Flow largely regulated by reservoirs above Dallas and White Rock Lake.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 16, 1956	60	128	Apr. 6, 1959	64	193	Oct. 2, 1961	69	--
Nov. 23	60	137	June 23	66	5,220	Mar. 2, 1962	47	388
Dec. 17	55	118	June 24	70	3,240	Apr. 9	60	363
Jan. 15, 1957	46	136	July 30	84	276	May 17	77	276
Feb. 26	58	245	Sept. 9	81	191	July 2	79	1,460
Apr. 20	66	4,110	Mar. 18, 1960	53	496	Mar. 13, 1963	61	436
Apr. 21	62	4,130	May 16	76	301	Apr. 18	74	244
Apr. 22	67	5,680	Aug. 2	89	242	June 4	81	1,260
Apr. 25	68	17,120	Sept. 9	87	266	Sept. 26	79	306
Apr. 7, 1958	49	1,910	Oct. 14	73	1,830	July 10, 1964	86	250
July 21	78	362	Nov. 22	64	328	Sept. 14	82	277
Aug. 23	79	410	Feb. 9, 1961	56	2,000	Sept. 23	73	24,900
Sept. 17	79	387	Apr. 24	74	355	Oct. 19	64	415
Oct. 14	69	347	June 30	80	1,760	May 27	73	6,270
Nov. 18	59	272	July 25	85	360	July 15	81	4,650
Jan. 26, 1959	51	281	Sept. 1	80	286			



TRINITY RIVER BASIN

8-0585. Honey Creek near McKinney, Tex.

Location.--Lat 33°16'42", long 96°39'27", at bridge on county road, 4.5 miles downstream from Haw Branch, 5.6 miles upstream from mouth, and 6.0 miles northwest of McKinney, Collin County.

Drainage area.--39.0 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 23, 1951	87	0.29	Feb. 11, 1958	40	14.9	Sept. 18, 1962	74	26.3
July 25	85	1.07	Feb. 18	40	14.0	Dec. 4	53	58.5
Dec. 17	41	.06	Mar. 31	53	30.3	Jan. 17, 1963	34	7.01
Jan. 21, 1952	55	.15	June 11	80	7.90	Feb. 21	43	2.78
Feb. 25	43	.17	Dec. 29	51	1.03	Mar. 26	57	3.18
Mar. 24	50	.10	Feb. 3, 1959	44	1.43	June 4	80	53.9
Apr. 28	68	10.7	Mar. 9	49	.46	July 16	80	.26
May 24	64	25.7	Apr. 16	61	.44	Feb. 25, 1964	42	.83
June 25	84	.41	Jan. 9, 1960	50	33.2	Apr. 6	60	.64
Jan. 12, 1953	47	.34	Mar. 16	41	5.90	May 13	76	2.63
Apr. 1	68	3.15	Apr. 18	64	1.75	June 15	77	.82
May 13	60	24.8	June 3	88	.04	Oct. 1	66	37.3
May 29	76	11.4	Aug. 16	83	.31	Oct. 27	64	55.3
Dec. 10	46	.09	Nov. 22	57	.65	Jan. 13, 1965	48	8.39
May 1, 1954	72	9.53	Dec. 29	42	25.1	Feb. 17	45	54.3
May 11	57	13.8	Feb. 27, 1961	53	15.8	Mar. 23	57	8.98
May 21	70	4.06	Apr. 3	58	15.4	May 4	72	1.61
Oct. 1	72	75.3	May 15	71	7.79	June 2	78	17.8
Oct. 27	55	6.30	June 12	81	.52	July 7	80	1.08
Dec. 3	45	.32	July 11	86	.12	Oct. 19	73	.61
Jan. 7, 1955	42	.63	Sept. 18	68	.46	Nov. 18	58	.22
Jan. 25	40	2.58	Oct. 23	64	.44	Dec. 14	55	.51
Mar. 20	62	272	Nov. 29	44	1.64	Jan. 25, 1966	35	.66
Apr. 8	55	3.64	Jan. 8, 1962	38	3.93	Mar. 1	57	2.02
May 13	56	.81	Feb. 8	47	4.46	Apr. 27	66	118
June 10	63	.28	Apr. 17	60	6.05	May 16	73	73.9
Feb. 19, 1956	50	1.99	Apr. 24	65	310	June 1	73	7.91
Mar. 11, 1957	61	.42	Apr. 24	65	388	Aug. 24	68	3.13
Mar. 29	60	8.10	May 29	78	5.06	Sept. 28	71	2.65
May 25	69	4,620	July 6	88	1.61			

## TRINITY RIVER BASIN

6-0590. East Fork Trinity River near McKinney, Tex.

Location.--Lat 33°12'13", long 96°35'44", at bridge on State Highway 24, 1.2 miles northeast of McKinney, Collin County, 4.2 miles downstream from Honey Creek, 11 miles upstream from Wilson Creek, and 22 miles upstream from Lavon Dam.

Drainage area.--190 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 14, 1950	45	8.46	Aug. 7, 1956	66	0.27	July 7, 1962	80	5.93
Jan. 12, 1951	43	6.38	Nov. 21	56	.18	Aug. 10	82	1.18
Feb. 12	57	6.44	Feb. 6, 1957	49	3.71	Sept. 20	76	70.0
Mar. 16	48	22.2	Mar. 12	60	.77	Jan. 3, 1963	45	34.3
Apr. 12	53	11.6	Sept. 9	74	1.48	Feb. 15	42	13.2
May 25	68	19.9	Oct. 10	74	.32	Mar. 21	61	14.6
June 3	69	4,670	Nov. 28	57	115.6	Apr. 23	70	9.31
July 3	73	898	Feb. 16, 1958	37	50.2	June 11	80	33.0
July 25	82	4.10	Apr. 11	56	96.2	July 16	78	14.0
Aug. 30	94	1.30	May 13	74	198	Aug. 12	84	.28
Sept. 24	76	1.09	June 11	83	16.9	Sept. 17	75	.10
Oct. 22	77	1.14	Aug. 2	75	1.44	Oct. 21	71	.06
Dec. 17	53	1.13	Sept. 10	78	.38	Nov. 18	66	.05
Jan. 21, 1952	56	1.31	Dec. 30	42	2.43	Dec. 20	40	.37
Mar. 24	52	1.24	Mar. 9, 1959	50	2.69	Jan. 21, 1964	42	.15
Apr. 28	65	47.4	May 21	68	.30	Feb. 25	47	.16
May 24	65	327	June 24	84	790	Apr. 6	60	3.64
June 25	79	1.49	July 16	75	2.62	May 13	70	31.3
Aug. 7	84	.38	Aug. 20	80	.16	June 16	76	6.71
Sept. 3	69	.23	Sept. 24	81	.26	July 22	85	.11
Sept. 12	71	.26	Mar. 15, 1960	45	56.9	Aug. 18	77	.93
Sept. 17	77	.22	Apr. 19	63	12.4	Sept. 21	74	8,160
Sept. 23	72	.09	June 2	79	4.21	Oct. 26	64	11.7
Oct. 14	64	.11	July 10	82	.21	Nov. 17	62	41.4
Nov. 18	63	.13	July 15	71	934	Nov. 19	49	2,380
Nov. 24	50	4.83	Aug. 16	78	1.24	Nov. 19	49	6,010
Apr. 2, 1953	64	22.4	Sept. 18	73	.31	Jan. 5, 1965	50	64.4
Apr. 6	59	541	Dec. 30	41	108	Feb. 2	41	49.2
Apr. 7	57	101	Feb. 24, 1961	45	120	Mar. 9	48	69.2
Apr. 24	65	1,220	Apr. 4	62	81.7	Apr. 13	67	26.2
May 28	77	37.3	May 16	71	16.5	May 26	75	51.0
July 3	85	.31	June 13	77	2.58	June 30	78	17.5
Nov. 3	57	.28	July 12	78	.68	Aug. 3	75	.97
Dec. 9	46	11.1	Aug. 14	82	.13	Oct. 20	67	.60
Oct. 28, 1954	55	12.0	Sept. 19	67	.81	Nov. 30	50	1.42
Jan. 28, 1955	43	8.67	Oct. 24	63	4.59	Jan. 11, 1966	49	2.20
Mar. 21	56	674	Nov. 29	49	15.8	Feb. 15	45	26.4
Apr. 8	59	33.3	Jan. 8, 1962	38	23.0	Mar. 30	56	13.1
June 10	66	4.64	Jan. 8	46	19.3	June 2	72	20.7
July 12	81	.25	Feb. 8	47	13.2	July 13	79	1.78
Aug. 4	80	.41	Apr. 19	64	28.4	Aug. 17	78	57.2
Feb. 19, 1956	52	26.0	May 29	72	79.3	Sept. 29	70	10.1
June 19	84	.56						

TRINITY RIVER BASIN

8-0595. Sister Grove Creek near Princeton, Tex.

Location.--Lat 33°11'35", long 96°28'32", at bridge on Farm Road 1377, 1.4 miles northeast of Princeton, Collin County, 2.3 miles downstream from Stiff Creek, 5 miles upstream from mouth, and 15 miles upstream from Lavon Dam.

Drainage area.--113 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 22, 1949	49	4.84	Mar. 21, 1955	58	525	Jan. 8, 1962	42	28.4
Jan. 24, 1950	56	72.6	May 13	75	7.24	Feb. 8	52	24.0
Feb. 2	41	1,160	Feb. 18, 1956	58	222	Mar. 14	47	20.6
Mar. 21	51	41.7	Mar. 26	67	7.65	Apr. 19	66	23.7
Apr. 27	64	36.3	Apr. 9	58	1.96	May 29	71	21.6
June 29	78	19.1	Apr. 9	58	2.07	July 7	79	10.6
July 27	83	578	Nov. 28, 1957	47	145	Aug. 10	80	1.36
Aug. 24	71	278	Jan. 7, 1958	38	63.8	Nov. 30	56	103
Oct. 4	72	34.8	Feb. 19	38	65.5	Jan. 3, 1963	47	29.2
Nov. 9	56	10.4	May 14	76	169	Feb. 15	42	12.1
Dec. 14	44	8.83	June 12	81	16.5	Mar. 21	58	16.9
Jan. 11, 1951	42	5.79	Aug. 2	81	1.35	Apr. 23	68	8.28
Feb. 12	57	6.75	Oct. 14	68	1.39	June 11	80	31.4
Mar. 16	50	21.4	Dec. 30	43	1.01	July 16	81	34.5
Apr. 11	59	13.1	Feb. 3, 1959	42	2.95	Feb. 25, 1964	49	.49
May 25	66	22.5	Apr. 16	63	1.20	Apr. 8	60	3.93
June 3	69	1,950	May 20	70	.76	May 14	66	32.2
July 3	74	573	July 16	71	1.05	May 31	45	312
July 26	83	5.31	Oct. 28	55	5.23	June 16	75	8.59
Feb. 25, 1952	49	1.01	Jan. 5, 1960	39	215	Nov. 20	51	1,920
Mar. 24	53	2.34	Feb. 14	43	69.5	Feb. 2, 1965	51	43.4
Apr. 28	64	53.9	Mar. 15	44	45.4	Mar. 9	48	67.6
May 24	66	292	Apr. 20	62	16.1	Apr. 13	68	26.4
June 25	78	1.34	June 2	78	6.32	May 26	76	41.2
Jan. 13, 1953	54	3.69	July 10	80	.44	June 30	80	26.2
Apr. 2	68	20.8	Oct. 13	71	3.52	Aug. 3	76	.26
Apr. 6	58	188	Nov. 21	54	2.26	Oct. 20	68	.79
Apr. 24	65	669	Dec. 30	44	85.8	Jan. 11, 1966	50	1.96
Apr. 29	65	3,800	Feb. 23, 1961	49	104	Feb. 17	46	24.5
May 28	77	46.8	Apr. 4	62	80.2	Mar. 30	59	9.48
Dec. 9	47	12.2	May 16	70	12.9	Apr. 25	67	1,860
Jan. 12, 1954	37	8.05	June 13	78	11.7	Apr. 25	67	1,470
Mar. 11	63	11.6	July 12	80	3.07	June 1	73	26.9
Oct. 28	59	10.3	Sept. 19	68	1.27	July 13	80	3.32
Jan. 6, 1955	47	1.72	Oct. 24	65	5.80	Aug. 17	79	14.4
Jan. 27	44	6.07	Nov. 29	49	21.3	Sept. 29	70	3.55
Mar. 3	66	19.2						

TRINITY RIVER BASIN

8-0610. East Fork Trinity River near Lavon, Texas

Location.--Lat 33°01'23", long 96°28'32", at bridge on State Highway 76, 150 ft downstream from St. Louis Southwestern Railway Lines bridge, 3,500 ft downstream from Lavon Dam, and 2.5 miles west of Lavon, Collin County.

Drainage area.--773 sq mi.

Remarks.--Flow regulated by Lavon Reservoir.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 29, 1954	84	179	Apr. 16, 1959	58	82.0	Jan. 4, 1963	43	83.0
Feb. 7, 1955	47	27.1	June 30	76	44.2	Mar. 21	58	178
Apr. 7	60	9.23	July 31	85	432	June 5	78	1,830
May 12	75	9.73	Oct. 28	64	95.9	June 11	79	1,930
Aug. 4	82	55.8	Dec. 29	50	94.3	Aug 12	86	1.12
Nov. 25	59	61.3	Jan. 4, 1960	46	1,340	Nov. 18	62	.02
Dec. 8	48	.06	Feb. 14	42	1,370	Dec. 20	38	.12
Feb. 18, 1956	49	11.1	Mar. 17	44	185	Feb. 29, 1964	40	.04
Mar. 26	61	11.3	Aug. 15	83	.07	June 29	82	103
June 2	78	73.6	Sept. 16	76	24.6	Oct. 6	69	1,810
July 20	83	49.0	Dec. 16	46	1,160	Oct. 13	66	2,110
Feb. 6, 1957	49	11.4	Jan. 5, 1961	45	618	Dec. 5	44	2,000
Mar. 12	60	8.81	Jan. 6	47	1,090	Jan. 6, 1965	56	437
Dec. 18	51	1,960	Jan. 23	46	1,970	Feb. 3	43	1.88
Dec. 23	63	1,220	Mar. 7	59	474	Apr. 14	69	2.02
Jan. 7, 1958	44	30.0	Apr. 4	62	1,330	May 27	78	1,440
Jan. 31	54	268	Apr. 11	64	1,720	July 15	87	9.05
Feb. 19	40	31.0	May 16	72	464	Sept. 15	82	6.42
May 14	72	5,490	Dec. 14	42	193	Oct. 21	68	.03
June 12	78	1,060	Feb. 9, 1962	48	.93	Dec. 1	51	.05
Aug. 3	85	1,010	Apr. 4	57	849	Jan. 12, 1966	54	.16
Sept. 9	78	13.0	Apr. 20	64	29.6	Mar. 31	59	.09
Oct. 14	69	82.0	May 8	72	1,520	May 2	65	7,120
Dec. 30	44	.11	May 14	77	1,930	July 1	79	1,380
Feb. 4, 1959	38	.08	May 31	77	.14	July 7	82	714
Feb. 27	48	69.3	July 8	81	798	July 8	80	338
Mar. 10	48	72.6	Nov. 29	61	.76			

TRINITY RIVER BASIN

8-0615. East Fork Trinity River near Rockwall, Tex.

Location.--Lat 32°55'28", long 96°30'06", at bridge on State Highway 66 (formerly U. S. Highway 67), 3 miles southwest of Rockwall, Rockwall County, and 6 miles upstream from Maddy Creek.

Drainage area.--839 sq mi.

Remarks.--Flow regulated since September 1953 by Lavon Reservoir.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 26, 1949	32	14,000	Feb. 21, 1951	53	2,620	Apr. 1, 1953	66	136
Feb. 1	32	458	Mar. 15	51	100	Apr. 30	65	21,800
Feb. 3	34	354	Apr. 10	64	48.2	May 27	81	161
Mar. 10	52	253	May 24	69	1,300	May 28	81	147
Apr. 12	61	932	June 4	70	9,260	Dec. 9	51	.35
Apr. 14	64	240	June 14	76	11,900	Mar. 11, 1954	70	.33
Oct. 20	65	1.02	June 15	76	8,490	Oct. 28	54	40.4
Nov. 22	51	23.5	July 2	75	392	May 27, 1957	74	36,300
Mar. 22, 1950	54	165	July 24	84	18.7	Mar. 29, 1958	52	3,550
Apr. 26	62	573	Sept. 25	82	.07	Oct. 14	78	132
June 28	82	74.6	Dec. 18	42	.35	Feb. 4, 1959	40	4.04
Aug. 23	77	29.5	Jan. 22, 1952	55	.29	Apr. 15	60	111
Oct. 3	73	129	Feb. 26	48	3.34	Mar. 17, 1960	46	206
Nov. 9	59	26.8	Mar. 25	52	10.1	Aug. 15	79	1.71
Dec. 13	44	25.2	Apr. 29	67	254	Apr. 10, 1961	66	2,050
Jan. 11, 1951	41	24.4	May 27	73	662	Mar. 15, 1962	52	6.30
Feb. 13	54	29.2	June 24	83	6.78	Apr. 4	56	864
Feb. 20	56	1,510	Jan. 13, 1953	52	14.7	May 8	74	1,620

TRINITY RIVER BASIN

8-0617. Duck Creek near Garland, Tex.

Location.--Lat 32°50'00", long 96°35'45", at bridge on Belt Line Road, 6.0 miles southeast of Garland, Dallas County, and 6.0 miles upstream from mouth.

Drainage area.--31.6 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 27, 1958	51	7.85	May 17, 1961	74	1.38	Mar. 9, 1964	43	298
Feb. 19	39	3.69	June 25	64	1,280	Mar. 9	43	202
Mar. 13	41	33.0	July 12	79	1.39	Mar. 9	43	156
Apr. 1	61	15.1	Aug. 15	80	3.06	Mar. 9	43	90.3
Apr. 27	57	95.9	Sept. 20	68	.60	Mar. 9	43	47.6
Mar. 14	78	2.69	Oct. 25	65	.90	Mar. 10	41	19.6
Oct. 13	75	.07	Nov. 24	54	7.33	Apr. 8	58	1.67
Oct. 30	65	.005	Nov. 30	50	3.06	May 14	72	2.10
Nov. 26	52	.79	Dec. 18	49	26.2	June 16	77	6.10
Dec. 30	45	1.63	Jan. 17, 1962	41	4.97	Aug. 19	83	1.81
Feb. 4, 1959	44	1.10	Feb. 9	54	3.79	Sept. 28	64	29.4
Feb. 27	48	.09	Mar. 15	49	5.78	Oct. 30	67	1.35
Mar. 10	52	.36	Apr. 20	72	4.05	Dec. 6	42	3.92
Apr. 15	55	.10	May 31	81	2.75	Jan. 9, 1965	49	43.1
May 11	63	5.49	July 8	84	2.43	Feb. 18	51	22.4
May 20	63	.18	July 27	69	12,500	Mar. 24	49	3.91
June 8	76	1.30	Aug. 11	85	3.13	Apr. 23	74	2.15
Oct. 1	64	370	Aug. 11	85	2.95	June 2	78	8.82
Oct. 2	70	11.8	Sept. 20	78	3.25	June 19	79	3.05
Oct. 28	56	2.52	Oct. 12	77	8.53	July 27	88	1.48
Jan. 5, 1960	38	1,360	Oct. 22	67	3.10	Aug. 26	81	.90
Jan. 11	58	21.9	Nov. 29	56	21.2	Sept. 29	74	.64
Mar. 18	46	6.96	Jan. 4, 1963	49	6.59	Nov. 3	58	.19
Apr. 20	65	2.98	Feb. 14	43	3.33	Dec. 2	50	.74
June 1	79	2.50	Mar. 22	58	1.92	Jan. 7, 1966	50	1.18
July 10	80	.77	Apr. 22	76	1.27	Feb. 13	52	5.94
Aug. 15	82	.84	June 5	81	3.94	Mar. 23	60	2.86
Sept. 16	85	.28	July 15	83	4.62	June 9	77	1.69
Nov. 21	55	3.07	Dec. 20	38	.39	July 14	89	.33
Jan. 5, 1961	47	7.60	Jan. 22, 1964	55	1.17	Aug. 12	80	10.2
Feb. 23	52	12.7	Feb. 26	45	.91	Sept. 18	72	12.3
Apr. 5	63	8.09	Mar. 9	43	369			

TRINITY RIVER BASIN

8-0620. East Fork Trinity River near Crandall, Tex.

Location.--Lat 32°38'20", long 96°29'15", at bridge on U. S. Highway 175, 4,500 ft downstream from Mustang Creek, 1.8 miles northwest of Crandall, Kaufman County, and 2.9 miles upstream from Little Buffalo Creek.

Drainage area.--1,256 sq mi.

Remarks.--Flow largely regulated by Lavon Reservoir since September 1953.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 27, 1949	41	16,700	Mar. 3, 1955	64	16.5	Apr. 11, 1961	64	1,610
June 15	73	19,600	Apr. 7	65	20.6	June 15	85	21.8
Dec. 2	56	30.2	May 12	77	10.3	July 13	80	74.7
Feb. 4, 1950	41	17,600	July 11	85	7.05	Aug. 15	86	5.53
Feb. 6	51	7,960	Sept. 15	80	4.20	Sept. 20	75	9.32
Mar. 22	59	255	Oct. 13	71	10.6	Oct. 25	69	12.9
Apr. 26	66	785	Nov. 3	63	4.43	Nov. 30	52	83.0
May 5	71	16,600	Dec. 8	51	8.29	Feb. 9, 1962	51	94.8
May 6	70	10,800	Feb. 18, 1956	55	137	Apr. 30	74	2,160
July 26	85	49.0	Mar. 22	52	12.0	May 15	73	1,680
Aug. 23	77	39.8	May 3	70	4,200	May 16	73	1,710
Oct. 3	72	19.9	June 19	76	1.01	Aug. 11	89	107
Dec. 13	47	35.9	Oct. 25	68	6.48	Feb. 14, 1963	43	118
Jan. 10, 1951	44	36.7	Nov. 20	59	.80	Mar. 20	68	40.4
Feb. 13	51	48.2	Feb. 7, 1957	53	19.9	Apr. 26	70	69.1
Mar. 15	47	192	Mar. 13	58	11.6	June 12	80	1,800
Apr. 10	63	74.2	Sept. 4	84	45.4	July 17	85	35.6
May 23	72	741	Oct. 9	78	16.5	Aug. 13	93	5.75
June 5	71	5,800	Dec. 3	63	611	Sept. 19	80	10.5
June 6	71	10,000	Jan. 8, 1958	34	1,210	Oct. 22	74	7.72
June 22	80	2,670	Feb. 20	41	90.1	Nov. 19	64	9.40
July 24	87	29.0	Aug. 3	81	965	Dec. 17	40	11.7
Aug. 29	86	1.13	Sept. 3	83	11.6	Jan. 22, 1964	52	20.9
Sept. 25	88	1.52	Oct. 13	76	107	Feb. 26	48	17.6
Nov. 20	55	.52	Nov. 4	59	9.72	Apr. 9	63	32.9
Dec. 18	45	1.58	Dec. 30	42	20.3	Apr. 23	69	193
Jan. 22, 1952	58	2.31	Feb. 4, 1959	45	59.9	May 15	73	37.6
Feb. 26	53	7.06	Mar. 10	50	107	July 17	85	15.9
Mar. 25	56	11.4	Apr. 5	56	120	Aug. 19	84	26.6
Apr. 29	66	1,900	Aug. 19	80	81.5	Apr. 23, 1965	75	56.4
May 22	68	486	Sept. 22	81	5.08	May 11	67	5,380
June 27	86	7.74	Oct. 27	60	128	July 21	88	30.6
Dec. 10	49	26.1	Mar. 18, 1960	44	331	Aug. 25	83	17.8
Jan. 14, 1953	52	36.9	Apr. 21	65	42.0	Sept. 29	71	39.9
July 2	94	1.36	June 1	80	27.2	Nov. 2	61	18.0
Oct. 30	60	6.00	July 10	82	13.7	Dec. 1	53	27.1
Jan. 13, 1954	39	9.75	Aug. 12	82	80.1	Jan. 9, 1966	52	28.2
Mar. 11	65	14.1	Sept. 16	78	33.6	Feb. 8	58	41.1
June 17	85	35.6	Oct. 12	76	5.56	June 8	82	53.2
July 2	82	124	Nov. 21	56	20.6	July 14	86	73.3
Dec. 2	58	1.48	Jan. 6, 1961	47	528	Aug. 11	87	24.6
Jan. 6, 1955	59	4.17	Feb. 23	48	608	Sept. 20	75	117
Jan. 27	50	6.64	Apr. 5	62	742			

TRINITY RIVER BASIN

8-3625. Trinity River near Rosser, Tex.

Location.--Lat 32°25'35", long 96°27'45", at bridge on State Highway 34, 2.5 miles south of Rosser, Kaufman County, and 8.5 miles downstream from East Fork Trinity River.

Drainage area.--0,146 sq mi.

Water temperature records available.--Once-daily readings from October 1954 to September 1966. Temperature readings at irregular intervals for the period 1942-50 are on file in the district office at Austin.

Remarks.--Flow largely regulated by reservoirs above Dallas and by Lavon Reservoir on East Fork Trinity River.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1955	Mean	73	57	59	51	57	77	84	-	90	94	93	91
	Max.-Min.	83-60	68-50	74-53	69-57	74-63	84-69	90-76	-	94-84	97-90	95-88	91-79
1956	Mean	68	54	45	42	-	-	66	76	82	85	84	78
	Max.-Min.	84-57	65-43	52-37	52-34	-	-	79-60	82-67	86-74	87-83	87-78	83-71
1957	Mean	71	59	-	49	57	57	64	72	78	80	81	77
	Max.-Min.	77-64	66-46	-	59-41	64-47	62-49	68-55	77-66	81-74	84-79	83-78	83-71
1958	Mean	66	-	-	53	52	61	69	75	75	81	83	80
	Max.-Min.	74-54	-	-	57-46	65-50	67-56	73-64	79-65	81-72	86-74	86-79	87-73
1959	Mean	67	60	47	47	50	56	63	74	80	83	83	80
	Max.-Min.	75-52	70-51	52-34	59-34	49-39	62-51	72-54	82-64	86-73	87-78	86-80	84-75
1960	Mean	69	53	51	46	45	52	62	72	72	75	83	79
	Max.-Min.	77-61	60-42	56-47	57-43	53-37	64-49	72-50	78-65	84-73	83-78	87-80	85-71
1961	Mean	71	60	47	45	50	59	69	73	78	83	83	77
	Max.-Min.	77-53	65-52	59-41	53-34	60-41	66-52	74-56	79-66	83-69	85-80	86-78	83-71
1962	Mean	69	57	49	44	54	57	65	74	80	82	83	79
	Max.-Min.	76-64	63-52	61-41	51-35	56-49	65-45	72-56	80-67	86-76	86-75	86-79	86-73
1963	Mean	72	61	51	42	45	56	61	70	74	78	85	79
	Max.-Min.	76-62	62-52	59-42	52-34	52-40	64-47	65-55	-	-	-	-	-
1964	Mean	72	61	47	47	50	50	69	76	80	86	85	79
	Max.-Min.	75-62	66-53	55-39	55-36	52-48	64-50	75-62	81-69	85-76	88-74	89-79	86-68
1965	Mean	65	49	49	51	52	62	69	73	78	85	83	79
	Max.-Min.	72-60	70-50	57-43	60-44	-	62-44	75-53	79-66	82-74	87-83	85-80	84-70
1966	Mean	69	64	56	50	49	58	67	72	76	82	83	77
	Max.-Min.	76-62	67-55	60-46	59-41	59-39	66-50	70-64	77-64	80-71	85-78	89-73	83-72
1955-66	Mean	69	58	50	48	52	56	66	74	80	84	84	79
	Max.-Min.	84-54	70-42	74-34	65-34	74-37	84-40	90-54	82-64	94-69	97-74	95-73	91-68

TRINITY RIVER BASIN

8-0626. Cedar Creek near Kemp, Tex.

Location.--Lat 32°30'10", long 96°06'25", at bridge on Farm Road 1536, 2 miles upstream from Williams Creek, and 8 miles northeast of Kemp, Kaufman County.

Drainage area.--189 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 14, 1963	35	4.68	Mar. 12, 1964	53	21.7	June 16, 1965	86	0.74
Feb. 13	44	.95	Apr. 23	78	2,060	Sept. 28	68	1.88
Mar. 19	67	1.72	May 15	58	.86	Jan. 9, 1966	49	2.45
Apr. 24	70	427	Sept. 23	77	21.4	Mar. 22	67	1.36
Apr. 24	70	604	Feb. 14, 1965	48	34.8	Apr. 25	66	12,900
Apr. 25	70	790	Mar. 23	60	.74	Apr. 26	66	8,850
Feb. 26, 1964	45	.10	Apr. 22	73	.49	June 6	82	2.54
Mar. 10	51	266	May 11	72	1,010	Sept. 16	77	13.8
Mar. 11	53	47.5	May 20	75	145			

TRINITY RIVER BASIN

8-0629. Kings Creek near Kaufman, Tex.

Location.--Lat 32°30'50", long 96°19'40", at bridge on Farm Road 1388, 3 miles upstream from Cottonwood Creek, 4 miles downstream from Big Brushy Creek, and 5 miles south of Kaufman, Kaufman County.

Drainage area.--233 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 14, 1963	33	11.1	Mar. 10, 1964	49	411	June 17, 1965	84	12.2
Feb. 13	43	7.28	Mar. 11	47	73.6	July 20	97	.97
Mar. 20	68	2.84	Mar. 12	60	18.9	Aug. 25	82	7.41
Apr. 24	69	57.2	Apr. 9	68	5.54	Sept. 26	81	1.26
Apr. 24	69	118	May 15	82	2.90	Nov. 2	60	.13
Apr. 25	69	181	June 17	86	2.96	Dec. 1	52	1.39
June 10	92	.75	Sept. 23	75	577	Jan. 9, 1966	54	3.03
July 16	94	.65	Oct. 31	75	.85	Mar. 23	55	2.53
Nov. 19	66	1.74	Dec. 4	48	1.29	June 8	68	2.66
Dec. 17	41	1.14	Jan. 7, 1965	68	1.97	July 14	89	.62
Jan. 23, 1964	52	2.87	Apr. 22	89	1.30	Aug. 11	85	.42
Feb. 27	44	1.24	May 20	75	620	Sept. 14	83	6.70
Mar. 10	49	764						

TRINITY RIVER BASIN

8-0630. Cedar Creek near Mabank, Tex.

Location.--Lat 32°19'45", long 96°10'05", at bridge on Farm Road 85, 3 miles downstream from Lacys Fork, and 4 1/2 miles southwest of Mabank, Kaufman County.

Drainage area.--733 sq mi.

Remarks.--Once-daily readings for the period November 1956 to September 1957 are on file in the district office at Austin.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 26, 1950	62	14.7	Feb. 17, 1956	58	240	Oct. 27, 1961	72	0.05
Feb. 3	41	10,700	Mar. 21	52	.70	Feb. 10, 1962	58	10.1
Feb. 25	62	32.2	Mar. 21	52	.78	Mar. 16	54	40.9
Mar. 23	59	12.1	Nov. 6	60	2,250	May 2	71	2,790
Apr. 25	66	79.7	Dec. 19	48	.44	July 11	86	2.90
June 27	89	4.16	Feb. 8, 1957	53	28.4	Aug. 12	88	18.0
July 25	85	.49	Mar. 14	60	3.73	Aug. 14	82	12.5
Dec. 12	48	.24	Dec. 4	50	40.6	Sept. 27	70	3.12
Jan. 9, 1951	45	2.79	Jan. 9, 1958	38	12.1	Oct. 24	63	5.28
Feb. 14	32	16.9	Feb. 21	44	19.9	Feb. 13, 1963	44	9.33
Mar. 14	50	7.03	Apr. 3	56	67.4	Mar. 19	68	9.01
Apr. 9	68	5.21	May 15	74	86.4	May 2	62	2,460
May 22	82	3.45	June 18	75	47.2	June 12	88	.83
June 5	72	4,330	Dec. 2	65	70.9	July 17	88	.51
June 21	83	75.9	Dec. 31	50	3.52	Mar. 4, 1964	54	23.7
Sept. 26	74	6.50	Feb. 5, 1959	45	73.3	Mar. 11	51	829
Jan. 28, 1952	47	1.00	Mar. 11	56	1,540	Mar. 12	53	240
Feb. 27	47	136	Apr. 14	60	315	Apr. 11	62	10.8
Mar. 26	54	14.4	May 19	66	50.5	Apr. 23	76	4,440
Apr. 30	73	30.3	July 13	81	1.86	Apr. 26	76	338
May 25	70	9,320	Aug. 18	88	.12	Apr. 26	76	302
May 26	72	8,560	Oct. 27	59	.91	Apr. 27	80	137
Nov. 24	52	9.09	Jan. 6, 1960	41	4,210	Apr. 30	70	54.3
Nov. 25	51	64.3	Feb. 11	51	97.7	May 15	55	36.6
Nov. 26	49	1,580	Mar. 20	56	43.6	June 17	83	.57
Dec. 9	55	47.5	Apr. 22	66	8.68	Sept. 25	70	53.0
Jan. 14, 1953	58	6.09	June 1	79	3.50	Dec. 2	58	1.55
Mar. 30	67	33.8	July 11	82	.30	Jan. 6, 1965	58	1.23
June 4	86	4.60	Oct. 11	75	.16	Mar. 22	54	33.6
Feb. 10, 1954	56	6.54	Dec. 10	44	10,300	Apr. 21	77	7.60
Apr. 16	68	97.2	Jan. 12, 1961	46	1,200	May 13	74	4,050
Dec. 1	59	2.54	Feb. 22	45	2,430	June 16	87	4.44
Jan. 5, 1955	61	6.38	Apr. 6	64	96.2	July 20	86	4.36
Mar. 2	64	12.4	May 18	80	4.33	Sept. 27	71	37.3
Apr. 6	68	26.5	June 14	86	3.52	Nov. 1	63	1.76
Oct. 12	78	.23	July 13	83	40.6	Nov. 30	52	.61
Jan. 25	46	7.06	Aug. 16	89	.09	Jan. 8, 1966	50	29.1
Feb. 16	55	591	Sept. 21	80	2.42			



## TRINITY RIVER BASIN

8-0631. Richland Creek near Dawson, Tex.

Location.--Lat 31°56'18", long 96°40'52", at bridge on State Highway 31, 1.3 miles upstream from St. Louis Southwestern Railway Lines bridge, 1.5 miles downstream from Navarro Mills Dam, 2.5 miles upstream from Post Oak Creek, and 3.6 miles northeast of Dawson, Navarro County.

Drainage area.--333 sq mi.

Remarks.--Flow regulated since March 1963, by Navarro Mills Reservoir.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 20, 1960	64	140	May 1, 1962	64	1,430	Jan. 5, 1966	58	23.4
Oct. 20	59	62.3	July 10	87	5.07	Jan. 6	50	12.8
Nov. 16	61	.65	Aug. 13	67	.03	Feb. 24	48	12.3
Jan. 9, 1961	46	3,710	Nov. 20	51	24.7	Mar. 23	55	12.4
May 19	72	14.2	Feb. 11, 1963	38	11.3	Apr. 24	68	881
June 15	79	7.37	Mar. 15	65	.21	Apr. 24	67	192
July 14	82	33.6	Nov. 20, 1964	57	.35	May 19	69	532
Aug. 17	80	10.3	Feb. 16, 1965	46	.25	May 27	74	1,000
Oct. 30	69	6.96	May 13	72	4.57	June 21	80	1,330
Dec. 20	45	134	May 26	76	1,290	July 5	79	12.0
Feb. 11, 1962	57	29.3	July 7	86	17.2	Aug. 15	87	12.6
Mar. 18	55	28.4	Nov. 10	64	22.8	Sept. 30	70	10.5

## TRINITY RIVER BASIN

8-0632. Pin Oak Creek near Hubbard, Tex.

Location.--Lat 31°45'05", long 96°43'10", at bridge on State Highway 171, 5.8 miles southeast of Hubbard, Hill County, and 9 miles upstream from Elm Creek.

Drainage area.--17.6 sq mi.

Remarks.--Once-daily readings from January 1957 to September 1960, and January 1965 to September 1966 are on file in the district office in Austin.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 5, 1956	56	11.4	Jan. 8, 1960	44	4.22	Mar. 30, 1965	53	146
Nov. 5	56	10.0	Feb. 9	64	1.54	Mar. 30	53	119
Nov. 6	58	.80	Mar. 21	55	.48	Mar. 30	59	98.5
Dec. 20	58	3.97	Apr. 22	70	.04	Mar. 31	57	53.1
Feb. 1, 1957	51	99.5	May 26	79	.01	Apr. 14	74	.35
Feb. 1	52	39.0	Jan. 10, 1961	43	8.62	May 11	68	147
Feb. 2	52	10.6	Feb. 21	47	35.7	May 12	70	89.2
Feb. 2	52	7.69	Apr. 7	69	1.16	May 15	69	118
Apr. 20	66	2,430	June 16	79	40.3	May 16	67	844
Apr. 20	66	1,660	June 20	74	8.10	June 1	79	39.2
Apr. 23	63	2,900	Jan. 15, 1962	40	.38	Nov. 10	60	.04
Apr. 23	63	2,220	Feb. 11	57	.20	Dec. 20	47	2.42
Mar. 6, 1958	52	.04	Mar. 18	64	.66	Feb. 25, 1966	48	2.12
Jan. 1, 1959	40	.37	May 1	71	2.59	Mar. 16	67	.38
Feb. 7	46	.38	Feb. 16, 1965	46	.03	Mar. 29	55	1.76
Mar. 13	49	.11	Mar. 30	53	414	Apr. 24	68	1,060
Apr. 13	50	3.71	Mar. 30	53	366	Apr. 24	68	1,970
May 12	67	18.0	Mar. 30	53	250	May 9	74	63.3
May 13	73	5.66	Mar. 30	53	190	June 1	75	.23
May 17	61	.88						

TRINITY RIVER BASIN

8-0635. Richland Creek near Richland, Tex.

Location.--Lat 31°56'55", long 96°25'15", at bridge on U. S. Highway 75, 800 ft downstream from Texas and New Orleans Railroad Co. bridge, 1 mile north of Richland, Navarro County, and 3.5 miles downstream from Pin Oak Creek.

Drainage area.--734 sq mi.

Remarks.--Flow partly regulated by Navarro Mills Reservoir since March 1963.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 3, 1949	36	8.58	May 21, 1955	70	457	Apr. 7, 1961	67	105
Feb. 22	52	188	May 22	75	40.6	May 19	74	19.8
Mar. 29	66	76.7	Sept. 14	79	3.58	July 14	81	93.0
Apr. 19	54	23.2	Oct. 12	78	.29	Aug. 18	81	35.7
Mar. 3	75	68.9	Jan. 25, 1956	47	45.1	Sept. 22	76	1.45
Nov. 3	56	.91	Jan. 30	51	.85	Oct. 30	68	2.92
Feb. 24, 1950	57	51.5	Feb. 15	56	7.34	Feb. 12, 1962	59	32.9
Mar. 23	58	17.8	Mar. 20	57	.20	May 2	66	1,350
Apr. 25	62	208	Mar. 20	57	.21	July 10	66	3.74
June 27	87	4.31	Feb. 28, 1957	55	3.24	Nov. 21	53	23.1
July 25	84	1.12	Mar. 14	61	2.12	Feb. 12, 1963	43	9.50
Oct. 2	75	.20	Mar. 15	57	12.6	Mar. 19	65	4.43
Feb. 14, 1951	46	2.33	Apr. 21	65	4,990	Apr. 30	53	1,450
Mar. 13	53	.47	Jan. 10, 1958	48	26.4	June 14	61	.50
Apr. 9	65	.41	Mar. 12	58	157	Feb. 29, 1964	49	1.32
May 22	79	1.77	Apr. 3	60	66.7	Apr. 12	63	.32
June 21	82	31.2	May 7	74	476	Feb. 16, 1965	48	19.3
Sept. 13	72	2,930	June 19	84	47.8	Mar. 29	58	.45
Sept. 26	77	.11	Sept. 20	71	1,890	May 1	72	5.65
Feb. 28, 1952	51	45.4	Oct. 7	67	32.4	May 11	69	3,660
Mar. 26	60	1.55	Dec. 1	63	48.8	May 19	71	1,850
Apr. 22	66	3,220	Jan. 1, 1959	40	49.5	May 20	72	1,700
Apr. 23	65	4,360	Jan. 20	46	7.95	May 21	74	1,020
May 11	68	24.7	Feb. 6	45	70.5	May 24	76	1,370
May 24	68	3,660	Mar. 12	55	37.1	June 9	78	113
May 25	73	4,100	Apr. 13	60	1,850	July 8	84	15.6
May 27	74	6.02	Apr. 20	68	2,870	Aug. 9	83	16.9
June 26	82	.75	Apr. 21	69	552	Sept. 15	83	19.2
Nov. 26	50	1,330	May 11	60	3,160	Oct. 13	68	15.7
Dec. 8	52	21.6	July 12	77	39.3	Nov. 11	62	25.2
Jan. 15, 1953	57	38.6	Aug. 17	84	5.21	Nov. 11	64	21.7
Mar. 31	66	35.5	Oct. 26	65	38.2	Dec. 14	60	18.0
May 14	60	15,600	Mar. 21, 1960	57	60.4	Jan. 6, 1966	53	51.9
Oct. 29	64	31.8	Apr. 23	71	21.9	Feb. 24	44	25.9
Feb. 10, 1954	53	2.22	July 11	80	13.5	Mar. 29	59	198
Oct. 30	54	16.7	Aug. 10	84	.60	Mar. 30	58	78.0
Jan. 26, 1955	45	1.36	Oct. 11	76	.02	May 10	73	535
Mar. 2	64	2.18	Dec. 9	45	3,980	July 6	81	14.6
Apr. 6	70	3.17	Jan. 11, 1961	45	3,500	Aug. 17	82	48.8
May 11	76	3.65	Feb. 21	48	2,240			

TRINITY RIVER BASIN

8-0638. Waxahachie Creek near Bardwell, Tex.

Location.--Lat 32°14'28", long 96°38'20", 1.0 mile downstream from Bardwell Dam (under construction in 1965), 3.8 miles upstream from mouth, 3.8 miles southeast of Bardwell, Ellis County, and 4.0 miles downstream from bridge on State Highway 34.

Drainage area.--178 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 24, 1964	48	0.01	Apr. 24, 1964	68	54.7	Feb. 10, 1965	50	680
Feb. 28	49	1.78	Apr. 30	66	26.0	May 1	73	11.9
Mar. 11	49	18.8	May 16	49	4.60	June 2	77	52.2
Apr. 11	59	2.82	June 18	80	6.88	July 7	82	10.2
Apr. 22	66	416	Sept. 24	71	22.2	Nov. 9	63	.55
Apr. 22	66	334	Dec. 1	50	13.6	Feb. 28, 1966	56	.29
Apr. 22	66	227	Jan. 12, 1965	48	11.9	Mar. 31	56	.36
Apr. 22	66	161	Feb. 9	49	2,840	May 5	66	19.4
Apr. 23	66	98.4	Feb. 10	49	1,190	June 3	75	787
Apr. 23	66	75.5	Feb. 10	50	891			

TRINITY RIVER BASIN

8-0645. Chambers Creek near Corsicana, Tex.

Location.--Lat 32°06'30", long 96°22'15", at bridge on State Highway 31, 500 ft upstream from St. Louis Southwestern Railway Lines bridge, 6,000 ft upstream from city of Corsicana diversion dam, 6 miles east of Corsicana, Navarro County, and 17 miles upstream from Richland Creek.

Drainage area.--963 sq mi.

Water temperature records available.--Once-daily readings from September 1961 to September 1966. Temperature readings at irregular intervals for the period 1948-66 are on file in district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1961	Mean	-	-	-	-	-	-	-	-	-	-	-	79
	Max.-Min.	-	-	-	-	-	-	-	-	-	-	-	82-70
1962	Mean	68	56	51	42	56	58	68	78	82	86	-	79
	Max.-Min.	76-60	72-46	65-41	53-32	65-44	66-46	79-38	86-67	88-71	91-80	-	-
1963	Mean	72	58	51	42	49	63	71	76	84	-	-	-
	Max.-Min.	81-63	63-51	63-43	55-33	57-42	72-55	77-60	83-65	88-79	-	-	-
1964	Mean	-	-	-	48	50	60	71	75	83	-	-	-
	Max.-Min.	-	-	-	56-35	57-47	68-53	77-63	81-67	88-68	-	-	-
1965	Mean	-	60	49	52	48	54	73	75	83	88	-	-
	Max.-Min.	-	71-46	58-41	63-41	55-39	67-47	79-62	80-69	88-76	91-85	-	-
1966	Mean	69	64	53	47	49	60	68	75	80	87	84	77
	Max.-Min.	80-59	73-57	60-47	59-34	60-39	68-51	74-63	82-63	85-77	91-81	91-75	88-72
1961-66	Mean	70	60	51	46	50	59	70	76	82	87	84	78
	Max.-Min.	81-59	73-46	65-41	63-32	65-39	72-46	79-38	86-63	88-68	91-80	91-75	89-70

TRINITY RIVER BASIN

8-0646. Richland Creek near Fairfield, Tex.

Location.--Lat 31°57'05", long 97°05'52", at bridge on State Farm Highway 488, 4 miles downstream from Chambers Creek, and 16 miles north of Fairfield, Freestone County.

Drainage area.--1,957 sq mi.

Water temperature records available.-- Once-daily readings from April 1956 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1956	Mean	-	-	-	-	-	-	-	81	85	89	88	-
	Max.-Min.	-	-	-	-	-	-	-	87-67	94-70	95-84	94-80	-
1957	Mean	73	57	-	51	59	60	65	75	83	90	92	87
	Max.-Min.	86-65	64-51	-	60-40	70-51	64-50	74-58	81-65	89-74	95-86	98-88	93-74
1958	Mean	-	-	-	-	48	56	69	80	87	89	90	84
	Max.-Min.	-	-	-	-	60-40	66-44	73-62	86-66	92-79	94-79	94-81	90-74
1959	Mean	68	54	44	44	50	64	72	75	80	84	87	82
	Max.-Min.	79-60	61-48	55-34	52-32	58-40	72-54	76-59	80-66	87-70	90-79	91-80	89-76
1960	Mean	66	54	-	-	-	52	72	75	-	-	-	78
	Max.-Min.	80-55	70-47	-	-	-	70-40	80-51	85-65	-	-	-	85-70
1961	Mean	-	61	49	-	-	63	68	78	-	-	-	81
	Max.-Min.	-	69-54	-	56-40	-	70-53	76-56	85-66	-	-	-	90-70
1962	Mean	70	58	45	40	-	-	68	-	-	-	-	81
	Max.-Min.	85-60	65-52	-	55-37	-	-	76-61	-	-	-	-	92-72
1963	Mean	71	54	50	40	42	52	-	72	-	91	90	83
	Max.-Min.	78-58	58-49	56-42	49-34	47-38	56-48	-	82-60	-	95-84	94-86	91-74
1964	Mean	-	64	48	49	53	64	75	81	89	92	91	84
	Max.-Min.	-	72-55	54-39	57-38	57-50	71-58	80-65	90-73	94-74	95-86	96-84	94-72
1965	Mean	71	64	52	55	50	58	76	76	84	92	88	84
	Max.-Min.	76-66	75-51	65-41	66-47	57-41	70-50	81-61	79-69	92-71	97-88	93-81	94-71
1966	Mean	71	66	55	51	53	63	70	75	79	89	85	79
	Max.-Min.	80-63	70-58	61-50	63-39	61-44	72-54	80-65	82-66	85-75	94-81	93-75	87-74
1956-66	Mean	70	59	50	48	51	59	70	77	84	90	89	82
	Max.-Min.	86-55	75-47	65-34	66-32	70-38	72-40	81-51	90-60	94-70	97-79	98-75	94-70

TRINITY RIVER BASIN

8-0648. Catfish Creek near Tennessee Colony, Tex.

Location.--Lat 31°52'51", long 95°52'07", at bridge on U. S. Highway 287, 2 miles upstream from Beaver Creek, 3½ miles northwest of Tennessee Colony, Anderson County, 12 miles downstream from Coon Creek Lake, and 12 miles upstream from mouth.

Drainage area.--207 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 26, 1962	66	164	Dec. 2, 1964	49	9.22	Aug. 3, 1965	89	5.87
June 4	73	28.4	Jan. 6, 1965	57	34.3	Oct. 12	67	3.96
Aug. 14	82	2.89	Feb. 10	53	114	Nov. 17	64	19.3
Oct. 23	65	39.0	Feb. 12	53	307	Dec. 21	47	67.0
Nov. 27	58	68.0	Feb. 17	56	209	Jan. 26, 1966	40	67.8
Nov. 14, 1963	50	6.76	Mar. 17	66	53.3	Mar. 2	54	110
Dec. 18	41	31.8	Apr. 21	70	66.6	Apr. 5	59	44.9
Jan. 29, 1964	46	40.8	May 11	68	174	Apr. 24	67	2,240
Apr. 2	65	45.0	May 19	69	92.5	Apr. 25	66	5,710
May 6	71	23.1	May 20	70	674	May 5	66	507
June 9	79	20.4	May 25	72	145	July 19	84	2.67
Aug. 19	83	.83	June 2	76	85.4	Aug. 25	78	46.3
Oct. 30	62	4.27	June 28	85	35.9	Sept. 20	70	70.2

TRINITY RIVER BASIN

8-0650. Trinity River near Oakwood, Tex.

Location.--Lat 31°38'50", long 95°47'20", at bridge on U. S. Highways 79 and 84, 1½ miles upstream from Missouri Pacific Railroad Co. bridge, and 6 miles northeast of Oakwood, Leon County.

Drainage area.--12,833 sq mi.

Water temperature records available.--Once-daily readings from October 1947 to September 1954. Temperature readings at irregular intervals for the period 1948-66 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1948	Mean	73	58	51	-	48	56	68	73	81	81	84	77
	Max.-Min.	77 70	68 50	61 40	- -	68 35	69 42	75 57	78 66	85 73	89 65	86 81	83 69
1949	Mean	66	58	52	48	50	58	63	75	80	84	82	78
	Max.-Min.	79 54	79 45	64 41	61 35	61 32	67 48	67 48	80 72	84 73	89 81	86 78	89 65
1950	Mean	68	57	56	56	51	55	63	73	79	82	81	75
	Max.-Min.	80 51	65 49	69 42	63 45	60 41	60 50	69 56	76 64	84 61	85 80	84 79	87 70
1951	Mean	70	56	43	51	51	57	59	69	76	82	85	78
	Max.-Min.	79 62	70 45	57 40	58 40	60 34	60 50	67 56	77 61	80 70	85 80	87 83	85 69
1952	Mean	68	52	49	54	54	56	63	63	80	80	87	76
	Max.-Min.	78 62	63 43	64 32	66 42	65 43	58 53	69 38	72 56	87 65	84 76	90 79	83 71
1953	Mean	61	54	49	43	47	60	63	68	83	84	83	77
	Max.-Min.	76 53	62 40	58 40	55 38	56 41	65 51	70 60	78 59	90 77	87 80	85 80	81 71
1954	Mean	67	57	56	52	55	59	70	70	82	85	84	-
	Max.-Min.	79 60	65 51	59 53	57 45	65 50	68 45	75 56	82 50	85 75	88 82	88 81	- -
1948-54	Mean	68	56	51	51	51	57	64	70	80	83	84	77
	Max.-Min.	80 51	79 40	69 32	66 35	68 32	69 42	75 56	82 50	90 61	89 65	90 78	89 65

TRINITY RIVER BASIN

8-0652. Upper Keechi Creek near Oakwood, Tex.

Location.--Lat 31°34'20", long 96°53'05", at bridge on U. S. Highway 79, 1½ miles upstream from Missouri Pacific Railroad Co. bridge, 2 miles southwest of Oakwood, Leon County, 11 miles upstream from Buffalo Creek, and 21 miles upstream from mouth.

Drainage area.--150 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 23, 1962	70	17.2	Sept. 24, 1964	77	103	June 28, 1965	80	8.02
Apr. 26	70	674	Dec. 2	52	.14	Nov. 18	57	.28
May 1	72	129	Jan. 6, 1965	60	3.54	Dec. 22	49	18.9
June 4	74	16.4	Feb. 10	53	113	Jan. 27, 1966	40	15.8
Nov. 27	58	16.5	Mar. 18	52	16.5	Mar. 2	55	42.0
Jan. 30, 1964	50	2.50	Apr. 21	73	8.29	Apr. 4	75	9.73
Apr. 2	67	5.29	May 10	70	5,030	Apr. 26	74	2,800
Apr. 29	69	212	May 12	66	1,920	May 3	63	588
Apr. 29	68	165	May 24	73	129	May 4	67	447
Apr. 30	69	29.5	June 2	79	103	Sept. 19	73	131
June 9	81	1.41						

TRINITY RIVER BASIN

8-0653.5. Trinity River near Crockett, Tex.

Location.--Lat 31°20'20", long 95°39'25", at bridge on State Highway 7, 6 miles downstream from Upper Keechi Creek, and 12 miles west of Crockett, Houston County.

Drainage area.--13,911 sq mi.

Water temperature records available.--Once-daily readings from February 1964 to September 1966

Water Year	Water temperature (°F)											
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1964	Mean	-	-	-	-	49	71	80	83	90	93	87
	Max.-Min.	-	-	-	-	53-45	-	79-63	84-76	91-73	93-86	96-89
1965	Mean	69	65	51	55	51	53	73	74	81	85	82
	Max.-Min.	74-66	68-58	58-47	59-52	55-47	58-45	79-59	76-72	84-75	88-83	88-82
1966	Mean	71	67	55	49	49	60	68	73	79	85	80
	Max.-Min.	80-67	77-66	63-52	60-39	55-40	69-50	73-62	78-68	81-77	88-81	89-78
1964-66	Mean	70	66	53	52	50	56	71	76	81	87	83
	Max.-Min.	80-66	77-58	63-47	60-39	55-40	69-45	79-59	84-68	91-73	93-81	96-78

## TRINITY RIVER BASIN

8-0655. Trinity River near Midway, Tex.

Location.--Lat 31°04'40", long 95°42'00", at bridge on State Highway 21, 5 miles northeast of Midway, Madison County, and 8.5 miles downstream from Boggy Creek.

Drainage area.--14,450 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 15, 1948	60	360	Oct. 22, 1952	64	160	Jan. 24, 1961	46	20,700
Dec. 13	58	399	Sept. 24, 1953	78	171	Feb. 1	45	7,240
Jan. 19, 1949	44	1,980	Oct. 30	66	2,030	Mar. 20	60	12,700
Mar. 2	54	13,800	Nov. 23	54	1,230	May 1	74	1,360
Apr. 14	62	9,460	June 21, 1954	88	219	July 10	82	6,710
May 17	76	1,660	July 23	88	193	Aug. 8	84	685
May 27	76	12,600	Aug. 25	88	139	Sept. 18	73	3,940
June 2	80	20,800	Sept. 23	77	118	Oct. 23	69	566
June 13	80	3,120	Jan. 14, 1955	52	635	Nov. 13	63	818
July 27	86	887	Feb. 3	54	569	Dec. 15	45	9,650
Aug. 30	83	333	Feb. 9	49	6,900	Jan. 19, 1962	43	1,910
Oct. 12	77	2,450	Mar. 18	70	543	Apr. 2	61	1,210
Nov. 2	58	8,580	May 12	80	357	May 4	71	17,200
Dec. 29	52	1,190	June 9	78	953	June 7	82	1,250
Jan. 30, 1950	56	2,510	July 12	90	230	Aug. 1, 1963	90	475
Mar. 8	58	4,120	Aug. 12	86	313	Nov. 12	56	280
Apr. 6	67	1,170	Sept. 15	81	192	Mar. 31, 1964	61	800
May 1	70	7,250	Oct. 11	78	365	May 4	72	1,590
May 18	75	23,000	Nov. 10	56	188	July 17	88	315
June 8	77	5,230	Dec. 15	50	288	Aug. 18	88	304
July 19	81	4,700	Feb. 21, 1956	60	1,250	Sept. 23	83	1,500
Aug. 28	84	2,440	Apr. 2	72	360	Oct. 1	70	9,940
Oct. 13	70	1,140	June 11	84	962	Nov. 3	69	2,690
Nov. 14	58	1,070	July 10	91	145	Dec. 1	54	8,360
Dec. 8	49	643	Aug. 14	94	24.4	Jan. 6, 1965	62	1,910
Jan. 9, 1951	48	660	Sept. 18	87	122	Feb. 16	53	20,600
Feb. 23	56	7,000	Oct. 15	77	130	Mar. 19	43	4,410
Mar. 30	59	2,910	Nov. 21	60	247	Apr. 20	75	2,050
June 4	81	796	Dec. 11	56	178	May 21	74	38,600
July 9	86	2,890	Jan. 22, 1957	55	255	May 26	83	49,900
Aug. 7	93	398	Feb. 18	59	468	July 1	87	2,750
Sept. 13	82	1,050	Aug. 13	77	19,400	Aug. 5	93	640
Oct. 16	76	362	Jan. 21, 1958	49	10,300	Sept. 20	84	429
Nov. 15	66	310	Mar. 12	57	9,640	Oct. 12	73	647
Dec. 18	51	468	Aug. 11	91	1,200	Dec. 23	51	1,300
Jan. 22, 1952	55	437	Nov. 10	72	636	Jan. 28, 1966	43	1,200
May 14	76	697	Sept. 14, 1959	79	412	Mar. 3	55	3,060
May 15	76	666	Dec. 14	55	1,920	Apr. 7	66	1,100
June 20	87	626	Apr. 4, 1960	63	2,880	May 2	70	57,400
July 17	83	426	May 9	74	2,040	July 22	86	2,530
Aug. 14	88	278	Nov. 14	63	590	Sept. 23	71	2,290
Sept. 17	86	197	Dec. 12	46	28,400			

## TRINITY RIVER BASIN

8-0657. Caney Creek near Madisonville, Tex.

Location.--Lat 30°56'15", long 95°56'00", at bridge on U. S. Highway 190, 1.5 miles southwest of Madisonville, Madison County, and 10 miles upstream from Bédias Creek.

Drainage area.--112 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 31, 1964	50	11.4	Apr. 30, 1964	69	5.35	Feb. 19, 1965	57	56.7
Mar. 2	60	27.1	May 4	73	17.6	Mar. 19	52	7.70
Apr. 2	66	.39	Sept. 23	77	1.06	Apr. 20	70	2.42
Apr. 26	69	239	Nov. 3	68	1.41	June 1	76	18.2
Apr. 26	68	228	Dec. 1	52	1.16	Dec. 23	52	20.0
Apr. 26	68	216	Jan. 5, 1965	58	1.01	Jan. 28, 1966	42	28.3
Apr. 27	70	340	Jan. 23	57	334	Mar. 4	58	19.7
Apr. 27	70	365	Feb. 12	52	1,000	Apr. 4	65	2.91
Apr. 28	70	103	Feb. 13	53	294	May 5	66	63.7
Apr. 28	70	69.2	Feb. 16	55	1,410	Sept. 23	70	1.26
Apr. 28	71	47.4						

TRINITY RIVER BASIN

8-0660. Trinity River at Riverside, Tex.

Location.--Lat 30°51'35", long 95°23'54" at bridge on State Highway 45, 1,200 ft upstream from Missouri Pacific Railroad Co. bridge, 0.5 mile north of Riverside, Walker County, and three-quarters of a mile downstream from Harmon Creek.

Drainage area.--15,569 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 15, 1948	60	389	June 20, 1952	87	714	Sept. 14, 1959	80	469
Dec. 13	57	432	July 16	83	532	Dec. 14	54	1,840
Jan. 19, 1949	45	3,140	Aug. 14	90	265	May 9, 1960	72	1,470
Mar. 2	56	24,700	Sept. 17	87	202	Oct. 17	75	1,340
Apr. 13	64	8,600	Oct. 22	64	171	Dec. 21	46	41,000
May 17	76	2,620	Nov. 7	62	165	Mar. 20, 1961	59	15,000
June 2	80	20,700	Nov. 26	56	1,650	May 1	74	1,480
June 14	80	4,150	Sept. 24, 1953	78	176	July 10	61	8,270
July 27	68	980	Oct. 30	62	2,410	Aug. 11	85	706
Aug. 18	90	522	Nov. 23	55	1,830	Sept. 16	72	4,820
Oct. 12	75	3,280	June 23, 1954	88	677	Feb. 27, 1962	57	4,490
Nov. 2	58	8,460	July 23	89	216	Apr. 2	62	1,400
Dec. 8	58	1,260	Aug. 25	85	162	May 4	72	17,800
Jan. 30, 1950	57	2,320	Sept. 23	81	122	June 6	82	1,680
Mar. 7	58	5,700	Feb. 3, 1955	55	679	Oct. 22	72	6,400
Apr. 6	65	1,430	Mar. 18	72	536	Nov. 26	59	1,100
May 1	70	11,200	May 12	81	375	Jan. 2, 1963	51	2,400
May 18	75	22,200	Jan. 10	79	1,050	Nov. 12	64	341
June 8	74	9,730	July 12	88	262	Mar. 31, 1964	61	995
July 19	83	4,210	Oct. 11	78	484	May 4	72	3,060
July 29	86	2,500	Nov. 11	60	192	July 17	89	328
Aug. 24	86	2,060	Dec. 15	49	292	Aug. 17	90	341
Oct. 13	72	1,350	Jan. 18, 1956	45	406	Sept. 23	83	1,820
Nov. 14	61	1,260	Feb. 21	61	1,230	Oct. 1	71	9,460
Dec. 14	52	684	Apr. 2	72	399	Nov. 4	68	2,580
Jan. 9, 1951	47	709	May 10	76	15,400	Nov. 30	59	9,180
Feb. 23	56	7,570	June 11	86	1,870	Jan. 11, 1965	53	2,100
Apr. 5	63	1,820	July 10	88	205	Mar. 22	54	4,160
Apr. 24	76	590	Aug. 14	90	98.3	Apr. 19	77	1,770
June 4	79	944	Sept. 18	85	121	May 27	82	40,400
July 9	87	2,840	Oct. 15	77	141	July 2	79	2,540
Aug. 7	91	441	Nov. 21	62	295	Aug. 6	89	570
Oct. 16	75	368	Feb. 5, 1957	57	5,520	Oct. 28	66	678
Nov. 14	66	389	Feb. 16	59	541	Dec. 3	50	17,800
Dec. 18	51	507	Aug. 13	78	17,400	Jan. 10, 1966	54	1,410
Jan. 22, 1952	57	470	Aug. 11, 1958	90	1,380	Mar. 17	59	1,180
Apr. 18	64	5,910	Oct. 14	80	2,300	May 11	67	70,300
May 2	68	19,900	Nov. 10	72	707	June 1	79	22,800
May 14	76	946	Dec. 15	39	940	Aug. 10	86	783

TRINITY RIVER BASIN

8-0662. Long King Creek at Livingston, Tex.

Location.--Lat 30°42'58", long 94°57'31", at bridge on U. S. Highway 190, 2 miles west of Livingston, Polk County, 2 miles upstream from Choates Creek, and 14.8 miles from mouth.

Drainage area.--141 sq mi.

Water temperature records available.--Once-daily readings from January 1963 to September 1964.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1963	Mean	-	-	-	-	53	67	76	82	87	87	87	82
	Max.-Min.	-	-	-	-	65-44	76-57	84-58	87-76	91-82	90-81	89-82	88-73
1964	Mean	74	63	47	51	51	60	72	79	85	88	89	82
	Max.-Min.	79-65	73-53	56-35	64-37	56-45	67-51	80-63	86-71	89-71	92-81	93-85	89-73
1965	Mean	68	64	54	53	53	59	-	-	85	88	85	81
	Max.-Min.	80-60	75-49	65-45	65-45	62-43	71-42	-	-	90-78	91-83	88-82	87-71
1966	Mean	70	66	55	49	52	62	72	75	83	87	81	77
	Max.-Min.	80-58	72-56	65-49	65-36	62-43	72-55	79-66	83-66	87-77	92-82	88-75	82-71
1963-66	Mean	71	64	52	51	52	62	73	79	85	88	86	80
	Max.-Min.	80-58	75-49	65-35	65-36	65-43	76-42	84-58	87-66	91-71	92-81	93-75	89-71

TRINITY RIVER BASIN

8-0665. Trinity River at Romayor, Tex.

Location.--Lat 30°25'30", long 94°51'02", at bridge on State Highway 105, 1.9 miles south of Romayor, Liberty County, 1.9 miles downstream from Gulf, Colorado and Santa Fe Railway Co. bridge, and 3.7 miles downstream from Big Creek.

Drainage area.--17,186 sq mi.

Water temperature records available.--Once-daily readings from February 1950 to September 1950, April 1953 to January 1959, March 1961 to September, 1966. Temperature readings at irregular intervals for the period 1948-56 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1950	Mean	-	-	-	-	61	59	63	75	80	84	83	82
	Max.-Min.	-	-	-	-	69 57	63 51	67 60	78 69	85 76	86 81	85 82	84 81
1953	Mean	-	-	-	-	-	-	-	73	86	91	88	82
	Max.-Min.	-	-	-	-	-	-	-	80 68	95 80	98 80	95 80	90 75
1954	Mean	75	62	52	50	55	63	74	74	88	89	86	82
	Max.-Min.	80 65	65 55	60 40	55 40	60 45	75 52	80 68	85 68	93 80	93 76	91 80	88 78
1955	Mean	74	57	55	53	51	-	68	80	83	87	86	83
	Max.-Min.	85 64	62 54	62 50	62 47	55 48	-	78 60	82 78	88 80	92 85	91 82	86 78
1956	Mean	75	61	56	53	55	64	71	80	86	90	-	84
	Max.-Min.	86 65	70 46	67 44	60 38	65 40	70 58	78 65	87 74	90 80	95 88	-	88 82
1957	Mean	77	62	60	57	60	63	67	-	84	88	85	81
	Max.-Min.	84 77 68	70 48	69 54	62 48	66 52	68 60	72 62	-	85 80	90 85	88 78	85 73
1958	Mean	70	60	54	50	51	58	68	76	86	85	90	80
	Max.-Min.	76 63	68 52	57 52	55 48	55 42	64 52	75 60	85 70	89 84	90 81	92 84	88 72
1959	Mean	73	65	54	-	-	-	-	-	-	-	-	-
	Max.-Min.	77 63	73 55	60 46	-	-	-	-	-	-	-	-	-
1961	Mean	-	-	-	-	-	64	68	79	82	84	86	81
	Max.-Min.	-	-	-	-	-	68 60	75 62	85 75	86 75	88 80	89 82	87 72
1962	Mean	73	63	55	-	61	61	70	79	84	88	87	83
	Max.-Min.	82 70	70 58	64 49	-	67 52	70 51	75 63	86 70	87 75	91 81	91 82	89 77
1963	Mean	76	62	54	49	53	67	74	79	85	89	89	84
	Max.-Min.	80 66	67 53	61 50	59 41	60 47	75 58	81 62	85 75	89 82	92 84	92 86	91 76
1964	Mean	77	65	50	51	52	62	72	81	87	89	89	84
	Max.-Min.	83 71	73 53	60 40	57 40	57 46	68 54	79 68	89 75	91 82	93 81	92 85	91 75
1965	Mean	71	65	53	56	53	56	65	76	-	86	85	84
	Max.-Min.	78 67	79 54	59 42	63 50	58 45	63 46	80 62	79 71	-	91 85	90 83	90 74
1966	Mean	72	68	56	50	53	62	70	76	82	87	85	83
	Max.-Min.	88 66	72 62	64 50	64 41	59 43	70 52	75 66	80 70	85 79	90 81	90 81	89 78
1950-66	Mean	74	63	54	52	55	62	69	77	84	88	87	83
	Max.-Min.	88 63	79 46	69 40	64 38	69 40	75 46	81 60	89 68	95 75	98 76	95 78	91 72
	Mean												
	Max.-Min.												
	Mean												
	Max.-Min.												
	Mean												
	Max.-Min.												
	Mean												
	Max.-Min.												

TRINITY RIVER BASIN

8-0670. Trinity River at Liberty, Tex.

Location.--Lat 30°03'27", long 94°49'05", at bridge on U. S. Highway 90 in Liberty, Liberty County, and 450 ft downstream from Texas and New Orleans Railroad Co. bridge.

Drainage area.--17,468 sq mi.

Remarks.--Downstream from Liberty, intermittent daily temperatures are on file in the district office at Austin for Old River near Cove, Trinity River at Anahuac, and at four sites near mouth of Trinity River near Anahuac.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 25, 1949	57	9,570	May 22, 1950	77	25,300	Apr. 30, 1964	72	16,000
Feb. 8	41	15,600	July 19	84	5,230	Dec. 21	52	9,260
Mar. 7	58	19,000	June 26, 1951	84	13,900	Feb. 19, 1965	59	26,400
Mar. 11	61	23,900	Dec. 31, 1952	52	8,120	Mar. 10	57	11,700
Apr. 6	68	14,900	May 13, 1956	79	14,500	Apr. 12	70	6,420
Apr. 19	65	8,230	Aug. 5, 1957	89	7,060	May 13	80	10,200
May 18	79	4,060	Dec. 28, 1960	49	20,800	May 28	83	37,100
June 21	86	5,720	Mar. 8, 1961	65	7,950	June 16	82	7,180
Oct. 29	66	25,100	Sept. 26	81	2,430	Feb. 18, 1966	53	19,300
Nov. 14	62	4,560	Dec. 5	60	4,950	June 7	80	15,300
Jan. 23, 1950	69	17,900	Aug. 9, 1962	88	11,200	July 8	86	8,600
Jan. 31	63	6,050	Dec. 12	52	8,920	Aug. 19	87	4,680
Feb. 22	60	41,400						



SAN JACINTO RIVER BASIN

8-0680. West Fork San Jacinto River near Conroe, Tex.

Location.--Lat 30°14'41", long 95°27'26", at bridge on U. S. Highway 75, 285 ft upstream from Missouri Pacific Railroad Co. bridge, 3½ miles downstream from Lake Creek, and ¼ miles south of Conroe, Montgomery County.

Drainage area.--809 sq mi.

Water-temperature records available.--Once-daily readings October 1961 to September 1966. Temperature readings at irregular intervals for the period 1948-66 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1962	Mean	71	62	58	52	58	66	75	80	78	82	82	78
	Max.-Min.	82 61	74 54	68 50	67 46	76 52	72 54	85 65	85 74	85 72	91 77	90 78	84 69
1963	Mean	73	-	57	51	56	69	75	81	81	82	81	78
	Max.-Min.	84 61	- -	68 41	62 36	63 48	76 59	83 65	89 71	91 70	90 79	90 77	95 68
1964	Mean	75	64	51	54	54	65	74	80	83	86	89	84
	Max.-Min.	87 65	72 49	65 32	65 41	60 45	71 57	83 63	90 74	92 70	96 77	97 81	93 73
1965	Mean	74	66	57	50	58	63	77	79	84	88	88	-
	Max.-Min.	82 65	77 55	69 49	70 51	67 43	71 55	81 67	84 70	91 75	94 79	94 80	- -
1966	Mean	73	71	56	51	54	64	72	77	83	87	85	81
	Max.-Min.	86 60	78 65	67 46	65 40	62 46	75 56	78 66	82 68	92 78	92 82	93 76	88 75
1962-66	Mean	73	66	56	54	58	65	75	79	82	85	85	80
	Max.-Min.	87 60	78 49	69 32	70 36	76 43	76 54	85 63	90 68	92 70	96 77	97 76	95 68

SAN JACINTO RIVER BASIN

8-0685. Spring Creek near Spring, Tex.

Location--Lat 30°06'37", long 95°26'10", at bridge on Interstate Highway 45 and U. S. Highway 75, 4,500 ft upstream from Missouri Pacific Railroad Co. bridge, 2.4 miles northwest of Spring, Harris County, and 4 miles downstream from Willow Creek.

Drainage area--409 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 10, 1948	58	14.0	Oct. 7, 1953	69	7.87	July 5, 1960	84	79.8
Dec. 13	60	19.0	Nov. 12	57	25.6	Aug. 22	82	194
Jan. 19, 1949	48	46.6	Jan. 26, 1954	59	59.4	Sept. 20	78	30.4
Feb. 16	63	45.6	Feb. 10	59	35.0	Nov. 1	64	2,290
Feb. 26	68	2,540	Mar. 9	63	28.3	Dec. 13	49	1,280
Mar. 1	59	826	Apr. 15	77	27.3	Feb. 1, 1961	56	109
Mar. 10	63	794	May 13	74	18.7	Apr. 24	75	49.9
Apr. 8	66	165	June 10	83	9.76	May 29	76	29.5
May 12	76	54.1	Aug. 5	85	17.4	July 5	85	59.4
June 6	80	31.4	Sept. 15	82	5.73	Aug. 7	83	33.6
July 18	85	37.4	Oct. 14	89	5.24	Sept. 21	75	110
Aug. 9	83	35.7	Nov. 11	62	10.6	Oct. 10	74	45.0
Sept. 12	85	30.0	Dec. 10	56	9.56	Nov. 17	59	79.5
Oct. 10	77	1,750	Jan. 12, 1955	55	26.4	Jan. 25, 1962	52	61.6
Oct. 13	74	323	Feb. 8	65	3,350	Feb. 27	53	51.9
Nov. 15	60	35.4	Mar. 10	69	34.6	Apr. 2	62	31.8
Dec. 13	59	619	Apr. 5	75	21.8	May 14	76	24.6
Jan. 12, 1950	64	3,330	May 11	76	14.7	June 18	86	20.5
Feb. 9	66	111	June 7	79	11.0	July 27	89	11.0
Feb. 15	55	3,000	July 13	84	6.60	Oct. 1	81	9.86
Mar. 13	61	89.8	Aug. 16	84	8.79	Nov. 5	58	12.4
May 17	74	507	Sept. 15	80	30.4	Dec. 11	53	25.7
June 4	75	19,000	Oct. 12	77	6.68	Jan. 14, 1963	45	57.0
June 21	82	67.7	Nov. 15	73	6.32	Feb. 18	40	288
July 12	79	63.5	Dec. 22	59	8.34	Mar. 26	65	35.4
Aug. 23	84	28.8	Mar. 2, 1956	68	13.7	Apr. 30	75	19.9
Sept. 14	84	18.6	Apr. 13	66	38.2	July 9	80	18.2
Oct. 23	72	16.4	May 16	77	8.40	Nov. 26	57	6.72
Nov. 13	54	16.2	Aug. 24	79	2.20	Jan. 6, 1964	53	11.8
Dec. 11	52	17.5	Sept. 21	82	2.23	Feb. 7	50	95.0
Jan. 15, 1951	54	24.1	Nov. 2	65	2.06	Mar. 13	65	50.1
Feb. 12	61	24.4	Dec. 10	54	3.65	Apr. 21	74	138
Mar. 19	62	22.7	Jan. 21, 1957	56	7.29	May 28	78	20.9
Apr. 17	71	24.1	Feb. 7	68	7.75	July 7	82	9.32
May 18	81	20.0	Apr. 9	65	24.1	Aug. 11	83	6.63
June 15	80	15.8	May 21	82	26.4	Sept. 11	81	4.83
July 19	84	15.1	Aug. 20	85	5.87	Oct. 16	65	5.01
Aug. 13	88	7.61	Oct. 2	70	24.6	Nov. 19	77	24.1
Sept. 20	76	11.7	Feb. 24, 1958	69	2,430	Dec. 17	53	35.1
Oct. 24	69	17.8	Mar. 11	61	71.5	Mar. 9, 1965	54	46.4
Nov. 28	57	18.0	June 17	83	13.1	May 14	75	29.7
Jan. 16, 1952	66	16.3	July 23	84	6.77	June 18	79	25.2
Feb. 26	56	64.6	July 25	84	6.67	July 23	84	9.36
Apr. 9	71	21.2	Dec. 2	56	10.2	Aug. 26	89	9.51
Apr. 13	63	3,160	Jan. 12, 1959	41	12.2	Sept. 30	76	12.4
June 12	83	51.7	Feb. 12	56	22.1	Nov. 19	76	15.0
July 10	82	19.6	May 26	78	1,030	Dec. 27	52	69.7
Aug. 8	85	15.8	Sept. 21	79	11.8	Feb. 2, 1966	45	125
Sept. 10	76	12.1	Oct. 23	68	19.3	Mar. 8	56	52.7
Oct. 9	56	8.24	Nov. 30	48	20.9	Apr. 11	68	27.5
Nov. 12	52	15.3	Dec. 30	54	85.8	May 17	77	165
Dec. 9	61	38.3	Jan. 26, 1960	54	82.0	June 21	78	45.0
Jan. 14, 1953	59	19.5	Mar. 2	45	180	July 19	86	10.7
Feb. 23	50	93.3	Apr. 4	56	38.5	Aug. 26	73	17.2
Apr. 6	73	16.8	May 9	72	61.5	Sept. 27	76	11.7
Sept. 9	78	25.4	June 13	83	16.7			

SAN JACINTO RIVER BASIN

8-0690. Cypress Creek near Westfield, Tex.

Location.--Lat 30°02'08", long 95°25'44", at bridge on U. S. Highway 75, 0.9 mile upstream from Senger Gully, 1.8 miles northwest of Westfield, Harris County, 2.0 miles upstream from Missouri Pacific Railroad Co. bridge, and 11.0 miles upstream from mouth.

Drainage area.--285 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 13, 1948	59	0.49	Apr. 12, 1952	64	5,140	Jan. 27, 1961	48	38.3
Feb. 16, 1949	61	21.4	Apr. 13	65	2,690	Mar. 14	72	13.4
Feb. 23	62	435	Apr. 15	65	1,620	Apr. 24	77	3.91
Feb. 26	62	1,420	June 12	95	42.2	May 29	85	7.06
Mar. 10	62	61.3	July 2	100	1.97	July 5	83	36.2
Apr. 8	66	354	July 10	95	1.72	Aug. 7	86	23.4
May 12	77	9.52	Aug. 8	94	1.57	Sept. 21	79	120
June 6	82	1.65	Sept. 10	85	15.5	Oct. 10	80	8.71
July 7	82	2.36	Oct. 9	58	4.86	Nov. 17	59	63.0
July 18	80	49.7	Nov. 11	54	66.4	Jan. 23, 1962	50	4.14
Sept. 12	81	61.4	Nov. 25	63	37.0	Feb. 27	54	8.43
Oct. 13	77	796	Dec. 9	64	43.1	Apr. 2	70	1.11
Nov. 15	59	2.47	Jan. 14, 1953	60	2.50	May 14	79	.76
Dec. 13	60	849	Feb. 23	48	24.3	June 18	95	5.71
Dec. 15	51	592	June 2	80	9.07	July 30	94	2.27
Dec. 20	59	919	Nov. 12	55	19.8	Oct. 2	78	6.09
Jan. 13, 1950	66	302	Dec. 19	51	68.2	Nov. 5	69	1.03
Feb. 10	60	908	Jan. 13, 1954	44	200	Dec. 11	54	7.40
Feb. 15	56	1,660	Feb. 10	59	2.76	Jan. 14, 1963	43	7.03
Feb. 17	54	1,190	Mar. 9	63	.52	Feb. 19	43	1,040
Feb. 20	59	552	July 30	75	10,100	Mar. 26	68	1.83
Mar. 13	59	15.5	Aug. 4	88	46.8	Apr. 30	80	1.34
May 18	75	117	Sept. 15	83	1.42	July 9	84	14.8
June 3	82	966	Nov. 11	72	.60	Nov. 26	58	9.17
June 22	83	22.0	Jan. 12, 1955	57	10.0	Jan. 6, 1964	59	1.18
June 29	84	5.66	Feb. 8	61	967	Feb. 7	50	72.8
July 12	81	10.7	Mar. 10	76	1.52	Mar. 13	65	14.4
Aug. 22	79	.86	Aug. 15	89	68.4	Apr. 20	76	26.4
Sept. 15	81	9.95	Sept. 16	76	78.4	May 28	66	4.41
Oct. 23	68	3.65	Oct. 12	83	3.99	May 31	74	4,950
Nov. 13	51	.22	Nov. 15	74	.03	May 31	69	4,500
Jan. 14, 1951	53	1.23	Dec. 22	60	.08	May 31	72	1,560
Jan. 15	54	.55	Mar. 2, 1956	74	.08	Aug. 12	85	11.0
Feb. 9	56	1.09	Apr. 13	67	7.14	Sept. 11	82	8.86
Feb. 15	44	1.86	May 16	74	.03	Oct. 20	67	1.84
Mar. 19	54	.67	Nov. 26, 1957	50	1,210	Nov. 20	57	37.7
Mar. 31	62	221	June 17, 1958	85	--	Dec. 21	58	4.47
Apr. 17	71	4.20	Feb. 12, 1959	57	19.4	Jan. 29, 1965	61	8.86
May 18	85	10.8	May 26	78	652	Mar. 9	62	8.26
June 8	81	65.7	Sept. 21	82	4.45	May 14	81	1.29
June 15	85	29.4	Oct. 23	71	6.27	June 18	80	2.75
July 18	85	17.0	Dec. 30	52	44.5	July 23	88	10.2
July 19	89	3.26	Jan. 26, 1960	54	35.1	Aug. 26	89	6.93
Aug. 13	85	1.31	Mar. 2	48	126	Oct. 1	74	44.5
Sept. 14	76	219	Apr. 4	54	2.05	Dec. 28	50	72.0
Sept. 20	85	33.9	May 9	76	13.5	Feb. 3, 1966	49	72.7
Oct. 24	72	5.06	June 13	80	4.59	Mar. 10	60	7.96
Nov. 28	52	1.62	July 5	90	158	Apr. 11	76	1.98
Dec. 5	70	104	Aug. 22	85	186	May 18	81	188
Jan. 16, 1952	66	1.22	Sept. 20	82	20.9	June 14	88	85.7
Feb. 1	62	952	Nov. 1	63	1,980	July 19	89	13.1
Feb. 26	51	75.3	Dec. 12	52	1,070	Aug. 31	80	19.8
Apr. 9	70	2.55						

SAN JACINTO RIVER BASIN

E-0700. East Fork San Jacinto River near Cleveland, Tex.

Location.--Lat 30°20'11", long 95°06'14" at bridge on State Highway 105, 1,880 ft downstream from Gulf, Colorado and Santa Fe Railway Co. bridge, 1 1/2 miles west of Cleveland, Liberty County, and 4.3 miles downstream from Winter Creek.

Drainage area.--325 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 9, 1948	59	17.3	June 4, 1953	87	38.3	July 7, 1960	81	45.6
Dec. 14	65	22.8	Sept. 10	78	15.5	Aug. 23	80	301
Jan. 16, 1949	51	82.8	Oct. 8	68	10.7	Sept. 21	81	19.1
Feb. 14	64	85.9	Nov. 10	53	18.7	Nov. 3	65	205
Feb. 26	67	2,100	Dec. 10	52	34.8	Dec. 15	50	774
Feb. 28	57	5,320	Feb. 15, 1954	65	33.8	Feb. 1, 1961	58	134
Mar. 10	63	224	Apr. 14	77	42.2	Apr. 26	73	51.4
Mar. 27	65	446	May 13	68	60.3	May 22	81	24.3
Apr. 7	64	288	June 10	87	12.2	July 6	82	110
May 10	79	84.5	Aug. 5	88	34.5	Aug. 8	84	41.7
July 11	88	24.6	Sept. 16	81	6.83	Sept. 20	79	101
Aug. 12	85	30.3	Oct. 15	70	7.34	Oct. 11	77	51.1
Sept. 15	81	20.1	Nov. 10	62	13.8	Nov. 15	65	124
Oct. 6	72	1,310	Dec. 15	52	44.1	Feb. 28, 1962	55	102
Oct. 9	80	8,870	Jan. 12, 1955	55	37.5	Apr. 3	64	41.4
Oct. 10	77	3,450	Mar. 9	64	43.0	May 10	78	38.1
Oct. 12	75	990	Apr. 6	75	38.0	June 20	82	24.6
Nov. 15	60	53.0	May 9	81	21.8	July 25	92	14.2
Dec. 15	50	1,570	June 8	85	15.8	Oct. 3	75	16.8
Jan. 11, 1950	60	1,720	July 14	81	14.9	Nov. 8	55	21.4
Mar. 14	59	130	Aug. 17	88	10.0	Dec. 10	51	30.4
Apr. 18	61	1,030	Sept. 14	82	13.9	Jan. 15, 1963	43	83.6
May 19	76	155	Oct. 10	75	15.0	Feb. 20	40	1,810
June 20	80	63.6	Nov. 16	70	11.4	Mar. 28	66	42.9
July 11	78	40.4	Dec. 20	58	14.0	May 1	78	21.9
Aug. 16	88	22.8	Feb. 28, 1956	66	27.7	Aug. 26	76	9.71
Sept. 13	85	17.4	Feb. 29	58	26.7	Sept. 30	79	11.1
Oct. 25	69	21.4	Apr. 11	65	66.6	Dec. 9	51	24.6
Nov. 15	64	24.4	May 17	77	19.5	Feb. 17, 1964	50	67.6
Dec. 12	51	26.1	July 19	90	4.26	Mar. 5	59	2,480
Jan. 16, 1951	54	38.6	Aug. 8	90	6.23	Mar. 23	58	142
Feb. 13	62	33.3	Aug. 21	87	3.27	May 12	74	58.0
Mar. 21	57	39.7	Sept. 26	79	2.85	June 4	78	63.6
Apr. 19	66	35.4	Oct. 30	72	6.81	Aug. 13	89	10.4
May 17	80	23.0	Jan. 15, 1957	55	9.58	Sept. 14	79	10.4
June 13	84	24.8	Apr. 10	65	38.5	Oct. 22	66	9.09
July 16	86	18.7	July 17	88	7.65	Oct. 22	64	9.03
Aug. 15	84	7.85	July 24	80	181	Dec. 1	53	19.9
Sept. 19	80	11.4	Aug. 20	86	13.4	Dec. 31	65	24.7
Oct. 23	73	13.4	Nov. 27	51	1,810	Feb. 5, 1965	51	24.4
Nov. 29	55	19.9	Oct. 7, 1958	68	62.9	Apr. 12	71	44.8
Jan. 13, 1952	65	21.4	Jan. 7, 1959	42	31.6	May 21	76	52.6
Feb. 27	57	201	Feb. 11	57	79.2	June 17	65	21.2
Feb. 29	38	97.5	May 27	78	229	Sept. 2	86	11.3
Apr. 10	64	28.5	July 10	83	26.8	Oct. 7	79	12.4
Apr. 15	64	782	Aug. 11	86	28.0	Dec. 29	52	47.8
Aug. 7	84	11.3	Oct. 22	68	31.5	Feb. 2, 1966	44	127
Sept. 9	74	7.75	Dec. 1	50	28.8	Feb. 4	42	98.8
Oct. 10	62	9.05	Dec. 28	58	161	Feb. 14	50	1,680
Nov. 13	53	16.6	Jan. 27, 1960	54	183	Apr. 26	68	4,210
Dec. 11	51	31.8	Mar. 3	50	206	May 19	76	74.3
Jan. 15, 1953	59	32.2	Apr. 5	70	44.8	June 22	76	39.6
Feb. 25	47	1,120	May 10	74	47.2	July 25	87	15.8
Apr. 8	71	33.9	June 15	80	21.2	Aug. 31	84	19.5
Apr. 14	71	28.3						

## SAN JACINTO RIVER BASIN

8-0795. Caney Creek near Splendora, Tex.

Location.--Lat 30°15'34", long 95°18'02", at bridge on Farm Road 2090, 4 miles downstream from Gulf, Colorado and Santa Fe Railway Co. bridge, and 8 miles west of Splendora, Montgomery County.

Drainage area.--105 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 10, 1948	54	13.7	Dec. 14, 1953	50	59.8	Nov. 2, 1960	63	91.5
Dec. 13	69	15.6	Jan. 13, 1954	46	33.0	Dec. 19	58	82.6
Jan. 17, 1949	42	46.8	Feb. 11	62	17.9	Feb. 2, 1961	66	60.7
Feb. 15	64	32.4	Apr. 13	76	20.3	Mar. 1	70	89.2
Feb. 28	60	148	May 11	76	15.2	Mar. 16	76	51.6
Mar. 9	71	104	June 17	84	9.54	Apr. 26	71	38.6
Mar. 22	68	2,410	Aug. 6	85	16.7	May 22	80	22.0
Mar. 22	68	1,800	Sept. 16	81	8.32	July 7	76	30.4
Mar. 23	63	221	Oct. 15	70	6.65	Aug. 9	78	37.4
Apr. 7	69	62.2	Nov. 11	56	12.1	Sept. 19	72	69.4
Apr. 20	61	336	Dec. 15	52	19.1	Oct. 11	77	39.4
May 11	74	31.9	Jan. 13, 1955	55	17.4	Nov. 15	65	61.0
June 7	78	17.9	Feb. 10	56	67.9	Jan. 23, 1962	51	52.7
July 15	82	209	Mar. 9	65	21.7	Feb. 28	54	54.8
Aug. 12	82	18.3	Apr. 6	74	16.8	Apr. 3	65	28.4
Sept. 13	82	16.3	May 10	77	11.5	May 15	75	25.0
Dec. 14	94	162	June 8	87	17.6	June 20	82	91.3
Jan. 18, 1950	62	701	July 14	79	58.7	July 25	90	14.4
Feb. 7	68	56.9	Aug. 17	85	8.94	Oct. 1	80	14.9
Mar. 14	56	45.8	Sept. 15	78	14.8	Dec. 12	46	19.5
Mar. 17	62	47.9	Oct. 11	73	10.8	Jan. 16, 1963	44	35.8
Apr. 18	58	1,100	Nov. 17	62	7.82	Feb. 20	42	195
May 16	74	192	Dec. 22	55	11.3	Mar. 26	68	27.3
June 21	78	37.3	Feb. 29, 1956	63	16.9	Apr. 30	80	18.5
July 11	78	64.2	Apr. 12	66	23.5	July 22	81	12.6
Aug. 18	83	17.3	May 17	80	12.0	Sept. 30	68	10.7
Sept. 14	79	17.1	June 19	80	20.8	Nov. 7	68	71.2
Oct. 24	72	18.0	July 18	89	7.88	Dec. 9	44	18.4
Nov. 15	62	18.1	Aug. 22	83	6.26	Jan. 20, 1964	42	59.2
Dec. 12	50	18.0	Sept. 28	75	5.60	Feb. 17	50	36.7
Jan. 16, 1951	50	21.9	Oct. 31	64	7.03	Feb. 25	46	508
Feb. 13	61	21.4	Jan. 16, 1957	50	10.2	Mar. 23	59	48.8
Mar. 20	57	27.5	Apr. 10	62	16.4	May 12	72	25.8
Apr. 18	64	20.0	June 7	74	46.4	June 1	71	159
May 18	71	15.5	July 17	88	9.47	July 12	82	11.0
June 14	82	20.1	Aug. 12	85	12.1	Aug. 14	82	7.78
July 18	86	11.0	Sept. 19	83	7.54	Sept. 14	73	10.1
Aug. 14	83	9.78	Nov. 29	56	70.6	Oct. 22	62	9.60
Sept. 20	70	10.7	Mar. 8, 1958	72	46.6	Dec. 2	64	13.7
Oct. 23	75	13.1	Oct. 28	62	29.4	Feb. 8, 1965	64	18.3
Nov. 29	52	15.4	Nov. 26	65	18.9	Feb. 17	51	1,000
Jan. 15, 1952	67	15.8	Jan. 9, 1959	44	19.6	Apr. 20	73	34.7
June 11	82	21.2	Feb. 11	57	33.0	May 25	83	16.9
July 9	82	14.1	July 10	87	16.0	June 16	65	14.8
Aug. 12	82	10.5	Sept. 23	78	18.3	Aug. 4	84	9.17
Sept. 9	76	10.5	Oct. 21	68	25.3	Sept. 3	78	8.77
Oct. 10	50	9.53	Nov. 30	51	21.3	Oct. 7	76	10.5
Nov. 12	58	13.2	Dec. 29	56	63.2	Dec. 30	52	19.2
Dec. 11	54	17.0	Jan. 28, 1960	56	144	Feb. 1, 1966	52	37.9
Jan. 15, 1953	63	16.6	Feb. 26	48	198	Feb. 11	57	1,130
Apr. 7	73	17.3	Mar. 10	62	51.9	Mar. 9	59	29.5
June 3	85	23.0	Apr. 6	66	26.2	Apr. 7	65	18.8
June 17	85	17.1	May 11	70	23.1	May 16	77	36.8
Sept. 10	78	11.8	June 15	82	14.9	June 20	73	20.8
Oct. 8	68	9.24	Aug. 24	82	182	July 21	87	11.2
Nov. 10	53	11.9	Sept. 21	80	20.7	Aug. 24	79	12.9

SAN JACINTO RIVER BASIN

8-0710. Peach Creek at Splendora, Tex.

Location.--Lat 30°13'57", long 95°10'05", at bridge on Farm Road 2090, about 1,500 ft west of depot at Splendora, Montgomery County, 2.5 miles upstream from Texas and New Orleans Railroad Co. bridge, 2.5 miles upstream from bridge on U. S. Highway 59, and 9.7 miles upstream from Caney Creek.

Drainage area.--117 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 10, 1948	53	13.0	Jan. 15, 1953	61	20.7	Sept. 21, 1960	77	14.6
Dec. 14	63	17.3	Feb. 24	48	202	Oct. 19	70	906
Jan. 17, 1949	43	30.2	Apr. 7	70	18.6	Nov. 2	64	118
Feb. 15	62	39.8	Sept. 10	79	13.3	Dec. 16	49	230
Feb. 28	58	408	Oct. 8	69	8.13	Feb. 2, 1961	60	70.7
Mar. 9	65	73.1	Nov. 10	54	14.0	Mar. 2	66	113
Apr. 7	61	112	Dec. 14	51	41.7	Mar. 22	68	72.5
May 11	70	149	Feb. 11, 1954	59	20.7	Apr. 26	70	39.0
June 7	77	17.6	Apr. 13	73	25.1	May 22	78	22.4
July 15	83	126	May 12	70	15.1	July 7	75	40.5
Aug. 11	78	44.9	June 17	81	6.52	Aug. 9	77	29.8
Sept. 13	81	14.0	Aug. 6	85	22.0	Sept. 19	69	67.0
Oct. 6	72	243	Sept. 16	77	4.04	Oct. 12	73	38.7
Oct. 9	77	6,410	Oct. 15	69	6.07	Nov. 15	65	134
Oct. 10	75	813	Nov. 11	52	13.4	Apr. 3, 1962	61	28.9
Nov. 14	59	44.0	Dec. 15	51	23.6	May 15	74	20.9
Dec. 14	55	255	Jan. 13, 1955	55	21.1	June 20	78	17.7
Jan. 12, 1950	61	2,900	Feb. 10	56	102	July 25	86	13.0
Feb. 7	66	75.1	Mar. 9	64	24.9	Aug. 30	86	13.9
Mar. 14	59	67.8	Apr. 6	71	17.0	Oct. 1	74	13.4
Apr. 18	59	237	May 10	73	9.45	Nov. 6	56	13.2
May 16	73	614	June 8	86	11.4	Dec. 12	46	18.8
June 20	77	37.4	July 14	79	9.30	Jan. 16, 1963	41	32.8
July 10	79	28.4	Aug. 17	84	8.90	Feb. 20	40	324
Aug. 18	81	17.8	Sept. 15	75	13.4	Mar. 26	66	27.5
Sept. 13	78	16.0	Oct. 11	69	12.2	Apr. 30	78	16.4
Oct. 24	69	18.5	Nov. 16	65	7.78	Sept. 30	70	9.09
Nov. 15	62	19.3	Nov. 17	61	7.72	Dec. 9	48	16.0
Dec. 12	51	20.8	Dec. 21	54	11.1	Jan. 20, 1964	48	46.0
Jan. 16, 1951	50	38.9	Feb. 29, 1956	63	16.8	Feb. 17	48	42.5
Feb. 13	59	26.7	Apr. 12	61	30.6	Mar. 23	57	53.9
Mar. 19	57	24.9	May 17	76	9.41	May 12	73	25.0
Apr. 18	63	22.8	June 19	85	25.3	June 4	72	30.0
May 18	70	17.1	Aug. 21	87	1.30	July 12	83	7.68
June 14	77	26.4	Sept. 27	78	1.14	Aug. 14	81	6.93
July 18	83	12.3	Oct. 31	64	3.42	Sept. 14	73	6.47
Aug. 14	83	8.65	Nov. 2	65	3.38	Oct. 22	59	7.13
Sept. 18	73	12.3	Jan. 16, 1957	52	8.49	Dec. 2	57	11.8
Oct. 23	71	11.0	Apr. 10	62	19.6	Dec. 31	62	14.4
Nov. 29	53	20.8	July 17	83	3.91	Feb. 8, 1965	58	16.0
Jan. 15, 1952	63	17.5	Aug. 12	83	18.2	Apr. 20	74	15.2
Feb. 29	61	32.4	Nov. 29	55	92.9	May 25	77	13.4
Apr. 10	64	19.3	Jan. 28, 1960	56	75.8	June 16	58	8.83
Apr. 14	63	254	Feb. 25	48	758	Aug. 4	78	4.31
June 11	80	20.8	Feb. 26	48	352	Sept. 2	80	8.55
July 9	78	25.3	Mar. 10	57	58.3	Oct. 7	79	9.92
Aug. 11	85	10.0	Apr. 6	66	26.5	Feb. 2, 1966	45	40.2
Sept. 9	76	7.79	May 11	70	22.6	May 19	76	42.6
Oct. 10	60	8.13	June 16	80	11.6	June 22	76	27.9
Nov. 13	56	17.0	July 11	80	23.0	July 27	78	9.46
Dec. 11	51	22.4	Aug. 24	82	145	Aug. 31	77	12.1

SAN JACINTO RIVER BASIN

8-0715. San Jacinto River near Huffman, Tex.

Location.--Lat 29°59'41", long 95°07'42", at Beaumont, Sour Lake and Western Railway bridge, 0.4 mile downstream from confluence of East and West Forks, 3.4 miles southwest of Huffman, Harris County.

Drainage area.--2,800 sq mi.

Water temperature records available--Once-daily readings from January 1949 to April 1954.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1949	Mean	-	-	-	56	61	66	68	80	85	85	83	81
	Max.-Min.	- -	- -	- -	69 37	72 40	72 58	78 59	85 75	88 81	88 78	87 80	87 68
1950	Mean	72	65	61	62	61	63	68	78	82	84	84	80
	Max.-Min.	80 55	72 60	70 50	71 48	68 53	73 54	77 56	81 70	86 74	86 82	86 82	85 75
1951	Mean	73	61	55	53	54	63	68	76	82	85	86	80
	Max.-Min.	80 57	72 52	67 42	66 42	70 32	73 43	78 58	82 72	85 78	88 80	88 83	86 72
1952	Mean	72	61	58	62	58	61	67	74	84	86	85	81
	Max.-Min.	81 64	74 48	74 42	72 48	70 46	71 52	73 62	78 66	89 76	92 82	88 82	85 70
1953	Mean	61	59	56	56	57	67	69	76	86	86	85	81
	Max.-Min.	74 50	62 50	68 46	65 40	67 48	74 53	75 58	85 65	90 80	89 83	90 78	88 75
1954	Mean	75	61	54	59	62	64	-	-	-	-	-	-
	Max.-Min.	86 61	70 52	68 44	68 48	70 52	74 43	- -	- -	- -	- -	- -	- -
1949-54	Mean	71	61	57	58	59	64	68	77	84	85	85	80
	Max.-Min.	86 50	74 48	74 42	72 37	72 32	74 43	78 56	85 65	90 74	92 78	90 78	88 68

## SAN JACINTO RIVER BASIN

8-0735. Buffalo Bayou near Addicks, Tex.

Location--Lat 29°45'42", long 95°36'20", at bridge on Dairy-Ashford Road over rectified channel, 1.8 miles downstream from South Mayde Creek, 2.6 miles southeast of Addicks, Harris County, 3.0 miles downstream from outlet works of Addicks Reservoir, and 3.2 miles downstream from outlet works of Barker Reservoir.

Drainage area.--293 sq mi. During extreme floods when capacity of drainage ditches is exceeded, the drainage area is defined by natural ridge lines and is 310 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 7, 1949	59	0.37	May 7, 1952	93	3.40	Jan. 2, 1958	55	14.2
Jan. 24	65	299	May 20	72	264	Feb. 6	66	44.6
Jan. 25	59	142	May 29	75	455	Apr. 1	71	2.60
Jan. 26	53	78.8	June 14	94	11.7	May 7	82	30.2
Jan. 28	52	65.0	July 15	86	9.17	June 6	82	28.9
Feb. 2	49	23.5	Aug. 19	85	8.96	July 8	86	15.7
Feb. 19	53	4.42	Sept. 10	80	56.4	Aug. 7	94	12.2
Feb. 21	54	162	Sept. 12	81	76.2	Sept. 5	79	41.1
Feb. 27	62	1,480	Sept. 25	71	46.8	Nov. 5	64	24.6
Feb. 28	58	1,016	Oct. 23	37	8.77	Jan. 2, 1959	50	25.1
Mar. 3	56	397	Nov. 14	61	77.5	Mar. 9	59	29.7
Apr. 1	65	296	Dec. 6	56	763	Apr. 2	60	22.2
Apr. 14	81	6.28	Dec. 17	51	9.04	Apr. 8	68	244
Apr. 23	80	3,600	Jan. 14, 1953	68	4.12	June 4	76	17.7
Apr. 25	78	1,990	Feb. 1	59	785	July 7	80	44.4
Apr. 26	69	1,560	Feb. 20	62	7.41	Aug. 5	83	18.2
May 2	80	250	Mar. 29	80	1.02	Sept. 8	82	70.9
May 25	82	1.92	Apr. 16	80	.95	Dec. 7	55	4.33
June 1	83	3.90	June 18	95	7.55	Mar. 4, 1960	44	53.4
July 5	98	.85	July 20	85	92.0	May 6	77	79.7
July 15	80	207	Sept. 15	87	45.9	June 8	80	17.4
July 16	77	1,420	Oct. 14	76	4.55	Aug. 2	84	182
July 18	84	492	Nov. 19	66	1,020	Sept. 7	83	267
July 25	86	23.4	Dec. 28	55	558	Oct. 4	76	10.2
Aug. 5	84	20.5	Jan. 25, 1954	60	34.8	Nov. 8	62	75.9
Sept. 7	88	34.6	Feb. 2	62	15.2	Dec. 6	65	103
Oct. 4	71	989	Mar. 3	50	1.56	Jan. 9, 1961	50	459
Oct. 15	73	531	Apr. 1	58	2.41	Mar. 3	64	77.7
Nov. 9	76	640	Apr. 10	75	696	Apr. 5	63	5.14
Dec. 5	61	134	Apr. 12	78	353	May 3	84	9.37
Dec. 12	66	1,660	June 2	85	4.18	June 7	88	13.4
Dec. 16	49	1,080	July 1	90	1.23	July 5	81	399
Jan. 3, 1950	67	319	July 30	75	3,990	Aug. 2	83	51.4
Feb. 1	59	17.4	Sept. 1	90	66.5	Sept. 5	81	91.0
Mar. 1	70	99.3	Oct. 1	85	22.9	Nov. 14	64	3,040
Apr. 3	75	3.64	Nov. 3	58	13.4	Dec. 7	64	15.9
Apr. 17	66	125	Jan. 4, 1955	65	51.5	Jan. 2, 1962	55	11.2
Apr. 24	67	664	Feb. 2	66	3.60	Feb. 6	56	6.87
May 2	89	12.1	Mar. 3	69	4.21	Mar. 7	50	5.26
June 7	78	2,590	Apr. 1	74	2.09	Apr. 4	59	2.82
June 13	84	680	May 2	87	.18	May 17	90	6.54
July 3	88	50.9	May 3	85	.70	June 21	85	28.2
Aug. 3	98	10.0	July 1	83	8.12	July 20	92	45.6
Sept. 6	78	32.5	Aug. 3	85	51.4	Oct. 23	75	114
Oct. 3	84	32.0	Sept. 2	84	143	Feb. 6, 1963	51	13.5
Nov. 2	75	.37	Oct. 3	85	22.4	Dec. 2	61	16.6
Dec. 4	50	.45	Nov. 2	80	.19	Jan. 5, 1964	60	5.46
Jan. 3, 1951	62	8.80	Dec. 6	58	7.49	Feb. 7	50	566
Feb. 2	34	5.52	Feb. 7, 1956	61	15.0	May 26	81	156
Mar. 1	78	.78	Mar. 7	64	1.18	May 26	81	179
Apr. 4	75	18.2	Apr. 10	64	903	June 18	82	371
May 2	82	.70	May 3	80	110	Aug. 5	92	50.4
June 1	95	1.14	June 6	94	1.89	Oct. 15	72	21.1
July 2	88	.71	July 5	97	2.53	Nov. 16	75	30.3
Aug. 2	84	6.92	Aug. 7	96	8.95	Jan. 29, 1965	54	31.1
Sept. 4	94	9.52	Sept. 6	88	46.8	Apr. 2	70	4.56
Sept. 14	74	222	Sept. 7	87	34.1	May 5	78	8.02
Oct. 3	82	34.8	Sept. 11	78	15.5	June 9	80	29.5
Nov. 2	54	6.42	Nov. 7	68	13.9	July 15	83	82.2
Dec. 5	67	84.0	Jan. 7, 1957	58	1.64	Sept. 20	87	18.1
Feb. 2, 1952	60	395	Feb. 6	71	1.67	Dec. 29	55	46.0
Mar. 5	61	5.07	Mar. 5	59	78.0	Jan. 27, 1966	44	436
Apr. 1	62	112	Apr. 4	74	163	Mar. 7	50	18.3
Apr. 13	65	2,640	June 3	62	144	Apr. 6	63	10.3
Apr. 14	60	2,240	Aug. 6	85	4.64	May 19	74	835
Apr. 16	67	1,050	Sept. 4	81	175	June 15	83	68.1
Apr. 24	69	1,890	Oct. 10	74	83.9	July 22	92	110
Apr. 30	77	112	Nov. 7	72	17.6	Aug. 25	78	172



SAN JACINTO RIVER BASIN

8-0740. Buffalo Bayou at Houston, Tex.

Location.--Lat 29°45'36", long 95°24'30", at bridge on Shepherd Drive in Houston, Harris County, and 0.8 mile upstream from Waugh Drive.

Drainage area.--358 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 8, 1948	46	9.84	May 1, 1952	75	107	Jan. 8, 1957	65	8.41
Jan. 13, 1949	58	5.25	June 2	76	77.1	Feb. 6	70	8.94
Feb. 3	48	38.4	Sept. 2	80	23.5	Mar. 7	52	63.4
Feb. 21	63	106	Oct. 1	74	39.4	June 26	64	40.1
Feb. 28	60	1,730	Nov. 5	64	9.90	July 9	86	16.4
Mar. 1	57	1,100	Dec. 4	60	1,390	Dec. 17	63	34.4
Mar. 3	57	584	Jan. 6, 1953	52	61.7	Jan. 3, 1958	54	29.3
Apr. 5	59	628	Feb. 2	59	690	Feb. 6	63	71.3
Apr. 25	72	2,910	Mar. 4	64	41.3	Mar. 7	65	28.5
May 4	86	114	May 8	74	902	Mar. 31	71	16.8
May 6	78	50.5	June 1	81	50.8	May 8	76	53.0
June 1	86	16.3	July 6	85	24.0	June 9	88	29.5
July 6	88	7.59	Aug. 3	78	45.9	July 7	85	47.7
Aug. 4	76	129	Aug. 20	76	923	Aug. 7	84	14.8
Aug. 8	78	622	Aug. 30	76	2,130	Apr. 2, 1959	71	26.3
Sept. 8	86	42.0	Oct. 5	78	22.8	Apr. 8	71	55.1
Oct. 15	73	866	Nov. 4	68	637	Sept. 13, 1961	76	3,380
Nov. 9	60	18.0	Jan. 11 1954	51	403	Mar. 6, 1962	60	24.9
Dec. 2	64	10.5	Feb. 1	61	36.5	Apr. 6	66	79.2
Dec. 13	61	1,740	Mar. 2	63	10.8	May 1	72	1,680
Dec. 16	48	1,500	Apr. 2	66	11.9	May 17	82	19.4
Jan. 2, 1950	67	1,240	May 4	70	23.5	June 21	84	30.4
Feb. 2	63	25.3	June 3	82	9.89	July 20	82	206
Feb. 10	66	19.1	July 2	83	7.37	Aug. 20, 1963	83	34.7
Mar. 1	67	166	July 31	75	2,360	Nov. 8	66	91.1
Apr. 3	72	14.0	Sept. 1	84	94.3	Dec. 18	49	110
Apr. 17	66	349	Oct. 1	80	33.1	Jan. 2, 1964	48	19.6
May 5	82	17.2	Nov. 4	68	27.0	Feb. 27	51	1,250
June 2	77	306	Dec. 2	62	10.3	Mar. 31	64	25.3
June 6	74	3,160	Dec. 21	52	5.71	June 15	80	102
July 3	81	95.7	Jan. 4, 1955	64	76.5	Aug. 18	84	55.2
Aug. 3	85	17.0	Feb. 1	65	17.1	Sept. 18	75	258
Sept. 5	82	67.7	Mar. 2	71	21.6	Oct. 23	67	19.6
Oct. 4	77	37.7	Apr. 4	73	10.1	Dec. 3	65	19.2
Nov. 2	75	5.27	May 3	77	6.04	Jan. 5, 1965	59	185
Dec. 1	60	5.49	July 1	81	10.7	Feb. 10	63	100
Jan. 2, 1951	59	33.4	Aug. 4	85	68.5	Mar. 8	59	15.6
Feb. 2	37	12.0	Sept. 2	78	24.3	Apr. 20	74	45.9
Mar. 1	69	5.82	Oct. 4	80	36.2	June 22	84	22.4
Apr. 5	64	30.8	Nov. 1	68	5.60	July 28	88	78.4
May 2	67	4.77	Dec. 6	58	20.2	Sept. 2	84	34.6
June 1	82	9.28	Feb. 2, 1956	57	57.2	Sept. 29	81	332
July 2	84	5.32	Mar. 8	65	9.95	Dec. 14	65	155
Aug. 1	84	11.6	Apr. 6	72	8.10	Jan. 17, 1966	54	35.8
Sept. 4	85	11.6	June 7	83	8.05	Feb. 17	54	1,770
Oct. 1	76	77.2	July 4	87	11.9	Feb. 23	54	77.5
Nov. 2	64	12.5	Aug. 8	87	8.38	Mar. 31	64	802
Dec. 4	64	13.4	Sept. 4	79	39.7	May 6	66	1,300
Jan. 3, 1952	63	8.43	Nov. 8	67	19.6	June 7	83	45.1
Feb. 4	55	272	Dec. 5	62	5.86	July 11	84	43.6
Mar. 3	63	31.6	Dec. 12	56	6.05			

SAN JACINTO RIVER BASIN

E-0745. Whiteoak Bayou at Houston, Tex.

Location.--Lat 29°46'30", long 95°23'49", at bridge on Heights Boulevard in Houston, Harris County, 560 ft downstream from Texas and New Orleans Railroad Co. bridge, 2.4 miles upstream from Little Whiteoak Bayou, and 4.0 miles upstream from mouth.

Drainage area.--34.7 sq mi. During extreme floods when capacity of drainage ditches is exceeded, the drainage area is defined by natural ridges and is 32.0 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 17, 1948	68	8.28	Feb. 2, 1953	61	83.7	June 23, 1960	61	5.41
Jan. 13, 1949	58	1.07	Mar. 4	67	8.00	June 25	71	1,160
Jan. 24	55	20.7	Aug. 20	76	303	Aug. 5	81	14.1
Feb. 3	50	8.57	Aug. 30	76	793	Sept. 22	76	6.00
Feb. 21	63	21.6	Sept. 22	82	7.28	Oct. 5	77	25.6
Mar. 1	57	79.1	Oct. 5	78	15.1	Nov. 9	72	127
Mar. 2	64	58.3	Nov. 19	67	202	Dec. 12	50	182
Apr. 5	60	146	Jan. 8, 1954	60	3.91	Jan. 17, 1961	61	49.3
Apr. 22	66	64	Feb. 1	63	7.35	Feb. 23	58	416
Apr. 22	66	725	Mar. 2	65	4.06	Apr. 6	60	488
Apr. 22	66	997	Apr. 6	75	2.76	Apr. 14	71	12.0
Apr. 26	72	106	May 13	75	3.52	May 2	79	9.09
May 3	79	16.3	June 14	67	1.41	June 19	73	3,960
June 1	84	32.3	July 28	88	.82	Aug. 6	80	11.5
July 6	86	1.55	Sept. 10	84	11.8	Oct. 13	73	6.64
July 16	76	4.18	Oct. 14	82	2.07	Nov. 17	57	80.7
Aug. 4	78	72.5	Nov. 23	60	1.84	Dec. 13	52	124
Sept. 8	85	2.15	Dec. 22	57	1.79	Jan. 4, 1962	60	49.8
Oct. 8	75	2,900	Feb. 1, 1955	62	3.04	Feb. 8	66	10.3
Oct. 15	73	242	Mar. 2	74	3.53	Mar. 8	58	10.2
Nov. 8	59	5.00	Mar. 24	66	2.10	Apr. 5	60	167
Dec. 1	64	3.51	Apr. 26	76	1.70	May 17	78	8.00
Dec. 15	49	595	May 27	78	.94	June 19	90	7.04
Jan. 2, 1950	67	1,750	June 24	80	1.73	July 19	92	6.18
Feb. 1	64	10.3	July 22	85	9.90	Sept. 24	78	3.92
Mar. 1	66	27.6	Sept. 28	81	13.5	Oct. 22	72	24.7
Apr. 4	70	5.99	Nov. 1	70	.76	Nov. 8, 1963	69	5.56
Apr. 24	70	78.6	Dec. 6	57	1.17	Dec. 19	48	10.0
May 6	81	4.24	Jan. 13, 1956	53	1.79	Jan. 22, 1964	71	7.18
June 2	75	242	Feb. 2	55	47.0	Feb. 24	52	10.2
July 3	82	366	Mar. 8	67	1.42	Feb. 26	52	100
Aug. 3	87	5.76	Apr. 6	71	2.36	Mar. 30	68	5.97
Sept. 6	79	2.57	May 4	78	7.37	June 5	76	14.0
Oct. 5	75	2.49	June 7	87	1.87	Aug. 18	82	7.16
Nov. 2	73	1.23	July 4	88	2.12	Aug. 24	78	28.2
Dec. 1	59	2.13	Aug. 8	89	4.31	Sept. 11	82	3.63
Jan. 3, 1951	58	13.7	Nov. 8	68	1.60	Sept. 18	76	50.5
Feb. 2	36	6.68	Dec. 12	60	.63	Sept. 25	81	5.81
Mar. 2	70	2.58	Jan. 8, 1957	65	2.72	Oct. 15	69	4.01
Apr. 6	67	4.48	Feb. 8	70	2.69	Nov. 6	67	69.4
Apr. 10	73	4.19	July 9	86	3.49	Nov. 25	54	6.59
May 1	74	2.10	Aug. 8	84	2.62	Nov. 30	53	7.92
May 7	73	9.57	Nov. 14	67	.247	Dec. 3	66	4.24
May 31	84	2.78	Nov. 20	68	49.3	Jan. 15, 1965	62	6.90
June 6	82	15.8	Jan. 6, 1958	54	42.9	Jan. 21	55	5.03
June 22	92	1.10	Mar. 31	68	3.90	Feb. 10	62	41.2
June 28	85	8.83	May 13	87	3.33	Mar. 5	54	10.9
July 2	85	5.96	June 11	78	2.47	Mar. 8	57	6.02
July 20	87	1.00	July 2	87	3.60	Mar. 15	69	6.12
Aug. 1	85	1.57	July 7	85	7.73	Apr. 1	67	5.84
Aug. 30	91	.73	Aug. 11	81	13.8	Apr. 14	76	14.3
Oct. 1	77	6.77	Sept. 8	82	40.6	Apr. 21	78	11.8
Nov. 2	62	2.70	Sept. 9	78	19.4	Apr. 27	74	6.10
Dec. 4	62	10.6	Sept. 10	84	12.0	May 6	80	4.81
Jan. 3, 1952	60	2.33	Oct. 10	77	3.89	May 14	75	6.03
Feb. 4	60	56.0	Oct. 11	76	2.57	June 9	88	8.10
Mar. 3	66	4.36	Dec. 19	48	3.13	June 24	83	3.17
Apr. 10	65	24.9	Jan. 19, 1959	59	2.36	July 14	86	11.7
Apr. 11	62	6.78	Feb. 27	59	34.7	July 30	88	7.21
Apr. 13	70	495	Apr. 3	61	6.48	Aug. 20	85	4.06
Apr. 21	73	11.2	May 26	86	35.8	Sept. 1	93	4.74
May 2	75	5.27	Oct. 14	78	505	Sept. 29	82	9.35
June 2	80	8.48	Nov. 13	67	8.74	Nov. 4	65	1,020
June 30	89	1.76	Jan. 7, 1960	42	70.5	Nov. 4	69	715
Aug. 2	83	.42	Jan. 8	56	46.6	Nov. 4	65	425
Sept. 2	95	1.97	Jan. 11	64	30.0	Dec. 13	67	13.3
Oct. 1	78	2.67	Feb. 5	52	116	Jan. 17, 1966	52	11.5
Nov. 10	58	170	Mar. 18	49	10.5	Feb. 24	59	16.0
Dec. 5	58	418	Apr. 28	73	8.62	Mar. 29	64	305
Jan. 10, 1953	58	4.03	May 19	86	5.21	July 11	90	9.75
Jan. 12	54	3.21	May 31	87	7.70	Aug. 22	84	29.2

## SAN JACINTO RIVER BASIN

8-0750. Brays Bayou at Houston, Tex.

Location.--Lat 29°41'49", long 95°24'43", at South Main Street bridge in southwest section of Houston, Harris County, 1.6 miles upstream from Harris Gully, and 11.6 miles upstream from Buffalo Bayou.

Drainage area.--68.4 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 8, 1948	58	3.68	Dec. 6, 1952	56	50.3	Dec. 18, 1959	55	307
Jan. 12, 1949	63	5.90	Dec. 30	58	845	Dec. 23	55	44.8
Feb. 3	54	21.8	Sept. 22, 1953	78	5.30	Jan. 7, 1960	56	98.5
Feb. 21	68	216	Oct. 7	79	13.0	Jan. 11	64	44.3
Feb. 24	65	203	Nov. 3	72	16.5	Jan. 22	48	31.4
Mar. 4	59	43.1	Dec. 1	69	9.69	Jan. 28	63	24.5
Apr. 6	62	89.8	Jan. 7, 1954	58	13.0	Feb. 5	55	151
May 4	78	10.1	Feb. 1	67	20.2	Feb. 10	60	24.2
June 1	84	4.54	Mar. 2	63	5.44	Feb. 15	57	112
July 6	89	6.85	Apr. 12	76	99.7	Feb. 23	52	180
July 15	78	622	May 11	77	6.02	Feb. 29	54	44.6
July 18	83	165	June 14	83	6.11	Mar. 7	52	17.0
July 20	83	39.6	July 28	85	7.51	Mar. 10	62	16.8
Aug. 4	81	70.1	Oct. 14	85	13.6	Mar. 14	62	22.6
Sept. 8	83	6.55	Nov. 24	62	1.61	Apr. 28	84	22.7
Oct. 4	72	1,920	Dec. 21	57	5.42	May 19	93	18.2
Oct. 5	73	986	Jan. 28, 1955	58	9.30	June 22	92	19.6
Oct. 8	76	5,320	Mar. 7	61	4.98	July 6	94	26.8
Oct. 16	70	210	Mar. 24	76	12.2	July 22	88	24.6
Nov. 8	63	8.13	Apr. 26	80	9.70	Aug. 5	90	13.9
Dec. 1	64	4.93	May 26	78	9.37	Sept. 9	79	19.3
Dec. 12	65	305	June 23	81	7.71	Oct. 5	74	217
Dec. 16	47	463	July 22	88	34.1	Nov. 9	71	26.1
Jan. 2, 1950	66	1,740	Aug. 26	90	11.2	Dec. 8	62	156
Jan. 17	69	46.7	Sept. 28	85	16.5	Jan. 23, 1961	62	22.9
Feb. 2	65	10.8	Dec. 5	62	9.46	Feb. 23	61	439
Feb. 10	65	12.0	Jan. 6, 1956	66	6.63	Apr. 6	66	91.3
Feb. 13	59	2,730	Feb. 2	56	51.6	May 5	76	14.0
Feb. 13	60	2,540	Mar. 8	66	12.7	June 26	75	629
Feb. 16	54	199	Apr. 6	68	8.98	Aug. 7	91	35.0
Mar. 2	62	19.2	June 7	83	9.13	Sept. 28	92	23.5
Apr. 3	72	8.15	July 6	91	9.16	Oct. 18	78	15.3
Apr. 17	67	255	Aug. 15	86	10.8	Dec. 13	52	84.3
Apr. 17	69	203	Sept. 4	80	67.3	Jan. 4, 1962	67	77.5
May 8	85	18.7	Sept. 6	80	12.0	Mar. 6	65	17.2
June 2	75	713	Sept. 7	87	25.5	Apr. 6	67	50.6
June 3	78	1,480	Sept. 10	77	8.40	May 17	79	23.8
July 3	79	21.0	Sept. 11	78	8.50	June 20	82	10.9
Aug. 3	82	8.63	Oct. 31	68	8.30	July 19	86	11.2
Sept. 5	82	6.90	Jan. 14, 1957	72	10.8	Oct. 5	78	12.1
Oct. 4	78	15.7	Jan. 22	64	7.72	Oct. 22	78	180
Nov. 2	78	9.09	Feb. 8	67	7.96	Aug. 21, 1963	81	24.2
Dec. 1	69	6.39	May 16	80	8.23	Nov. 8	63	310
Jan. 2, 1951	64	15.4	June 26	65	11.1	Dec. 19	51	21.1
Feb. 2	47	12.4	Aug. 9	85	17.6	Jan. 2, 1964	68	30.0
Mar. 2	78	5.15	Sept. 5	83	10.1	Jan. 22	67	30.9
Apr. 6	70	9.84	Jan. 7, 1958	49	18.9	Feb. 24	51	29.8
Apr. 9	72	10.2	Mar. 31	75	2.15	Feb. 26	52	232
May 1	74	9.81	Apr. 2	69	51.2	Mar. 30	62	15.8
May 31	86	6.85	Apr. 2	71	48.4	May 13	74	14.6
June 6	83	49.8	May 8	81	14.4	June 5	75	14.7
July 2	89	7.26	June 11	81	23.3	Sept. 18	86	58.7
Aug. 1	86	7.57	July 2	84	39.8	Oct. 26	73	125
Aug. 30	85	3.66	Aug. 11	86	67.2	Dec. 3	73	19.6
Oct. 1	84	14.1	Aug. 22	88	16.7	Jan. 4, 1965	68	33.8
Nov. 2	61	3.45	Aug. 25	81	28.1	Feb. 8	74	29.4
Dec. 3	72	11.0	Sept. 10	82	20.5	Feb. 18	54	285
Jan. 3, 1952	58	4.05	Oct. 17	75	11.3	Mar. 10	79	25.8
Feb. 4	55	43.7	Nov. 11	74	12.0	May 19	76	185
Mar. 3	66	11.9	Dec. 19	50	10.2	June 24	89	18.4
Mar. 31	70	6.15	Jan. 6, 1959	48	14.6	July 30	82	44.5
Apr. 12	60	1,510	Jan. 19	61	14.4	Sept. 22	84	20.7
Apr. 23	68	660	Mar. 19	61	12.5	Oct. 29	75	25.3
May 1	77	10.5	Apr. 3	72	13.5	Dec. 6	60	39.9
June 3	85	9.92	Apr. 22	68	18.9	Jan. 11, 1966	60	31.4
July 1	89	6.56	Aug. 6	86	16.0	Feb. 14	48	138
Sept. 2	89	7.41	Oct. 6	74	45.9	Mar. 21	63	19.9
Oct. 1	76	7.22	Oct. 30	72	12.9	July 13	82	17.6
Nov. 7	69	6.16	Nov. 16	62	45.3	Aug. 12	83	25.9
Dec. 4	59	219	Dec. 17	56	760			

SAN JACINTO RIVER BASIN

8-0754. Sims Bayou at Hiram Clarke Street, Houston, Tex.

Location.--Lat 29°37'07", long 95°26'45", at Hiram Clarke Street bridge in southwest section of Houston, Harris County, 12.7 miles upstream from gage, Sims Bayou at Houston, and 19.7 miles upstream from mouth.

Drainage area.--20.2 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 19, 1964	86	5.70	May 10, 1965	78	2.76	Feb. 23, 1966	54	6.53
Oct. 19	64	3.72	June 8	86	12.0	Apr. 1	68	7.99
Nov. 5	67	45.8	July 14	87	8.29	Apr. 14	67	1,060
Nov. 24	64	3.19	Sept. 21	85	6.17	Apr. 15	64	349
Dec. 12	59	69.0	Oct. 8	75	3.61	May 18	82	9.58
Dec. 22	62	5.16	Nov. 12	70	36.0	June 9	84	5.52
Feb. 3, 1965	55	4.61	Jan. 27, 1966	46	28.6	Aug. 25	77	7.08
Apr. 2	74	4.53						

SAN JACINTO RIVER BASIN

8-0755. Sims Bayou at Houston, Tex.

Location.--Lat 29°40'27", long 95°17'21", at bridge on State Highway 35 in southeast section of Houston, Harris County, 7.0 miles upstream from mouth.

Drainage area.--64.0 sq mi.

Remarks.--low flow is largely sewage effluent from Houston suburbs and industrial wastes.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 7, 1952	64	5.90	Dec. 10, 1956	52	2.57	May 17, 1961	79	9.89
Dec. 22	70	839	Jan. 21, 1957	62	5.53	Aug. 16	87	8.99
Dec. 24	52	74.8	Jan. 29	63	5.69	Sept. 28	84	10.5
Dec. 30	58	281	Feb. 8	66	5.05	Oct. 18	72	6.62
Jan. 9, 1953	60	7.57	Feb. 14	68	5.78	Dec. 13	53	12.7
Feb. 3	60	61.1	Feb. 21	53	8.41	Jan. 5, 1962	62	38.0
May 77	75	8.35	Feb. 25	60	14.3	Mar. 8	60	7.67
June 16	91	5.46	Mar. 7	60	10.9	Apr. 6	64	35.5
July 7	88	2.60	Apr. 12	58	10.4	May 11	76	8.51
Aug. 4	86	39.4	Aug. 9	87	7.19	June 20	94	9.52
Sept. 15	85	3.97	Sept. 5	87	9.00	July 19	90	9.03
Oct. 7	71	4.52	Nov. 14	63	637	Sept. 24	88	6.50
Nov. 5	67	85.2	Jan. 3, 1956	55	8.40	Oct. 22	81	25.2
Jan. 7, 1954	54	11.4	Feb. 4	59	10.6	Feb. 5, 1963	63	16.3
Feb. 10	59	8.07	Apr. 14	66	341	Jan. 14, 1964	48	11.4
Mar. 9	65	6.58	Apr. 15	69	75.1	Feb. 4	50	2,030
Apr. 7	76	8.02	Aug. 20	89	6.82	Feb. 5	51	763
May 11	81	6.26	Sept. 7	82	286	Feb. 6	52	183
June 15	86	1.16	Sept. 10	83	28.3	Feb. 27	52	83.4
July 28	85	0.24	Sept. 19	79	39.0	Mar. 23	63	20.6
Sept. 10	90	4.37	Oct. 20	82	6.72	May 4	80	11.7
Oct. 14	85	4.95	Nov. 7	69	8.14	June 2	75	9.90
Nov. 24	60	4.28	Dec. 19	58	6.88	July 6	87	9.69
Dec. 21	54	4.06	Jan. 19, 1959	60	8.47	Aug. 12	94	9.65
Jan. 28, 1955	55	5.92	Mar. 10	68	13.1	Sept. 15	81	7.85
Mar. 7	62	5.06	Apr. 3	76	8.73	Oct. 19	72	7.94
Mar. 24	72	4.38	June 5	81	11.2	Nov. 24	57	13.1
Apr. 26	79	4.54	July 17	81	27.2	Dec. 22	61	12.4
May 16	77	11.0	Sept. 4	86	10.9	Feb. 3, 1965	55	11.4
June 23	83	3.06	Nov. 16	60	15.5	Feb. 18	56	99.8
July 20	87	13.4	Jan. 11, 1960	65	32.9	Mar. 9	53	8.82
Aug. 25	92	6.55	Feb. 5	56	87.4	Apr. 6	76	9.17
Sept. 28	83	22.8	Mar. 14	57	7.69	May 12	77	11.0
Oct. 18	64	5.18	May 19	81	7.38	June 15	95	10.9
Nov. 7	65	4.25	June 22	87	6.84	July 23	90	9.39
Dec. 16	48	1.47	June 25	71	1,770	Aug. 24	82	11.8
Jan. 16, 1956	54	3.72	June 30	93	54.5	Oct. 8	78	9.30
Feb. 24	68	5.00	July 14	89	13.4	Nov. 12	68	66.3
Feb. 24	68	5.75	Aug. 5	93	7.00	Jan. 27, 1966	49	50.8
Mar. 29	72	3.43	Sept. 20	88	9.90	Feb. 23	53	15.6
June 15	78	21.6	Oct. 5	78	28.2	Apr. 1	64	18.7
July 17	87	2.63	Dec. 12	50	82.6	May 18	79	21.5
Aug. 24	79	2.68	Jan. 20, 1961	53	15.1	June 9	82	15.8
Sept. 27	76	2.79	Feb. 22	65	427	July 20	86	10.6
Oct. 30	77	7.49	Apr. 6	63	83.8	Aug. 15	88	13.1
Nov. 16	63	52.9						

## SAN JACINTO RIVER BASIN

8-0760. Greens Bayou near Houston, Tex.

Location.--Lat 29°55'05", long 95°16'24", at bridge on U. S. Highway 59, 10.5 miles northeast of Houston, Harris County, and 12.0 miles upstream from Hall's Bayou.

Drainage area.--72.7 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 11, 1952	59	11.3	Jan. 29, 1960	58	20.8	Nov. 15, 1963	59	2.84
Feb. 3, 1953	62	7.55	Mar. 11	63	8.11	Dec. 19	46	5.57
Aug. 3	89	2.32	Apr. 7	76	2.01	Feb. 25, 1964	45	313
Sept. 15	91	.68	May 12	76	.46	Feb. 26	49	106
Nov. 5	68	28.3	June 17	80	3.64	Mar. 19	60	918
Nov. 19	65	81.7	July 11	88	48.7	Mar. 30	67	3.50
Jan. 8, 1954	57	1.71	Aug. 25	86	23.8	May 7	78	6.61
Feb. 9	62	.95	Oct. 6	74	8.09	May 31	68	5,440
July 29	84	1.89	Nov. 7	63	8.93	May 31	67	5,940
Aug. 4	88	22.5	Dec. 20	62	30.6	June 12	86	4.69
Jan. 27, 1955	55	.06	Jan. 23, 1961	60	11.5	July 13	89	3.01
Mar. 10	65	.10	Apr. 27	77	4.40	Aug. 26	83	9.85
May 26	77	.34	June 1	86	4.27	Sept. 28	75	6.66
June 23	81	.85	July 3	92	5.19	Nov. 2	71	3.39
July 20	84	2.54	Aug. 10	81	18.0	Dec. 4	59	5.13
Aug. 25	90	6.77	Sept. 19	78	28.8	Jan. 12, 1965	52	5.33
Sept. 29	88	.75	Oct. 12	79	2.70	Feb. 16	52	22.2
Feb. 28, 1956	68	.13	Jan. 22, 1962	60	17.8	Mar. 17	74	7.31
June 19	84	3.90	Feb. 28	52	13.1	Apr. 23	81	3.76
July 18	87	.39	Apr. 4	64	4.51	June 30	78	12.7
Aug. 22	81	5.25	May 15	80	4.22	Aug. 3	88	3.17
Sept. 28	85	.13	June 21	87	14.8	Sept. 7	87	5.01
Mar. 21, 1958	65	1.17	Aug. 3	88	4.06	Nov. 5	67	198
Apr. 14	66	26.3	Aug. 29	86	4.16	Dec. 28	53	10.5
July 7	83	1.64	Oct. 4	74	3.46	Feb. 1, 1966	55	263
Jan. 13, 1959	54	.97	Nov. 7	64	3.77	Mar. 17	67	9.92
May 27	80	76.4	Dec. 12	49	1.48	May 23	85	57.6
July 15	89	8.30	Mar. 28, 1963	70	5.05	June 23	87	6.85
Oct. 21	66	10.2	May 2	73	4.46	July 27	92	8.74
Nov. 19	50	13.0	July 11	85	3.88	Sept. 1	82	13.9
Dec. 29	57	15.6						

SAN JACINTO RIVER BASIN

8-0765. Halls Bayou at Houston, Tex.

Location.--Lat 29°51'42", long 95°20'05", at bridge on Jensen Drive, in northeast section of Houston, Harris County, and 11.0 miles upstream from mouth.

Drainage area.--24.7 sq mi.

Remarks.--Low flow is partly sustained by sewage effluent from Houston suburbs.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 10, 1952	60	58.4	May 27, 1959	79	14.4	Nov. 7, 1962	65	1.13
Nov. 11	59	3.95	July 15	89	46.0	Dec. 12	50	1.57
Dec. 4	61	336	Oct. 21	74	4.70	Mar. 28, 1963	75	2.63
Feb. 3, 1953	60	3.70	Nov. 19	50	6.56	May 2	75	1.11
May 6	74	19.6	Jan. 5, 1960	50	56.7	Nov. 15	59	.57
Aug. 3	90	1.98	Jan. 29	60	11.3	Dec. 19	48	.86
Sept. 15	93	.10	Mar. 11	64	4.84	Mar. 19, 1964	59	662
Nov. 5	70	7.38	Apr. 7	80	2.50	Mar. 30	65	1.99
Dec. 3	64	48.3	May 12	80	1.72	May 7	79	2.55
Jan. 8, 1954	60	1.31	June 16	92	.60	May 31	66	1,400
July 29	83	1.16	June 29	86	24.6	June 12	91	1.55
Aug. 4	85	4.24	July 12	94	3.08	July 13	87	.82
Nov. 23	60	.24	Aug. 25	88	3.43	Aug. 26	83	6.06
Jan. 27, 1955	57	2.59	Oct. 6	72	21.0	Sept. 28	73	7.02
Mar. 10	67	.17	Nov. 7	65	3.44	Nov. 4	71	3.72
Mar. 23	70	.26	Dec. 20	64	14.4	Dec. 4	60	1.82
Apr. 27	76	.30	Jan. 23, 1961	58	7.18	Jan. 12, 1965	59	3.90
July 20	83	1.00	Apr. 27	85	2.63	Mar. 18	65	2.73
Sept. 15	78	5.70	June 2	88	1.59	Apr. 27	75	1.90
Sept. 29	82	1.94	July 3	88	3.60	Aug. 4	84	1.04
Oct. 18	74	.64	Aug. 10	82	13.8	Sept. 8	82	1.28
Nov. 18	65	.20	Sept. 19	78	8.63	Nov. 5	66	121
Feb. 28, 1956	64	1.29	Oct. 12	84	1.74	Nov. 5	67	168
Apr. 9	69	.80	Nov. 16	63	43.1	Nov. 5	68	307
June 19	84	1.08	Jan. 22, 1962	60	15.0	Dec. 28	58	8.06
July 18	86	.40	Mar. 1	49	5.89	Feb. 1, 1966	58	22.0
Aug. 22	80	.91	Apr. 4	64	2.04	Mar. 17	70	7.18
Nov. 15	73	11.5	May 15	84	2.12	May 23	87	21.0
Mar. 21, 1958	64	2.59	June 21	85	1.05	June 23	85	4.30
Apr. 14	66	195	Aug. 3	89	.37	July 28	86	1.81
July 7	82	.86	Oct. 4	70	.37	Sept. 1	84	2.52
Jan. 13, 1959	51	1.32						

CLEAR CREEK BASIN

8-0770. Clear Creek near Pearland, Tex.

Location.--Lat 29°35'50", long 95°17'10", at bridge on State Highway 35, 0.7 mile downstream from Gulf, Colorado and Santa Fe Railway Co. bridge, 1.2 miles upstream from Hickory Slough, 2.3 miles north of Pearland, Brazoria County, and about 30 miles upstream from head of Clear Lake.

Drainage area.--38.8 sq mi.

Remarks.--Large area of riceland above station is irrigated with water from the Brazos River. Low flow from April to October is largely drainage from irrigated lands.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 17, 1948	65	557	Sept. 16, 1952	83	27.4	Sept. 18, 1958	82	115
Nov. 18	68	211	Oct. 16	73	14.0	Oct. 22	74	3.12
Nov. 18	70	198	Nov. 7	64	.44	Nov. 7	67	2.72
Nov. 22	56	44.5	Nov. 10	59	11.8	Dec. 19	64	.25
Nov. 23	58	27.1	Dec. 16	48	1.99	Jan. 19, 1959	59	.24
Dec. 17	65	.54	Dec. 22	62	260	Mar. 10	71	3.94
Jan. 25, 1949	59	53.4	Dec. 23	54	126	Apr. 16	64	42.2
Feb. 23	65	256	Dec. 30	57	117	May 18	78	.32
Mar. 24	71	16.6	Feb. 3, 1953	64	72.0	June 15	90	2.27
Apr. 28	77	54.0	Mar. 10	69	3.24	July 9	84	14.2
May 25	78	11.1	July 9	101	.69	Sept. 4	83	18.2
June 27	87	8.46	Aug. 21	82	41.5	Sept. 17	81	3.76
July 26	82	34.6	Sept. 1	77	770	Oct. 16	72	56.7
Sept. 6	85	5.40	Oct. 16	78	1.19	Nov. 17	55	6.36
Oct. 3	72	112	Nov. 5	67	57.5	Jan. 19, 1960	46	35.9
Oct. 3	72	189	Nov. 19	69	409	Nov. 20, 1963	74	.80
Oct. 5	71	1,270	Jan. 20, 1954	72	16.1	Dec. 18	46	14.1
Oct. 8	80	1,840	Feb. 17	72	1.39	Jan. 14, 1964	38	.42
Oct. 13	74	855	Mar. 16	70	.89	Feb. 4	48	781
Oct. 14	74	338	Apr. 7	80	5.43	Feb. 5	50	544
Oct. 26	62	227	May 7	72	1.59	Feb. 5	51	389
Nov. 21	60	1.39	June 2	85	5.58	Feb. 6	50	155
Dec. 13	54	175	July 8	99	1.97	Feb. 14	42	6.77
Jan. 16, 1950	68	40.4	Aug. 11	98	.56	Mar. 19	65	27.4
Feb. 17	64	46.7	Aug. 26	98	15.5	Mar. 20	65	40.3
Mar. 21	74	1.34	Oct. 7	82	3.46	Mar. 20	64	31.1
Apr. 28	78	11.5	Nov. 9	62	.41	May 4	81	25.5
May 26	81	3.37	Jan. 7, 1955	68	.10	June 2	78	17.8
June 29	85	.51	Jan. 10	58	31.9	July 6	88	4.52
July 28	87	13.9	Apr. 4	78	3.67	Aug. 12	90	7.53
Aug. 29	90	15.4	May 5	85	.05	Sept. 14	80	7.24
Oct. 4	76	33.6	June 6	82	.34	Oct. 19	70	8.37
Oct. 25	77	4.37	July 8	87	.64	Nov. 20	68	2.96
Jan. 4, 1951	59	8.72	Aug. 8	97	2.44	Dec. 10	60	1,010
Feb. 20	76	3.33	Sept. 8	83	23.9	Dec. 11	61	650
Mar. 19	70	.32	Oct. 5	84	6.26	Dec. 14	53	60.5
Apr. 19	76	3.16	Mar. 2, 1956	64	.44	Feb. 3, 1965	51	.89
June 4	77	2.53	Mar. 2	66	.41	Feb. 16	57	65.6
June 14	82	54.2	Mar. 29	76	.68	Mar. 9	66	1.06
July 17	85	1.68	May 11	89	4.31	Apr. 6	77	8.13
Sept. 24	81	35.5	June 15	78	1.01	May 11	78	7.45
Oct. 23	76	3.62	July 17	96	.11	June 17	87	3.10
Apr. 9, 1952	76	.76	Aug. 24	78	7.58	Aug. 24	82	7.92
Apr. 10	57	109	Sept. 27	83	3.24	Oct. 8	76	4.75
Apr. 11	60	38.1	July 9, 1957	88	1.55	Nov. 12	65	38.5
Apr. 23	67	408	Aug. 9	85	5.67	Jan. 26, 1966	43	120
May 9	87	1.59	Oct. 11	76	3.14	Feb. 23	52	5.36
June 5	82	.39	Apr. 15, 1958	72	43.7	Apr. 1	68	10.2
June 20	88	1.03	May 13	86	3.83	May 18	81	12.8
June 25	93	.27	June 11	93	3.73	May 21	77	1,980
June 26	95	4.24	July 23	87	11.0	June 13	81	20.0
July 7	95	19.2	Aug. 20	87	12.3	July 20	92	25.4
Aug. 13	88	2.21	Sept. 6	83	20.0	Aug. 24	87	28.3
Sept. 11	81	97.1	Sept. 8	83	30.2			

CHOCOLATE BAYOU BASIN

8-0780. Chocolate Bayou near Alvin, Tex.

Location.--Lat 29°22'19", long 95°19'14", near bridge on Farm Road 1462, 5.9 miles southwest of Alvin, Brazoria County, and 6.9 miles upstream from State Highway 35.

Drainage area.--87.7 sq mi.

Remarks.--Large area of riceland above station is irrigated with water from Brazos River. Low flow from April to October is largely drainage from the irrigated lands.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 23, 1948	56	131	Feb. 3, 1953	62	71.5	Sept. 3, 1959	88	69.9
Dec. 17	68	3.96	Apr. 23	71	12.9	Oct. 16	70	93.4
Jan. 25, 1949	50	93.4	May 29	83	42.8	Nov. 10	56	25.6
Feb. 23	66	374	July 22	86	61.9	Jan. 13, 1960	63	37.5
Feb. 24	69	375	Oct. 16	72	4.29	Feb. 9	63	19.2
Mar. 23	67	33.8	Nov. 22	58	737	Mar. 16	66	6.08
Apr. 19	66	3.64	Jan. 20, 1954	67	35.1	Apr. 29	75	38.7
May 25	78	50.7	Feb. 17	64	5.00	June 22	84	18.5
June 27	86	81.5	Mar. 16	54	2.06	June 30	89	294
July 26	82	50.9	Apr. 7	79	30.8	July 21	81	142
Sept. 6	84	54.7	May 7	72	40.0	Sept. 6	88	43.1
Oct. 3	72	318	June 2	83	65.2	Nov. 4	68	26.6
Oct. 10	81	3,290	July 8	83	98.7	Dec. 15	45	1,260
Oct. 11	81	2,590	Aug. 11	90	57.0	Feb. 21, 1961	55	61.3
Oct. 13	75	1,640	Aug. 26	87	205	Apr. 11	68	4.38
Oct. 14	75	1,140	Oct. 7	79	8.41	May 11	78	24.5
Oct. 17	72	367	Nov. 9	58	1.18	June 22	82	934
Oct. 24	76	24.7	Feb. 4, 1955	63	2.30	June 23	83	402
Nov. 21	60	2.32	Mar. 9	61	2.31	Aug. 10	78	163
Dec. 13	58	751	Apr. 4	72	13.8	Sept. 14	82	2,260
Feb. 3, 1950	62	5.82	May 5	76	29.8	Sept. 20	79	68.9
Feb. 17	66	184	June 6	80	42.0	Jan. 5, 1962	59	7.61
Mar. 21	77	3.63	July 8	86	47.6	Feb. 16	66	3.70
Apr. 28	75	13.8	Aug. 9	88	57.0	May 10	80	35.0
May 25	79	60.1	Sept. 8	76	66.8	June 13	84	67.3
June 29	85	66.0	Oct. 5	82	2.48	Aug. 29	84	74.3
July 27	82	150	Nov. 7	68	5.43	Oct. 4	76	21.0
Aug. 28	81	117	Dec. 14	53	6.15	Nov. 20, 1963	72	1.42
Sept. 28	77	119	Mar. 2, 1956	67	.95	Dec. 18	48	32.6
Oct. 25	73	.48	Mar. 29	74	4.87	Jan. 29, 1964	57	5.65
Jan. 4, 1951	54	34.9	May 11	79	19.6	Feb. 5	50	655
Jan. 16	50	8.03	June 11	86	20.4	Mar. 10	62	11.4
Feb. 20	70	9.39	July 17	92	22.7	Mar. 19	63	254
Mar. 19	61	1.61	Aug. 21	82	36.2	May 22	76	38.6
Apr. 19	72	32.7	Sept. 26	76	4.23	July 27	89	72.2
May 23	83	60.1	Oct. 26	85	.13	Aug. 27	88	47.9
June 14	82	292	Feb. 15, 1957	67	.41	Sept. 28	76	56.3
July 17	87	82.8	May 9	80	11.8	Nov. 2	76	1.67
Aug. 17	86	57.8	Aug. 9	84	37.2	Dec. 9	52	4.54
Sept. 24	81	63.4	Jan. 9, 1958	44	6.10	Jan. 3, 1965	56	6.52
Oct. 23	79	7.15	Feb. 4	54	15.0	Feb. 24	56	10.8
Nov. 29	57	.35	Apr. 15	65	34.8	Mar. 23	70	15.3
Jan. 2, 1952	58	1.35	June 23	82	44.9	Apr. 29	76	38.6
Feb. 6	55	22.2	July 9	86	108	June 3	84	35.6
Apr. 1	62	2,040	Aug. 20	84	83.8	Aug. 9	86	58.5
Apr. 2	72	1,180	Aug. 22	85	115	Sept. 13	84	44.7
Apr. 3	70	487	Sept. 18	81	91.3	Oct. 20	75	97.0
May 8	78	39.8	Oct. 22	76	3.32	Nov. 22	74	7.54
June 4	80	42.8	Nov. 11	71	1.60	Jan. 3, 1966	57	33.6
July 7	85	43.4	Jan. 27, 1959	57	.20	Jan. 31	47	98.3
Aug. 13	86	22.2	Mar. 25	65	15.9	Mar. 7	57	8.35
Sept. 16	82	115	May 5	76	54.5	May 17	80	42.2
Oct. 16	65	6.27	June 8	84	111	June 28	85	89.6
Nov. 20	56	35.2	July 9	85	120	July 25	88	144
Dec. 16	46	4.24	July 28	85	905	Aug. 29	83	98.0



## OYSTER CREEK BASIN

8-0790. Oyster Creek near Angleton, Tex.

Location.--Lat 29°09'30", long 95°28'30", at bridge on State Highway 35, 2.8 miles west of Angleton, Brazoria County, 4.1 miles upstream from Missouri Pacific Railroad Co. bridge, 4.4 miles downstream from another Missouri Pacific Railroad Co. bridge, and about 45 miles upstream from Gulf of Mexico.

Drainage area.--211 sq mi.

Remarks.--A large part of flow is water released from Harris Reservoir (capacity, 12,000 acre-ft.) for industrial use below station. Harris Reservoir is supplied with water diverted from Brazos River during periods of floodflow.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 16, 1949	76	118	Dec. 16, 1952	52	72.1	Nov. 13, 1958	71	105
June 28	82	37.6	Jan. 30, 1953	60	69.3	Dec. 16	47	150
June 28	82	36.7	Apr. 23	71	129	Jan. 27, 1959	56	2.21
July 7	87	15.1	May 27	84	294	May 15	77	106
July 21	82	27.8	July 22	96	124	July 9	84	150
July 23	83	8.26	Oct. 2	80	97.4	July 31	86	164
Sept. 1	83	26.1	Nov. 21	62	1,890	Sept. 3	86	147
Sept. 19	79	29.8	Nov. 22	63	1,640	Nov. 10	55	130
Oct. 5	72	1,540	Dec. 3	66	220	Jan. 13, 1960	67	125
Oct. 12	74	2,340	Jan. 7, 1954	53	172	Feb. 9	58	133
Oct. 13	74	2,260	Feb. 3	61	154	Mar. 16	58	132
Oct. 17	74	1,750	Mar. 3	54	134	Apr. 22	76	64.3
Oct. 24	77	442	Apr. 7	72	61.0	June 21	88	151
Oct. 31	84	475	May 7	79	91.4	July 22	89	171
Nov. 29	68	28.2	June 2	83	215	Sept. 6	85	92.9
Jan. 4, 1950	55	350	July 8	85	98.7	Nov. 3	72	166
Feb. 7	66	31.6	Aug. 10	84	66.0	Dec. 15	47	811
Mar. 7	62	176	Aug. 26	86	77.7	Feb. 21, 1961	60	152
Mar. 21	68	105	Oct. 8	79	61.5	Apr. 14	66	128
Apr. 10	70	25.0	Nov. 8	62	95.5	Aug. 10	82	149
Apr. 17	70	35.6	Dec. 7	61	73.8	Sept. 20	76	73.8
May 10	81	101	Jan. 6, 1955	68	81.5	Nov. 9	60	160
June 13	83	309	Feb. 4	65	82.6	Nov. 15	66	1,670
June 14	83	296	Mar. 8	65	84.2	Jan. 9, 1962	51	141
July 6	84	35.8	Apr. 7	73	77.5	Feb. 16	68	129
July 18	83	40.1	May 4	79	6.09	Mar. 28	66	129
Aug. 8	84	50.2	May 13	76	14.3	June 13	84	157
Sept. 18	82	67.1	May 31	79	161	July 20	85	156
Sept. 19	80	67.0	July 8	85	130	Oct. 4	76	151
Oct. 16	74	46.7	Aug. 8	89	1.37	Oct. 26	68	149
Nov. 17	65	58.8	Sept. 8	78	169	Feb. 8, 1963	57	146
Dec. 13	54	43.8	Oct. 5	82	6.34	July 3	81	106
Jan. 3, 1951	60	33.9	Nov. 8	62	29.2	Nov. 21	70	160
Feb. 7	63	48.8	Dec. 14	48	25.9	Dec. 18	46	180
Mar. 9	69	40.4	Jan. 16, 1956	54	138	Jan. 29, 1964	56	110
Apr. 11	67	76.9	Feb. 23	68	127	Feb. 5	52	370
May 11	78	41.4	Mar. 28	69	152	Mar. 10	64	198
June 4	81	74.5	May 10	76	150	Apr. 10	67	145
June 13	76	356	June 11	85	168	May 14	80	155
June 14	78	366	July 18	86	.34	Aug. 27	86	145
June 18	86	119	Aug. 21	86	115	Nov. 2	73	1.50
July 3	87	86.9	Sept. 26	79	106	Dec. 9	52	56.2
July 9	86	84.6	Oct. 26	73	100	Jan. 13, 1965	56	59.2
Aug. 2	86	82.8	Dec. 10	56	128	Feb. 24	56	109
Sept. 7	84	87.3	Jan. 11, 1957	62	142	Mar. 24	65	120
Oct. 4	79	48.2	Feb. 15	67	94.4	Apr. 29	76	115
Nov. 8	58	74.3	July 5	90	156	June 9	83	290
Dec. 26	55	79.1	Jan. 9, 1958	45	140	Aug. 9	84	170
Feb. 6, 1952	58	48.3	Feb. 4	54	139	Sept. 14	85	166
Mar. 25	62	62.7	Apr. 1	66	140	Oct. 20	77	28.8
May 7	80	54.4	Apr. 30	72	145	Nov. 22	73	115
June 5	81	252	May 23	74	149	Jan. 7, 1966	53	127
July 9	85	116	June 23	87	164	Feb. 3	50	72.5
Aug. 13	88	97.8	July 23	86	87.6	Mar. 11	63	34.9
Sept. 16	82	66.7	Aug. 20	85	59.3	June 28	85	60.2
Oct. 15	71	73.0	Sept. 17	81	38.4	July 29	87	14.8
Nov. 19	63	102	Oct. 20	74	81.9	Sept. 1	84	129

BRAZOS RIVER BASIN

8-0796. Double Mountain Fork Brazos River at Justiceburg, Tex.

Location.--Lat 30°02'25", long 101°11'40", at bridge on U. S. Highway 84, 250 ft downstream from Panhandle and Santa Fe Railroad, and at Justiceburg, Garza County.

Drainage area.--1,272 sq mi, of which 1,003 sq mi is probably noncontributing.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 24, 1962	53	0.20	Mar. 28, 1963	73	0.10	Aug. 26, 1965	80	0.52
Feb. 21	48	.12	May 6	83	9.39	Sept. 19	76	198
June 11	88	2.73	May 31	80	24.0	Sept. 19	77	76.6
June 19	78	1.03	June 12	87	19.4	Sept. 20	69	8.75
Sept. 5	65	4.39	June 14	81	222	Sept. 20	84	4.98
Sept. 20	75	2.49	May 14, 1964	71	193	Oct. 7	70	.11
Oct. 3	72	.58	May 18	72	4.51	Oct. 18	66	40.6
Nov. 6	68	.23	May 25	87	.34	Nov. 9	56	.15
Dec. 13	48	.25	June 22	74	94.3	Jan. 28, 1966	32	.20
Jan. 16, 1963	38	.46	Aug. 17	87	32.2	Mar. 3	40	.05
Feb. 20	57	.08						

BRAZOS RIVER BASIN

8-0805. Double Mountain Fork Brazos River near Aspermont, Tex.

Location.--Lat 33°00', long 100°11', at bridge on U. S. Highway 83, 8 miles downstream from Mountain Creek, and 10 miles south of Aspermont, Stonewall County.

Drainage area.--7,980 sq mi. approximately, of which 6,470 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from November 1949 to November 1951, October 1956 to September 1966.

Remarks.--Mean temperatures computed for months with at least ten days of flow.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1950	Mean	-	62	49	50	62	-	67	75	83	79	79	75
	Max.-Min.	-	76 52	64 34	66 32	73 41	-	84 47	87 57	92 67	90 69	87 71	84 64
1951	Mean	75	55	48	46	55	59	69	80	81	86	88	81
	Max.-Min.	81 68	67 43	59 33	53 32	62 33	72 49	87 60	91 68	88 70	96 75	95 80	91 65
1957	Mean	72	55	50	47	57	60	64	73	78	77	71	67
	Max.-Min.	79 61	62 44	52 39	60 32	67 46	68 48	73 41	82 60	86 64	82 60	83 61	76 54
1958	Mean	65	53	52	49	52	57	66	79	83	87	85	80
	Max.-Min.	75 51	66 40	60 43	60 41	67 33	68 43	79 53	91 56	90 69	92 71	88 81	94 57
1959	Mean	72	62	51	51	57	69	75	81	86	86	87	78
	Max.-Min.	85 54	73 40	62 36	63 34	69 34	80 57	87 58	92 68	94 73	93 71	93 75	87 61
1960	Mean	68	54	51	50	52	58	69	73	86	89	88	80
	Max.-Min.	79 56	69 32	58 47	63 37	66 32	76 34	79 52	82 59	91 76	95 75	95 75	92 71
1961	Mean	71	64	52	55	67	68	72	79	77	83	86	80
	Max.-Min.	85 59	75 54	65 36	64 45	80 49	85 54	86 56	87 62	87 56	88 69	97 79	87 71
1962	Mean	73	59	50	48	62	64	72	82	83	86	87	80
	Max.-Min.	83 57	71 39	69 35	74 32	79 41	78 48	84 56	91 73	89 71	96 74	92 77	91 65
1963	Mean	76	60	52	46	57	68	76	81	87	93	92	84
	Max.-Min.	87 63	71 39	62 35	61 32	67 40	82 49	86 66	90 60	96 75	97 87	97 79	94 73
1964	Mean	77	61	46	50	54	67	75	81	89	-	90	82
	Max.-Min.	85 65	72 49	57 32	62 33	62 36	80 41	89 50	90 71	95 75	-	99 79	96 62
1965	Mean	73	61	52	55	-	63	76	89	88	89	86	81
	Max.-Min.	81 51	90 46	62 32	69 46	-	76 46	89 57	87 61	94 79	96 82	93 77	91 70
1966	Mean	72	66	57	48	56	68	70	81	87	100	84	79
	Max.-Min.	84 59	72 49	67 45	64 32	67 35	84 49	83 55	92 54	91 76	100 83	94 65	88 59
1950-66	Mean	72	59	51	50	57	64	71	78	84	86	85	79
	Max.-Min.	87 51	90 32	69 32	74 32	80 32	85 34	89 41	92 54	96 56	100 60	99 61	96 54

## BRAZOS RIVER BASIN

8-0807. Running Water Draw at Plainview, Tex.

Location.--Lat  $34^{\circ}10'50''$ , long  $101^{\circ}42'00''$ , at bridge on Broadway Street in Plainview, Hale County, and 0.4 mile upstream from Atchison, Topeka and Santa Fe Railway Co. bridge.

Drainage area.--470 sq mi, (contributing area).

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 17, 1962	60	412	May 19, 1962	80	4.63	June 16, 1964	72	213
May 17	63	273	Oct. 17	53	8.70	June 17	77	44.3
May 17	65	179	Feb. 13, 1963	35	.13	June 18	71	18.0
May 18	66	38.0	May 24	58	.04	June 18	77	11.1
May 18	72	20.0	May 25	63	35.0	June 18	78	8.73
May 18	71	14.1	June 18	66	89.3	June 19	71	3.98
May 19	81	5.85	June 15, 1964	78	23.7			

## BRAZOS RIVER BASIN

8-0812. Croton Creek near Jayton, Tex.

Location.--Lat  $33^{\circ}17'21''$ , long  $100^{\circ}26'00''$ , near county road, 1.1 miles upstream from mouth, and 8.6 miles northeast of Jayton, Kent County.

Drainage area.--284 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 6, 1959	84	17.0	May 30, 1960	72	0.75	May 13, 1961	67	0.49
July 17	92	.05	May 30	74	12.8	May 26	75	.49
July 22	91	.35	May 30	80	7.26	May 27	67	.07
Aug. 13	82	.25	May 30	78	25.6	June 6	64	619
Aug. 14	81	.04	May 31	91	.27	June 8	82	10.4
Aug. 21	87	4.02	June 1	80	.05	June 23	72	3.09
Aug. 22	95	.58	June 8	84	27.0	July 5	94	.14
Aug. 24	91	.04	June 9	85	6.12	Nov. 7	60	.25
Aug. 25	82	--	June 10	89	.51	Dec. 5	50	.06
Aug. 29	84	15.7	July 5	84	123	Mar. 7, 1962	50	--
Aug. 30	83	.30	July 5	84	57.2	Aug. 10	78	--
Oct. 6	65	14.3	July 5	85	31.3	Sept. 13	94	4.58
Oct. 14	77	.75	July 8	74	357	Oct. 12	76	1.03
Oct. 15	69	.59	July 8	87	119	Nov. 14	48	.28
Oct. 20	79	.16	July 8	83	99.6	Dec. 13	43	2.77
Oct. 21	58	.16	July 11	98	7.18	Jan. 18, 1963	38	.95
Oct. 22	59	.12	July 15	85	15.5	Feb. 14	60	1.19
Oct. 23	57	.05	July 17	84	2.36	Mar. 14	64	.10
Oct. 30	62	.62	July 19	95	.94	Apr. 11	72	.08
Nov. 2	69	.57	July 21	78	150	May 9	73	8.54
Nov. 3	77	13.8	July 21	79	56.4	May 22	65	63.2
Nov. 4	53	4.12	Aug. 20	94	--	June 11	80	8.21
Dec. 16	47	78.8	Aug. 25	95	69.1	July 19	94	.90
Dec. 16	47	64.4	Aug. 25	83	46.0	Nov. 20	50	89.0
Dec. 17	47	51.6	Aug. 26	82	17.1	Dec. 18	35	.93
Jan. 5, 1960	36	6.97	Aug. 27	86	1.41	Jan. 14, 1964	32	.03
Jan. 21	30	1.48	Sept. 20	88	20.7	Feb. 18	60	.38
Feb. 3	47	19.0	Oct. 17	62	54.2	June 11	76	150
Feb. 4	42	21.4	Oct. 18	60	9,080	Apr. 16, 1965	73	9.46
Feb. 17	39	1.05	Oct. 18	62	6,330	Apr. 17	82	2.39
Mar. 2	41	1.56	Oct. 18	68	1,490	May 13	72	8.83
Mar. 15	47	.82	Oct. 19	57	149	June 16	81	5.76
Mar. 30	78	--	Nov. 15	62	3.17	Sept. 20	81	2.07
Apr. 15	85	--	Dec. 7	38	2.97	Oct. 23	64	15.1
Apr. 26	65	.10	Jan. 4, 1961	37	2.69	Oct. 25	58	1.59
Apr. 26	65	.25	Feb. 8	36	3.92	Jan. 27, 1966	35	1.57
Apr. 27	65	.05	Mar. 8	47	.44	Mar. 2	60	.60
Apr. 27	83	7.25	Apr. 5	56	.54	Sept. 21	82	19.7
Apr. 28	68	.91						

BRASS RIVER BASIN

8-0815. Salt Croton Creek near Aspermont, Tex.

Location.--Lat 32°24'05", long 100°24'30", 0.1 mile downstream from Haystack Creek, 2.4 miles downstream from Salt Flat Creek, 9.3 miles upstream from Salt Fork Brazos River, and 21 miles northwest of Aspermont, Stonewall County.

Drainage area.--64.3 sq mi.

Remarks.--Base flow maintained by brine seeps and springs. Because of the brine discharge, winter water temperatures of less than 32°F have been observed.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 26, 1956	92	0.61	June 2, 1959	91	2.95	May 8, 1962	96	1.02
Oct. 18	74	1.79	June 19	100	.56	July 10	99	.33
Oct. 19	79	5.20	July 9	89	36.6	Aug. 8	74	.37
Oct. 24	77	.64	July 22	100	.51	Sept. 14	101	.63
Nov. 22	47	.72	Aug. 5	92	.55	Oct. 11	82	.61
Dec. 6	72	1.00	Aug. 12	100	.47	Nov. 13	69	.80
Jan. 10, 1957	55	.73	Aug. 20	99	.47	Dec. 14	36	1.20
Jan. 24	61	.90	Sept. 18	90	.82	Jan. 17, 1963	56	1.26
Feb. 20	53	1.96	Oct. 22	85	1.01	Feb. 15	41	1.05
Mar. 7	57	.51	Oct. 27	57	.56	Mar. 14	65	.85
Mar. 20	52	2.70	Nov. 3	71	14.6	Apr. 11	73	.57
Mar. 20	52	7.09	Nov. 20	52	.81	May 7	77	1.35
Mar. 20	56	25.4	Dec. 2	47	.86	June 12	96	9.88
Apr. 3	73	2.96	Dec. 18	43	2.83	July 19	94	.49
Apr. 9	70	.74	Jan. 5, 1960	34	19.0	Aug. 14	95	.73
May 15	69	1.27	Jan. 19	40	.96	Sept. 12	75	3.46
May 27	83	1.07	Feb. 17	43	2.80	Oct. 4	89	.70
June 24	94	3.44	Mar. 2	39	1.49	Nov. 13	55	.63
July 10	96	.57	Mar. 16	55	.90	Dec. 19	41	1.14
July 24	84	2.03	Mar. 31	69	.26	Jan. 13, 1964	49	.71
Aug. 21	97	.61	Apr. 14	77	1.01	Feb. 17	64	.83
Sept. 10	76	1.03	Apr. 20	78	.82	Mar. 16	69	.44
Sept. 27	88	.74	Apr. 28	88	1.07	Apr. 15	85	.58
Oct. 24	74	1.02	May 16	93	.59	May 13	88	.41
Nov. 14	60	1.49	May 25	95	.62	May 13	86	.43
Nov. 26	64	1.42	June 3	94	.87	June 4	78	1.12
Dec. 19	46	1.70	June 10	94	.92	June 10	90	.14
Jan. 2, 1958	56	1.37	June 23	100	.73	July 1	104	.45
Jan. 16	64	1.63	July 1	104	.78	July 2	85	7.65
Jan. 29	64	1.29	July 9	102	.74	July 10	81	.33
Feb. 11	44	1.96	July 12	96	.67	July 21	106	.50
Feb. 26	56	1.63	July 29	105	.66	July 27	87	.29
Mar. 19	74	1.16	Aug. 4	102	.36	July 28	78	.21
Apr. 2	81	.99	Aug. 15	87	.86	Aug. 5	104	.23
Apr. 29	65	1.50	Aug. 23	94	.90	Aug. 12	84	.02
May 15	84	1.52	Sept. 5	96	.69	Aug. 13	80	.05
May 27	92	.75	Sept. 13	96	.57	Aug. 19	95	.52
June 11	94	.79	Sept. 29	91	.93	Aug. 27	87	.55
June 25	67	.97	Oct. 13	89	1.05	Sept. 25	69	.75
July 10	96	.57	Nov. 15	70	1.98	Oct. 29	76	1.01
July 24	100	.56	Dec. 7	38	1.88	Nov. 24	59	.77
Aug. 5	96	.42	Jan. 4, 1961	36	1.08	Dec. 21	61	1.01
Aug. 20	98	1.22	Feb. 8	52	1.89	Jan. 20, 1965	54	.74
Sept. 3	94	.43	Mar. 8	70	.41	Feb. 15	57	.64
Sept. 18	91	.68	Apr. 6	69	.88	Mar. 18	38	.63
Oct. 9	85	.88	Apr. 19	94	.96	Apr. 15	74	.59
Oct. 22	81	.73	Apr. 25	81	.34	May 17	76	1.61
Nov. 21	64	.83	June 1	95	.54	June 15	89	.18
Dec. 5	43	.81	June 12	89	.48	Aug. 10	105	.44
Dec. 17	59	.78	June 30	79	.48	Sept. 21	83	.65
Jan. 6, 1959	54	1.08	July 27	85	.63	Oct. 19	82	1.87
Jan. 21	37	.83	Aug. 8	86	.68	Oct. 23	71	.94
Feb. 4	63	1.36	Aug. 17	85	1.55	Dec. 22	44	.92
Feb. 19	39	.72	Oct. 11	81	.91	Jan. 26, 1966	27	1.40
Mar. 11	58	.90	Nov. 8	67	.82	Mar. 2	58	1.30
Mar. 26	56	.73	Dec. 4	60	1.32	Apr. 6	61	.74
Mar. 26	68	.62	Jan. 10, 1962	25	.73	June 8	94	.25
Apr. 7	65	1.34	Feb. 5	54	.81	July 13	85	.21
Apr. 23	82	.86	Mar. 6	64	.83	Aug. 16	93	1.12
May 6	85	.58	Apr. 13	77	1.04	Sept. 21	68	2.58
May 19	103	.71						

BRAZOS RIVER BASIN

8-0820. Salt Fork Brazos River near Aspermont, Tex.

Location.--Lat 33°20', long 100°14', at bridge on U. S. Highway 83, 5½ miles downstream from Salt Croton Creek, and 13.2 miles north of Aspermont, Stone-wall County.

Drainage area.--4,830 sq mi, approximately, of which 2,770 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from October 1948 to September 1951, October 1956 to September 1966. Temperature readings at irregular intervals for the period 1948-66 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1949	Mean	59	45	50	38	45	49	57	67	74	77	73	69
	Max.-Min.	70 44	63 33	65 34	55 32	58 32	54 35	70 40	75 60	80 66	85 71	82 67	80 56
1950	Mean	63	52	49	-	48	54	59	61	71	71	73	66
	Max.-Min.	80 52	70 40	70 34	- -	70 35	70 38	75 42	69 53	85 58	88 60	88 63	80 61
1951	Mean	64	48	39	37	49	47	-	65	71	74	76	72
	Max.-Min.	80 50	59 32	55 32	52 32	63 35	56 32	- -	80 50	80 55	78 68	81 68	79 58
1957	Mean	61	47	45	41	52	51	59	65	72	75	73	68
	Max.-Min.	74 51	66 35	56 34	55 32	69 39	59 38	70 46	81 50	80 61	88 70	89 70	91 59
1958	Mean	59	47	41	38	42	45	54	66	74	74	74	72
	Max.-Min.	70 42	60 34	51 32	45 32	57 32	57 36	65 45	82 50	78 60	83 69	84 67	79 61
1959	Mean	60	50	42	42	45	49	59	66	73	75	74	70
	Max.-Min.	75 50	67 40	49 32	49 33	55 32	65 40	78 44	82 45	91 66	95 70	80 71	85 58
1960	Mean	58	46	44	40	47	45	58	64	73	76	75	71
	Max.-Min.	75 49	67 32	50 38	55 32	52 32	63 32	72 41	85 50	88 68	87 70	91 62	87 64
1961	Mean	63	53	40	42	47	53	60	68	72	76	76	73
	Max.-Min.	78 47	82 39	59 32	56 32	70 38	70 43	82 41	85 52	80 65	85 70	95 67	89 60
1962	Mean	61	-	44	44	46	50	63	71	79	78	76	-
	Max.-Min.	70 51	- -	56 32	65 32	62 36	65 35	78 43	78 60	79 62	96 71	88 68	- -
1963	Mean	62	51	44	37	44	50	64	68	75	80	79	73
	Max.-Min.	75 49	64 41	60 35	50 32	59 33	69 39	84 50	84 56	85 66	94 70	95 70	90 58
1964	Mean	66	53	42	43	45	53	59	68	75	77	75	69
	Max.-Min.	85 56	70 40	61 33	62 32	59 33	75 37	75 46	89 58	90 59	93 65	90 68	85 55
1965	Mean	59	52	48	52	51	52	66	72	81	82	75	72
	Max.-Min.	80 49	75 33	60 32	68 35	68 36	70 33	80 50	85 58	87 67	90 70	89 68	89 59
1966	Mean	69	67	49	44	48	60	61	70	75	81	73	70
	Max.-Min.	80 60	76 53	60 39	63 32	62 35	75 39	78 49	81 53	86 68	96 72	87 57	84 60
1949-66	Mean	62	51	44	42	46	51	60	67	73	77	75	70
	Max.-Min.	85 42	82 32	70 32	68 32	70 32	75 32	84 40	89 45	91 55	96 60	95 57	91 55

BRAZOS RIVER BASIN

8-0825. Brazos River at Seymour, Tex.

Location.--Lat 33°34', long 99°16', at bridge on U. S. Highways 277 and 283, three-quarters of a mile upstream from Wichita Valley Railway bridge, and 1 mile southwest of courthouse in Seymour, Baylor County.

Drainage area.--14,490 sq mi, approximately, of which 9,240 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from August 1959 to September 1966. Temperature readings at irregular intervals for the period 1948-66 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1959	Mean	-	-	-	-	-	-	-	-	-	-	87	78
	Max.-Min.	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	99 77	93 69
1960	Mean	61	53	49	48	53	57	72	-	-	83	83	-
	Max.-Min.	80 37	75 37	58 39	62 38	63 39	73 33	84 58	- -	- -	98 72	95 72	- -
1961	Mean	-	56	-	-	52	60	-	77	78	80	81	79
	Max.-Min.	- -	66 44	- -	- -	71 37	76 46	- -	88 66	90 68	87 72	95 65	88 64
1962	Mean	71	-	-	-	-	-	57	69	76	83	-	-
	Max.-Min.	83 58	- -	- -	- -	- -	- -	68 44	90 60	85 68	94 70	- -	- -
1963	Mean	69	53	45	37	49	60	72	-	82	86	-	83
	Max.-Min.	84 55	70 40	55 32	50 32	60 32	88 40	85 54	- -	93 70	98 76	- -	99 72
1964	Mean	76	58	44	47	-	61	76	-	86	-	-	-
	Max.-Min.	84 63	69 45	54 32	64 32	- -	74 48	87 52	- -	95 68	- -	- -	- -
1965	Mean	-	-	-	54	52	58	72	77	85	-	-	-
	Max.-Min.	- -	- -	- -	66 44	63 38	68 38	83 55	87 66	94 82	- -	- -	- -
1966	Mean	65	59	-	45	52	61	66	76	82	-	79	81
	Max.-Min.	82 54	69 42	- -	56 33	60 37	76 50	80 53	92 51	95 69	- -	89 64	89 73
1959-66	Mean	68	56	46	46	52	58	69	75	82	83	82	80
	Max.-Min.	84 37	75 37	58 32	66 32	71 32	88 33	87 44	92 51	95 68	96 70	99 65	99 64

BRAZOS RIVER BASIN

8-0831. Clear Fork Brazos River near Roby, Tex.

Location.--Lat 32°47'10", long 100°23'15", at bridge on State Highway 70, 3.0 miles north of Roby, Fisher County, and 3.2 miles upstream from Cottonwood Creek,

Drainage area.--216 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 8, 1961	44	1.76	Oct. 3, 1963	72	0.54	July 27, 1965	84	0.11
Dec. 21	48	1.55	Nov. 5	54	.82	Aug. 26	86	.15
Jan. 25, 1962	48	1.53	Dec. 11	43	.84	Oct. 7	72	.08
Feb. 21	60	.93	Jan. 15, 1964	34	.85	Nov. 9	59	91.0
Apr. 4	57	.35	Jan. 27	44	.84	Nov. 9	59	46.0
June 1	72	6.82	Feb. 19	44	1.12	Nov. 29	54	1.41
June 1	79	4.64	Mar. 25	55	1.01	Dec. 14	55	1.79
June 9	68	71.8	Apr. 28	73	1.03	Jan. 20, 1966	41	1.42
June 11	72	74.0	June 2	78	.36	Mar. 30	58	1.06
Oct. 3	74	1.34	Oct. 15	74	.19	May 4	70	2.99
Jan. 17, 1963	38	1.57	Nov. 18	54	.33	June 14	78	.20
Feb. 21	43	1.40	Dec. 22	43	.29	July 20	90	.08
Mar. 28	72	.86	Mar. 2	42	.36	July 20	90	.15
May 3	76	.87	Apr. 7	65	.10	Aug. 23	73	.56
July 17	84	.55	May 11	64	53.0	Sept. 26	85	1.57
Aug. 20	87	.66	May 11	66	37.1			

BRAZOS RIVER BASIN

8-0840. Clear Fork Brazos River at Nugent, Tex.

Location.--Lat 32°41'25", long 99°40'10", at bridge on Farm Road 600 at Nugent, Jones County, 2 miles downstream from Elm Creek, and 4 miles upstream from Deadman Creek.

Drainage area.--2,220 sq mi.

Water temperature records available.--Once-daily readings from October 1948 to August 1953. Temperature readings at irregular intervals for the period 1948-56 are on file in the district office at Austin.

Remarks.--Some regulation by reservoirs in Elm Creek basin and Lakes Sweetwater and Trammel in Sweetwater Creek basin, which have a combined capacity of about 114,700 acre ft.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1949	Mean	62	56	53	40	51	61	66	77	84	87	84	77
	Max.-Min.	67 60	64 46	58 47	50 32	60 36	70 51	76 54	85 68	92 72	91 82	90 77	85 60
1950	Mean	69	58	56	54	58	64	70	76	82	84	85	78
	Max.-Min.	82 55	63 52	61 49	68 42	67 42	74 55	77 60	87 63	89 69	88 76	90 79	85 75
1951	Mean	73	-	44	-	49	57	67	74	81	86	87	81
	Max.-Min.	80 66	- -	58 34	- -	60 34	64 45	78 56	84 66	90 64	90 79	91 82	92 68
1952	Mean	72	55	52	54	55	61	70	76	86	87	90	79
	Max.-Min.	88 59	62 47	69 41	64 42	60 50	74 52	77 60	84 62	91 79	93 77	95 86	88 63
1953	Mean	-	55	50	55	57	66	72	72	85	85	85	-
	Max.-Min.	- -	70 44	55 44	64 39	61 54	74 58	79 64	89 58	- -	92 77	93 75	- -
1949-53	Mean	69	56	51	51	54	62	69	75	83	86	86	79
	Max.-Min.	88 55	70 44	69 34	68 32	67 34	74 45	79 54	89 58	92 64	93 76	95 75	92 60

BRAZOS RIVER BASIN

8-0848. California Creek near Stamford, Tex.

Location.--Lat 32°55'50", long 99°38'30", at bridge on Farm Road 600, 9 miles east of Stamford, Jones County, and 17 miles upstream from Paint Creek.

Drainage area.--465 sq mi.

Water temperature records available.--Once daily readings from October 1952 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1963	Mean	-	56	47	38	-	55	65	71	79	85	-	78
	Max.-Min.	- -	64 45	56 39	47 32	- -	70 41	72 54	78 61	85 72	94 79	- -	95 60
1964	Mean	-	58	47	38	51	64	75	-	-	-	-	-
	Max.-Min.	- -	68 50	- -	55 38	57 40	75 50	82 62	- -	- -	- -	- -	- -
1965	Mean	-	-	51	45	69	75	83	88	92	93	-	-
	Max.-Min.	- -	- -	60 42	- -	69 42	75 45	- -	88 56	92 76	- -	- -	- -
1966	Mean	67	62	53	45	61	62	69	77	83	90	86	76
	Max.-Min.	79 62	67 49	63 45	62 32	61 38	75 45	81 55	89 55	93 77	98 84	95 67	86 67
1963-66	Mean	67	59	50	43	51	59	70	73	82	89	86	77
	Max.-Min.	79 62	68 45	63 39	62 32	69 38	75 41	82 54	89 55	93 72	98 79	95 67	95 60

BRAZOS RIVER BASIN

8-0855. Clear Fork Brazos River at Fort Griffin, Tex.

Location.--Lat 32°56', long 99°13', at bridge on old Fort Griffin-Throckmorton road, half a mile northeast of Fort Griffin, Shackelford County, 5,100 ft upstream from bridge on U. S. Highway 283, and 1.3 miles upstream from Mill Creek.

Drainage area.--3,974 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 27, 1949	74	3,640	Oct. 18, 1955	72	18.3	Mar. 10, 1961	57	16.7
May 28	88	936	May 16, 1956	84	1.96	May 6	90	.10
June 9	83	57.6	May 29	68	301.	June 6	70	3,520
June 21	86	37.4	Nov. 7	59	16.7	July 6	85	98.2
July 7	91	.34	Feb. 7, 1957	52	7,780	Aug. 2	86	249
Sept. 8	65	13.2	Mar. 6	55	7.71	Sept. 6	74	4,120
Oct. 5	78	.87	Apr. 3	63	11.0	Oct. 12	74	43.1
Oct. 26	59	1,100	May 27	74	17,400	Nov. 9	54	46.1
Nov. 2	60	18.1	May 28	78	20,100	Dec. 6	52	53.4
Apr. 29, 1950	77	8.16	June 11	84	744	Jan. 11, 1962	33	34.3
July 14	71	229	June 26	82	171	Feb. 7	49	32.1
July 14	74	143	July 10	86	68.2	Mar. 7	53	26.6
July 14	76	1,180	Sept. 12	70	146	Apr. 11	65	39.4
July 28	82	2,350	Oct. 9	68	90.5	June 13	75	10,200
Aug. 9	83	42.1	Nov. 13	58	47.2	July 11	88	49.5
Aug. 11	86	19.9	Dec. 17	48	10.9	Aug. 8	88	59.3
Sept. 9	73	934	Jan. 27, 1958	46	13.0	Oct. 4	73	85.8
Sept. 21	78	621	Apr. 3	69	25.7	Nov. 15	54	32.0
Oct. 6	77	4.32	May 16	76	169	Dec. 15	42	31.0
May 30, 1951	82	98.2	June 10	91	3.73	Jan. 11, 1963	38	30.0
June 4	70	1,420	June 24	80	130	Jan. 29	35	25.4
June 14	78	2,150	July 9	75	997	Feb. 15	53	29.9
July 10	57	36.5	Aug. 7	86	.51	Mar. 13	54	18.7
May 8, 1952	76	12.3	Sept. 4	85	5.99	Apr. 12	75	21.8
June 4	95	139	Oct. 8	71	22.6	May 8	73	143
May 14	58	229	Nov. 4	58	12.4	June 12	81	469
May 26, 1953	88	2.92	Dec. 3	50	4.70	Dec. 17	44	8.89
July 16	71	6,440	Jan. 8, 1959	39	6.22	Jan. 15, 1964	35	6.21
July 19	76	13,300	Feb. 6	44	5.60	Feb. 19	56	18.7
July 21	76	638	Mar. 12	60	5.54	Mar. 18	58	17.6
July 27	85	32.6	Apr. 9	59	.43	Apr. 15	74	6.20
Aug. 12	92	10.7	May 19	79	41.0	May 11	82	10.2
Aug. 26	82	44.1	July 8	87	125	June 12	87	1.06
Sept. 11	83	.44	Sept. 1	86	.64	Sept. 21	75	4.69
Apr. 16, 1954	59	.15	Nov. 4	66	6.61	Dec. 17	42	7.41
May 6	71	12.6	Dec. 3	52	2.43	Jan. 18, 1965	51	7.27
June 1	76	31.9	Jan. 8, 1960	48	35.4	Feb. 17	41	12.7
June 9	74	563	Feb. 5	47	176	Mar. 19	48	5.43
Nov. 17	54	50.8	Mar. 3	38	21.4	May 14	68	7,070
Feb. 23, 1955	45	.78	Mar. 30	68	8.67	June 17	83	66.8
Mar. 29	58	.81	May 10	70	7.03	Nov. 18	60	24.8
May 19	72	412	July 6	64	3,590	Dec. 16	52	17.0
May 26	76	343	July 12	74	433	Jan. 14, 1966	48	14.6
June 28	85	23.9	Sept. 6	86	.22	Mar. 21	68	12.4
July 14	80	.50	Nov. 2	63	8.75	June 6	85	13.4
Aug. 3	92	2.34	Nov. 3	56	7.52	Aug. 15	84	194
Sept. 28	76	5,720	Jan. 3, 1961	43	8.22	Sept. 20	72	324
Oct. 7	72	453	Feb. 8	39	121			

BRAZOS RIVER BASIN

8-0861. Hubbard Creek near Albany, Tex.

Location--Lat 32°41'25", long 99°09'25", at bridge on Farm Road 601, 1.1 miles downstream from Deep Creek, 3.3 miles upstream from Salt Prong Hubbard Creek, 8.1 miles southeast of Albany, Shackelford County, and about 19 miles upstream from Hubbard Creek Reservoir.

Drainage area--461 sq mi.

Remarks--Once-daily readings from February 1962 to September 1966 are on file in the district office at Austin. Many periods of no flow.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 26, 1962	43	1.62	May 28, 1963	74	20.6	Sept. 23, 1964	74	5.70
Apr. 5	55	122	Nov. 13	62	1.28	May 11, 1965	71	120
Apr. 6	55	53.6	Nov. 13	62	1.30	May 13	67	13,200
June 10	79	563	Dec. 2	49	.34	June 15	76	2.61
Sept. 11	83	7.19	Mar. 11, 1964	47	11.3	Sept. 29	75	.50
Sept. 12	79	5.90	Mar. 17	59	.45	Oct. 26	64	.78
Sept. 20	85	.17	Aug. 25	80	6.15	May 24, 1966	79	.65
Sept. 20	85	.24	Sept. 21	73	61.0	Sept. 13	80	10.0
Nov. 1	63	2.78						

BRAZOS RIVER BASIN

8-0861.5. North Fork Hubbard Creek near Albany, Tex.

Location--Lat 32°42'20", long 99°16'20", at bridge on U. S. Highway 380, 1.6 miles upstream from Salt Prong Hubbard Creek, and 1.7 miles southeast of Albany, Shackelford County.

Drainage area--38.4 sq mi.

Water temperature records available--Once-daily readings from November 1962 to September 1966.

Remarks--Mean temperatures computed for months with at least ten days of flow.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1963	Mean	-	57	51	41	50	57	66	71	79	80	77	73
	Max.-Min.	- -	64 50	59 44	54 32	61 38	70 48	74 55	77 63	84 73	84 77	85 74	78 58
1964	Mean	65	55	42	42	46	55	67	73	78	81	-	72
	Max.-Min.	71 63	64 45	58 34	56 33	52 42	68 47	81 55	80 66	88 66	92 76	- -	80 65
1965	Mean	63	56	45	49	47	48	64	63	55	63	76	71
	Max.-Min.	70 56	68 43	53 36	60 42	52 34	58 32	73 53	72 58	74 64	75 59	72 72	76 64
1966	Mean	63	57	49	41	43	53	61	65	69	80	75	72
	Max.-Min.	72 56	60 46	56 42	54 32	54 34	64 42	68 54	74 58	76 64	86 76	80 66	74 68
1963-66	Mean	64	56	46	43	46	53	64	68	70	76	76	72
	Max.-Min.	72 56	68 43	59 34	60 32	61 34	70 39	81 53	80 58	88 64	92 59	85 66	80 58



BRAZOS RIVER BASIN

8-0863. Big Sandy Creek near Breckenridge, Tex.

Location.--Lat 32°39'52", long 99°00'01", at bridge on Farm Road 576, 1.5 miles downstream from Battle Creek, 8.2 miles southwest of Breckenridge, Stephens County, and about 13 miles upstream from Hubbard Creek Reservoir.

Drainage area.--298 sq mi.

Remarks.--Daily readings for the period April 1962 to September 1966 are on file in the district office at Austin.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 25, 1962	49	0.03	May 28, 1963	78	135	Jan. 19, 1965	37	0.06
Mar. 20	60	1.64	Nov. 13	60	.92	May 11	68	19.1
Apr. 5	56	8.40	Dec. 2	48	.10	May 14	72	1,020
Apr. 6	54	.93	Feb. 5, 1964	45	142	May 18	71	98.7
May 9	98	--	Mar. 10	45	39.2	June 15	83	2.27
June 11	75	63.3	Mar. 17	72	.44	Sept. 23	72	29.9
June 11	81	48.6	Aug. 25	82	5.53	Oct. 26	68	.12
June 13	74	130	Oct. 6	63	.24	May 24, 1966	75	.13
Sept. 12	60	3.27	Nov. 10	61	.20	July 6	85	.10
May 23	60	191	Nov. 20	48	98.3	Sept. 13	81	2.03

BRAZOS RIVER BASIN

8-0865. Hubbard Creek near Breckenridge, Tex.

Location.--Lat 32°50'15", long 98°57'00", near right bank on downstream side of pier of bridge on U. S. Highway 183, 1 mile downstream from Hubbard Creek Reservoir, 6.8 miles northwest of Breckenridge, Stephens County, 7 miles upstream from Gonzales Creek, and 8 miles upstream from Clear Fork Brazos River.

Drainage area.--1,111 sq mi, of which 1,107 sq mi is above Hubbard Creek Dam.

Water temperature records available.--Once-daily readings from April 1955 to September 1966.

Remarks.--Many periods of no flow. Mean temperatures computed for months with at least 10 days of flow. Flow regulated by Hubbard Creek Reservoir since September 1962.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1955	Mean	-	-	-	-	-	-	-	74	75	82	81	76
	Max.-Min.	-	-	-	-	-	-	-	78 67	80 64	84 79	84 77	79 74
1956	Mean	65	51	42	42	48	54	62	73	79	80	78	74
	Max.-Min.	76 54	57 40	46 35	53 35	63 35	67 44	73 52	78 64	81 75	82 78	81 73	77 65
1957	Mean	65	51	44	43	51	53	62	69	77	82	82	74
	Max.-Min.	78 57	66 40	53 40	52 34	58 41	58 45	78 49	76 63	89 69	87 78	85 79	80 68
1958	Mean	62	51	49	45	46	51	62	69	72	81	82	74
	Max.-Min.	70 51	61 42	67 40	48 41	53 39	55 47	68 56	77 53	76 65	73 58	65 52	55 41
1959	Mean	-	-	-	-	49	-	-	72	79	81	82	-
	Max.-Min.	-	-	-	-	55 41	-	-	80 60	82 73	87 75	84 80	-
1960	Mean	64	49	47	46	46	50	64	71	-	78	-	-
	Max.-Min.	75 52	68 40	55 42	57 37	52 39	64 37	69 58	78 65	-	87 70	-	-
1961	Mean	60	50	36	37	43	52	53	-	66	69	-	60
	Max.-Min.	67 46	57 41	47 32	48 32	53 32	65 43	65 43	-	79 58	78 64	-	68 52
1962	Mean	54	40	34	32	38	39	53	74	76	81	80	74
	Max.-Min.	61 48	59 35	41 32	33 32	44 32	48 32	73 40	78 66	82 70	85 74	83 75	78 69
1963	Mean	72	56	48	39	44	55	68	72	78	81	81	78
	Max.-Min.	77 62	62 50	58 40	53 32	58 33	68 46	77 59	78 66	81 71	84 78	83 80	86 69
1964	Mean	69	58	43	42	47	54	63	-	-	-	-	77
	Max.-Min.	72 61	65 49	52 35	54 35	50 43	63 47	72 53	-	-	-	-	82 70
1965	Mean	-	-	-	-	51	-	72	75	-	-	-	-
	Max.-Min.	-	-	-	-	58 41	-	78 63	83 66	-	-	-	-
1966	Mean	69	62	-	-	-	-	-	73	-	-	-	77
	Max.-Min.	79 61	70 49	-	-	-	-	-	82 55	-	-	-	84 70
1955-66	Mean	64	52	43	41	46	51	62	72	75	78	78	71
	Max.-Min.	79 64	70 35	67 32	57 32	63 32	68 32	78 40	83 53	89 58	87 58	85 52	86 41

## BRAZOS RIVER BASIN

8-0873. Clear Fork Brazos River at Eliasville, Tex.

Location.--Lat 32°57'30", long 98°46'10", at old mill dam, 180 ft upstream from bridge on Farm Road 1974, and 400 ft northwest of Eliasville, Young County.

Drainage area.--5,721 sq mi.

Water temperature records available.--Once-daily readings from October 1961 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1962	Mean	67	54	47	42	53	53	65	75	78	83	83	81
	Max.-Min.	72 62	69 49	55 42	63 33	61 45	62 40	75 56	78 68	85 71	86 75	86 78	81 71
1963	Mean	71	56	49	40	43	51	62	67	78	88	84	79
	Max.-Min.	79 61	61 50	58 41	52 32	47 39	63 41	69 54	74 59	83 73	98 81	88 80	83 70
1964	Mean	68	58	44	42	47	56	68	76	82	84	85	90
	Max.-Min.	73 63	68 50	50 36	48 32	50 45	62 48	75 60	81 65	90 70	85 82	100 64	90 69
1965	Mean	66	59	47	50	49	51	69	73	83	86	82	74
	Max.-Min.	74 62	68 50	53 43	58 47	59 45	68 39	79 56	79 66	88 78	92 83	88 80	88 70
1966	Mean	66	60	53	50	47	59	66	73	81	86	90	82
	Max.-Min.	76 58	67 48	60 48	60 38	54 37	68 50	74 62	86 73	84 75	91 80	90 74	82 72
1962-66	Mean	68	57	48	45	48	54	66	73	80	85	83	77
	Max.-Min.	79 58	69 48	60 36	63 32	61 37	68 39	79 54	86 59	90 70	98 75	100 64	90 69

## BRAZOS RIVER BASIN

8-0880. Brazos River near South Bend, Tex.

Location.--Lat 33°01'30", long 98°38'50", at bridge on State Highway 67, 0.3 mile upstream from Wichita Falls and Southern Railroad bridge, 1.6 miles downstream from Clear Fork Brazos River, and 2.0 miles northeast of South Bend, Young County.

Drainage area.--21,600 sq mi, approximately, of which 9,240 sq mi is probably noncontributing.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 3, 1949	75	100	Oct. 26, 1953	61	19,900	Mar. 3, 1960	45	62.2
Oct. 17	74	35.0	Oct. 27	59	17,300	Mar. 31	63	65.2
Nov. 3	59	269	Nov. 2	63	885	May 11	73	36.6
Nov. 25	60	36.2	Dec. 2	65	111	July 6	64	34.3
Dec. 6	58	27.2	Jan. 4, 1954	52	48.8	July 7	65	6,280
Dec. 19	53	34.2	Feb. 15	60	26.7	July 11	74	7,960
Jan. 3, 1950	67	37.7	Mar. 15	56	10.9	Sept. 8	93	15.3
Jan. 23	59	31.6	May 17	66	2,280	Oct. 6	82	20.4
Feb. 8	59	26.4	May 19	63	7,950	Dec. 5	94	193
Mar. 8	58	16.9	May 26	64	16,900	Jan. 4, 1961	42	193
Mar. 27	60	7.31	June 2	72	1,360	Feb. 9	42	695
May 18	78	2,880	Nov. 16	54	4,060	Mar. 8	59	139
May 25	82	526	Nov. 16	56	2,220	Apr. 7	60	143
June 12	88	413	Dec. 15	46	5.06	May 5	71	7,930
July 21	83	1,580	Jan. 17, 1955	53	15.3	May 8	78	946
Aug. 2	85	9,140	Feb. 23	42	55.4	May 9	80	684
Aug. 9	86	383	Mar. 29	51	201	May 12	84	229
Aug. 24	84	538	Apr. 25	77	108	June 6	74	5,270
Sept. 7	73	14,600	July 13	89	98.9	June 7	74	11,900
Sept. 9	76	4,200	Aug. 2	87	587	June 7	76	16,700
Sept. 21	80	1,160	Aug. 17	79	79.0	June 9	75	8,720
Sept. 25	74	823	Sept. 6	92	18.2	June 9	76	10,400
Oct. 3	74	642	Sept. 19	82	18.0	June 18	69	13,000
Oct. 12	73	187	Oct. 2	78	3,510	July 7	88	482
Dec. 14	50	46.2	Nov. 7	51	283	July 20	83	2,500
Feb. 7, 1951	59	32.9	Nov. 22	64	183	Oct. 13	77	136
Mar. 19	61	22.1	Dec. 20	43	136	Nov. 7	54	508
May 9	84	39.3	Jan. 17, 1956	39	114	Dec. 7	49	144
May 29	82	1,380	Feb. 21	58	86.0	Jan. 5, 1962	38	92.0
May 30	86	769	Mar. 20	54	38.3	Feb. 7	53	67.2
June 2	80	246	Apr. 17	66	17.0	Mar. 6	51	50.2
June 17	82	14,900	May 17	84	163	Apr. 11	58	89.7
June 29	85	139	June 5	84	244	May 9	77	56.7
Aug. 24	82	4,940	July 9	90	3.50	June 13	78	10,900
Sept. 7	92	40.6	Nov. 6	63	554	July 12	90	111
Sept. 12	80	364	Jan. 9, 1957	59	8.06	Aug. 7	85	563
Sept. 25	78	24.0	Feb. 5	50	10.5	Sept. 12	72	13,500
Oct. 3	88	11.2	Feb. 7	56	16,500	Oct. 5	72	447
Nov. 1	49	3.31	Feb. 7	57	17,700	Nov. 15	58	341
Dec. 6	63	.54	Feb. 8	55	16,900	Dec. 15	52	376
Mar. 5, 1952	62	5.67	Feb. 8	57	21,300	Jan. 10, 1963	53	133
Mar. 31	82	1.06	Feb. 9	57	20,400	Jan. 28	33	88.1
May 5	88	107	Feb. 9	57	19,300	Feb. 16	40	107
May 20	79	222	Feb. 19	54	194	Mar. 12	65	88.2
June 3	80	341	Mar. 5	57	98.7	Apr. 11	69	148
June 16	86	25.2	Apr. 3	63	65.2	Apr. 27	78	4,900
June 30	93	.81	Apr. 4	63	232	July 17	88	287
July 18	77	171	May 6	68	16,000	Aug. 16	93	73.0
July 18	83	1,440	May 7	67	5,080	Sept. 11	93	60.0
July 19	78	884	May 21	74	12,300	Oct. 11	66	36.5
July 23	85	158	May 30	76	18,200	Dec. 18	38	205
July 30	89	32.4	June 14	81	3,460	Jan. 16, 1964	40	80.3
Aug. 14	98	.11	July 9	92	262	Feb. 20	46	70.8
Dec. 1	51	14.9	Aug. 19	89	105	Mar. 16	68	37.1
Jan. 12, 1953	61	2.61	Sept. 12	77	918	Apr. 15	60	23.4
Mar. 3	63	.28	Oct. 9	66	6,800	May 15	72	93.9
Apr. 16	69	5.93	Oct. 15	64	11,600	June 10	90	30.7
Apr. 27	76	31.6	Dec. 16	59	104	July 16	91	1.22
May 13	61	7,170	Jan. 27, 1958	52	90.6	Aug. 18	89	263
May 13	60	6,210	Feb. 24	58	88.3	Sept. 22	78	338
May 14	55	2,600	Apr. 4	72	162	Oct. 26	69	15.3
May 15	61	1,260	June 9	91	79.1	Dec. 21	49	28.1
May 19	74	813	June 24	80	745	Jan. 20, 1965	53	20.0
May 21	80	240	July 8	76	16,400	Feb. 17	46	30.7
May 26	88	38.6	July 16	83	194	Mar. 11	51	15.8
June 16	93	.42	Sept. 4	87	42.8	Mar. 17	65	8.23
July 2	80	15,700	Oct. 1	70	370	Apr. 14	81	5.18
July 3	80	8,830	Oct. 7	82	170	Apr. 15	73	510
July 3	86	5,080	Nov. 4	63	51.7	May 15	68	17,100
July 6	85	192	Dec. 2	60	42.4	June 17	84	961
July 16	76	2,720	Jan. 7, 1959	52	20.7	July 22	87	9.57
July 17	74	4,990	Mar. 13	53	8.51	Aug. 12	87	3.74
July 21	74	16,200	Apr. 10	59	3.44	Oct. 14	77	52.1
July 22	78	14,500	Apr. 22	65	206	Nov. 18	55	107
July 22	78	12,800	May 7	77	7.35	Jan. 12, 1966	57	53.2
Aug. 11	89	340	May 12	69	4,360	Mar. 17	66	107
Sept. 18	80	26.3	May 20	77	168	May 12	68	428
Oct. 1	83	5.81	Aug. 6	95	89.7	June 9	76	47.8
Oct. 8	66	1,230	Sept. 2	78	30.4	Aug. 3	89	3.25
Oct. 15	78	209	Oct. 8	67	2,370	Sept. 1	70	15,300

## BRAZOS RIVER BASIN

8-0881. Salt Creek at Olney, Tex.

Location--Lat 33°22'15", long 98°44'30", at bridge on State Highway 199 and 0.5 mile east of Olney, Young County.Drainage area--9.6 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 27, 1958	79	0.39	May 10, 1959	66	36.7	Apr. 10, 1962	68	0.01
May 3	64	32.6	May 10	66	60.0	Sept. 7	75	327
July 7	75	4.01	May 11	62	.39	May 8	71	.22
July 23	72	13.8	June 23	83	12.7	Mar. 17	68	.02
Sept. 16	75	125	Oct. 4	61	24.4	May 15	71	.04
Nov. 17	59	.22	Feb. 9, 1961	45	.89	Sept. 21	69	2.84
May 8, 1959	70	.76	Nov. 22	51	76.1	May 16	68	4.61

## BRAZOS RIVER BASIN

8-0683. Briar Creek near Graham, Tex.

Location--Lat 33°12'40", long 98°37'05", at bridge on Farm Road 1769, 2.5 miles upstream from mouth, and 7.0 miles northwest of Graham, Young County.Drainage area--19.7 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 27, 1959	69	9.74	Oct. 4, 1959	63	42.7	Sept. 11, 1962	69	0.60
Apr. 30	50	286	Jan. 7, 1960	40	3.25	May 8, 1963	71	.25
May 3	65	62.5	Feb. 4	48	51.7	Aug. 17, 1964	76	11.9
May 10	67	5.54	Feb. 9, 1961	40	3.59	May 19, 1965	72	52.8
May 12	82	.06	Mar. 20, 1962	64	171	Apr. 12, 1966	63	9.25
June 23	74	47.5	Apr. 10	62	.20	Apr. 25	63	55.4
July 20	82	.10	June 9	72	149			

BRAZOS RIVER BASIN

8-0866. Brazos River at Possum Kingdom Dam, near Graford, Tex.

Location.--Lat 32°52', long 98°26', immediately below Possum Kingdom Dam, 11.3 miles west of Graford, Palo Pinto County.

Drainage area.--22,550 sq mi, of which 9,240 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from October 1949 to September 1955; October 1964 to September 1966.

Remarks.--Temperature readings at irregular intervals for the period 1948-56 were obtained at the gaging station 20 miles downstream from the dam, these readings are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1950	Mean	71	65	59	53	51	51	55	57	61	63	72	74
	Max.-Min.	72 69	69 60	61 55	55 50	52 50	57 50	56 54	58 56	64 59	65 62	75 65	76 71
1951	Mean	74	67	55	49	45	47	52	56	58	-	72	-
	Max.-Min.	76 73	74 60	60 49	50 49	46 45	48 46	54 48	58 54	62 57	- -	76 71	- -
1952	Mean	-	-	-	-	-	53	55	58	62	65	71	68
	Max.-Min.	- -	- -	- -	- -	- -	53 52	58 53	58 57	64 58	68 61	73 68	73 65
1953	Mean	64	62	54	50	51	53	58	59	67	69	71	71
	Max.-Min.	67 62	64 61	61 51	51 50	51 50	55 50	60 57	63 56	71 62	74 66	72 67	73 67
1954	Mean	71	65	56	50	50	51	51	57	64	65	68	68
	Max.-Min.	75 69	69 60	60 51	51 48	51 48	53 50	53 50	63 57	65 63	68 64	70 66	70 67
1955	Mean	69	64	57	52	49	49	54	57	63	67	72	72
	Max.-Min.	70 66	66 61	60 52	54 49	51 47	50 47	58 50	57 52	67 58	69 64	74 69	73 70
1965	Mean	63	63	59	55	50	51	55	58	63	62	-	64
	Max.-Min.	64 62	64 62	62 57	58 53	53 49	56 49	59 52	60 54	66 60	73 59	- -	65 64
1966	Mean	65	65	61	58	51	52	55	63	67	66	67	70
	Max.-Min.	68 64	68 63	62 60	60 56	56 49	59 49	59 50	68 50	70 64	74 64	67 65	74 65
1950-55	Mean	68	64	57	52	50	51	54	58	63	65	70	70
1965-66	Max.-Min.	76 62	74 60	62 49	60 48	56 45	59 46	60 48	68 50	71 57	64 59	76 65	76 64

BRAZOS RIVER BASIN

8-0905. Palo Pinto Creek near Santo, Tex.

Location.--Lat 32°37'50", long 98°10'50", 0.5 mile upstream from The Texas and Pacific Railway Co. bridge, 2.4 miles downstream from Big Sunday Creek, 2.6 miles northeast of Santo, Palo Pinto County, 2.8 miles upstream from Wusser Creek, 4.4 miles upstream from Buck Creek, and 7.9 miles upstream from mouth.

Drainage area.--567 sq mi.

Remarks.--Flow largely controlled since January 1964 by Lake Palo Pinto located about 9.5 miles upstream.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 13, 1951	77	0.10	Feb. 25, 1959	47	0.97	Nov. 29, 1962	57	32.2
Apr. 27	78	1.34	Apr. 3	67	.28	Jan. 4, 1963	48	5.36
May 8	78	2.50	Apr. 27	75	.48	Mar. 21	70	2.61
May 23	71	149	June 5	78	262	Apr. 25	79	.39
June 27	84	1.81	July 4	87	8.67	May 28	68	5,920
May 2, 1952	64	39.1	July 27	84	5.49	May 31	71	460
May 19	63	165	Sept. 4	83	8.37	July 8	96	.19
May 21	74	23.8	Oct. 2	70	360	Sept. 5	96	.33
May 20, 1953	75	8.57	Nov. 17	46	8.67	Nov. 21	60	32.0
July 18	75	3,140	Jan. 18, 1960	47	94.6	Dec. 18	42	.07
July 29	92	.70	Feb. 22	51	23.7	Jan. 23, 1964	57	.03
Aug. 26	81	16.4	Mar. 28	62	25.8	Feb. 5	46	45.9
Mar. 16, 1955	63	2.18	May 2	68	20.2	Mar. 4	55	5.94
Apr. 13	61	63.4	June 6	84	4.61	Mar. 30	64	.31
Sept. 27	81	15.7	July 17	85	32.1	Oct. 2	86	.09
May 17, 1956	79	.29	Aug. 23	83	28.2	Dec. 5	42	.06
Dec. 31	54	.98	Mar. 2, 1961	56	12.4	Feb. 8, 1965	45	.02
Feb. 18, 1957	55	1.22	June 14	81	2.19	Mar. 12	54	1.41
Nov. 26	46	224	July 20	84	5.12	Apr. 19	78	.37
Dec. 31	50	11.3	Nov. 2	62	.01	May 16	69	1,380
Feb. 3, 1958	49	11.2	Dec. 7	53	.23	May 21	74	271
Mar. 13	46	280	Jan. 12, 1962	45	.03	June 28	78	.99
May 14	74	55.0	Feb. 16	68	.03	July 30	88	14.6
July 1	88	5.26	Mar. 23	66	.07	Sept. 2	81	.77
July 8	76	399	May 2	72	1.75	Oct. 5	65	16.8
July 17	95	17.0	June 6	87	.08	Nov. 9	61	3.63
Sept. 23	82	5.70	June 10	72	4,300	Jan. 19, 1966	41	.18
Oct. 21	71	.93	June 10	72	3,660	Feb. 22	41	.18
Nov. 17	64	1.33	Aug. 15	85	6.36	June 7	81	4.85
Dec. 15	39	1.17	Sept. 19	79	30.6	Aug. 23	82	1.00
Jan. 19, 1959	48	1.05	Oct. 24	66	10.8	Sept. 27	76	5.88

BRAZOS RIVER BASIN

8-0910. Brazos River near Glen Rose, Tex.

Location.--Lat 32°16'15", long 97°39'45", at bridge on U. S. Highway 67, 600 ft downstream from Georges Creek, 4.4 miles upstream from Paluxy Creek, and 2 miles northeast of Glen Rose, Somervell County.

Drainage area.--24,830 sq mi, approximately, of which 9,240 sq mi is probably noncontributing.

Remarks.--Flow since 1941 largely regulated by Possum Kingdom Reservoir except during major floods, and by several smaller reservoirs in Clear Fork, Hubbard Creek, and other basins, having a combined capacity of about 1,298,000 acre-ft.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 17, 1950	56	482	July 29, 1953	90	344	Aug. 24, 1960	92	278
Jan. 31	42	232	Aug. 26	87	150	Sept. 28	75	522
Feb. 16	66	714	Sept. 29	79	1,110	Dec. 6	64	956
Mar. 16	60	364	Dec. 1	58	325	Feb. 26, 1961	53	1,140
Apr. 18	63	5,270	Jan. 6, 1954	50	161	Apr. 12	60	675
May 25	85	576	Feb. 2	59	747	July 19	79	3,630
June 1	79	2,810	Mar. 9	58	805	Aug. 22	84	1,160
June 21	86	557	Mar. 30	65	69.6	Sept. 26	75	1,210
July 15	80	6,790	May 16	67	22,000	Oct. 31	72	1,010
July 18	84	2,980	Aug. 25	90	498	Dec. 5	58	231
July 28	78	20,400	Sept. 30	81	119	Jan. 9, 1962	35	106
Sept. 18	80	4,650	Nov. 3	50	80.7	Feb. 13	60	552
Oct. 2	79	2,620	Dec. 6	59	46.5	Mar. 21	61	274
Oct. 2	79	2,620	Jan. 5, 1955	64	52.9	May 3	74	210
Nov. 6	56	711	Feb. 9	56	202	June 5	85	45.8
Dec. 4	49	543	Apr. 19	68	344	July 11	87	561
Dec. 28	44	302	Sept. 8	80	241	Oct. 23	68	1,710
Jan. 9, 1951	40	1,040	Sept. 28	78	40,700	Nov. 27	58	484
Feb. 8	51	428	Sept. 29	79	41,300	Jan. 2, 1963	51	1,040
Feb. 28	66	224	Jan. 26, 1956	47	353	Feb. 11	46	746
Mar. 7	72	210	Feb. 28	61	944	Mar. 20	71	105
Mar. 13	52	203	Mar. 30	69	301	Apr. 23	72	67.3
Mar. 22	70	90.8	May 16	77	1,050	May 29	85	585
Apr. 16	67	82.1	June 25	89	84.6	July 2	91	2,810
May 1	76	1,170	July 31	85	956	July 31	90	930
May 23	76	875	Aug. 31	89	207	Sept. 4	90	509
June 27	96	916	Nov. 2	62	47.5	Oct. 9	74	91.6
July 23	91	1,300	Aug. 28, 1957	88	1,070	Nov. 20	61	91.6
Aug. 20	84	1,330	Oct. 1	77	366	Dec. 17	47	55.7
Sept. 10	84	1,300	Nov. 21	51	1,380	Mar. 5, 1964	58	173
Oct. 8	69	869	Dec. 20	55	901	Apr. 1	74	79.4
Oct. 25	66	208	Feb. 3, 1958	50	963	Apr. 30	76	267
Nov. 14	66	277	Mar. 12	48	1,340	June 9	92	94.0
Dec. 10	44	201	Apr. 17	56	569	July 14	84	29.5
Jan. 8, 1952	56	351	May 16	70	3,190	Aug. 20	84	521
Feb. 5	56	168	June 19	91	552	Sept. 30	72	242
Mar. 10	61	80.0	Sept. 25	81	357	Nov. 4	65	220
Mar. 12	65	55.2	Oct. 22	70	680	Dec. 1	54	216
Mar. 18	66	82.4	Nov. 20	57	350	Jan. 5, 1965	66	110
Apr. 14	67	608	Dec. 17	41	189	Feb. 3	45	174
May 21	74	938	Jan. 20, 1959	61	93.3	Mar. 9	63	171
June 17	83	308	Feb. 24	56	74.2	Apr. 13	77	627
July 16	87	199	Apr. 1	64	67.1	May 18	68	14,700
Aug. 4	87	966	Apr. 29	74	133	June 23	89	815
Aug. 20	89	793	June 3	79	878	July 28	86	1,180
Sept. 4	85	64.4	July 29	83	2,760	Sept. 4	83	846
Sept. 16	86	10.6	Sept. 3	81	64.8	Oct. 7	69	107
Oct. 27	53	.56	Sept. 30	76	795	Nov. 11	64	171
Oct. 28	53	.35	Nov. 11	59	304	Dec. 16	57	296
Nov. 18	62	32.5	Dec. 17	49	568	Jan. 26, 1966	43	110
Dec. 15	47	44.2	Jan. 20, 1960	36	847	Feb. 25	46	111
Jan. 28, 1953	54	34.7	Feb. 25	36	731	Mar. 31	75	187
Mar. 8	61	12.0	Mar. 30	64	389	May 1	57	41,200
May 20	77	758	May 4	76	328	June 10	89	121
June 22	96	22.2	June 9	88	212	Aug. 26	79	187

BRAZOS RIVER BASIN

8-0915. Paluxy Creek at Glen Rose, Tex.

Location.--Lat 32°13'50", long 97°46'30", at abandoned highway bridge, 500 ft upstream from bridge on U. S. Highway 67, 1 mile upstream from Cross Branch, 1.2 miles southwest of Glen Rose, Somervell County, and 4.7 miles upstream from mouth.

Drainage area.--399 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 16, 1948	67	11.6	Mar. 9, 1954	66	5.26	Jan. 17, 1961	46	106
Jan. 19, 1949	37	12.2	Mar. 30	64	6.55	Mar. 1	54	110
Feb. 23	58	21.8	May 4	76	11.1	Apr. 12	62	49.9
Mar. 21	60	124	Nov. 4	49	5.05	Aug. 22	86	11.8
May 17	70	3,530	Dec. 7	46	3.52	Sept. 26	80	8.50
July 13	92	21.3	Jan. 5, 1955	65	4.96	Oct. 31	77	33.2
Aug. 9	88	11.6	Feb. 9	46	6.75	Dec. 5	58	41.6
Sept. 13	76	6.63	Mar. 16	62	10.4	Jan. 10, 1962	32	56.8
Nov. 17	49	11.6	Apr. 14	62	33.9	Feb. 14	67	27.7
Dec. 14	45	14.6	Apr. 15	76	17.5	Mar. 20	66	27.2
Jan. 17, 1950	61	27.8	May 17	83	116	May 3	65	27.1
Feb. 16	68	62.4	Sept. 23	74	16,000	June 5	89	10.4
Mar. 16	66	28.6	Oct. 11	76	4.19	July 11	93	5.18
Apr. 18	70	93.8	Oct. 31	65	4.12	Sept. 16	82	5.55
May 25	85	25.6	Jan. 25, 1956	50	6.62	Oct. 23	73	25.0
June 21	78	16.7	Feb. 28	60	6.37	Nov. 28	59	115
July 18	89	22.6	Mar. 30	59	5.94	Jan. 3, 1963	48	27.8
Sept. 18	88	18.1	Apr. 2	75	4.94	Mar. 21	59	15.6
Oct. 2	84	14.1	May 16	73	18.6	Apr. 24	67	10.9
Nov. 6	64	8.67	June 25	64	.70	May 30	76	80.0
Dec. 4	54	11.8	Aug. 31	76	53.2	July 2	89	6.47
Jan. 9, 1951	47	9.25	Nov. 2	61	1.40	Aug. 5	90	.29
Feb. 8	59	11.1	Nov. 26	53	1.45	Sept. 4	91	.20
Feb. 9	48	12.3	Jan. 1, 1957	44	6.62	Oct. 9	81	.39
Mar. 13	58	8.86	Feb. 20	58	6.87	Nov. 20	64	6.01
Apr. 16	71	8.18	Apr. 11	61	8.53	Dec. 17	45	8.14
May 23	80	90.7	Nov. 21	50	40.3	Jan. 22, 1964	50	11.3
June 27	94	12.1	Dec. 20	49	39.5	Feb. 5	51	79.5
July 23	92	1.88	Jan. 30, 1958	56	66.5	Apr. 2	71	19.8
Sept. 11	80	.28	Mar. 12	48	128	Apr. 21	66	4,360
Oct. 8	64	.15	May 23	78	77.2	Apr. 21	66	2,080
Nov. 14	66	2.97	June 20	82	24.9	May 1	73	43.6
Dec. 10	45	5.54	July 17	91	15.8	June 9	90	5.50
Jan. 8, 1952	57	7.07	Sept. 24	90	20.4	July 14	80	.81
Feb. 5	55	6.94	Oct. 22	68	82.7	Aug. 20	80	35.2
Mar. 10	62	10.9	Nov. 20	48	10.4	Sept. 30	75	14.2
Apr. 14	72	15.7	Dec. 16	44	10.8	Nov. 3	73	5.29
May 2	67	361	Jan. 21, 1959	41	10.5	Dec. 2	55	16.0
May 21	70	18.4	Feb. 25	48	11.1	Jan. 6, 1965	55	15.0
June 17	93	11.2	Apr. 2	55	7.94	Feb. 4	45	20.0
July 17	79	2.73	Apr. 28	83	12.6	Mar. 10	55	42.1
Aug. 4	84	2.06	June 3	77	72.0	Apr. 14	71	23.4
Oct. 28	57	.07	July 2	91	10.8	May 17	68	923
Nov. 18	69	2.47	July 28	92	13.1	June 23	83	25.8
Dec. 16	42	5.79	Sept. 3	79	11.6	July 28	88	3.69
Jan. 28, 1953	42	6.44	Sept. 30	71	29.7	Sept. 4	92	1.69
Mar. 8	61	6.01	Nov. 10	53	44.2	Oct. 8	66	4.91
Apr. 17	61	6.48	Dec. 16	51	131	Nov. 12	62	13.8
May 20	76	29.8	Jan. 20, 1960	44	139	Dec. 17	45	10.2
July 30	83	9.68	Feb. 24	39	78.0	Jan. 26, 1966	37	14.6
Aug. 14	88	14.0	Mar. 30	72	46.8	Feb. 24	55	15.8
Aug. 27	87	1.80	June 8	83	206	Mar. 31	75	17.1
Sept. 4	80	46.0	July 13	90	8.09	May 5	70	130
Sept. 29	82	.20	Aug. 25	84	9.80	Aug. 25	79	16.4
Dec. 1	59	6.39	Sept. 29	73	6.51	Sept. 30	77	12.4
Jan. 6, 1954	51	6.59	Dec. 7	62	14.8			

BRAZOS RIVER BASIN

8-0920. Nolands River at Elum, Tex.

Location.--Lat 32°09'02", long 97°24'10", at bridge on Farm Road 933, 0.6 mile northwest of Elum, Hill County, 2.8 miles downstream from Mustang Creek, 3.0 miles downstream from Gulf, Colorado and Santa Fe Railway Co. bridge, and 3.2 miles upstream from Rock Creek.

Drainage area.--276 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 24, 1949	62	920	Mar. 11, 1954	70	1.28	Dec. 5, 1960	66	2.81
May 26	73	2,850	May 5	81	1.36	Jan. 11, 1961	46	105
July 8	92	15.9	Aug. 3	94	1.46	Feb. 27	57	96.9
July 19	84	6.15	Nov. 5	51	5.66	June 12	84	4.64
Aug. 9	93	2.98	Nov. 29	56	.66	July 17	74	268
Sept. 14	65	.83	Jan. 3, 1955	61	1.73	Aug. 21	89	3.78
Nov. 16	62	1.72	Feb. 2	50	1.36	Sept. 25	75	2.61
Dec. 14	44	3.80	Apr. 15	80	5.67	Oct. 30	72	15.3
Jan. 17, 1950	55	23.7	Sept. 9	89	.46	Dec. 4	63	28.1
Feb. 16	61	114	Nov. 9	51	.76	Jan. 6, 1962	43	28.3
Mar. 16	56	43.7	Nov. 28	46	.79	Feb. 12	59	19.0
Apr. 18	80	112	Jan. 27, 1956	66	2.80	Mar. 9	63	17.8
Apr. 19	58	1,660	Mar. 1	67	1.77	Apr. 24	74	14.4
May 2	64	980	Apr. 4	74	1.43	June 4	74	4.58
May 22	85	29.1	Apr. 24	80	.63	July 9	98	9.22
June 21	78	219	May 2	69	2.46	Aug. 13	85	2.76
July 20	96	3.00	May 16	89	1.18	Sept. 17	91	5.99
Sept. 20	78	338	Mar. 7, 1957	51	1.73	Oct. 10	74	31.4
Oct. 4	77	1.14	Apr. 14	59	3.26	Oct. 22	68	7.99
Nov. 8	67	1.16	June 19	86	24.7	Nov. 26	62	18.6
Dec. 6	36	1.14	July 5	96	9.66	Jan. 2, 1963	49	17.8
Jan. 11, 1951	49	1.88	Sept. 30	78	1.64	Feb. 11	42	11.8
Feb. 10	64	1.92	Nov. 22	47	46.8	Mar. 19	74	10.3
Mar. 15	67	1.62	Dec. 21	57	38.6	Apr. 22	75	4.26
Apr. 18	71	.86	Jan. 27, 1958	50	88.0	May 28	78	7.71
June 3	65	6,480	Mar. 10	58	100	July 1	88	7.96
June 20	93	20.4	Apr. 14	57	373	July 29	96	.05
Sept. 12	88	2.70	May 3	61	3,780	Sept. 3	97	.39
Oct. 10	73	.48	May 19	80	57.3	Oct. 7	82	2.31
Nov. 16	53	.16	June 16	85	9.36	Dec. 16	39	3.16
Dec. 12	45	1.16	July 15	84	7.62	Jan. 20, 1964	49	8.62
Jan. 10, 1952	45	1.05	Sept. 26	81	27.3	Apr. 3	81	12.1
Feb. 7	49	.97	Oct. 24	75	18.4	Apr. 21	65	13,000
Mar. 12	65	3.22	Nov. 22	61	9.07	May 2	85	42.1
Apr. 16	71	2.20	Dec. 18	49	12.2	July 13	61	.46
May 20	76	27.0	Jan. 23, 1959	49	10.4	Aug. 18	74	28.0
May 25	75	56.6	Feb. 27	64	26.8	Sept. 28	79	15.4
June 20	88	.33	Mar. 30	62	11.1	Nov. 2	75	2.01
July 22	90	.71	May 1	82	12.2	Nov. 30	92	4.29
Oct. 29	62	.08	June 2	81	18.3	Jan. 4, 1965	57	12.8
Nov. 19	62	8.20	June 29	84	55.3	Feb. 2	42	8.89
Nov. 24	50	2,870	July 31	99	11.2	Mar. 8	58	24.3
Nov. 24	50	1,440	Sept. 2	93	5.11	Apr. 12	82	11.1
Nov. 26	49	61.5	Sept. 29	75	163	June 21	88	11.8
Jan. 27, 1953	60	7.20	Oct. 15	67	94.8	July 26	80	2.45
Feb. 16	53	4.68	Nov. 9	57	50.4	Sept. 8	89	1.44
Mar. 10	54	280	Dec. 15	54	2,060	Oct. 11	79	2.15
Mar. 31	71	8.20	Jan. 22, 1960	46	132	Nov. 15	75	2.94
Apr. 15	68	3.96	Feb. 26	46	81.1	Dec. 20	49	12.8
May 16	74	94.7	Mar. 31	73	31.3	Jan. 24, 1966	40	5.39
July 31	90	.30	May 6	71	2.66	Mar. 2	67	8.24
Sept. 1	84	2.60	June 10	90	12.0	Apr. 5	65	4.32
Sept. 4	80	49.0	July 11	101	2.20	May 5	69	275
Oct. 23	65	98.0	Aug. 25	94	2.74	June 10	92	8.19
Nov. 5	58	13.3	Sept. 27	71	2.87	July 29	99	2.51
Dec. 3	61	2.29	Oct. 31	70	1.75	Aug. 30	79	112
Feb. 3, 1954	56	1.91						



## BRAZOS RIVER BASIN

8-0930. Brazos River near Whitney, Tex.

Location.--Lat 31°50'30", long 97°19'30", 3,000 ft upstream from Iron Creek, 1.0 mile downstream from Coon Creek, 3.4 miles downstream from Whitney Dam, and 7.5 miles south of Whitney, Hill County.

Drainage area.--26,190 sq mi, approximately, of which 9,240 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from October 1948 to September 1953, immediately below Whitney Dam. Thermograph record from October 1953 to September 1966 at gaging station 3.4 miles downstream from Whitney Dam. Daily temperatures at Whitney Dam for period October 1953 to September 1966 are on file at the district office in Austin.

Remarks.--Flow regulated by Whitney Reservoir since December 1951.

## Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1949	Mean	63	54	50	43	49	56	63	74	80	84	81	76
	Max.-Min.	73 52	68 43	66 41	60 33	62 34	66 47	71 53	80 69	85 75	87 80	85 75	82 65
1950	Mean	67	56	51	51	60	57	60	65	69	70	74	78
	Max.-Min.	78 54	67 50	63 42	66 36	70 54	64 51	60 52	69 57	71 67	71 69	81 70	80 77
1951	Mean	77	64	55	51	43	56	56	58	62	67	70	70
	Max.-Min.	78 75	76 58	65 50	57 38	46 39	58 54	57 54	59 57	66 59	68 65	71 69	70 69
1952	Mean	66	57	53	52	55	53	57	68	69	78	82	80
	Max.-Min.	69 64	58 56	65 51	62 51	56 53	53 51	59 56	76 62	74 67	82 69	83 81	83 78
1953	Mean	69	58	50	48	49	57	62	65	78	80	81	79
	Max.-Min.	79 60	62 48	59 48	50 40	54 44	65 49	64 60	68 62	82 69	84 79	84 79	81 72
1954	Mean	65	58	54	52	58	59	64	70	75	82	81	80
	Max.-Min.	70 59	62 53	64 45	61 42	63 52	67 50	72 55	70 62	79 72	87 77	84 78	84 76
1955	Mean	76	61	53	52	50	59	69	74	81	82	84	82
	Max.-Min.	83 66	70 52	63 44	65 45	58 38	72 46	78 58	84 66	81 71	90 78	90 78	86 78
1956	Mean	74	60	52	48	51	58	64	74	76	79	80	79
	Max.-Min.	81 61	70 48	58 46	60 42	58 46	70 52	72 58	82 64	85 71	84 74	85 77	84 73
1957	Mean	74	58	52	49	52	56	60	68	82	84	84	80
	Max.-Min.	81 68	70 48	66 44	57 42	58 46	65 50	69 51	74 65	82 74	92 80	91 80	88 74
1958	Mean	70	58	52	46	48	57	58	68	76	80	83	-
	Max.-Min.	78 60	64 47	58 48	52 44	50 44	56 49	67 52	80 62	83 69	89 76	87 74	-
1959	Mean	70	63	59	44	47	54	62	70	80	80	81	78
	Max.-Min.	75 62	67 53	59 42	52 39	54 44	62 47	72 55	80 61	88 70	85 77	85 77	84 71
1960	Mean	68	58	54	48	46	49	60	66	72	75	77	76
	Max.-Min.	75 61	67 49	58 49	52 46	49 39	62 40	69 55	76 61	79 68	79 71	81 75	78 72
1961	Mean	70	60	55	48	48	56	60	68	74	-	80	77
	Max.-Min.	75 65	65 54	65 50	50 46	54 46	60 50	68 56	71 65	78 68	-	84 77	83 72
1962	Mean	69	62	54	-	52	52	58	66	74	80	80	78
	Max.-Min.	72 67	70 58	62 50	-	55 48	57 47	66 53	73 61	77 70	85 73	83 77	81 76
1963	Mean	72	61	54	52	46	54	64	70	76	79	79	78
	Max.-Min.	76 65	66 57	57 50	53 48	51 44	64 47	71 57	78 65	79 73	86 76	83 76	84 71
1964	Mean	74	64	51	47	48	54	64	70	75	74	76	79
	Max.-Min.	76 71	72 58	59 43	49 42	50 48	62 49	72 56	78 65	83 70	81 70	84 71	84 75
1965	Mean	73	64	53	52	50	50	62	68	78	80	80	78
	Max.-Min.	80 66	70 58	61 47	55 48	52 44	54 47	69 50	70 62	83 69	83 76	83 76	83 70
1966	Mean	72	66	58	52	46	51	63	68	73	76	78	79
	Max.-Min.	81 68	67 64	64 51	55 46	48 43	58 46	67 56	71 65	76 69	78 74	80 77	82 75
1949-66	Mean	70	60	53	49	50	55	61	68	74	78	79	78
	Max.-Min.	83 52	76 43	66 41	66 33	70 34	72 40	78 50	84 57	88 59	92 65	91 69	88 65

## BRAZOS RIVER BASIN

8-0935. Aquilla Creek near Aquilla, Tex.

Location.--Lat 31°50'40", long 97°12'06", at bridge on Farm Road 1304, three-quarters of a mile upstream from Falls Branch, and 1 mile southeast of Aquilla, Hill County.

Drainage area.--306 sq mi.

Remarks.--Once-daily readings for the period May 1965 to September 1966 are on file in the district office at Austin.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 11, 1950	48	6.01	July 15, 1958	86	1.92	Aug. 13, 1962	84	1.58
Feb. 16	48	32.3	Aug. 18	80	6.06	Nov. 26	59	9.88
Mar. 22	66	3.22	Oct. 24	75	.68	Jan. 2, 1963	49	12.9
May 22	75	9.39	Nov. 22	53	.98	Feb. 11	46	6.77
July 20	84	.33	Dec. 17	44	1.30	Mar. 19	66	6.41
Sept. 20	75	317	Jan. 22, 1959	45	1.44	Apr. 22	75	1.88
Dec. 6	36	.47	Feb. 26	54	13.4	May 29	71	72.2
Jan. 11, 1951	42	.31	Mar. 31	68	3.96	July 1	91	.16
Feb. 10	53	.92	Apr. 30	76	8.69	Jan. 20, 1964	46	3.51
Mar. 15	57	.41	June 2	81	107	Feb. 6	49	4.34
June 12	69	6,090	July 1	84	19.9	Mar. 5	55	1.91
June 29	86	.28	July 30	85	4.18	Apr. 3	83	3.99
Sept. 12	82	1.07	Sept. 1	80	4.98	May 2	73	.40
Nov. 16	55	.04	Sept. 1	82	4.09	June 4	56	.28
Jan. 10, 1952	45	.23	Sept. 28	85	.77	Oct. 14	72	.27
Feb. 7	46	.48	Oct. 15	65	89.7	Nov. 2	73	.18
Mar. 12	59	1.09	Nov. 10	51	12.7	Nov. 4	63	6,820
Apr. 16	64	1.46	Dec. 16	54	1,060	Nov. 5	63	1,030
May 24	65	5,910	Jan. 22, 1960	39	75.5	Nov. 5	63	502
May 25	72	153	Feb. 26	38	47.3	Nov. 5	63	247
June 19	87	.86	Mar. 31	69	16.1	Nov. 8	62	17.5
Nov. 25	52	1,220	Apr. 28	73	638	Nov. 30	52	1.90
Dec. 17	50	.85	June 10	78	3.62	Jan. 4, 1965	56	5.39
Jan. 26, 1953	54	11.7	Aug. 25	87	1.55	Feb. 2	46	7.96
May 18	72	102	Sept. 27	72	.96	Mar. 8	56	18.6
Nov. 6	57	1.48	Oct. 31	68	.87	Apr. 12	62	7.65
Dec. 3	58	7.71	Dec. 5	65	1.58	May 10	66	3,490
Jan. 7, 1954	47	.85	Jan. 16, 1961	46	149	May 16	65	7,630
Feb. 3	56	2.08	Feb. 27	57	91.6	May 16	65	17,600
Mar. 11	63	.77	Apr. 10	63	27.9	July 20	88	.46
May 5	69	.65	June 12	84	3.42	Sept. 9	91	.15
Oct. 29	61	1.54	July 17	74	3,440	Oct. 12	70	.47
Jan. 4, 1955	63	.44	Aug. 21	80	3.00	Nov. 12	69	3.49
Feb. 6	48	1.85	Sept. 25	77	1.56	Dec. 17	47	1.77
Apr. 15	69	3.94	Oct. 30	71	3.32	Jan. 25, 1966	39	4.98
May 18	80	2.38	Nov. 22	56	9,600	Mar. 1	55	22.1
Jan. 27, 1956	57	.68	Dec. 4	62	35.0	Apr. 1	68	7.17
Nov. 19, 1957	55	48.3	Jan. 8, 1962	46	28.1	Apr. 25	67	16,900
Dec. 17	60	22.4	Feb. 12	62	19.1	May 6	68	117
Jan. 28, 1958	49	35.6	Mar. 19	59	17.0	June 11	61	2.64
Mar. 5	53	49.3	Apr. 24	69	28.6	July 28	86	.80
May 20	72	30.2	June 4	75	3.53	Aug. 30	83	253
June 16	86	2.95	July 10	86	4.08			

BRAZOS RIVER BASIN

8-0937. North Bosque River at Stephenville, Tex.

Location--Lat 32°12'55", long 98°11'50", at bridge on U. S. Highway 67 at Stephenville, Erath County, 0.5 mile southeast of Erath County Courthouse, and 1.5 miles downstream from Gulf, Colorado and Santa Fe Railway Co. bridge.

Drainage area.--93.2 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 7, 1958	53	379	Feb. 22, 1960	52	3.00	Nov. 21, 1963	64	0.99
Mar. 7	55	180	Mar. 28	67	2.38	Jan. 22, 1964	59	.04
Mar. 7	56	106	May 2	70	3.67	Feb. 4	49	433
Mar. 7	58	88.2	June 6	89	.93	Feb. 4	49	292
Mar. 13	46	7.14	June 8	78	52.2	Feb. 4	49	161
Apr. 17	57	2.95	Aug. 23	88	1.50	Feb. 5	45	17.2
May 21	84	1.55	Dec. 8	58	2.65	Feb. 5	45	9.60
July 6	68	3,340	Jan. 13, 1961	43	30.7	Feb. 6	43	3.64
July 7	68	1,290	Feb. 6	35	72.8	Mar. 4	57	.42
July 7	71	82.0	Mar. 2	56	1.39	Mar. 30	69	.09
July 7	71	51.1	June 14	80	1.69	Apr. 21	64	377
July 8	78	12.2	July 20	87	1.50	Apr. 30	67	.48
Nov. 17	64	.07	July 27	82	1.0	Aug. 25	84	.15
Dec. 15	46	.02	Nov. 2	67	8.05	Nov. 6	60	.78
Jan. 19, 1959	56	.11	Dec. 7	51	2.18	Dec. 4	47	2.63
Feb. 23	61	.07	Jan. 12, 1962	35	1.43	Dec. 21	43	1.76
Apr. 3	62	.01	Feb. 16	55	1.41	Jan. 8, 1965	61	1.45
Apr. 27	74	.24	Apr. 23	66	1.96	Feb. 6	50	1.56
June 5	79	1.54	Oct. 10	69	17.2	Feb. 10	51	26.1
July 3	92	1.25	Oct. 24	62	.74	Mar. 12	50	2.79
July 27	92	.21	Nov. 28	58	5.51	May 17	62	136
Oct. 2	71	3.98	Jan. 3, 1963	47	.70	June 28	80	.65
Nov. 13	53	1.87	Feb. 12	43	.80	Nov. 9	60	2.25
Dec. 10	41	7.46	Mar. 21	63	.52	Jan. 20, 1966	39	.29
Jan. 6, 1960	37	85.4	Apr. 24	67	.23	Mar. 29	75	.16
Jan. 18	38	5.20	July 3	88	1.02	May 2	55	32.0

BRAZOS RIVER BASIN

8-0945. Green Creek near Alexander, Tex.

Location--Lat 32°04'20", long 98°14'00", at bridge on State Highway 6, 0.2 mile upstream from Missouri, Kansas, Texas Railroad Co. bridge, 1.0 mile upstream from Cottonwood Creek, and 1.7 miles northwest of Alexander, Erath County.

Drainage area.--45.5 sq mi.

Remarks.--Flow from 22.0 sq mi above this station is partly controlled by eight floodwater-retarding structures with a total combined capacity of 7,840 acre-ft below flood spillway crests.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 20, 1955	69	42.6	July 19, 1961	80	0.57	Feb. 5, 1964	46	24.6
May 25, 1956	79	54.7	Nov. 1	68	.04	Feb. 5	47	20.0
Nov. 20, 1957	56	.20	Dec. 5	55	.34	Feb. 6	44	10.0
Jan. 30, 1958	47	1.87	Jan. 11, 1962	38	.20	Feb. 19	51	.69
Mar. 11	53	4.04	Feb. 15	69	.05	Mar. 4	56	.17
Oct. 1, 1959	69	.18	Mar. 21	69	.04	Mar. 31	69	.06
Oct. 13	70	54.2	Apr. 23	65	8.72	Mar. 31	69	.06
Nov. 12	56	1.10	Oct. 10	73	40.2	Apr. 21	66	543
Dec. 17	46	15.3	Oct. 18	75	.25	Nov. 5	60	4.90
Jan. 19, 1960	42	6.22	Dec. 5	53	.25	Dec. 2	57	.96
Feb. 23	49	3.87	Jan. 18, 1963	43	.64	Jan. 8, 1965	66	.88
Mar. 29	70	2.18	Feb. 22	46	.04	Feb. 4	45	.65
May 4	68	.54	Mar. 28	76	.01	Mar. 10	65	1.45
June 7	89	.06	June 7	82	.008	Apr. 14	77	1.16
Jan. 12, 1961	43	105	Sept. 19	79	.004	May 16	62	705
Jan. 13	44	12.7	Dec. 5	55	.012	June 26	63	.63
Feb. 6	38	40.1	Feb. 4, 1964	51	91.5	May 3, 1966	65	8.25
Mar. 1	54	3.36	Feb. 4	51	87.9			

## BRAZOS RIVER BASIN

8-0248. North Bosque River at Hico, Tex.

Location.--Lat 31°56'39", long 96°02'05", at bridge on U. S. Highway 281, near south boundary at Hico, Hamilton County, 2.5 miles downstream from Gilmore Creek, and 5.0 miles upstream from Honey Creek.

Drainage area.--357 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 26, 1961	80	2.41	Nov. 21, 1963	61	16.1	Apr. 14, 1965	77	9.19
Oct. 31	72	8.43	Jan. 22, 1964	53	2.11	May 16	61	5,570
Dec. 5	57	11.6	Feb. 5	48	138	June 26	86	7.92
Jan. 10, 1962	35	8.31	Feb. 6	46	43.8	July 28	88	1.24
Feb. 14	64	7.63	Mar. 4	57	1.61	Sept. 3	86	.68
Mar. 20	68	6.27	Apr. 1	67	3.68	Oct. 7	67	.46
Apr. 23	68	6.93	Apr. 30	69	19.7	Nov. 11	61	5.57
June 5	90	.18	June 10	86	.76	Dec. 16	53	1.72
July 10	96	.06	June 10	86	.76	Jan. 21, 1966	39	2.94
Sept. 18	92	.06	Aug. 26	88	1.50	Feb. 24	49	4.30
Oct. 23	68	2.35	Sept. 30	73	45.8	Mar. 31	67	3.75
Nov. 28	59	28.9	Nov. 4	66	121	May 3	64	160
Jan. 3, 1963	49	2.95	Dec. 2	57	7.10	June 9	87	.41
Feb. 12	43	2.23	Jan. 6, 1965	61	6.33	July 28	89	1.64
Mar. 21	61	1.20	Feb. 4	45	5.08	Aug. 24	77	2.09
July 3	89	2.09	Mar. 10	68	15.8	Sept. 21	75	14.5

## BRAZOS RIVER BASIN

8-0950. North Bosque River near Clifton, Tex.

Location.--Lat 31°47'10", long 97°34'00", at bridge on Farm Road 219, 0.5 mile northeast of Clifton, Bosque County, and 2.9 miles downstream from Meridian Creek.

Drainage area.--972 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 5, 1950	47	8.27	Oct. 23, 1957	64	475	Mar. 1, 1962	44	73.9
Jan. 10, 1951	46	7.92	Dec. 19	53	152	Mar. 29	66	56.8
Feb. 9	56	8.34	Jan. 29, 1958	50	212	May 1	67	82.6
Mar. 14	57	6.55	Feb. 20	49	198	May 29	81	41.9
Apr. 17	70	4.04	Mar. 10	57	549	July 31	90	20.5
June 28	86	3.72	Mar. 20	54	267	Aug. 29	86	4.12
Sept. 11	82	5.49	Mar. 28	56	281	Oct. 1	76	6.18
Nov. 15	58	.62	Apr. 16	58	312	Oct. 31	60	59.2
Dec. 11	46	.63	May 19	75	304	Nov. 30	58	72.9
Jan. 9, 1952	54	1.47	May 29	78	148	Dec. 31	48	24.9
Feb. 6	46	1.02	June 17	80	64.0	Jan. 30, 1963	41	18.2
Mar. 11	54	.68	July 1	82	36.8	Jan. 31	40	16.9
Apr. 15	54	4.93	July 15	88	48.0	Feb. 28	64	11.5
May 20	72	39.4	July 31	88	20.6	Apr. 1	73	7.70
May 25	70	707	Aug. 18	84	40.2	Apr. 30	75	181
June 18	82	4.43	Sept. 1	82	6.81	May 30	74	142
July 17	84	.77	Sept. 26	81	15.2	June 29	82	11.6
Dec. 16	51	1.34	Oct. 23	67	9.17	July 31	81	.27
Jan. 27, 1953	56	5.76	Oct. 23	67	8.99	Aug. 29	84	.10
Mar. 9	52	300	Nov. 20	63	10.9	Nov. 27	55	7.95
Mar. 31	72	12.8	Nov. 26	54	12.3	Dec. 30	42	3.58
May 19	76	131	Dec. 29	48	11.2	Jan. 29, 1964	51	4.87
June 23	92	1.13	Jan. 21, 1959	47	10.1	Feb. 28	46	23.7
July 31	83	2.04	Jan. 30	52	9.70	Mar. 31	62	56.5
Aug. 27	82	4.20	Feb. 26	54	12.0	Apr. 30	72	96.8
Nov. 5	63	9.26	Mar. 31	66	7.09	May 28	77	12.0
Dec. 2	60	3.34	Apr. 30	71	8.29	June 30	81	1.81
Feb. 3, 1954	58	4.00	June 1	84	2.65	July 31	86	.32
Mar. 31	60	1.75	June 30	82	62.0	Sept. 1	79	1.70
June 10	79	.42	July 30	85	22.2	Sept. 29	70	94.8
Nov. 4	56	6.49	Aug. 31	83	197	Oct. 29	65	85.7
Nov. 30	55	1.19	Nov. 12	56	110	Dec. 1	45	33.2
Jan. 3, 1955	58	.70	Jan. 23, 1960	42	397	Dec. 30	55	20.4
Feb. 2	57	.36	Feb. 25	41	245	Feb. 1, 1965	48	57.4
Feb. 28	58	1.62	Mar. 29	63	173	Mar. 30	54	80.6
Apr. 14	65	111	June 9	81	36.9	Apr. 28	72	54.0
May 27	79	117	July 14	87	16.7	June 29	86	50.8
Nov. 29	41	.05	Aug. 18	87	6.90	July 29	84	15.1
Dec. 29	57	.04	Jan. 4, 1961	44	81.7	Aug. 30	87	6.25
Jan. 27, 1956	52	1.33	Feb. 1	49	468	Sept. 28	78	7.22
Feb. 29	55	1.88	Mar. 31	58	241	Oct. 29	59	10.9
Mar. 29	67	.06	May 2	65	118	Nov. 26	69	12.0
Mar. 29	67	.07	June 30	83	78.8	Dec. 30	55	17.8
May 7	78	126	Aug. 1	79	60.8	Jan. 27, 1966	45	19.4
May 31	81	27.6	Aug. 31	84	23.1	Feb. 25	51	25.0
Apr. 12, 1957	51	5.53	Sept. 27	78	21.2	Mar. 30	68	22.1
May 28	73	1,090	Oct. 31	73	93.4	May 26	79	91.5
July 2	91	42.0	Dec. 2	56	114	June 29	75	35.0
July 31	88	19.2	Dec. 29	46	118	July 27	91	12.5
Sept. 30	74	3.18	Jan. 31, 1962	53	82.4			

BRAZOS RIVER BASIN

8-0952. North Bosque River at Valley Mills, Tex.

Location.--Lat 31°40'10", long 97°28'09", at bridge on Farm Road 56, about 0.8 mile downstream from Thompson Hollow, 0.8 mile north of intersection of State Highway 6, and Farm Road 56 in Valley Mills, Bosque County.

Drainage area.--1,150 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 18, 1959	87	22.4	Mar. 29, 1962	66	89.1	July 31, 1964	84	1.47
Sept. 16	80	10.2	May 29	78	77.8	Aug. 31	86	4.36
Sept. 30	74	183	July 31	85	34.1	Sept. 28	70	151
Nov. 12	58	166	Aug. 29	84	9.70	Oct. 28	66	178
Jan. 22, 1960	45	548	Oct. 1	74	17.1	Nov. 30	43	61.1
Feb. 25	42	342	Oct. 31	60	27.6	Dec. 30	62	36.2
Mar. 30	66	210	Nov. 30	59	95.8	Feb. 1, 1965	48	94.7
May 9	73	180	Dec. 31	46	35.5	Feb. 28	59	299
June 8	84	56.2	Jan. 30, 1963	41	25.6	Mar. 30	54	135
Aug. 18	85	16.8	Feb. 28	59	19.6	Apr. 28	73	101
Oct. 26	72	21.5	Apr. 1	75	13.0	July 29	87	37.8
Nov. 29	59	22.1	Apr. 30	76	284	Aug. 30	87	24.6
Jan. 4, 1961	44	150	May 30	74	223	Sept. 28	76	21.3
June 1	83	79.8	June 28	85	15.7	Oct. 29	61	23.9
June 29	83	166	July 31	84	.90	Nov. 26	71	30.5
Aug. 1	79	149	Oct. 30	67	.85	Dec. 29	55	37.0
Aug. 31	78	60.4	Nov. 27	53	11.9	Jan. 27, 1966	47	37.2
Sept. 27	79	51.7	Dec. 30	42	4.64	Feb. 25	49	50.4
Nov. 1	72	158	Jan. 29, 1964	52	8.18	Mar. 30	62	51.9
Dec. 2	60	221	Feb. 28	52	25.8	May 26	79	156
Dec. 29	46	221	Apr. 30	72	111	June 29	76	65.8
Jan. 31, 1962	54	144	May 27	81	15.0	July 27	89	29.4
Mar. 1	46	117	June 29	85	5.40	Aug. 26	75	27.8

BRAZOS RIVER BASIN

8-0953. Middle Bosque River near McGregor, Tex.

Location.--Lat 31°30'33", long 97°21'56", at bridge on county road, 1,100 ft downstream from Pecan Creek, 5.2 miles northeast of McGregor, McLennan County, and 8.2 miles upstream from South Bosque River.

Drainage area.--182 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 16, 1959	76	1.32	May 31, 1961	79	12.0	May 29, 1963	82	32.7
Oct. 7	74	188	June 29	79	122	Mar. 5, 1964	59	4.99
Nov. 12	64	70.2	July 31	86	71.4	May 14	78	28.2
Dec. 17	52	379	Aug. 31	79	12.6	June 24	80	59.0
Jan. 21, 1960	46	172	Sept. 28	84	21.2	July 29	91	1.06
Feb. 26	45	87.0	Oct. 30	72	25.4	Aug. 12	92	.32
Mar. 29	70	46.8	Dec. 1	62	96.0	Aug. 31	85	.39
May 4	76	21.1	Dec. 28	48	60.2	Oct. 28	64	21.2
June 9	90	3.75	Feb. 28, 1962	42	28.3	Dec. 29	58	30.2
July 13	99	1.69	Apr. 30	79	16.1	Feb. 2, 1965	45	71.8
Aug. 17	92	.17	July 9	84	15.7	Feb. 27	56	169
Oct. 27	75	4.48	Aug. 29	80	.06	May 26	76	215
Nov. 29	54	5.79	Oct. 1	78	.05	June 29	91	24.4
Jan. 9, 1961	46	870	Oct. 31	63	.04	July 22	90	2.73
Jan. 11	47	451	Nov. 30	58	.05	July 28	90	1.71
Feb. 8	49	587	Dec. 31	45	--	Sept. 28	69	6.07
Feb. 27	60	203	Jan. 30, 1963	41	3.40	Dec. 29	55	69.0
Mar. 30	58	74.2	Apr. 1	78	.80	Mar. 29, 1966	64	54.3

BRAZOS RIVER BASIN

8-0954. Hog Creek near Crawford, Tex.

Location.--Lat 31°33'20", long 97°21'22" at bridge on Farm Road 185, 5.6 miles east of Crawford, McLennan County, and 9.8 miles upstream from South Bosque River.

Drainage area.--78.2 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 19, 1959	85	0.41	Jan. 9, 1961	47	309	Jan. 30, 1963	40	1.10
Sept. 16	88	.31	Mar. 17	62	161	Nov. 18	58	.07
Oct. 7	75	96.0	May 1	80	7.91	Dec. 20	42	.25
Nov. 12	62	25.6	May 31	85	2.46	Jan. 29, 1964	50	.22
Nov. 24	56	17.4	July 31	86	23.0	Mar. 5	50	6.90
Dec. 17	53	120	Sept. 29	81	8.41	May 14	72	10.2
Jan. 21, 1960	40	63.5	Oct. 30	74	17.5	June 24	85	16.9
Feb. 23	47	44.0	Dec. 28	49	29.8	Oct. 28	70	10.0
Mar. 29	70	20.1	Feb. 28, 1962	44	16.7	Dec. 29	61	14.0
May 4	75	8.83	Apr. 30	80	10.2	Mar. 29, 1965	61	23.8
June 9	93	.79	July 9	88	6.30	May 26	74	66.2
July 13	97	6.57	July 31	91	.48	Dec. 29	56	17.0
Aug. 17	86	1.12	July 31	84	.32	Mar. 30, 1966	57	22.0
Oct. 26	74	1.65	Aug. 29	83	.13	Sept. 28	80	14.9
Nov. 29	54	2.26	Oct. 1	79	.10			

BRAZOS RIVER BASIN

8-0956. Bosque River near Waco, Tex.

Location.--Lat 31°36'04", long 97°11'36", on downstream side of bridge on Farm Road 1637, 1.8 miles downstream from Waco Reservoir dam, 2.8 miles upstream from mouth, and 4.7 miles northwest of courthouse in Waco, McLennan County.

Drainage area.--1,655 sq mi.

Remarks.--Flow largely regulated by Waco Reservoir since February 1965.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 16, 1959	80	2.74	Jan. 18, 1962	40	714	June 23, 1964	81	158
Sept. 30	76	362	Feb. 21	58	62.2	July 29	88	1.12
Oct. 24	53	2.96	Mar. 29	64	73.7	Oct. 15	64	9.05
Jan. 20, 1960	43	930	Apr. 30	76	104	Nov. 19	64	598
Feb. 25	39	538	Aug. 15	83	2.28	Dec. 22	45	98.7
Mar. 31	66	323	Sept. 19	79	58.0	Jan. 26, 1965	52	594
May 5	75	56.2	Oct. 23	68	5.84	Mar. 3	49	4.82
June 8	94	53.6	Nov. 28	62	4.08	July 15	86	60.3
July 13	87	53.8	Mar. 9, 1963	60	5.14	Aug. 18	88	40.0
Aug. 17	92	4.69	May 22	75	15.4	Sept. 22	76	38.2
Oct. 27	74	8.29	May 28	75	22.0	Nov. 29	51	58.5
Jan. 6, 1961	47	808	June 18	82	51.4	Dec. 22	57	412
Mar. 29	64	246	Nov. 18	64	1.63	Jan. 13, 1966	53	107
Apr. 19	65	217	Dec. 20	40	4.68	Feb. 25	47	206
May 22	83	54.0	Jan. 28, 1964	55	1.82	Apr. 5	60	59.0
June 30	81	391	Mar. 4	51	356	Apr. 28	68	2,780
July 26	86	48.7	Mar. 4	51	369	May 4	68	12,000
Aug. 30	80	88.6	Mar. 4	51	369	June 9	83	78.5
Sept. 29	82	76.6	Apr. 8	63	129	Aug. 22	85	65.7
Nov. 7	56	98.6	May 13	77	41.6	Aug. 23	80	55.4
Dec. 12	48	89.5						

BRAZOS RIVER BASIN

8-0965. Brazos River at Waco, Tex.

Location.--Lat 31°33'40", long 97°07'42", at Washington Avenue Bridge in Waco, McLennan County, and 2½ miles downstream from Bosque River.

Drainage area.--28,500 sq mi, approximately, of which 9,240 sq mi is probably noncontributing.

Remarks.--Flow largely regulated by Whitney Reservoir since December 1951 and Waco Reservoir beginning February 1965.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 24, 1949	66	589	May 19, 1953	70	1,750	Nov. 21, 1958	62	1,030
Nov. 18	50	699	June 8	88	90.2	Dec. 18	46	288
Dec. 15	48	647	June 10	90	376	Jan. 23, 1959	43	847
Jan. 9, 1950	48	284	June 23	86	1,000	Feb. 27	53	1,840
Feb. 15	50	2,370	July 31	88	1,150	Mar. 30	73	111
Mar. 22	65	436	Aug. 28	85	118	May 1	72	2,330
May 21	78	910	Sept. 30	82	116	June 2	81	1,400
May 21	78	586	Nov. 6	61	92.4	July 1	86	1,040
May 22	77	249	Dec. 3	57	200	July 31	87	2,590
May 22	84	206	Jan. 7, 1954	51	50.8	Sept. 2	84	1,780
June 19	86	1,520	Feb. 3	64	66.9	Sept. 28	88	117
July 19	86	3,180	Mar. 31	64	166	June 8, 1960	80	254
Sept. 20	80	6,640	Apr. 12	81	68.0	July 14	86	1,410
Oct. 4	74	2,620	Apr. 22	81	94.2	Oct. 27	72	4,620
Oct. 20	71	784	Apr. 26	76	44.2	Nov. 30	51	263
Nov. 8	66	712	Aug. 2	92	114	Jan. 13, 1961	48	23,300
Dec. 6	32	196	Aug. 9	93	132	Feb. 28	54	4,160
Jan. 11, 1951	45	591	Aug. 16	87	149	Mar. 30	62	1,300
Feb. 10	49	631	Sept. 7	90	42.6	Apr. 18	68	1,070
Mar. 6	65	252	Sept. 13	85	155	May 22	78	284
Mar. 15	55	207	Oct. 1	81	174	Aug. 31	82	1,130
Mar. 22	66	157	Oct. 29	64	1,200	Jan. 18, 1962	44	592
Apr. 18	66	160	Nov. 30	58	36.8	Feb. 21	58	3,250
May 2	76	1,450	Jan. 4, 1955	65	39.1	Mar. 30	60	478
June 13	71	18,200	Feb. 8	59	62.2	Apr. 30	78	397
June 13	73	14,900	Apr. 15	71	186	June 6	85	1,100
June 29	86	1,170	May 17	83	362	July 11	85	493
July 25	88	1,580	May 25	73	13,900	Aug. 15	78	302
Aug. 21	84	1,290	Nov. 10	51	218	Sept. 19	79	4,890
Sept. 12	81	1,690	Jan. 27, 1956	57	557	Oct. 23	67	2,220
Oct. 9	73	228	Feb. 29	52	843	Mar. 10, 1963	56	309
Oct. 25	67	120	Apr. 4	64	1,680	Apr. 13	74	205
Nov. 16	51	211	June 21	82	999	May 22	75	311
Dec. 12	43	160	July 9	85	1,370	June 17	85	4,710
Jan. 10, 1952	46	163	July 10	81	2,930	July 30	84	1,020
Feb. 6	56	163	July 16	82	1,070	Sept. 4	83	251
Mar. 11	66	140	July 30	84	1,630	Nov. 19	65	241
Apr. 15	74	113	Nov. 1	67	192	Dec. 30	41	186
Apr. 23	72	8,490	Nov. 19	65	41.2	Jan. 28, 1964	52	196
May 20	66	460	Nov. 27	52	47.8	Mar. 4	54	376
June 19	88	318	Jan. 2, 1957	48	35.7	Apr. 8	61	322
June 24	89	46.9	Feb. 27	54	710	May 13	75	979
June 24	85	814	Apr. 13	51	1,780	May 13	75	1,150
June 30	84	1,180	Sept. 3	98	90.0	Sept. 8	86	120
July 10	89	525	Sept. 23	73	161	Oct. 15	69	191
July 22	85	92.0	Oct. 1	74	160	Nov. 18	69	995
Aug. 6	83	1,100	Nov. 18	60	4,280	Dec. 22	48	702
Aug. 21	84	1,220	Dec. 17	55	3,350	Dec. 23	51	405
Sept. 4	85	1,170	Jan. 28, 1958	49	4,500	Mar. 3, 1965	49	846
Sept. 18	76	149	Feb. 18	54	639	Sept. 22	82	851
Oct. 28	63	41.1	Mar. 4	55	2,630	Oct. 25	62	184
Nov. 19	60	66.6	May 20	68	5,090	Nov. 29	58	275
Nov. 26	48	1,560	June 17	78	3,940	Jan. 13, 1966	53	1,470
Dec. 17	51	61.8	July 10	74	22,700	Apr. 6	61	348
Jan. 27, 1953	60	99.1	Aug. 18	78	234	June 9	83	359
Apr. 16	74	71.7	Sept. 30	76	541	Aug. 23	87	309
May 17	72	3,670	Oct. 24	69	277			



## BRAZOS RIVER BASIN

8-0970. Cow Bayou at Mooreville, Tex.

Location.--Lat  $31^{\circ}18'45''$ , long  $97^{\circ}08'16''$ , at county bridge, 500 ft downstream from confluence of North Cow Bayou and South Cow Bayou, 0.8 mile north of Mooreville, Falls County, and 5.0 miles northwest of Chilton.

Drainage area.--79.6 sq mi.

Remarks.--Flow from 43.6 sq mi above this station was partly controlled by 26 floodwater-retarding structures with a total combined capacity of 14,930 acre-ft below the flood spillway crests.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 22, 1955	46	4.88	Oct. 28, 1960	72	5.05	May 1, 1964	69	105
June 26, 1957	77	6.34	Dec. 1	46	13.0	May 1	70	84.0
Feb. 17, 1958	41	16.4	Mar. 16, 1961	68	34.0	May 1	70	61.1
Mar. 20	49	39.8	Apr. 19	76	13.7	May 15	72	3.53
June 18	78	29.6	May 23	74	6.61	May 26	82	.55
July 31	83	.63	June 29	83	44.6	June 23	80	39.0
Aug. 24	80	17.6	July 27	78	12.9	Nov. 5	62	1.52
Aug. 24	80	17.6	Aug. 31	84	3.20	Dec. 8	41	.62
Aug. 24	82	8.46	Oct. 4	68	6.42	Jan. 11, 1965	44	2.37
Sept. 8	82	1.39	Nov. 6	56	4.52	Feb. 5	46	7.65
Oct. 1	62	1.64	Dec. 13	42	7.23	Mar. 3	43	37.2
Nov. 5	64	1.31	Jan. 16, 1962	46	9.39	Apr. 5	74	138
Dec. 9	48	1.50	Feb. 20	59	6.69	May 4	70	8.39
Jan. 14, 1959	57	4.74	Mar. 29	63	4.20	June 2	76	161
Feb. 19	45	3.55	May 1	74	8.32	July 6	86	6.00
Mar. 25	71	1.80	June 7	82	9.43	Aug. 3	77	1.87
Apr. 30	69	2.26	Aug. 15	88	.20	Aug. 30	84	.32
June 6	76	17.4	Oct. 22	81	.15	Sept. 27	67	3.51
July 10	88	7.33	Nov. 28	62	1.56	Oct. 25	56	2.73
Aug. 13	84	.80	Jan. 7, 1963	51	1.11	Nov. 19	64	49.2
Sept. 17	80	1.15	Feb. 4	49	1.14	Dec. 13	58	27.1
Nov. 13	60	34.9	Apr. 17	61	.40	Jan. 5, 1966	53	32.8
Nov. 24	50	20.7	Jan. 30, 1964	47	102	Jan. 31	41	36.8
Jan. 19, 1960	44	89.0	Jan. 30	47	148	Mar. 3	61	108
Mar. 11	49	33.0	Jan. 31	51	10.2	Mar. 29	58	38.5
Apr. 7	74	12.6	Mar. 6	59	2.19	June 2	73	61.5
June 7	78	2.89	Mar. 7	62	2.46	July 6	79	9.68
July 12	84	6.54	Apr. 10	66	4.13	Aug. 11	81	2.01
Aug. 15	81	1.63	May 1	68	99.6	Sept. 26	75	55.6
Sept. 20	79	.42						

## BRAZOS RIVER BASIN

8-0991. Leon River near De Leon, Tex.

Location.--Lat  $32^{\circ}10'18''$ , long  $98^{\circ}31'54''$ , at bridge on State Highway 16, 1.5 miles upstream from Flat Creek, 4.4 miles northeast of De Leon, Comanche County, and 6 miles downstream from Hog Creek.

Drainage area.--463 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 8, 1961	43	809	Sept. 19, 1962	82	28.4	Apr. 21, 1964	71	85.2
Jan. 9	42	56.9	Oct. 19	75	7.15	Apr. 24	75	15.7
Jan. 10	38	34.3	Nov. 14	57	3.16	Oct. 20	70	1.43
Jan. 13	46	56.8	Dec. 19	59	4.03	Dec. 29	52	5.54
Feb. 28	52	14.8	Jan. 29, 1963	41	3.02	Feb. 3, 1965	45	9.17
Apr. 4	62	4.82	Mar. 5	56	2.72	Mar. 9	58	9.46
May 9	78	8.40	Apr. 9	74	2.44	Apr. 15	64	8.99
Dec. 6	52	7.27	May 13	86	3.08	June 23	73	5.49
Jan. 15, 1962	37	2.94	June 19	81	56.3	Jan. 20, 1966	38	2.35
Feb. 21	56	1.86	Dec. 3	52	.69	Mar. 1	50	2.43
Mar. 27	70	1.30	Jan. 7, 1964	38	.71	Apr. 5	65	1.03
May 1	77	1.79	Feb. 12	54	26.0	May 11	65	78.1
Aug. 8	90	5.16	Mar. 17	61	5.56			

BRAZOS RIVER BASIN

8-0993. Sabana River near De Leon, Tex.

Location.--Lat 32°06'48", long 96°36'18", at bridge on Farm Road 587, 0.6 miles downstream from Spring Branch, 3.8 miles upstream from Turkey Creek, and 4 miles west of De Leon, Comanche County.

Drainage area.--263 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 13, 1960	82	0.11	Sept. 19, 1962	80	13.4	Apr. 22, 1964	71	27.4
Oct. 11	75	1.28	Nov. 14	52	5.08	Apr. 24	74	6.34
Jan. 8, 1961	46	1,190	Dec. 19	56	5.62	May 28	76	1.84
Jan. 8	45	809	Jan. 29, 1963	39	4.15	Feb. 3, 1965	44	7.52
Jan. 9	40	103	Mar. 5	53	3.20	Mar. 9	53	8.98
Jan. 10	40	40.0	Apr. 9	74	2.51	Apr. 13	65	5.11
Jan. 17	47	14.2	May 13	86	1.66	June 23	74	6.21
Feb. 28	51	9.91	June 19	76	48.2	July 27	87	5.57
Apr. 4	64	6.46	July 25	82	.94	Sept. 1	80	5.65
May 9	73	12.4	Aug. 30	83	.17	Oct. 6	68	1.00
Dec. 6	55	2.40	Sept. 26	74	.25	Nov. 8	64	9.65
Jan. 15, 1962	36	2.29	Dec. 3	48	1.46	Dec. 15	46	1.87
Feb. 21	56	2.24	Jan. 7, 1964	45	1.53	Jan. 20, 1966	40	2.14
Mar. 27	67	1.63	Feb. 12	52	3.02	Mar. 1	54	2.28
May 1	74	1.29	Mar. 17	60	2.77	Apr. 5	64	1.62
July 4	78	.73	Apr. 21	69	106	July 20	84	.79

BRAZOS RIVER BASIN

8-0995. Leon River near Hasse, Tex.

Location.--Lat 31°57'28", long 98°27'32", at bridge on U. S. Highways 67 and 377, 500 ft upstream from Gulf, Colorado and Santa Fe Railway Co. bridge, 0.3 mile upstream from Walnut Creek, 2.0 miles downstream from Proctor Reservoir, and 2.1 miles northeast of Hasse, Comanche County.

Drainage area.--1,268 sq mi.

Remarks.--Flow regulated by Proctor Reservoir since Jan. 30, 1963

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 27, 1949	81	4.61	June 24, 1954	78	2.62	Jan. 16, 1962	39	13.4
Nov. 29	55	9.59	Oct. 13	76	59.9	Feb. 21	56	14.0
Feb. 9, 1950	53	22.0	Dec. 14	49	.30	Mar. 27	58	12.1
Mar. 15	50	26.5	Jan. 19, 1955	48	.59	May 1	63	16.1
Apr. 11	69	10.3	Mar. 16	65	9.16	June 6	78	3.64
June 21	78	15.8	Mar. 2, 1956	58	.52	Aug. 9	83	14.9
Aug. 21	70	1.00	Apr. 11	55	10.0	Sept. 19	78	94.0
Sept. 20	76	1.80	Feb. 7, 1958	46	25.6	Jan. 29, 1963	35	24.2
Feb. 20, 1951	54	5.97	Apr. 8	65	30.6	Mar. 5	55	18.2
Mar. 14	55	4.69	Oct. 16	78	.90	Apr. 9	72	16.4
Apr. 17	62	2.99	Dec. 16	37	3.85	May 29	74	244
May 15	70	4.96	Jan. 20, 1959	48	5.21	July 25	82	8.51
June 13	74	730	Feb. 18	54	7.03	Aug. 29	85	7.61
Oct. 24	67	5.37	Mar. 19	56	3.81	Sept. 28	77	9.16
Feb. 15, 1952	71	.72	Apr. 21	61	22.1	Dec. 3	56	12.2
Mar. 12	55	.99	May 19	74	.64	Jan. 7, 1964	43	12.7
Apr. 16	67	2.81	Sept. 1	81	20.2	Mar. 17	60	86.1
May 21	70	63.2	Feb. 24, 1960	42	66.4	May 28	75	10.2
June 24	77	.77	Mar. 29	64	56.5	Aug. 11	79	12.4
Feb. 19, 1953	50	.87	Dec. 21	38	4.82	Sept. 15	75	8.87
Oct. 15	69	4.50	Jan. 17, 1961	47	78.2	Sept. 30	76	2,130
Nov. 18	59	5.01	Feb. 28	52	76.3	Mar. 9, 1965	58	7.27
Jan. 6, 1954	42	2.07	Apr. 4	62	40.7	Apr. 13	63	10.6
Feb. 16	55	2.46	May 9	71	77.0	Dec. 15	49	11.3
May 6	64	8.75	Oct. 25	73	2.00	Mar. 1, 1966	52	8.68
May 25	77	16.0	Dec. 5	55	20.9	Apr. 5	66	8.88

BRAZOS RIVER BASIN

8-1000. Leon River near Hamilton, Tex.

Location.--Lat 31°47'19", long 98°07'16", at bridge on U. S. Highway 281, 2.2 miles upstream from Mesquite Creek, 3.6 miles downstream from Bear Creek, and 5.9 miles north of Hamilton, Hamilton County.

Drainage area.--1,914 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 11, 1960	76	8.70	Jan. 29, 1963	34	34.4	Sept. 15, 1964	73	2.01
Dec. 12	43	104	Mar. 5	54	29.6	Dec. 1	49	269
Dec. 20	47	47.7	Apr. 9	73	26.8	Mar. 25, 1965	46	50.6
Dec. 5, 1961	57	52.5	May 14	64	33.2	May 5	72	18.7
Jan. 15, 1962	38	39.6	Sept. 26	74	4.87	Sept. 21	80	1.62
Mar. 27	63	28.0	Oct. 30	59	2.25	Oct. 26	60	11.7
May 1	74	36.4	Dec. 10	46	12.0	Dec. 1	51	15.5
June 6	66	3.46	Jan. 13, 1964	34	12.8	Jan. 11, 1966	51	15.9
July 4	85	39.2	Feb. 12	49	214	Feb. 24	45	20.3
Aug. 8	88	29.2	Feb. 18	47	212	May 11	70	463
Sept. 19	79	164	Mar. 25	61	110	July 22	82	396
Nov. 14	52	36.0	June 3	73	12.2	Aug. 24	77	11.3
Dec. 19	52	44.6	July 7	86	.36	Sept. 27	75	218

BRAZOS RIVER BASIN

8-1005. Leon River at Gatesville, Tex.

Location.--Lat 31°26'05", long 97°45'35", at bridge on U. S. Highway 24 in Gatesville, Coryell County, 0.1 mile downstream from Dodds Creek, and 5.3 miles upstream from Cottonwood Creek.

Drainage area.--2,365 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 16, 1950	72	1.51	Apr. 20, 1955	71	55.6	Nov. 28, 1960	63	21.2
Oct. 31	68	.77	June 1	78	132	Apr. 18, 1961	62	147
Dec. 12	46	1.83	July 8	88	11.5	May 25	71	251
Jan. 10, 1951	45	5.67	Aug. 19	77	1.39	Aug. 29	76	33.9
Feb. 8	51	7.60	Nov. 2	66	1.04	Oct. 3	64	136
Feb. 21	52	15.0	Dec. 14	48	1.05	Jan. 17, 1962	43	117
Mar. 22	59	7.05	Jan. 18, 1956	40	5.72	Feb. 20	56	91.2
Apr. 26	70	97.1	Feb. 22	60	8.39	Mar. 28	62	66.4
May 25	72	326	Apr. 4	68	.46	May 2	72	200
June 14	80	1,450	Oct. 11	67	.19	June 5	80	21.0
June 14	80	1,710	Dec. 6	59	.42	Aug. 14	86	19.6
June 15	73	1,270	Feb. 6	60	5.54	Oct. 24	68	105
July 13	81	1.68	Mar. 19	62	9.38	Dec. 5	57	65.5
Aug. 7	88	.34	June 21	82	207	Jan. 10, 1963	51	52.8
Jan. 10, 1952	56	.49	Feb. 11, 1958	43	135	Feb. 15	45	47.9
Mar. 27	56	.70	Mar. 25	59	450	Mar. 27	66	40.2
Apr. 23	64	2,120	Apr. 15	62	413	July 17	86	22.9
Apr. 24	70	658	June 19	84	81.0	Sept. 26	75	7.06
May 8	75	40.6	Sept. 9	78	11.9	Oct. 31	71	.68
May 26	68	3,200	Sept. 29	75	92.4	Dec. 10	47	15.7
Jan. 27, 1953	53	6.77	Nov. 4	58	18.5	Jan. 14, 1964	33	14.3
Mar. 10	51	452	Dec. 8	50	13.7	Feb. 18	48	211
Apr. 20	61	9.10	Jan. 13, 1959	49	17.5	Mar. 25	62	119
May 15	70	2,020	Feb. 18	59	23.2	June 3	75	23.3
June 9	85	14.4	Mar. 26	63	14.7	July 7	85	1.40
Aug. 11	83	.87	Apr. 29	73	18.7	Aug. 11	90	.40
Oct. 19	70	11.5	June 5	78	194	Sept. 15	81	1.24
Nov. 25	52	8.50	June 5	78	168	Mar. 25, 1965	48	192
Jan. 18, 1954	50	7.24	July 10	81	30.0	May 5	72	56.6
Feb. 18	57	4.31	Aug. 12	82	16.1	Sept. 21	80	17.9
Mar. 24	69	3.00	Sept. 15	75	5.07	Oct. 26	60	28.8
Apr. 28	72	25.9	Dec. 16	54	305	Dec. 1	55	53.7
June 4	79	6.33	Apr. 5, 1960	65	165	Jan. 14, 1966	48	49.4
Oct. 20	66	15.7	May 10	72	165	Feb. 24	43	86.0
Nov. 16	66	61.1	June 10	80	113	Apr. 5	62	47.2
Dec. 30	50	.30	Aug. 18	84	32.5	May 11	70	583
Feb. 11, 1955	44	50.3	Sept. 21	82	2.17	Aug. 24	80	43.8
Mar. 14	73	.56	Nov. 5	63	20.0	Sept. 28	74	253

ERAZOS RIVER BASIN

8-1010. Cowhouse Creek at Pidcoke, Tex.

Location.--Lat 31°17'05", long 97°53'05", at bridge on Farm Road 116, 0.1 mile downstream from Beehouse Creek, 0.6 mile northeast of Pidcoke, Coryell County, and 4.9 miles upstream from Table Rock Creek.

Drainage area.--455 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 12, 1950	45	0.35	Aug. 1, 1958	84	2.47	Jan. 17, 1962	44	36.5
Jan. 10, 1951	49	.61	Sept. 9	81	8.79	Feb. 20	56	33.2
Feb. 9	58	.82	Sept. 29	76	7.67	Mar. 28	64	16.0
Mar. 22	58	.29	Dec. 8	54	2.07	May 2	68	18.7
Apr. 26	70	130	Jan. 12, 1959	53	2.22	June 5	80	7.06
June 15	78	33.4	Feb. 18	59	5.83	Oct. 24	66	1.75
Apr. 23, 1952	66	180	Mar. 26	72	1.34	Dec. 5	55	5.75
Apr. 24	66	42.2	Apr. 29	80	1.61	Jan. 10, 1963	53	6.09
May 8	80	1.46	June 4	83	81.3	Feb. 15	46	4.07
Dec. 19	48	661	June 4	83	81.8	Mar. 11	65	92.6
Mar. 10, 1953	51	360	June 4	85	143	Mar. 27	67	4.16
May 18	73	219	July 9	89	1.80	Feb. 18, 1964	51	.27
June 9	87	3.25	Aug. 22	88	.28	Mar. 25	66	11.3
Jan. 18, 1954	48	.80	Sept. 15	87	.15	Apr. 27	77	52.4
Nov. 15	61	103	Oct. 6	72	312	June 3	78	4.34
Feb. 11, 1955	55	.65	Oct. 12	76	81.4	July 7	93	.32
Mar. 14	65	67.6	Nov. 11	57	57.5	Sept. 14	76	.20
Mar. 14	65	47.1	Jan. 25, 1960	45	193	Oct. 27	66	92.1
Mar. 15	65	21.0	Mar. 8	49	132	Oct. 29	72	25.4
Apr. 21	72	1.07	Apr. 5	69	73.0	Nov. 5	64	180
May 18	73	205	May 11	70	27.9	Dec. 1	51	21.7
May 20	69	138	June 10	82	10.9	Jan. 5, 1965	57	35.1
May 21	77	39.9	July 15	88	4.21	Mar. 25	50	61.8
May 24	85	12.2	Aug. 18	97	1.06	July 14	86	20.3
Aug. 23	88	6.66	Nov. 4	68	22.1	Sept. 21	82	2.84
Feb. 22, 1956	66	.41	Nov. 28	65	27.7	Oct. 26	62	9.70
Feb. 6, 1957	64	.24	Feb. 10, 1961	50	579	Dec. 2	53	49.9
Mar. 19	64	.81	Mar. 15	62	161	Jan. 14	49	48.5
June 21	81	36.4	Apr. 17	68	72.2	Feb. 24	43	90.9
Jan. 15, 1958	49	70.1	May 25	73	53.0	Apr. 5	64	38.3
Feb. 11	44	48.0	June 28	79	75.6	May 11	73	117
Mar. 24	57	160	July 25	84	95.0	June 14	77	56.1
Apr. 15	64	148	Aug. 28	84	11.3	July 21	91	6.22
May 22	76	99.5	Oct. 24	73	31.0	Aug. 24	77	50.0
June 19	85	33.9	Dec. 5	58	49.0	Sept. 28	80	76.5

BRAZOS RIVER BASIN

8-1025. Leon River near Belton, Tex.

Location.--Lat 31°04'15", long 97°26'30", 1,400 ft upstream from bridge on Farm Road 817, 2,000 ft upstream from concrete dam, 1 mile upstream from bridge on U. S. Highway 81, 2 miles northeast of Belton, Bell County, 3.2 miles downstream from Belton Dam, and 5.0 miles upstream from Nolan Creek.

Drainage area.--3,572 sq mi.

Water temperature records available.--Thermograph record from March 1957 to September 1966.

Remarks.--Flow regulated by Belton Reservoir since Mar. 8, 1954

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1957	Mean	-	-	-	-	-	79	78	65	71	80	81	80
	Max.-Min.	- -	- -	- -	- -	- -	86 71	87 61	73 61	79 66	84 75	85 77	86 75
1958	Mean	72	59	52	50	52	56	62	64	72	81	87	88
	Max.-Min.	86 62	62 55	55 50	51 49	62 49	62 53	63 59	69 61	81 67	90 72	94 82	95 83
1959	Mean	79	72	64	59	64	70	75	78	71	76	86	83
	Max.-Min.	85 74	74 66	68 59	67 53	70 58	78 62	83 64	83 72	80 64	86 66	90 73	90 83
1960	Mean	74	61	54	50	48	48	52	68	76	77	78	78
	Max.-Min.	87 68	78 54	57 53	55 48	52 45	50 45	54 49	81 56	82 72	81 72	80 77	81 75
1961	Mean	74	73	56	50	48	58	64	76	77	76	82	82
	Max.-Min.	81 63	82 66	75 51	53 47	50 47	63 49	72 61	84 70	83 72	77 72	84 77	87 77
1962	Mean	76	64	57	50	52	61	68	74	81	83	82	81
	Max.-Min.	81 71	73 59	64 53	58 46	61 46	72 48	75 60	86 63	86 74	88 79	84 81	88 71
1963	Mean	74	67	58	60	62	62	72	64	76	78	81	80
	Max.-Min.	79 70	73 61	62 54	71 52	70 57	69 54	80 65	81 54	82 71	81 71	83 78	83 76
1964	Mean	74	63	58	53	58	64	67	68	76	81	83	80
	Max.-Min.	85 66	66 61	64 50	58 47	61 54	69 58	72 63	73 66	81 70	86 76	89 76	84 75
1965	Mean	74	68	57	54	52	53	58	64	68	78	83	82
	Max.-Min.	78 71	72 64	64 53	57 53	57 51	57 51	67 51	67 60	73 61	83 72	84 81	86 77
1966	Mean	76	67	60	56	54	60	69	68	74	86	82	78
	Max.-Min.	79 60	70 65	65 57	58 50	58 51	68 55	75 65	75 64	82 70	90 81	88 76	81 76
1957-66	Mean	75	66	57	54	54	61	66	69	74	80	82	81
	Max.-Min.	87 62	82 54	75 50	71 46	70 45	86 45	87 49	86 54	86 61	90 66	94 73	95 71

BRAZOS RIVER BASIN

8-1038. Lampasas River near Kempner, Tex.

Location.--Lat 31°04'46", long 98°00'59", at bridge on U. S. Highway 190, 0.5 mile upstream from Mesquite Creek, 0.8 mile west of Kempner, Lampasas County, and 1 mile downstream from Sulphur Creek.

Drainage area.--817 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 22, 1962	79	18.8	Nov. 6, 1963	73	7.81	Feb. 15, 1965	47	176
Nov. 27	62	40.6	Dec. 10	45	13.9	May 4	75	43.9
Jan. 9, 1963	53	46.2	Jan. 15, 1964	38	11.0	July 14	88	48.1
Feb. 5	46	30.2	Feb. 19	56	12.2	Aug. 16	84	120
Mar. 15	60	28.0	Mar. 20	56	217	Sept. 20	82	18.9
Apr. 23	76	18.8	Mar. 24	69	39.5	Oct. 27	66	35.8
May 14	83	12.4	Apr. 21	74	22.4	Dec. 2	54	75.7
May 18	78	91.4	Apr. 28	76	56.6	Jan. 14, 1966	54	102
May 24	70	42.0	June 2	81	23.7	Apr. 6	66	97.3
June 3	89	10.1	July 7	96	5.81	June 13	87	58.4
June 19	90	36.0	Aug. 10	91	6.05	July 22	84	23.9
July 24	84	2.98	Sept. 14	77	8.62	Aug. 25	79	71.3
Aug. 28	87	2.59	Nov. 30	56	26.2	Sept. 27	82	106
Oct. 4	65	6.56	Jan. 4, 1965	58	24.6			

BRAZOS RIVER BASIN

8-1040. Lampasas River at Youngsfort, Tex.

Location.--Lat 30°57'26", long 97°42'30", near county road low-water crossing, 0.7 mile east of Youngsfort, Bell County, and 4.5 miles downstream from Rocky Creek.

Drainage area.--1,244 sq mi.

Water temperature records available.--Once-daily readings from September 1961 to September 1964. Temperature readings at irregular intervals for the period 1948-56 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1961	Mean	-	-	-	-	-	-	-	-	-	-	-	61
	Max.-Min.	-	-	-	-	-	-	-	-	-	-	-	87 72
1962	Mean	73	66	60	46	61	61	70	80	84	90	90	82
	Max.-Min.	81 68	78 55	75 45	55 32	69 46	74 49	83 59	87 71	91 77	94 81	95 80	90 69
1963	Mean	75	62	54	45	52	65	75	80	87	-	-	-
	Max.-Min.	83 62	70 51	63 44	57 34	67 43	79 56	82 61	87 70	95 79	-	-	-
1964	Mean	73	62	49	56	59	69	70	77	81	85	-	79
	Max.-Min.	81 63	70 49	60 38	70 41	65 47	77 59	77 59	84 72	90 73	95 78	-	94 69
1961-64	Mean	74	63	54	49	57	65	72	79	84	88	90	81
	Max.-Min.	83 62	78 49	75 38	70 32	69 43	79 49	83 59	87 70	95 73	95 78	95 80	94 69

BRAZOS RIVER BASIN

8-1041. Lampasas River near Belton, Tex.

Location.--Lat 31°00'06", long 97°29'32", at bridge on Interstate Highway 35 and U. S. Highway 81, 3.5 miles downstream from Stillhouse Hollow Dam (under construction in 1966), 4.1 miles southwest of Belton, Bell County, and 13 miles upstream from confluence with Leon River.

Drainage area.--1,325 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 7, 1963	58	31.3	Mar. 23, 1964	60	171	July 2, 1965	81	237
Mar. 14	64	48.5	Apr. 17	68	1,720	Aug. 5	84	71.6
Apr. 24	73	18.6	Apr. 18	67	396	Sept. 8	83	8.12
May 23	74	29.2	Apr. 21	70	75.3	Oct. 7	67	64.9
June 6	88	7.52	June 2	74	117	Nov. 11	61	402
June 19	79	159	July 6	87	6.99	Jan. 27, 1966	36	165
July 22	94	.75	Aug. 10	89	1.37	Mar. 10	56	276
Aug. 26	85	.89	Sept. 10	87	3.20	Apr. 12	75	154
Oct. 1	73	3.21	Oct. 16	69	17.3	June 16	84	99.0
Nov. 4	68	6.21	Nov. 20	55	554	July 21	87	35.2
Dec. 9	46	10.2	Dec. 23	52	55.6	Aug. 23	81	51.0
Jan. 13, 1964	33	10.5	Mar. 4, 1965	48	486	Sept. 26	80	236
Feb. 17	47	44.4						

BRAZOS RIVER BASIN

8-1045. Little River near Little River, Tex.

Location.--Lat 30°57'55". long 97°20'45", at bridge on State Highway 95, 2.4 miles southeast of Little River, Bell County, and 5 miles downstream from confluence of Leon and Lampasas Rivers.

Drainage area.--5,274 sq mi.

Water temperature records available.--October 1923 to May 1929, August 1962 to September 1965. Temperature readings at irregular intervals for the period August 1962 to September 1966 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1965	Mean	70	65	56	56	53	56	69	72	73	77	83	83
	Max.-Min.	75 65	70 54	63 48	63 50	58 47	64 47	80 61	77 61	76 69	79 75	89 79	87 74
1966	Mean	71	65	60	54	52	57	68	70	75	85	82	79
	Max.-Min.	75 67	68 62	67 56	61 41	61 41	62 53	72 65	76 64	82 70	86 82	89 76	84 75
1965-66	Mean	70	65	58	55	52	56	68	71	74	81	82	81
	Max.-Min.	75 65	70 54	67 48	65 41	61 41	64 47	80 61	77 61	82 69	86 75	89 76	87 74

BRAZOS RIVER BASIN

8-1050. San Gabriel River at Georgetown, Tex.

Location.--Lat 30°39'10", long 97°39'20", at Missouri-Kansas-Texas Railroad Co. bridge, 1 1/4 miles downstream from confluence of North and South Forks, and 1 and three fourths miles northeast of Georgetown, Williamson County.

Drainage area.--399 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 16, 1949	52	10.4	Nov. 23, 1954	55	1.71	Mar. 18, 1960	52	195
Jan. 20, 1950	54	8.75	Dec. 31	50	1.56	Apr. 13	68	124
Feb. 24	68	27.3	Feb. 10, 1955	55	8.21	June 16	88	20.8
Mar. 31	62	11.8	Mar. 18	69	2.45	July 23	88	27.8
May 4	80	31.9	Apr. 25	80	.52	Aug. 25	87	12.8
June 8	83	55.5	May 18	71	1,560	Sept. 29	78	11.2
July 13	87	15.1	June 6	73	450	Oct. 31	64	225
Aug. 22	90	3.84	June 7	83	74.6	Dec. 13	42	599
Sept. 18	86	11.7	July 11	90	1.23	Jan. 17, 1961	52	458
Oct. 27	73	4.73	Sept. 23	80	.14	Feb. 13	61	561
Nov. 9	57	4.31	Nov. 3	66	.16	Mar. 28	74	196
Dec. 1	67	4.01	Dec. 15	53	.94	May 29	80	42.6
Jan. 5, 1951	59	4.49	Jan. 19, 1956	39	3.43	July 24	82	155
Feb. 16	54	4.97	Feb. 23	69	1.87	Oct. 2	73	77.7
Mar. 22	72	3.14	Apr. 5	75	.92	Dec. 11	56	62.5
Apr. 23	73	3.51	Feb. 7, 1957	68	3.88	Feb. 19, 1962	64	43.0
July 9	88	1.76	Mar. 18	66	23.8	May 1	77	89.3
Aug. 6	90	1.05	Apr. 23	72	16,700	June 11	82	50.5
Sept. 6	90	2.68	Apr. 23	72	14,600	Oct. 31	62	33.0
Jan. 11, 1952	49	3.01	Apr. 23	72	12,100	Jan. 11, 1963	52	19.7
Feb. 21	63	4.07	Nov. 28	58	385	Mar. 22	62	18.4
Apr. 3	66	4.49	Jan. 17, 1958	55	174	Apr. 25	73	15.4
May 9	82	16.4	Feb. 18	50	159	May 27	82	16.4
June 18	91	27.3	Mar. 26	61	318	June 20	85	7.95
July 28	90	3.58	Apr. 16	68	182	Aug. 1	85	1.54
Aug. 28	81	1.95	May 23	78	138	Oct. 9	81	2.40
Oct. 6	72	2.43	June 19	76	116	Nov. 21	70	10.2
Nov. 13	59	2.73	Aug. 1	88	24.2	Dec. 15	45	11.3
Dec. 22	56	29.7	Sept. 4	78	20.3	Jan. 27, 1964	54	13.7
Jan. 26, 1953	60	28.7	Oct. 14	71	48.7	Mar. 6	62	34.1
Mar. 13	75	75.7	Nov. 6	70	50.8	Mar. 17	62	28.6
Apr. 21	75	15.8	Dec. 10	47	42.0	Apr. 7	70	41.6
June 5	79	43.1	Jan. 9, 1959	54	34.2	Apr. 26	74	923
July 3	89	5.70	Feb. 17	61	70.0	May 11	68	45.5
Aug. 10	92	1.07	Mar. 24	74	48.2	June 26	85	13.3
Sept. 22	81	2.94	Apr. 28	77	50.7	July 27	83	4.46
Oct. 22	76	2.58	June 3	77	38.3	Aug. 12	99	2.75
Dec. 16	50	36.6	July 8	90	26.8	Oct. 13	66	14.4
Jan. 19, 1954	62	26.4	Aug. 10	86	25.6	Nov. 17	72	66.3
Feb. 17	55	18.6	Sept. 14	72	35.3	Dec. 21	51	48.6
Mar. 25	70	10.5	Oct. 16	67	466	Feb. 15, 1965	48	206
Apr. 29	79	2.83	Nov. 19	47	196	Sept. 15	83	15.9
May 31	82	4.22	Dec. 21	52	490	Dec. 29	56	186
Oct. 21	75	2.13	Feb. 1, 1960	55	284	Apr. 11	74	107

## BRAZOS RIVER BASIN

8-1065. Little River at Cameron, Tex.

Location.--Lat 30°49'53", long 96°57'01", at site of old McCowan Bridge, 2,020 ft upstream from bridge on U. S. Highway 77, 1.1 miles upstream from Gulf, Colorado and Santa Fe Railway Co. bridge, and 2 miles southeast of Cameron, Milan County.

Drainage area.--6,982 sq mi.

Water temperature records available.--Once-daily readings from October 1959 to September 1966. Temperature readings at irregular intervals for the period 1948-66 are on file in the district office at Austin.

## Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1960	Mean	-	59	55	51	50	56	70	75	85	86	85	79
	Max.-Min.	-	69 51	59 52	61 41	59 41	68 44	75 60	83 66	88 79	89 81	89 74	85 72
1961	Mean	71	62	51	49	53	60	67	76	78	79	81	78
	Max.-Min.	76 64	68 52	61 41	53 44	65 45	65 53	76 60	80 72	83 70	82 76	84 77	85 71
1962	Mean	73	60	53	47	62	63	71	79	83	88	89	-
	Max.-Min.	75 65	73 55	62 46	54 39	65 52	65 55	75 65	82 74	86 82	90 82	90 86	-
1963	Mean	79	65	59	47	53	67	76	80	86	88	90	86
	Max.-Min.	80 75	79 60	64 50	57 39	59 48	72 60	80 62	84 75	87 84	90 85	90 88	90 77
1964	Mean	79	66	57	53	55	64	73	79	83	87	89	83
	Max.-Min.	83 72	71 57	57 44	60 43	58 52	69 55	76 69	85 73	87 79	90 84	92 85	89 72
1965	Mean	73	67	57	57	54	57	71	76	77	82	85	82
	Max.-Min.	77 69	75 55	62 54	63 53	62 49	62 52	79 61	79 72	79 74	85 78	87 83	87 73
1966	Mean	70	66	56	51	52	62	70	72	79	86	82	78
	Max.-Min.	78 63	69 60	65 50	63 39	60 45	68 54	74 64	81 65	89 75	87 83	87 75	84 75
1960-66	Mean	74	64	55	51	54	61	71	77	82	85	86	81
	Max.-Min.	83 63	79 51	65 41	63 39	65 41	72 44	80 60	85 65	89 70	90 76	92 74	90 71

## BRAZOS RIVER BASIN

8-1087. Brazos River at State Highway 21 near Bryan, Tex.

Location.--Lat 30°37'40", long 96°32'38" at bridge on State Highway 21, 2 miles upstream from Little Brazos River, 8 miles upstream from stream-gaging station, and 11 miles southwest of Bryan; Brazos County.

Drainage area.--36,400 sq mi, at gaging station, of which 9,240 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from August 1961 to September 1966. At the gaging station, temperature readings at irregular intervals for the period 1948-66 are on file at the district office in Austin.

## Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1961	Mean	-	-	-	-	-	-	-	-	-	-	-	81
	Max.-Min.	-	-	-	-	-	-	-	-	-	-	-	89 71
1962	Mean	71	60	58	57	64	60	70	78	83	-	-	81
	Max.-Min.	78 66	75 55	68 47	71 43	70 54	73 41	79 59	85 72	89 77	-	-	87 70
1963	Mean	74	61	56	47	55	66	74	79	84	84	84	81
	Max.-Min.	81 61	68 56	68 43	64 38	65 46	75 57	80 60	85 72	88 80	86 81	87 83	85 68
1964	Mean	76	62	49	52	54	63	75	77	82	85	85	80
	Max.-Min.	82 72	73 52	58 38	64 35	62 47	75 54	82 65	83 73	89 78	89 79	89 82	88 70
1965	Mean	70	67	57	55	48	57	73	75	79	85	86	84
	Max.-Min.	76 61	74 56	71 44	68 42	61 48	64 50	79 60	77 69	83 73	89 81	88 82	89 72
1966	Mean	69	68	59	51	56	62	68	75	81	84	83	78
	Max.-Min.	72 66	72 64	68 50	59 40	63 49	70 50	75 62	-	83 80	85 82	85 76	85 73
1961-66	Mean	72	64	56	52	56	62	72	77	82	84	84	81
	Max.-Min.	82 61	75 52	71 38	71 35	70 46	75 41	82 59	85 69	89 73	89 79	89 76	89 68



## BRAZOS RIVER BASIN

8-1097. Middle Yegua Creek near Dime Box, Tex.

Location.--Lat 30°20'20", long 96°54'15", at bridge on State Highway 21, 4½ miles upstream from West Yegua Creek, and 5.0 miles southwest of Dime Box, Lee County.

Drainage area.--236 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 25, 1962	60	1.49	May 4, 1964	74	0.90	Jan. 5, 1966	52	25.6
Nov. 26	62	3.38	Oct. 5	72	2.76	Feb. 7	55	14.1
Feb. 7, 1963	55	9.83	Jan. 27, 1965	53	53.0	Mar. 17	69	20.8
Mar. 13	69	13.9	Jan. 28	50	27.2	June 1	79	45.6
Apr. 19	74	9.22	Mar. 8	46	9.79	July 11	88	2.08
June 18	83	.62	Apr. 20	71	4.30	Aug. 19	82	1.65
Mar. 3, 1964	62	3.22	Oct. 25	67	1.66	Sept. 13	60	24.8
Mar. 23	60	2.92	Nov. 22	65	10.1			

## BRAZOS RIVER BASIN

8-1098. East Yegua Creek near Dime Box, Tex.

Location.--Lat 30°24'26", long 96°49'02", at bridge on State Highway 21, 0.8 mile downstream from mouth of Buffalo Creek, and 3.5 miles north of Dime Box, Lee County.

Drainage area.--243 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 17, 1962	80	6.15	Sept. 27, 1964	75	406	Nov. 22, 1965	64	10.2
Oct. 25	65	2.75	Oct. 5	69	6.90	Jan. 5, 1966	52	27.7
Nov. 26	62	4.73	Nov. 9	63	9.74	Feb. 7	57	17.7
Feb. 7, 1963	52	16.1	Dec. 14	44	10.1	Mar. 17	65	25.4
Mar. 13	64	23.3	Jan. 27, 1965	52	12.5	Apr. 22	65	21.0
June 18	83	.47	Mar. 8	47	12.5	June 1	78	16.3
Dec. 17	47	.13	Apr. 20	69	34.2	July 11	80	2.05
Jan. 24, 1964	60	2.82	Aug. 13	77	.65	Aug. 19	80	2.80
Mar. 23	60	8.28	Oct. 21	65	14.1	Sept. 13	77	9.47
June 15	77	2.23						

## BRAZOS RIVER BASIN

8-1100. Yegua Creek near Somerville, Tex.

Location.--Lat 30°19'18", long 96°30'47", at bridge on State Highway 36, 760 ft downstream from Gulf, Colorado and Santa Fe Railway Co. bridge, 2 miles south of Somerville, Burleson County, and 5 miles upstream from Davidson Creek.

Drainage area.--1,008 sq mi.

Water temperature records available.--Once-daily readings from September 1961 to September 1966. Temperature readings at irregular intervals for the period 1948-56 are on file in the district office at Austin.

## Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1961	Mean	-	-	-	-	-	-	-	-	-	-	-	80
	Max.-Min.	-	-	-	-	-	-	-	-	-	-	-	86 74
1962	Mean	72	-	-	-	63	64	71	80	83	90	-	-
	Max.-Min.	80 64	-	-	-	75 48	79 42	82 59	89 70	90 77	95 82	-	-
1963	Mean	-	65	57	51	58	69	-	81	85	-	-	-
	Max.-Min.	-	73 52	69 47	66 41	68 49	77 60	-	90 71	91 80	-	-	-
1964	Mean	-	65	48	53	53	64	73	79	83	-	-	-
	Max.-Min.	-	75 51	62 39	65 35	60 48	72 60	80 61	89 69	88 73	-	-	-
1965	Mean	-	67	56	60	56	60	75	85	85	87	84	-
	Max.-Min.	-	75 54	69 42	69 50	64 49	70 49	80 67	86 70	91 78	91 82	89 81	-
1966	Mean	74	69	59	51	56	64	72	78	84	85	85	80
	Max.-Min.	81 64	78 61	71 50	63 39	64 47	74 50	79 62	85 69	91 80	89 80	89 78	90 75
1961-66	Mean	73	66	59	54	57	64	73	79	84	87	84	80
	Max.-Min.	81 64	78 51	71 39	69 35	75 47	79 42	82 59	90 69	91 73	95 80	89 78	90 74

## BRAZOS RIVER BASIN

8-1101. Davidson Creek near Lyons, Tex.

Location.--lat 30°25'10", long 96°32'24", at bridge on Farm Road 60, 1.2 miles downstream from Berry Creek, and 2.8 miles northeast of Lyons, Burleson County.

Drainage area.--195 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 25, 1962	61	1.14	Mar. 20, 1964	62	77.2	Jan. 28, 1965	51	3.13
Jan. 2, 1963	54	34.0	Mar. 20	62	73.2	Mar. 10	60	5.64
Feb. 6	55	8.40	Mar. 23	62	7.45	Jan. 6, 1966	48	76.3
Mar. 12	65	12.0	May 5	72	15.0	Feb. 8	61	8.83
Dec. 18	45	.65	June 16	78	.03	Mar. 17	63	23.3
Jan. 23, 1964	62	.72	Oct. 5	68	.43	Apr. 21	67	19.3
Jan. 31	52	219	Nov. 11	60	.37	June 3	77	2.80
Feb. 1	52	44.2	Dec. 16	46	1.79	Sept. 14	74	3.58

## BRAZOS RIVER BASIN

8-1105. Navasota River near Easterly, Tex.

Location.--lat 31°10'10", long 96°17'55", at bridge on U. S. Highway 79, 1 mile upstream from Missouri Pacific Railroad Co. bridge, and 7 miles northeast of Easterly, Robertson County.

Drainage area.--940 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 4, 1949	71	10.6	Nov. 18, 1954	61	61.8	June 15, 1960	86	102
Nov. 9	55	14.5	Dec. 28	55	3.70	July 20	80	61.6
Dec. 20	58	55.5	Feb. 14, 1955	51	32.6	Aug. 24	86	57.6
Jan. 26, 1950	65	56.8	Mar. 16	69	5.72	May 31	80	19.5
Feb. 22	58	155	Apr. 19	75	44.4	July 7	85	27.4
Mar. 29	66	47.0	June 2	83	33.4	Aug. 7	87	12.8
May 3	70	187	July 7	86	1.90	Sept. 6	83	4.80
June 7	70	551	Aug. 17	84	1.15	Oct. 9	73	23.4
July 11	81	29.0	Sept. 20	88	.22	Mar. 27, 1961	63	38.9
Aug. 16	85	2.11	Nov. 1	73	.20	May 31	80	19.5
Sept. 21	86	2.49	Dec. 13	47	2.25	July 7	85	67.4
Oct. 25	73	2.91	Jan. 17, 1956	45	1.60	Aug. 7	87	12.8
Dec. 5	55	4.16	Feb. 21	60	42.8	Sept. 6	83	4.80
Jan. 9, 1951	52	4.96	Apr. 3	72	3.17	Oct. 9	73	23.4
Feb. 21	60	50.9	June 12	86	25.0	Mar. 27, 1962	63	38.9
Mar. 21	58	5.80	July 31	90	.28	Sept. 4	88	1.20
Mar. 29	60	282	Sept. 19	76	.24	Oct. 24	66	3.80
Apr. 30	76	86.8	Dec. 4	55	1.50	Feb. 6, 1963	49	8.94
June 1	85	8.46	Apr. 9, 1957	63	72.5	Mar. 11	68	16.2
July 12	85	.81	June 18	84	48.6	Apr. 17	76	9.75
Sept. 10	85	1.43	Feb. 5, 1958	56	41.9	June 20	88	5.68
Jan. 9, 1952	59	5.69	Mar. 18	52	64.9	Nov. 13	57	1.21
Feb. 13	63	653	Apr. 15	65	55.8	Dec. 19	42	3.57
Mar. 27	58	26.8	May 20	74	30.2	Jan. 22, 1964	54	25.1
May 7	76	54.3	June 16	88	6.17	Feb. 26	46	13.2
June 17	91	5.57	Sept. 3	86	21.3	Mar. 25	64	24.2
July 24	86	1.90	Oct. 9	76	18.4	May 6	74	30.8
Dec. 18	49	9.65	Oct. 31	62	39.0	June 18	83	3.50
Jan. 28, 1953	58	20.2	Dec. 11	47	62.3	July 22	83	.29
Mar. 11	62	1,300	Jan. 14, 1959	56	17.5	Oct. 6	71	3.02
Apr. 22	68	8.00	Feb. 24	56	93.6	Nov. 10	64	18.9
June 3	85	21.7	Mar. 31	68	23.4	Dec. 15	51	5.75
July 8	85	3.34	May 2	75	37.3	Jan. 28, 1965	49	66.9
Aug. 20	78	13.4	May 13	75	9,710	Mar. 9	53	41.3
Sept. 24	74	1.97	July 16	89	12.8	Oct. 19	72	5.67
Oct. 15	75	.23	Aug. 20	85	4.34	Nov. 24	70	3.86
Nov. 24	65	135	Sept. 22	78	4.31	Jan. 7, 1966	52	33.1
Jan. 7, 1954	47	30.3	Nov. 17	46	72.9	Feb. 9	61	36.0
Mar. 23	67	14.1	Jan. 28, 1960	52	145	Mar. 15	62	122
Apr. 27	76	6.02	Mar. 16	52	151	June 2	79	31.3
June 3	82	13.3	Apr. 12	65	35.7	July 14	88	2.33

BRAZOS RIVER BASIN

8-1110. Navasota River near Bryan, Tex.

Location--Lat 30°52'10", long 96°11'32", at bridge on U. S. Highway 190, 2.5 miles upstream from Shepherd Creek, and 17 miles northeast of Bryan, Brazos County.

Drainage area--1,429 sq mi.

Water temperature records available--Once-daily readings from October 1952 to September 1966.

Remarks--Mean temperatures computed for months with at least ten days of flow.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1959	Mean	70	61	48	48	54	59	65	76	81	83	83	79
	Max.-Min.	76 60	72 49	53 40	55 38	62 46	65 54	73 55	82 71	85 75	86 80	89 78	84 74
1960	Mean	69	53	52	49	48	53	68	74	81	83	82	77
	Max.-Min.	80 53	69 44	57 47	63 41	57 40	65 40	73 62	84 67	84 76	87 78	86 78	83 69
1961	Mean	70	60	48	46	52	63	65	76	79	81	81	77
	Max.-Min.	75 62	66 54	59 42	52 38	65 41	75 55	74 59	80 72	83 71	83 78	84 77	81 69
1962	Mean	68	58	52	44	58	56	66	76	80	84	83	79
	Max.-Min.	79 62	73 52	63 44	52 33	65 50	65 45	75 49	82 69	87 75	86 77	86 81	84 72
1963	Mean	72	56	51	44	48	62	71	76	82	84	83	- -
	Max.-Min.	80 61	60 51	60 41	55 35	56 43	70 53	77 57	81 69	84 77	86 80	85 81	- -
1964	Mean	70	60	45	47	48	57	70	75	80	82	82	78
	Max.-Min.	78 64	68 49	53 36	58 35	53 42	63 50	77 62	81 71	84 72	85 79	83 76	84 71
1965	Mean	64	62	52	53	50	55	71	74	81	85	82	79
	Max.-Min.	74 58	71 49	69 45	64 43	57 43	63 47	75 63	79 66	84 74	86 81	84 79	87 69
1966	Mean	67	63	53	47	45	58	67	75	81	85	82	77
	Max.-Min.	75 57	68 54	61 48	60 38	58 40	67 49	73 60	95 67	84 77	87 83	86 76	85 73
1959-66	Mean	69	59	50	47	51	58	68	75	81	83	82	78
	Max.-Min.	80 53	73 44	69 36	64 33	65 40	75 40	77 49	95 66	87 71	87 77	89 76	87 69

## BRAZOS RIVER BASIN

8-1115. Brazos River near Hempstead, Tex.

Location.--Lat 30°07'34", long 96°11'05", at bridge on U. S. Highway 290, 4,500 ft upstream from Texas and New Orleans Railroad Co. bridge, 6.5 miles northwest of Hempstead, Waller County, and 8 miles upstream from Caney Creek.

Drainage area.--42,640 sq mi, approximately, of which 9,240 sq mi is probably noncontributing.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 14, 1949	64	1,500	May 10, 1953	80	4,540	May 7, 1958	71	62,500
Apr. 14	69	2,390	July 5	88	1,720	May 12	78	35,200
Apr. 22	79	34,600	Aug. 3	95	638	Aug. 5	86	712
Apr. 25	66	13,400	Aug. 13	90	875	Aug. 8	87	934
May 18	79	4,320	Aug. 26	89	771	Sept. 4	86	1,670
May 19	79	22,500	Sept. 16	86	621	Nov. 4	61	2,030
May 20	73	42,500	Oct. 2	83	260	Dec. 30	48	1,070
May 21	72	45,800	Oct. 27	69	19,200	Feb. 18, 1959	51	14,900
May 21	72	39,100	Jan. 8, 1954	57	1,070	Apr. 7	72	996
May 24	78	10,700	Feb. 5	58	801	Aug. 4	85	4,080
June 3	87	9,600	Mar. 5	50	433	Sept. 1	84	2,030
July 25	84	1,900	Apr. 1	67	430	June 16, 1960	82	1,010
Aug. 24	88	1,120	Apr. 5	70	494	July 1	85	10,800
Sept. 21	83	1,650	June 1	80	5,920	Aug. 1	89	1,990
Nov. 2	58	9,660	July 1	80	1,790	Sept. 1	84	1,700
Dec. 1	66	746	July 19	88	1,020	Oct. 3	80	920
Jan. 9, 1950	51	1,710	July 26	85	1,230	Nov. 14	62	4,580
Feb. 13	61	32,300	Aug. 2	83	2,030	Dec. 13	45	72,200
Mar. 9	59	2,730	Aug. 9	86	810	Jan. 4, 1961	50	14,300
Apr. 12	73	922	Aug. 16	87	1,120	Feb. 6	47	22,200
Apr. 18	63	18,700	Aug. 23	84	1,110	Mar. 2	57	16,800
Apr. 20	65	25,500	Sept. 13	85	300	Apr. 26	77	2,570
Apr. 25	69	19,200	Oct. 8	78	983	June 2	79	1,460
May 1	73	10,200	Dec. 9	58	234	July 3	83	12,400
May 12	78	3,840	Jan. 4, 1955	66	254	Aug. 1	85	9,060
June 13	85	8,170	Feb. 1	66	306	Sept. 1	84	1,380
July 20	85	7,050	Mar. 3	66	970	Oct. 5	72	2,220
Aug. 10	85	4,220	Apr. 5	69	2,020	Nov. 3	65	2,140
Sept. 25	79	8,710	May 2	78	1,000	Dec. 6	64	3,070
Nov. 15	62	888	May 24	79	11,700	Mar. 5, 1962	54	3,050
Dec. 11	52	462	June 2	82	4,510	Apr. 2	64	1,730
Jan. 11, 1951	49	553	June 6	83	2,200	May 8	78	4,290
Feb. 6	54	877	July 4	89	1,300	June 11	82	8,490
Mar. 12	54	537	Aug. 4	81	723	July 19	86	1,240
Apr. 13	65	556	Sept. 9	68	832	July 31	87	599
May 8	73	2,280	Nov. 2	57	549	Nov. 20, 1963	64	803
June 5	77	1,900	Dec. 12	61	757	Dec. 17	42	1,560
July 2	85	1,840	Jan. 4, 1956	71	1,630	Jan. 28, 1964	52	566
July 25	88	1,580	Apr. 16	78	630	Apr. 7	69	1,440
Sept. 5	89	844	May 7	79	14,000	May 12	67	3,120
Oct. 2	82	885	May 14	85	5,080	June 16	82	1,560
Nov. 7	58	649	June 13	84	904	July 20	86	588
Dec. 12	59	445	July 9	90	1,320	Aug. 26	84	1,250
Jan. 8, 1952	62	413	July 10	86	1,660	Oct. 1	76	5,670
Feb. 6	55	476	July 16	87	1,800	Nov. 3	72	1,510
Apr. 9	69	370	Aug. 4	88	1,110	Dec. 8	50	2,080
May 3	89	2,330	Aug. 10	88	508	Jan. 11, 1965	52	1,760
May 28	72	21,700	Aug. 13	89	585	Jan. 26	57	24,800
May 31	73	16,500	Aug. 20	88	893	Feb. 25	49	13,600
June 30	84	641	Sept. 5	87	834	Mar. 23	58	3,420
July 29	88	395	Oct. 10	76	617	Apr. 26	78	2,140
Aug. 5	87	1,000	Nov. 1	69	616	June 1	58	54,500
Aug. 30	88	950	Nov. 5	63	764	Aug. 11	85	3,950
Sept. 29	81	252	Dec. 3	56	965	Dec. 22	50	13,900
Nov. 5	65	135	Dec. 20	55	602	Jan. 28, 1966	46	4,320
Jan. 5, 1953	51	8,500	Jan. 2, 1957	57	313	Feb. 28	52	18,000
Jan. 30	63	799	Feb. 4	63	417	Mar. 30	63	2,860
Mar. 1	64	2,260	Jan. 2, 1958	54	6,510	May 12	71	41,000
Mar. 27	72	3,900	Feb. 5	56	4,380	July 25	90	1,830
Apr. 26	81	412						

BRAZOS RIVER BASIN

8-1117. Mill Creek near Bellville, Tex.

Location.--Lat 29°52'51", long 96°12'18", at bridge on State Highway 36, 5 miles southeast of Bellville, Austin County, and 6 miles upstream from Brazos River.

Drainage area.--377 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 19, 1963	73	3.62	Aug. 26, 1964	86	10.4	Sept. 15, 1965	81	0.90
Dec. 16	45	10.6	Oct. 1	74	6.54	Nov. 16	72	24.5
Jan. 28, 1964	57	10.8	Nov. 2	73	3.67	Dec. 23	56	155
Mar. 4	62	399	Dec. 8	50	7.37	Jan. 25, 1966	44	605
Mar. 4	53	207	Jan. 11, 1965	54	24.8	Mar. 1	62	304
Mar. 5	55	96.7	Jan. 22	65	11,100	Apr. 4	68	49.2
Mar. 5	57	86.4	Mar. 23	64	39.9	May 10	78	163
Apr. 7	72	26.2	Apr. 27	72	18.1	June 17	87	11.7
May 12	61	7.72	July 6	73	8.14	July 27	93	6.54
June 16	79	141	Aug. 11	84	3.79	Aug. 30	78	6.97

BRAZOS RIVER BASIN

8-1140. Brazos River at Richmond, Tex.

Location.--Lat 29°34'56", long 95°45'27", at bridge on U. S. Highway 59 in Richmond, Fort Bend County, and 925 ft downstream from Texas and New Orleans Railroad Co. bridge.

Drainage area.--44,020 sq mi, approximately, of which 9,240 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from November 1950 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	Mean	-	-	58	59	61	68	73	79	85	87	87	82
	Max.-Min.	-	-	68 42	67 47	72 47	78 56	80 65	85 73	88 80	88 86	91 84	90 76
1952	Mean	76	62	60	64	60	63	65	73	82	86	85	78
	Max.-Min.	83 70	75 51	69 49	82 53	67 50	70 55	72 60	78 64	86 76	88 81	88 79	84 72
1953	Mean	65	59	50	52	57	66	70	74	84	85	84	79
	Max.-Min.	76 59	71 45	60 45	60 45	63 49	70 55	76 60	81 66	87 78	87 82	88 78	83 75
1954	Mean	72	59	51	53	58	60	71	73	81	80	84	81
	Max.-Min.	82 63	65 53	62 40	64 44	65 51	75 45	78 64	78 62	84 76	85 81	86 80	85 74
1955	Mean	74	59	54	57	64	64	70	76	80	83	86	81
	Max.-Min.	81 65	66 53	64 47	66 46	64 55	75 49	76 62	79 74	83 76	85 81	86 81	83 78
1956	Mean	72	61	55	53	58	64	68	78	82	84	83	80
	Max.-Min.	83 62	73 46	67 48	65 43	68 45	70 56	77 57	81 73	84 78	85 83	85 80	84 76
1957	Mean	75	62	57	57	64	63	69	74	79	85	85	80
	Max.-Min.	80 70	72 50	69 50	67 43	72 53	69 58	76 62	76 70	82 75	86 83	87 83	85 70
1958	Mean	71	60	55	51	51	57	67	74	84	84	85	81
	Max.-Min.	72 69	70 49	60 49	54 47	57 44	60 54	76 60	80 70	87 76	86 81	87 82	84 77
1959	Mean	72	65	52	50	55	62	66	76	83	84	83	84
	Max.-Min.	77 62	74 51	59 43	60 39	63 46	68 57	73 54	79 73	86 80	86 78	86 78	85 82
1960	Mean	82	67	55	50	49	54	68	72	82	85	85	84
	Max.-Min.	88 81	77 56	60 52	55 46	52 40	65 44	70 65	79 67	85 76	88 83	88 84	85 82
1961	Mean	77	64	52	50	53	61	68	77	80	80	85	81
	Max.-Min.	81 70	69 58	59 46	50 49	58 49	64 57	74 63	80 74	80 73	83 79	85 83	85 77
1962	Mean	74	71	55	47	57	56	64	75	79	82	73	61
	Max.-Min.	79 70	70 59	59 52	49 40	64 50	60 51	70 59	79 72	80 77	84 78	80 68	68 53
1963	Mean	-	63	54	46	53	64	73	78	83	85	85	82
	Max.-Min.	-	66 60	61 51	54 39	56 45	72 56	77 65	81 72	85 81	86 82	86 83	87 74
1964	Mean	75	63	48	51	54	62	71	77	82	85	86	82
	Max.-Min.	77 70	70 54	56 38	58 43	57 50	66 53	79 66	82 72	85 76	87 82	87 83	86 74
1965	Mean	69	67	-	-	56	57	71	73	80	83	83	-
	Max.-Min.	74 65	73 56	-	-	64 45	66 48	78 60	78 70	82 75	86 63	85 79	-
1966	Mean	71	68	57	51	51	64	70	74	81	86	83	79
	Max.-Min.	80 64	70 62	62 54	60 38	60 42	74 56	77 64	79 67	85 77	89 83	88 78	88 73
1951-66	Mean	73	63	54	53	56	62	69	75	82	84	84	80
	Max.-Min.	88 59	77 45	69 38	82 38	72 40	78 44	80 54	85 62	88 73	89 63	91 68	90 53

BRAZOS RIVER BASIN

8-1145. Brazos River near Juliff, Tex.

Location.--Lat 29°27'20", long 95°31'57", at South Texas Water Co.'s pumping plant, 3 1/2 miles west of Juliff, Fort Bend County, and 3.8 miles downstream from Gulf, Colorado and Santa Fe Railway Co. bridge.

Drainage area.--44,100 sq mi, approximately, of which 9,240 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 17, 1949	79	3,300	Apr. 15, 1952	67	9,570	Aug. 6, 1956	91	140
May 20	78	3,030	Apr. 16	68	6,500	Sept. 26	81	597
May 21	78	35,500	May 8	80	1,930	Oct. 30	75	704
May 22	78	40,800	May 28	73	32,200	Nov. 5	68	519
May 24	77	13,400	May 30	74	17,400	Nov. 20	68	1,200
May 27	79	8,790	May 31	76	12,900	Oct. 7, 1957	77	1,230
June 28	83	9,410	June 5	80	5,610	Oct. 23	69	50,700
July 27	83	1,240	Sept. 11	84	160	Jan. 10, 1958	47	4,750
Aug. 18	86	5.17	Sept. 18	89	54.7	Jan. 30	52	11,600
Sept. 14	86	870	Oct. 15	70	60.8	Apr. 4	65	5,050
Oct. 28	64	14,300	Nov. 18	69	174	May 6	69	60,400
Nov. 21	63	1,590	Dec. 5	53	5,700	June 18	85	1,130
Nov. 29	68	1,260	Dec. 10	56	4,050	July 23	85	2,570
Dec. 5	62	1,260	Dec. 17	55	933	Aug. 28	87	1,540
Dec. 12	58	5,420	Aug. 27, 1953	90	1,160	Sept. 24, 1959	82	525
Jan. 18, 1950	64	9,270	Sept. 17	88	724	Nov. 10	58	11,400
Feb. 20	58	16,800	Oct. 1	86	314	Apr. 22, 1960	76	2,070
Mar. 23	68	2,410	Nov. 24	58	1,310	June 7	90	388
Apr. 19	66	17,700	Jan. 20, 1954	64	1,990	June 16	87	238
Apr. 21	64	24,400	Feb. 17	66	731	Aug. 30	87	2,760
Apr. 25	70	21,300	Apr. 12	76	1,560	Sept. 23	84	912
May 2	77	10,500	Apr. 19	75	6.8	Nov. 15	65	6,260
May 25	79	5,260	May 8	74	2,490	Apr. 11, 1961	63	7,490
June 5	76	32,300	May 14	74	1,210	May 11	76	2,330
June 13	83	9,930	May 15	75	9,150	Nov. 15	64	9,050
June 21	85	3,450	May 17	76	11,800	Jan. 5, 1962	55	3,630
June 28	88	1,470	June 16	88	1,460	Feb. 16	68	3,100
July 6	89	384	Aug. 20	97	49.5	Mar. 28	69	1,360
July 8	87	198	Sept. 7	89	73.0	May 10	80	3,160
Aug. 11	86	2,370	Nov. 9	65	638	June 13	87	7,200
Aug. 29	86	855	Dec. 8	65	367	July 20	87	608
Sept. 28	78	7,930	Jan. 7, 1955	61	107	Jan. 7, 1964	56	607
Oct. 26	75	1,480	Mar. 9	65	925	Feb. 10	51	2,660
Nov. 21	65	899	Apr. 8	68	1,070	Mar. 10	58	2,210
Dec. 13	58	526	May 4	79	18.6	Apr. 22	79	527
Feb. 20, 1951	66	1,230	May 24	78	18,600	May 25	83	134
Mar. 19	59	523	June 6	82	2,350	June 18	89	898
Mar. 23	70	186	July 5	83	1,720	Aug. 5	90	118
Apr. 19	78	71.8	Aug. 10	88	428	Oct. 9	69	2,940
May 24	72	2.50	Dec. 14	58	532	Mar. 31, 1965	65	2,140
June 13	84	2,090	Jan. 20, 1956	57	1,150	Apr. 30	78	1,230
July 28	87	67.7	Feb. 23	68	2,030	Aug. 9	87	3,920
Aug. 15	89	264	Apr. 24	74	407	Sept. 13	87	684
Sept. 12	74	472	May 6	74	17,400	Oct. 19	70	1,710
Oct. 23	78	748	May 8	86	12,600	Nov. 29	61	4,480
Nov. 29	59	456	May 16	83	4,820	Mar. 8, 1966	56	7,960
Jan. 5, 1952	58	549	May 22	85	1,110	June 29	85	3,870
Jan. 8	61	543	June 11	87	350	July 27	90	836
Feb. 20	65	716	July 13	91*	17.6	Aug. 29	87	3,510
Mar. 25	62	1,000	July 16	85	139			

BRAZOS RIVER BASIN

6-1150. Big Creek near Needville, Tex.

Location.--Lat 29°28'35", long 95°48'45", at downstream side of bridge on State Highway 36, 1.5 miles downstream from Coon Creek, 5½ miles north of Needville, Fort Bend County, and 10½ miles upstream from Fairchild Creek.

Drainage area.--42.3 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 23, 1949	63	164	Apr. 16, 1958	82	0.26	Oct. 31, 1962	65	1.07
Feb. 24	69	39.9	May 14	81	1.59	Nov. 18, 1963	70	.41
Apr. 20	64	611	June 19	94	1.07	Dec. 16	42	10.4
Oct. 25	65	145	July 15	86	1.23	Jan. 27, 1964	53	.34
Dec. 15	46	553	Aug. 15	94	1.16	Jan. 31	52	176
Dec. 16	47	160	Sept. 12	89	8.87	Feb. 4	53	487
Jan. 17, 1950	65	9.20	Sept. 13	79	24.1	Mar. 5	66	24.4
Apr. 26	71	27.6	Sept. 13	81	22.9	Mar. 20	66	52.4
May 24	75	3.38	Sept. 16	80	5.17	Mar. 20	66	47.6
June 28	88	.47	Nov. 6	63	1.23	May 15	72	.15
Apr. 28, 1952	72	11.1	Jan. 21, 1959	54	.14	June 23	83	1.48
May 9	78	.05	Feb. 5	50	57.2	Aug. 28	84	4.19
June 6	75	2.26	Apr. 15	63	25.8	Sept. 29	74	1.02
July 10	84	2.65	May 13	76	4.61	Nov. 3	72	.45
Aug. 14	83	.95	June 17	91	.65	Dec. 8	50	.20
Nov. 19	61	2.58	July 29	86	2.58	Jan. 14, 1965	56	1.11
Dec. 5	59	19.8	Oct. 15	66	32.0	Feb. 19	63	54.0
Dec. 30	56	448	Jan. 13, 1960	73	4.12	Mar. 24	72	.35
May 28, 1953	78	1.30	Feb. 12	47	1.32	Oct. 22	74	5.80
Sept. 3	81	1,100	Nov. 10	55	3.20	Nov. 24	76	.95
Sept. 17	77	1.17	Dec. 16	46	60.8	Jan. 4, 1966	50	27.6
Oct. 15	71	.54	Jan. 18, 1961	64	8.07	Feb. 1	58	13.6
Jan. 19, 1954	63	9.93	Feb. 28	56	8.43	Feb. 10	61	1,180
May 18	73	1.38	Apr. 7	68	.28	Mar. 9	61	.34
Jan. 21, 1955	53	6.17	June 23	89	33.0	Apr. 12	81	2.02
May 20	81	91.7	July 17	89	20.2	May 18	82	7.68
May 25	76	2.02	Aug. 11	83	.75	May 23	95	23.0
June 16	98	.68	Sept. 22	79	2.61	May 26	82	52.0
July 21	95	19.8	Dec. 14	48	4.17	June 23	90	1.86
Aug. 18	93	1.97	Jan. 10, 1962	37	.07	July 11	96	.97
Sept. 22	90	1.88	June 14	82	1.11	July 27	94	1.75
Feb. 25, 1957	61	.98	July 17	82	.44	Aug. 31	86	7.83
Feb. 13, 1958	52	32.4						

BRAZOS RIVER BASIN

8-1164. Dry Creek near Rosenberg, Tex.

Location.--Lat 29°30'42", long 95°44'45", at county road bridge, 5.0 miles southeast of Rosenberg, Fort Bend County, and 6.2 miles upstream from Smither's Lake (Lake George) spillway.

Drainage area.--8.53 sq mi.

Remarks.--Natural runoff is supplemented with water diverted from the Brazos River through the Richmond Irrigation Co.'s canal.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 6, 1960	45	8.60	Jan. 18, 1961	61	0.61	Jan. 20, 1964	54	0.10
Feb. 11	56	.08	Feb. 28	55	.67	Jan. 31	52	28.8
Feb. 11	56	.12	May 12	71	.34	Feb. 4	53	96.8
Apr. 19	72	110	June 23	80	25.6	Mar. 5	74	.92
Apr. 21	76	111	July 17	85	11.8	May 14	80	1.94
Apr. 29	72	58.7	Aug. 11	83	.41	June 23	83	.98
May 25	85	3.68	Sept. 22	77	.02	Sept. 29	72	14.7
June 20	91	18.4	Nov. 13	67	318	Feb. 19, 1965	63	5.11
July 11	84	1.67	Mar. 29	71	.25	Jan. 5, 1966	51	24.6
Aug. 16	79	4.30	May 16	79	12.9	Apr. 11	74	4.78
Sept. 19	84	.04	May 25	82	.41	June 21	89	5.11
Oct. 20	65	21.9	July 16	80	2.84	July 26	85	3.87
Nov. 14	74	4.31	Oct. 31	62	1.78	Aug. 31	80	6.47
Dec. 16	45	13.2	Dec. 16	40	3.45			

SAN BERNARD RIVER BASIN

8-1175. San Bernard River near Boling, Tex.

Location.--Lat 29°18'47", long 95°53'36", at bridge on Farm Road 442, 2½ miles downstream from Snake Creek, and ½ miles northeast of Boling, Wharton County.

Drainage area.--727 sq mi.

Remarks.--Part of low flow is drainage from areas irrigated with diversions from Colorado River.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 26, 1954	78	14.9	Feb. 14, 1957	61	4.20	Oct. 31, 1961	75	77.9
June 17	82	7.03	Mar. 5	66	29.4	Dec. 14	55	55.8
July 28	85	6.98	May 16	67	126	Jan. 10, 1962	44	39.3
Aug. 18	82	101	Jan. 7, 1958	50	65.5	Feb. 16	70	29.9
Sept. 16	80	20.9	Feb. 13	48	541	Mar. 27	65	29.1
Oct. 18	72	3.71	Mar. 19	62	42.8	May 14	81	29.5
Nov. 17	66	6.89	Apr. 16	74	20.2	June 14	83	160
Jan. 21, 1955	52	658	May 14	77	157	July 17	82	70.5
Mar. 15	78	12.6	June 24	85	22.8	Nov. 1	56	19.2
Apr. 25	79	9.97	July 22	83	24.7	July 2, 1963	78	263
May 20	85	2,290	Aug. 19	83	58.3	Nov. 18	69	61.3
June 16	86	137	Sept. 16	82	407	Dec. 18	46	784
July 21	84	97.9	Oct. 21	74	15.7	Jan. 30, 1964	57	55.9
Aug. 18	85	60.8	Dec. 18	55	7.42	Mar. 9	59	295
Sept. 23	83	110	Jan. 26, 1959	55	13.7	May 13	82	18.1
Oct. 20	68	9.62	May 15	78	1,840	Aug. 27	83	126
Nov. 4	62	4.20	June 18	81	54.1	Sept. 29	74	498
Dec. 13	54	6.90	July 30	83	77.4	Nov. 4	72	183
Jan. 17, 1956	57	4.47	Mar. 15, 1960	61	56.9	Dec. 8	51	10.1
Feb. 21	70	26.8	Apr. 19	70	19.4	Jan. 12, 1965	54	316
Mar. 10	65	5.10	May 27	80	21.5	Feb. 19	59	2,290
Mar. 27	74	6.91	June 20	86	15.4	Mar. 24	67	25.0
May 10	76	42.3	July 1	89	9,010	Apr. 28	70	16.0
May 17	74	6.96	July 11	85	100	Aug. 10	82	118
June 12	68	4.89	Sept. 21	80	111	Sept. 14	83	54.6
July 19	82	11.2	Dec. 7	65	296	Nov. 2	64	35.0
Aug. 22	80	30.6	Jan. 30, 1961	48	130	Nov. 23	70	130
Sept. 24	81	10.8	Feb. 20	67	7,890	Jan. 6, 1966	56	222
Oct. 23	69	3.13	Apr. 10	63	160	Mar. 9	58	89.8
Dec. 6	70	2.33	May 10	74	50.5	Apr. 13	75	25.2
Dec. 6	70	2.86	June 20	74	10,900	June 24	82	175
Jan. 10, 1957	65	4.92	Aug. 9	61	178	July 28	85	184

COLORADO RIVER BASIN

8-1190. Bluff Creek near Ira, Tex.

Location.--Lat 32°35'29", long 101°03'05", at abandoned county bridge 426 ft downstream from bridge on Farm Road 1606, 1.8 miles upstream from mouth, 2.8 miles west of Ira, Scurry County, and 11.6 miles southwest of Snyder.

Drainage area.--42.6 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 22, 1949	72	0.33	May 18, 1954	69	19.2	Sept. 5, 1962	62	105
Apr. 28	66	.45	Apr. 18, 1958	55	23.2	Sept. 10	76	1.49
May 7	61	18.3	Apr. 19	59	2.85	Sept. 19	78	2.17
Aug. 17	78	10.5	July 6, 1960	73	16.9	Nov. 5	67	.03
May 11, 1950	61	56.5	July 7	82	9.15	Feb. 20, 1963	48	.05
May 1, 1952	71	.08	July 8	77	1.40	May 30, 1964	64	8.65
Oct. 23, 1953	60	21.5	July 14, 1961	79	6.44	May 17, 1965	71	3.49
Apr. 13, 1954	58	3.37	June 11, 1962	82	1.52			



COLORADO RIVER BASIN

8-1195. Colorado River near Ira, Tex.

Location.--Lat 32°32'16", long 101°03'12", near bridge on State Highway 350, 3 3/4 miles downstream from Bluff Creek, 4 miles upstream from Willow Creek, and 4.5 miles southwest of Ira, Scurry County.

Drainage area.--3,617 sq mi, of which 2,590 sq mi is probably noncontributing.

Water-temperature records available.--Once-daily readings from November 1958 to September 1966.

Remarks.--Flow largely regulated by Lake J. B. Thomas since July 1952.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1959	Mean	-	56	46	50	50	59	-	-	-	77	-	-
	Max.-Min.	-	68 41	63 32	61 34	64 34	72 46	-	-	-	85 72	-	-
1960	Mean	63	51	51	46	43	54	-	-	-	-	-	-
	Max.-Min.	78 50	73 32	62 36	61 34	58 32	72 32	-	-	-	-	-	-
1961	Mean	-	53	40	42	46	54	-	-	75	77	-	-
	Max.-Min.	-	67 40	56 34	56 32	70 34	70 41	-	-	91 66	86 71	-	-
1962	Mean	64	49	43	36	48	50	62	-	-	-	-	75
	Max.-Min.	71 55	69 40	59 33	48 32	66 38	61 36	78 48	-	-	-	-	83 63
1963	Mean	67	53	45	38	44	54	63	70	75	-	-	-
	Max.-Min.	85 56	67 42	59 34	50 32	53 32	69 42	70 53	86 59	89 63	-	-	-
1964	Mean	-	52	39	37	39	52	64	-	-	-	-	72
	Max.-Min.	-	58 39	54 32	49 32	54 32	71 40	79 47	-	-	-	-	89 55
1965	Mean	-	52	41	46	41	45	62	68	75	-	-	72
	Max.-Min.	-	71 40	51 32	56 34	52 32	59 32	77 55	77 60	92 66	-	-	84 60
1966	Mean	64	57	47	39	43	56	59	68	-	-	76	72
	Max.-Min.	76 53	67 40	58 36	57 32	57 32	73 37	78 52	87 53	-	-	96 62	92 63
1959-66	Mean	64	53	44	42	44	53	62	69	75	77	76	73
	Max.-Min.	85 50	73 32	63 32	61 32	70 32	73 32	79 47	87 53	92 63	86 71	96 62	92 55

COLORADO RIVER BASIN

8-1205. Deep Creek near Dunn, Tex.

Location.--Lat 32°33'50", long 100°53'55", at bridge on Farm Road 1606, 2.0 miles northwest of Dunn, Scurry County, 3.0 miles upstream from Sulphur Draw, and 8.0 miles upstream from mouth.

Drainage area.--198 sq mi, of which 10 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings March to September 1953.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 3, 1953	78	15.9	Feb. 16, 1959	57	0.75	Dec. 13, 1962	36	0.96
Sept. 4	74	.80	Feb. 26	52	.87	Jan. 16, 1963	33	.93
Oct. 4	60	9.56	Mar. 25	71	.01	Feb. 20	46	.11
Oct. 23	60	211	June 5	75	10.8	Mar. 28	64	.08
Oct. 24	58	37.5	Dec. 22	42	.68	May 2	67	2.14
Oct. 26	60	33.6	Mar. 8, 1960	44	.96	May 6	73	7.47
Apr. 13, 1954	60	148	July 7	73	70.7	May 23	63	83.8
May 11	55	2,740	July 8	73	33.9	May 24	65	33.6
May 12	58	184	July 9	77	6.93	June 6	73	1.61
May 13	66	28.7	Jan. 30, 1961	41	.94	Jan. 14, 1964	36	.40
May 18	66	14.6	July 26	82	.62	May 30	67	28.8
June 1	80	.08	Nov. 20	45	.78	June 2	61	1.03
June 17	80	.51	Dec. 19	40	.78	Sept. 17	68	.09
Mar. 3, 1958	47	1.01	Jan. 24, 1962	43	1.09	Dec. 22	48	.18
Apr. 3	66	.79	Feb. 20	56	.74	May 12, 1965	66	3.28
Apr. 18	53	84.5	Apr. 27	69	9.51	May 18	71	11.1
Apr. 18	55	60.0	May 3	64	.22	Aug. 25	80	.16
Apr. 18	87	42.0	June 11	82	32.0	Nov. 10	56	1.02
Apr. 19	58	8.95	June 19	78	2.40	May 5, 1966	66	2.45
June 3	79	3.13	Sept. 11	68	3.42	Aug. 30	71	21.0
Dec. 19	38	.57	Sept. 20	73	15.9	Sept. 2	78	3.14
Jan. 27, 1959	40	.20	Oct. 3	62	1.16			

COLORADO RIVER BASIN

8-1207. Colorado River near Cuthbert, Tex.

Location.--Lat 32°28'41", long 100°56'54", at bridge on Farm Road 1808, 4.0 miles downstream from Deep Creek, 4.8 miles east of Cuthbert, Mitchell County, and 8.0 miles northwest of Colorado City.

Drainage area.--4,028 sq mi, of which 2,600 sq mi is probably noncontributing.

Water-temperature records available.--Once-daily readings from March 1965 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1965	Mean	-	-	-	-	-	57	-	73	81	-	-	81
	Max.-Min.	-	-	-	-	-	70 38	-	91 60	89 66	-	-	90 65
1966	Mean	71	62	52	44	48	64	65	76	79	84	81	78
	Max.-Min.	76 67	68 49	64 39	61 32	61 36	77 49	76 53	88 56	92 68	96 76	97 65	86 60
1965-66	Mean	71	62	52	44	48	60	65	74	80	84	81	80
	Max.-Min.	76 67	68 49	64 39	61 32	61 36	77 38	76 53	91 56	92 66	96 76	97 65	90 60

COLORADO RIVER BASIN

8-1210. Colorado River at Colorado City, Tex.

Location.--Lat 32°23'33", long 100°52'42", at Colorado City, Mitchell County, 3,517 ft upstream from bridge on U. S. Highway 80, 4,100 ft upstream from The Texas and Pacific Railroad Co. bridge, and 1.6 miles upstream from Lone Wolf Creek.

Drainage area.--4,082 sq mi, approximately, of which 2,600 sq mi is probably noncontributing.

Water-temperature records available.--Once-daily readings from November 1952 to September 1954; November 1956 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1953	Mean	-	-	54	60	64	71	-	-	-	-	82	-
	Max.-Min.	-	-	67 42	76 48	83 53	78 54	-	-	-	-	95 70	-
1954	Mean	74	64	56	-	66	-	-	-	-	-	-	-
	Max.-Min.	89 64	78 52	70 42	-	80 53	-	-	-	-	-	-	-
1957	Mean	-	-	45	46	57	63	67	73	83	90	90	-
	Max.-Min.	-	-	57 32	65 32	68 40	73 50	80 49	90 61	91 67	93 86	92 83	-
1958	Mean	-	55	51	48	51	58	66	-	-	-	-	-
	Max.-Min.	-	65 44	60 40	55 32	59 38	70 46	76 54	84 77	-	-	-	-
1959	Mean	66	59	44	47	49	59	66	-	-	84	84	-
	Max.-Min.	74 52	64 50	53 32	60 32	55 34	69 47	76 58	-	93 76	90 70	-	-
1960	Mean	-	53	53	47	52	59	-	-	-	87	-	-
	Max.-Min.	-	72 41	58 47	58 40	52 41	72 32	-	-	-	96 76	-	-
1961	Mean	-	62	47	46	53	62	-	-	83	-	-	-
	Max.-Min.	-	70 51	66 40	55 32	65 32	69 55	-	-	93 68	-	-	-
1962	Mean	72	57	51	44	63	-	77	-	-	88	-	78
	Max.-Min.	84 64	71 40	64 40	60 32	70 50	-	85 60	-	-	95 76	-	86 66
1963	Mean	77	68	57	50	62	67	74	81	82	-	-	-
	Max.-Min.	85 65	72 65	70 48	66 45	62 40	82 54	82 55	86 64	86 74	-	-	-
1964	Mean	-	65	48	47	50	65	-	-	-	-	-	79
	Max.-Min.	-	76 54	60 35	56 32	58 41	76 54	-	-	-	-	-	89 63
1965	Mean	-	-	46	47	47	53	68	74	82	-	-	73
	Max.-Min.	-	-	64 34	58 36	60 36	76 34	86 58	92 62	94 72	-	-	88 60
1966	Mean	67	66	56	48	51	64	67	85	83	92	96	82
	Max.-Min.	78 55	70 50	60 43	60 32	62 32	73 53	70 58	85 55	95 70	100 81	96 68	91 65
1953-54 1957-66	Mean	71	61	51	48	55	62	70	75	83	88	86	78
	Max.-Min.	89 52	78 40	70 32	77 32	83 32	82 32	86 49	92 54	95 67	100 70	96 66	91 60

COLORADO RIVER BASIN

8-1238. Beals Creek near Westbrook, Tex.

Location.--Lat 32°11'57", long 101°00'49", at bridge on State Highway 163, 1.5 miles downstream from Crystal Creek, 11 miles south of Westbrook, Mitchell County, 12 miles upstream from Colorado River, and 16 miles southwest of Colorado City.

Drainage area.--9,903 sq mi, of which 8,930 sq mi is probably noncontributing.

Water-temperature records available.--Once-daily readings from November 1958 to September 1966. No flow at times.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1959	Mean	-	-	-	-	54	-	-	-	-	79	-	-
	Max.-Min.	-	-	-	-	66	42	-	-	-	92	66	-
1960	Mean	-	52	51	49	51	56	-	-	-	-	-	-
	Max.-Min.	-	72	60	64	63	78	39	-	-	-	-	-
1961	Mean	-	-	-	44	48	-	-	-	-	83	-	-
	Max.-Min.	-	-	-	57	60	73	43	-	-	92	73	-
1962	Mean	-	-	49	44	57	57	64	-	-	-	-	-
	Max.-Min.	-	-	65	58	74	76	87	44	-	-	-	87
1963	Mean	71	61	50	44	52	63	72	77	83	-	-	-
	Max.-Min.	84	69	61	59	64	85	86	92	94	70	-	-
1964	Mean	-	-	46	46	49	58	64	76	-	-	-	-
	Max.-Min.	-	-	56	58	57	68	84	88	64	-	-	-
1965	Mean	-	-	-	50	48	54	-	73	79	-	-	76
	Max.-Min.	-	-	-	68	65	71	-	86	88	68	-	88
1966	Mean	64	59	53	45	45	60	62	70	79	-	-	75
	Max.-Min.	77	68	67	60	57	75	78	81	86	70	-	85
1959-66	Mean	68	57	50	46	50	58	66	74	80	81	-	76
	Max.-Min.	84	72	67	68	74	85	87	92	94	92	-	88

COLORADO RIVER BASIN

8-1239. Colorado River near Silver, Tex.

Location.--Lat 32°01'10", long 100°44'08", at bridge on Farm Road 2059, 4.7 miles southwest of Silver, Coke County, 11 miles upstream from Pecan Creek, and 18.1 miles downstream from Big Silver Creek.

Drainage area.--15,480 sq mi, approximately, of which 11,600 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from October 1956 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1957	Mean	-	53	50	47	55	57	63	68	77	81	79	75
	Max.-Min.	-	61	68	56	62	71	76	76	85	84	83	84
1958	Mean	60	47	44	40	41	43	62	73	80	-	-	84
	Max.-Min.	78	58	56	51	49	52	74	88	88	-	-	84
1959	Mean	66	52	47	45	47	51	60	71	78	79	-	-
	Max.-Min.	79	60	62	64	68	62	69	82	88	84	-	-
1960	Mean	64	50	53	51	54	58	69	-	-	85	86	-
	Max.-Min.	79	65	69	66	65	72	82	-	-	93	91	-
1961	Mean	-	56	46	41	52	68	80	90	90	89	88	81
	Max.-Min.	-	67	55	52	65	68	80	90	90	89	88	81
1962	Mean	66	47	43	39	55	-	68	-	-	-	-	80
	Max.-Min.	74	60	56	58	75	-	82	-	-	-	-	80
1963	Mean	74	60	52	45	54	-	66	78	82	-	-	-
	Max.-Min.	85	68	63	55	64	-	86	90	90	-	-	-
1964	Mean	-	59	45	48	49	67	78	-	-	-	-	85
	Max.-Min.	-	67	51	54	55	67	78	-	-	-	-	85
1965	Mean	-	-	-	-	-	-	-	72	81	-	90	87
	Max.-Min.	-	-	-	-	-	-	-	89	88	-	90	87
1966	Mean	62	58	48	41	45	57	70	80	82	81	89	82
	Max.-Min.	68	64	60	54	58	68	70	80	82	81	89	82
1957-66	Mean	65	54	48	44	50	54	65	72	79	81	81	75
	Max.-Min.	85	68	68	66	75	72	82	88	90	93	91	87

COLORADO RIVER BASIN

8-1265. Colorado River at Ballinger, Tex.

Location.--lat 31°43'50", long 99°56'25", at bridge on U. S. Highway 83, in Ballinger, Runnels County, and 2,000 ft upstream from Elm Creek.

Drainage area.--16,840 sq mi, approximately, of which 11,600 sq mi is probably noncontributing.

Water-temperature records available.--Once-daily readings from October 1961 to September 1966. Temperature readings at irregular intervals for the period 1943-66 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1962	Mean	69	-	49	45	57	57	68	-	-	82	-	-
	Max.-Min.	78 61	- -	58 40	52 34	65 46	68 42	75 57	- -	- -	85 79	- -	- -
1963	Mean	-	58	50	44	50	-	74	76	83	-	-	82
	Max.-Min.	- -	63 50	60 42	54 34	59 43	- -	82 58	84 58	90 78	- -	- -	90 73
1964	Mean	-	59	44	47	51	61	70	77	81	-	-	77
	Max.-Min.	- -	67 51	54 35	55 36	56 45	69 52	77 60	89 66	89 71	- -	- -	87 68
1965	Mean	67	58	48	51	49	55	-	72	80	85	82	78
	Max.-Min.	74 60	69 45	56 39	59 45	58 42	66 46	- -	77 63	85 71	89 81	87 74	88 68
1966	Mean	67	60	52	44	49	60	67	75	80	-	-	77
	Max.-Min.	76 60	65 52	60 46	60 33	58 39	68 50	74 61	85 57	87 64	- -	- -	87 72
1962-66	Mean	68	59	49	46	51	58	70	75	81	84	82	78
	Max.-Min.	78 60	69 45	60 35	60 33	65 39	69 42	82 57	85 57	90 64	89 79	87 74	90 68

COLORADO RIVER BASIN

8-1270. Elm Creek at Ballinger, Tex.

Location.--Lat 31°45'00", long 99°56'50", at Ballinger, Runnels County, and 1½ miles upstream from mouth.

Drainage area.--471 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 2, 1950	82	3.43	Apr. 7, 1958	74	3.41	Aug. 25, 1964	81	5.20
Sept. 7	78	24.0	May 6	76	5.38	Sept. 1	84	16.4
May 22, 1951	69	6,410	May 15	74	75.5	May 6, 1965	63	1,830
May 1, 1952	61	106	May 16	71	470	Sept. 23	72	14.8
June 12	80	11.2	May 19	72	62.2	Nov. 10	67	22.1
Nov. 13, 1953	59	.11	May 27	88	7.39	Dec. 2	55	4.59
Apr. 17, 1954	67	31.6	June 4	84	13.2	Jan. 3, 1966	55	21.2
May 4, 1956	70	144	Feb. 4, 1959	45	3.14	Feb. 17	54	20.8
May 14	80	6.85	Aug. 4	91	6.28	Apr. 29	70	42.9
Jan. 6, 1958	48	7.43	July 11, 1961	80	13.8	May 1	56	4,360
Jan. 30	55	5.45	May 29, 1963	82	6.84	June 2	82	3.50
Feb. 28	58	14.1	Feb. 10, 1964	44	2.41			

COLORADO RIVER BASIN

8-1280. South Concho River at Christoval, Tex.

Location.--lat 31°13', long 100°30', at Panhandle and Santa Fe Railway Co. bridge at Christoval, Tom Green County.

Drainage area.--409 sq mi, of which 65 sq mi is probably noncontributing.

Remarks.--Low flow materially affected by diversion 600 ft above station to South Concho Irrigation Co.'s canal.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 13, 1949	68	9.36	June 4, 1954	75	2.35	Aug. 16, 1961	76	24.9
Dec. 9	54	19.0	Dec. 7	58	.44	Sept. 20	70	27.6
Jan. 17, 1950	58	16.1	May 4, 1955	75	.75	Oct. 11	73	46.3
Feb. 27	63	13.7	Nov. 9	55	2.83	Nov. 20	57	23.3
Apr. 4	65	7.93	Dec. 28	56	2.87	Mar. 19, 1962	64	23.2
May 4	73	6.71	Feb. 13, 1956	54	2.15	Apr. 26	71	22.6
June 12	80	6.86	Mar. 19	56	3.66	June 4	78	15.3
July 10	80	5.14	Apr. 17	67	2.77	Aug. 8	81	13.2
Aug. 11	87	6.03	May 17	79	3.46	Oct. 16	74	13.5
Sept. 15	80	5.95	June 14	84	3.54	Nov. 26	62	12.8
Oct. 16	72	6.45	Aug. 31	78	1.72	Jan. 3, 1963	58	11.7
Nov. 20	61	5.32	Dec. 2, 1957	52	17.4	Feb. 6	55	11.2
Dec. 15	54	4.61	Jan. 24, 1958	48	16.2	Mar. 12	63	14.3
Jan. 19, 1951	51	5.09	Feb. 27	59	34.6	Apr. 15	71	13.2
Feb. 21	68	5.81	Mar. 11	54	34.1	May 20	70	20.6
Mar. 23	62	6.22	Apr. 1	68	33.7	July 1	83	12.3
Apr. 23	70	6.56	May 2	65	20.3	Aug. 8	82	7.41
June 5	73	3.82	June 3	81	17.6	Oct. 22	71	7.67
July 6	84	3.67	July 3	76	32.1	Nov. 26	62	7.56
Aug. 8	84	3.66	July 28	78	25.0	Dec. 31	46	7.58
Sept. 14	74	2.78	Aug. 27	75	17.4	Feb. 6, 1964	51	6.63
Oct. 9	68	4.14	Oct. 1	67	27.6	Mar. 10	57	8.43
Nov. 8	62	3.34	Nov. 10	62	26.1	Apr. 14	67	8.94
Jan. 15, 1952	60	3.41	Dec. 2	58	22.5	May 19	74	7.94
Feb. 12	57	2.50	Feb. 5, 1959	49	16.4	June 16	78	6.85
Apr. 8	64	5.13	Mar. 3	60	11.2	July 22	81	5.19
May 5	72	6.26	Apr. 2	65	11.7	Aug. 27	75	6.05
June 11	76	5.25	May 5	71	11.3	Oct. 5	70	14.8
July 3	80	.99	Aug. 5	80	8.64	Nov. 10	76	9.41
Aug. 11	80	.97	Sept. 8	78	9.49	Dec. 15	42	11.3
Sept. 15	77	1.14	Oct. 6	78	34.2	Jan. 18, 1965	50	11.7
Oct. 13	65	5.20	Dec. 17	54	19.4	Feb. 23	54	11.4
Nov. 19	58	5.34	Jan. 21, 1960	55	39.6	Apr. 2	62	11.2
Dec. 10	51	5.61	Mar. 9	62	39.1	June 7	64	11.1
Jan. 6, 1953	50	6.56	Apr. 19	68	23.7	July 14	80	4.47
Feb. 9	55	7.57	May 23	74	22.0	Aug. 17	75	4.23
Mar. 9	58	39.7	June 27	82	14.0	Aug. 25	78	4.81
Mar. 18	70	10.8	July 27	84	17.5	Sept. 22	71	3.75
Apr. 23	67	8.97	Aug. 30	76	15.4	Oct. 26	67	3.21
May 26	81	5.64	Oct. 12	72	11.5	Dec. 1	54	2.64
June 18	82	3.12	Nov. 8	60	14.2	Jan. 5, 1966	53	3.56
July 16	68	86.9	Dec. 12	48	15.9	Feb. 15	51	3.31
Aug. 6	81	4.73	Jan. 11, 1961	51	18.2	Mar. 22	68	3.05
Oct. 22	69	6.83	Feb. 24	55	16.5	Apr. 27	70	4.16
Dec. 21	52	3.48	Apr. 4	66	16.2	June 1	80	3.64
Feb. 2, 1954	56	1.96	May 8	74	16.6	July 6	81	3.26
Mar. 10	60	3.51	June 7	77	13.0	Aug. 9	81	2.97
Apr. 16	68	2.95	July 10	70	34.9	Sept. 7	77	3.26

COLORADO RIVER BASIN

8-1305. Dove Creek at Knickerbocker, Tex.

Location.--Lat 31°16'24", long 100°37'45", at bridge on Farm Road 2335, 0.4 mile west of Knickerbocker, Tom Green County, and 5.4 miles upstream from mouth.

Drainage area.--229 sq mi, of which 31 sq mi is probably noncontributing.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 21, 1960	61	6.15	Jan. 3, 1963	50	6.17	Oct. 5, 1964	69	1.92
Dec. 15	45	10.3	Feb. 7	56	6.89	Nov. 9	67	.74
Jan. 12, 1961	49	11.9	Mar. 14	55	3.56	Dec. 14	44	1.65
Feb. 23	54	10.7	Apr. 16	77	6.12	Jan. 19, 1965	54	1.15
Apr. 5	64	2.01	May 20	70	24.6	Feb. 26	51	3.04
June 19	72	62.4	July 1	78	2.05	Apr. 1	64	.64
Sept. 15	68	16.6	Sept. 13	76	6.36	May 4	64	.75
Oct. 23	67	17.3	Sept. 18	76	2.79	June 8	64	2.63
Nov. 28	58	12.1	Oct. 21	69	1.01	July 12	78	.62
Jan. 3, 1962	52	8.10	Nov. 19	59	41.7	Nov. 30	54	1.70
Jan. 5	48	8.62	Nov. 19	59	42.4	Jan. 4, 1966	53	1.07
Feb. 12	53	6.51	Nov. 26	57	1.84	Feb. 14	53	.73
Mar. 15	58	9.41	Dec. 26	54	3.70	Mar. 21	62	.88
Apr. 25	72	9.92	Feb. 3, 1964	57	3.85	Apr. 26	71	.52
June 5	76	1.92	Mar. 9	59	1.63	May 2	55	29.0
July 9	79	3.94	Apr. 13	68	.90	May 31	74	1.04
Aug. 15	74	2.09	May 18	74	.72	July 5	78	.38
Oct. 17	64	2.59	June 15	76	.62	Aug. 25	66	33.7
Nov. 27	61	7.70						

COLORADO RIVER BASIN

8-1335. North Concho River at Sterling City, Tex.

Location.--Lat 31°50', long 100°59', at bridge on Farm Road 379, 0.3 mile south of Sterling City, Sterling County, 3.5 miles downstream from Lacy Creek, and 4 miles upstream from Sterling Creek.

Drainage area.--605 sq mi, of which 66 sq mi is probably noncontributing.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 30, 1949	81	1.69	May 9, 1956	67	22.7	Nov. 22, 1961	49	1.19
Dec. 31	47	4.25	May 10	70	4.23	Dec. 29	38	1.09
Jan. 31, 1950	47	1.40	May 25	70	20.4	Jan. 31, 1962	42	1.17
Feb. 28	61	1.08	July 25	78	77.4	Feb. 28	42	1.03
May 1	65	1.16	July 26	76	7.61	Aug. 3	76	.46
Nov. 30	44	.26	Jan. 23, 1958	55	1.23	May 23, 1963	61	68.9
Jan. 2, 1951	46	1.35	Feb. 28	50	.95	May 24	62	14.4
Feb. 28	58	.93	Mar. 31	58	1.01	May 27	77	.25
Mar. 30	54	.69	Apr. 16	66	1.30	Aug. 17, 1964	72	820
Apr. 30	70	.18	May 12	74	.73	Aug. 17	82	233
May 31	77	.33	May 16	78	1.52	Aug. 18	76	7.48
Apr. 20, 1952	66	15.0	June 27	71	3.19	Sept. 25	67	118
Apr. 21	67	4.38	Aug. 25	79	29.9	May 17, 1965	64	281
June 2	69	2.31	Aug. 29	79	.16	Oct. 18	58	4.90
Apr. 12, 1954	57	1,240	July 12, 1959	68	1,320	Oct. 18	61	2.01
Apr. 26	79	1.06	July 13	73	1,470	Oct. 18	62	.98
May 13	68	74.5	July 13	74	313	Mar. 28, 1966	60	11.3
May 14	67	14.8	July 15	76	10.9	Mar. 29	64	53.7
May 19	70	130	Mar. 9, 1960	54	1.24	Mar. 31	66	2.96
May 20	75	22.8	Apr. 25	68	.41	Apr. 25	67	508
June 1	77	.63	Oct. 20	63	4.27	Apr. 28	64	12.0
June 30	73	26.2	Nov. 20, 1961	45	.99	May 4	62	3.03

COLORADO RIVER BASIN

8-1340. North Concho River near Carlsbad, Tex.

Location.--Lat 31°35'33", long 100°38'12", at county road bridge, 0.6 mile southwest of Carlsbad, Tom Green County, 1.5 miles upstream from Mile Creek, and 16.2 miles upstream from San Angelo Dam.

Drainage area.--1,249 sq mi, of which 105 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 31, 1950	83	0.66	May 16, 1958	80	3.85	May 23, 1961	75	29.5
Sept. 22	66	1,550	May 29	84	1.22	May 31	76	2.04
Sept. 30	73	6.38	June 27	76	18.7	June 30	83	.30
Oct. 31	67	2.73	June 30	77	3.60	Sept. 29	74	4.58
Nov. 30	54	3.32	Aug. 11	69	9.92	Nov. 30	53	1.06
Dec. 30	42	3.76	Aug. 11	74	4.49	Dec. 29	44	1.44
Jan. 31, 1951	32	4.36	Aug. 15	88	.08	Jan. 31, 1962	46	1.33
Feb. 28	59	4.44	Aug. 25	80	57.8	Feb. 28	51	.99
Mar. 30	58	3.90	Aug. 26	78	35.0	Mar. 30	58	.65
Apr. 30	75	3.98	Sept. 25	77	.15	Apr. 30	76	.35
May 31	78	2.27	Jan. 30, 1959	51	1.54	May 24	62	67.7
Mar. 31, 1952	60	1.61	July 15	78	37.5	May 27	79	1.90
June 2	64	25.4	July 17	78	10.0	May 29	87	.09
Sept. 30, 1953	70	.12	July 20	74	51.0	Aug. 15	76	1.43
Oct. 30	61	.77	Oct. 30	69	2.41	Nov. 19, 1963	56	75.8
Nov. 30	54	.51	Dec. 1	52	2.01	Nov. 20	55	2.18
Dec. 30	45	1.34	Dec. 31	47	2.50	May 30, 1964	69	19.4
Mar. 1, 1954	55	1.58	Feb. 1, 1960	49	2.41	June 1	69	.68
May 9, 1956	73	154	Mar. 3	48	2.52	Aug. 18	75	115
May 10	74	31.9	Mar. 31	65	1.69	Aug. 19	79	7.57
May 11	81	11.9	Apr. 27	48	122	Sept. 24	68	3,220
May 28	82	5.78	Apr. 27	54	55.7	Sept. 25	70	661
Jan. 31, 1958	48	1.33	May 2	64	3.05	Sept. 28	67	13.0
Feb. 28	56	2.64	Oct. 21	60	11.4	May 17, 1965	65	364
Mar. 31	62	2.19	Feb. 20, 1961	50	5.56	Sept. 3	79	.05
May 9	76	2.43	Feb. 24	50	1.97	Mar. 31, 1966	66	4.87
May 13	73	54.2	Feb. 28	50	.90	Apr. 28	62	36.0
May 13	74	38.9	May 21	74	114	Aug. 12	74	132
May 14	72	6.25	May 22	75	44.9			

COLORADO RIVER BASIN

8-1350. North Concho River at San Angelo, Tex.

Location.--Lat 31°27'56", long 100°26'51", at Sixth Street Bridge in San Angelo, Tom Green County, 3.2 miles upstream from confluence with South Concho River, and 3.4 miles downstream from San Angelo Dam.

Drainage area.--1,507 sq mi, of which 105 sq mi is probably noncontributing.

Remarks.--Flow largely regulated by San Angelo Reservoir.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 3, 1949	81	0.08	Aug. 7, 1958	78	35.2	July 10, 1962	84	40.0
Jan. 24, 1950	57	1.71	Aug. 7	80	66.4	Aug. 10	85	53.4
Feb. 28	67	3.74	Aug. 11	82	18.2	Sept. 14	79	.93
Mar. 28	57	.38	Aug. 27	82	2.18	Dec. 21	52	1.80
May 4	77	5.67	Sept. 25	77	6.71	Dec. 27	48	1.89
Aug. 30	84	1.23	Jan. 19, 1959	49	2.61	Feb. 6, 1963	48	1.55
Aug. 31	68	.12	Jan. 20	51	3.04	Mar. 12	57	2.05
Sept. 6	72	138	Jan. 30	53	2.48	Mar. 19	60	24.9
Nov. 30	58	1.39	Mar. 3	56	2.68	Mar. 22	61	25.3
Jan. 3, 1951	53	2.34	Apr. 2	65	2.36	Mar. 27	64	20.9
Feb. 28	63	5.66	Apr. 30	78	2.82	Apr. 11	71	18.6
Apr. 2	68	3.14	June 1	86	1.83	Apr. 12	70	19.6
Apr. 30	78	1.47	Aug. 5	85	5.00	Apr. 16	69	21.2
May 31	83	1.72	Aug. 11	79	4.49	Apr. 17	74	61.3
Aug. 13	77	137	Aug. 14	86	4.40	Apr. 18	74	61.0
May 2, 1952	67	1.18	Aug. 25	78	39.2	Apr. 19	64	87.2
Mar. 23, 1955	60	3.10	Aug. 26	78	40.6	July 3	77	32.9
Mar. 31	58	18.7	Sept. 10	78	14.6	Aug. 9	82	30.1
Apr. 21	73	19.4	Nov. 11	54	4.55	Feb. 12, 1964	54	20.2
May 5	76	16.9	Jan. 20, 1960	45	4.70	Apr. 15	74	25.1
July 11, 1956	82	68.0	Mar. 8	53	4.29	May 19	77	25.4
July 12	81	65.0	Apr. 18	68	9.30	Aug. 3	74	.17
July 14	81	51.2	May 10	72	2.97	Aug. 27	79	29.5
July 14	81	29.4	June 9	84	2.16	Oct. 12	68	6.43
July 17	81	58.8	June 28	82	31.1	Nov. 10	69	3.98
July 18	82	2.73	Aug. 1	82	28.6	Dec. 16	44	1.03
Aug. 6, 1957	76	12.9	Aug. 30	83	3.23	Jan. 20, 1965	56	.49
Aug. 29	84	12.7	Oct. 14	73	19.7	Apr. 2	64	.82
Nov. 22	50	62.4	Nov. 8	64	2.59	July 14	76	10.8
Jan. 13, 1958	48	26.0	Dec. 12	45	2.76	Aug. 18	76	7.25
Jan. 22	45	19.7	Jan. 11, 1961	47	3.28	Sept. 24	68	8.74
Jan. 31	50	4.85	Feb. 27	56	3.10	Dec. 7	64	7.47
Feb. 27	58	4.34	Apr. 4	62	3.09	Jan. 6, 1966	56	8.01
Apr. 1	64	4.28	Apr. 24	74	17.8	Feb. 18	55	4.09
May 8	72	3.53	May 10	71	25.8	Mar. 24	56	13.1
June 3	80	2.80	Aug. 18	80	5.90	Apr. 28	68	4.57
July 3	84	3.73	Jan. 8, 1962	46	2.76	June 2	76	15.8
July 8	79	2.94	May 23	78	40.4	July 13	80	31.9
July 29	82	11.1	June 5	81	41.8	Sept. 9	75	13.6



COLORADO RIVER BASIN

8-1360. Concho River near San Angelo, Tex.

Location.--Lat 31°27'10", long 100°23'30", 0.5 mile downstream from confluence of North Concho and South Concho Rivers, and 1.8 miles southeast of San Angelo, Tom Green County.

Drainage area.--5,380 sq mi, of which 1,283 sq mi is probably noncontributing.

Remarks.--Flow regulated by Twin Buttes Reservoir since 1962, and San Angelo Reservoir since 1952.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 11, 1949	91	8.92	Mar. 11, 1953	52	72.1	May 24, 1960	78	7.89
Aug. 11	90	4.37	Apr. 6	67	.85	June 28	90	.38
Aug. 12	91	2.81	May 25	78	.16	July 27	90	1.12
Sept. 7	84	9.04	Oct. 22	76	.34	Oct. 12	73	24.6
Oct. 10	74	2.16	Nov. 13	62	2.25	Nov. 8	61	4.20
Nov. 16	63	26.3	Dec. 21	53	1.54	Dec. 12	45	24.5
Dec. 13	55	14.7	Mar. 10, 1954	62	1.77	Jan. 5, 1961	48	5.92
Jan. 16, 1950	43	41.6	July 14	84	.62	Jan. 11	46	51.2
Feb. 10	58	28.4	Aug. 13	89	.43	Feb. 24	53	45.5
Mar. 20	65	3.80	July 6, 1955	83	45.7	Apr. 4	62	6.05
May 4	80	6.77	Jan. 3, 1957	54	2.98	Apr. 31	82	20.1
Aug. 3	84	142	Feb. 5	52	4.86	Oct. 24	67	44.0
Aug. 4	86	87.7	Aug. 29	82	14.9	Feb. 12, 1962	55	6.77
Sept. 6	72	168	Mar. 3, 1958	50	42.0	Feb. 12	55	7.55
Oct. 2	84	30.2	Mar. 6	52	20.7	Apr. 26	73	14.4
Nov. 3	63	6.71	Apr. 8	63	27.0	June 4	78	21.2
Dec. 11	55	7.69	May 5	69	24.5	Aug. 10	89	.83
Feb. 27, 1951	74	7.78	June 2	86	3.42	Aug. 16	83	1.02
Mar. 22	61	11.2	July 3	86	3.81	Aug. 16	84	93.7
Apr. 25	74	3.64	July 30	85	13.0	Nov. 26	58	4.69
May 31	88	4.44	Aug. 27	87	.86	Jan. 2, 1963	47	4.65
July 9	84	2.82	Sept. 25	78	37.8	Feb. 6	51	.24
Sept. 10	90	1.04	Jan. 2, 1959	44	45.7	Mar. 12	57	6.49
Nov. 5	58	1.60	Feb. 4	52	.75	Apr. 15	72	.36
Dec. 4	58	1.52	Mar. 2	60	6.57	July 2	83	.58
Apr. 10, 1952	58	.65	Apr. 2	65	2.90	Nov. 27	52	2.09
May 15	71	.87	Apr. 30	83	2.97	Dec. 27	66	.06
May 28	71	3.24	June 1	86	5.72	Dec. 15, 1964	47	5.47
June 11	87	1.02	Sept. 10	80	8.21	Jan. 18, 1965	52	5.12
July 15	89	.56	Nov. 11	54	106	Sept. 21	66	17.1
Aug. 26	89	.48	Dec. 22	50	65.7	Nov. 29	54	.10
Dec. 10	52	.18	Jan. 20, 1960	49	117	Jan. 6, 1966	56	1.68
Jan. 5, 1953	52	1.05	Mar. 9	50	74.4	June 1	88	.07
Feb. 25	60	1.02	Apr. 19	72	15.8	Aug. 25	72	43.7

COLORADO RIVER BASIN

8-1365. Concho River near Paint Rock, Tex.

Location.--Lat 31°31'05", long 99°55'10" at bridge on U. S. Highway 83, 0.2 mile north of Paint Rock, Concho County, and 2 miles downstream from Kickapoo Creek.

Drainage area.--6,415 sq mi, of which 1,283 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 8, 1949	87	13.2	Nov. 13, 1953	55	7.39	Nov. 7, 1960	60	20.7
Oct. 10	78	4.20	Dec. 28	40	1.87	Dec. 5	57	33.4
Nov. 7	58	46.5	Feb. 3	66	3.49	Jan. 13, 1961	46	98.2
Dec. 8	54	27.4	Apr. 17	62	356	Apr. 3	62	18.2
Feb. 24, 1950	55	26.7	Jan. 30, 1958	51	67.6	May 9	76	16.7
Mar. 21	68	6.91	Feb. 28	58	50.0	June 9	79	13.3
Apr. 20	69	84.1	Mar. 7	56	41.0	Feb. 15, 1962	61	29.9
July 19	82	2.67	Apr. 7	67	43.0	Aug. 13	88	1.36
Aug. 3	84	8.94	May 6	72	30.5	Sept. 14	84	16.7
Aug. 29	83	.71	June 4	84	12.1	Nov. 29, 1963	52	11.7
Oct. 3	78	59.9	July 2	82	30.2	Jan. 2, 1964	44	9.07
Oct. 26	74	11.1	Oct. 2	66	27.0	Feb. 10	58	6.94
Nov. 28	53	11.2	Dec. 1	51	46.4	May 11	56	6.34
Dec. 18	54	12.7	Feb. 4, 1959	41	3.75	Apr. 15	69	4.24
Jan. 23, 1951	49	14.2	May 1	75	15.9	Aug. 25	78	4.43
Feb. 23	57	13.4	June 2	78	3.50	Aug. 30	74	712
Mar. 22	70	2.93	Aug. 4	90	10.7	Aug. 31	79	114
Apr. 25	72	1.15	Dec. 21	50	79.9	Sept. 1	79	38.0
Mar. 6, 1952	56	.30	Jan. 26, 1960	50	139	Sept. 3	86	5.56
May 14	73	.99	Mar. 10	53	110	Dec. 16	48	14.5
June 12	79	.62	Apr. 18	68	22.2	Jan. 20, 1965	54	4.61
Dec. 11	51	.12	May 26	83	23.8	Mar. 1	50	13.0
Jan. 7, 1953	56	.21	June 29	88	5.92	Apr. 5	64	4.01
Apr. 9	85	.44	July 28	88	10.5	June 9	65	92.1
May 12	68	1,300	Aug. 29	83	11.1	Apr. 29, 1966	50	378
May 27	80	1.95	Oct. 7	76	12.3	May 1	55	3,050

COLORADO RIVER BASIN

8-1375. Muekwater Creek at Trickham, Tex.

Location.--Lat 31°36', long 99°13', at Trickham, Coleman County, 750 ft upstream from bridge on Farm Road 1176, 2.9 miles upstream from Hay Creek, 6.9 miles upstream from mouth, and 11.8 miles southwest of Santa Anna.

Drainage area.--70.0 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 15, 1953	76	58.9	May 7, 1958	78	0.38	Apr. 21, 1964	78	3.02
July 15	76	48.5	Apr. 20, 1959	72	1.21	Apr. 23	74	145
Oct. 4	66	1,500	May 18	82	.40	Apr. 23	69	75.8
Oct. 4	66	1,580	July 23	80	15.1	Apr. 27	68	97.3
Oct. 4	66	1,360	Feb. 23, 1960	47	.92	Apr. 28	63	49.3
Oct. 6	66	2.29	Jan. 16, 1961	47	2.80	May 4	78	3.97
May 1, 1954	69	10.6	Feb. 27	55	.65	Mar. 10, 1965	58	.69
June 23	82	7.00	May 8	81	.21	May 17	62	299
Apr. 20, 1957	74	23.9	July 12	82	.30	June 22	75	.59
May 4	66	12.1	May 24, 1963	68	6.86	Nov. 9	60	17.9
Mar. 10, 1958	59	2.20	June 18	77	28.9	May 12, 1966	63	4.34

COLORADO RIVER BASIN

8-1360. Colorado River at Winchell, Tex.

Location.--lat 31°28'05", long 99°09'45", at bridge on U. S. Highway 377, 0.3 mile south of Winchell, Brown County, and 6.2 miles downstream from Home Creek.

Drainage area.--24,580 sq mi, approximately, of which 11,900 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 7, 1950	74	174	Sept. 19, 1957	80	88.8	Dec. 6, 1961	57	152
June 27	84	33.6	Feb. 5, 1958	57	110	Mar. 26, 1962	64	46.1
Aug. 22	80	159	Mar. 10	60	271	Apr. 30	77	67.6
Oct. 24	72	21.7	Apr. 7	67	103	June 4	86	.96
Nov. 15	68	6.08	May 7	76	143	June 20	84	239
Dec. 13	47	9.19	June 11	88	39.1	July 3	85	69.9
Feb. 21, 1951	53	16.8	July 7	85	62.2	Aug. 7	88	84.1
May 14	70	.82	Aug. 12	90	6.27	Nov. 15	60	39.6
May 23	69	6,700	Sept. 8	80	26.2	Dec. 17	50	37.6
July 20	90	15.1	Oct. 15	79	47.7	Jan. 28, 1963	38	24.7
Aug. 30	85	238	Nov. 18	72	95.1	Mar. 4	68	21.3
Sept. 26	80	172	Dec. 17	41	54.1	Apr. 8	75	4.98
June 25, 1952	82	3.08	Jan. 19, 1959	48	48.5	May 15	86	35.8
Oct. 23	71	2.58	Feb. 18	60	14.6	May 27	77	690
Dec. 3	52	35.8	Mar. 18	64	3.42	Aug. 27	89	10.3
Jan. 6, 1953	49	10.5	Apr. 20	77	.64	Sept. 28	81	1.37
Oct. 16	75	109	May 18	80	303	Dec. 2	50	66.4
Nov. 17	64	39.0	July 21	76	12,000	Jan. 6, 1964	50	10.8
Feb. 15, 1954	67	5.86	July 23	79	1,580	Mar. 16	60	12.0
May 5	68	259	July 29	84	184	Sept. 14	74	11.8
Jan. 12, 1956	46	1.02	Aug. 31	89	.67	Sept. 28	47	21.7
Mar. 1	64	4.67	Feb. 9, 1960	54	301	Feb. 2, 1965	50	19.2
Apr. 10	62	92.7	Feb. 23	42	275	Mar. 8	56	48.3
Apr. 13	68	36.9	Mar. 28	65	138	Apr. 12	64	5.20
May 9	80	201	May 4	69	376	May 14	68	17,800
May 22	80	57.0	Sept. 1	82	31.0	June 21	69	126
Aug. 21	77	134	Sept. 12	84	10.8	July 26	84	16.0
Sept. 19	87	3.80	Oct. 10	78	13.2	Aug. 30	82	68.8
Oct. 24	65	277	Nov. 14	64	66.2	Dec. 13	62	25.1
Nov. 7	60	366	Dec. 19	43	95.0	Jan. 19, 1966	47	24.2
Dec. 3	53	4.06	Jan. 18, 1961	49	153	Feb. 28	58	15.1
Jan. 7, 1957	54	20.4	Apr. 5	64	36.8	Apr. 7	68	31.1
Feb. 13	64	284	May 10	74	71.9	June 13	77	10.6
July 9	87	87.0	May 26	74	290	July 19	84	1.02
Aug. 21	85	12.9	Oct. 23	71	109			

COLORADO RIVER BASIN

8-1395. Deep Creek near Mercury, Tex.

Location.--lat 31°24'10", long 99°07'15", at bridge on Farm Road 502, 1.5 miles upstream from Dry Prong Deep Creek, and 2.3 miles Southwest of Mercury, McCulloch County.

Drainage area.--43.9 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 6, 1953	65	131	May 13, 1954	66	3.31	Apr. 20, 1957	72	23.2
Oct. 7	64	122	May 26, 1955	78	116	May 4	65	30.8
Oct. 9	63	102	May 29	72	105	Mar. 10, 1958	60	8.13
Oct. 12	80	44.5	May 30	75	93.5	May 19	70	44.6
Oct. 19	75	3.64	June 13	83	.77	Dec. 13, 1960	39	.63
Oct. 27	62	5.39	Aug. 29, 1956	80	9.05	Apr. 29, 1963	76	1.77
Apr. 30, 1954	75	26.4	Aug. 29	82	3.53	Apr. 24, 1964	73	13.1
May 1	72	4.38	Aug. 30	81	5.07	Sept. 20	67	137
May 3	68	1.12	Aug. 31	79	8.77	Apr. 25, 1966	63	13.5
May 10	68	30.5	Aug. 31	80	5.17	Apr. 25	64	34.3
May 12	64	13.2						

COLORADO RIVER BASIN

8-1415. Hords Creek near Valera, Tex.

Location.--Lat 31°50'10", long 99°32'20", 7,500 ft downstream from Hords Creek Reservoir, 5.5 miles north of Valera, Coleman County, and 7.0 miles west of Coleman.

Drainage area.--53 sq mi, approximately, of which 48 sq mi is above Hords Creek Reservoir.

Remarks.--Flow regulated by Hords Creek Reservoir since April 1948.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 23, 1951	66	0.45	May 23, 1958	88	0.26	Feb. 20, 1962	53	0.13
Apr. 14, 1954	68	1.05	Sept. 17	76	.23	Feb. 6, 1964	48	.23
June 5	80	.88	Dec. 16	35	.05	Dec. 9	48	.34
Apr. 6, 1956	60	.80	Feb. 23, 1960	43	.62	Jan. 20, 1965	53	.09
May 1	67	410	Mar. 28	58	.40	Mar. 9	58	.26
May 2	67	300	Jan. 16, 1961	44	1.34	Apr. 7	74	.21
May 3	68	243	Feb. 27	48	.67	May 17	69	127
Mar. 11, 1958	50	.57	Apr. 3	52	.23	May 19	72	96.8
Apr. 9	67	.11	Dec. 7	54	.38	June 14	66	2.65
May 7	77	.20	Jan. 16, 1962	39	.21	Apr. 20, 1966	70	.83

COLORADO RIVER BASIN

8-1420. Hords Creek at Coleman, Tex.

Location.--Lat 31°50'55", long 99°25'30", at bridge on U. S. Highways 84 and 283 and State Highway 206, 1 mile north of Coleman, Coleman County, 2.5 miles downstream from Bachelor Creek, and 12 miles downstream from Hords Creek Dam.

Drainage area.--107 sq mi, of which 48 sq mi is above Hords Creek Dam.

Remarks.--Since April 1948 flow largely regulated by Hords Creek Reservoir.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 25, 1949	65	1,090	May 13, 1958	73	224	May 23, 1963	65	13.5
Apr. 25	65	699	May 13	75	132	Apr. 21, 1964	71	262
Apr. 26	65	50.9	May 13	75	86.8	Apr. 21	71	158
Apr. 26	69	31.5	May 14	78	21.1	Apr. 22	71	18.0
May 10	79	12.0	May 15	71	7.32	May 4	84	.63
Aug. 9	75	158	July 22	81	121	Sept. 25	70	17.6
Aug. 11	88	.96	July 22	80	108	Oct. 6	72	.13
Feb. 9, 1950	59	.03	July 23	84	13.1	Nov. 11	64	.07
May 22, 1951	64	106	Dec. 16	41	.02	Dec. 9	48	.39
May 22	66	49.4	July 20, 1959	72	209	Jan. 20, 1965	52	.18
May 22	67	34.2	July 23	82	16.7	Mar. 9	55	1.01
May 23	66	8.59	Oct. 5	77	11.8	Apr. 17	74	.50
June 14	78	9.77	Feb. 23, 1960	49	3.60	May 15	73	150
June 15	79	4.64	Mar. 28	62	2.42	May 19	69	250
Oct. 23	64	16.3	Jan. 16, 1962	38	.91	June 14	65	5.73
May 20, 1952	62	3.24	Feb. 20	56	.68	July 19	91	.12
Apr. 17, 1954	73	.25	May 6, 1963	60	48.2	Sept. 15, 1966	76	1.57
May 7, 1958	76	.38	May 6	60	29.1			

COLORADO RIVER BASIN

8-1435. Pecan Bayou at Brownwood, Tex.

Location.--Lat 31°43'54", long 98°58'25", at Brownwood, Brown County, 6.3 miles downstream from Salt Creek, and 10 miles downstream from Brownwood Reservoir.

Drainage area.--1,614 sq mi.

Remarks.--Flow regulated by Brownwood Reservoir.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 26, 1951	75	148	July 8, 1958	84	0.65	Nov. 15, 1962	60	1.10
July 19	92	.50	Feb. 18, 1959	57	.38	Dec. 18	51	2.77
May 20, 1952	68	6.60	Mar. 19	58	.48	Mar. 6, 1963	55	.70
May 21	66	4.03	Apr. 21	68	2.07	Apr. 10	70	.85
Aug. 27	84	8.62	Mar. 29, 1960	61	6.69	Apr. 29	68	30.6
Jan. 5, 1953	50	.67	May 5	71	312	July 25	82	.24
Feb. 8	50	.91	Nov. 15	61	.58	Feb. 13, 1964	50	1.69
Jan. 12, 1956	48	2.01	Jan. 16, 1961	48	6.91	Mar. 17	64	.73
Mar. 1	57	.89	Apr. 3	63	7.36	Apr. 23	69	40.3
Apr. 5	65	6.51	May 8	76	4.19	Mar. 10, 1965	60	6.72
Sept. 20	79	3.71	Dec. 7	56	1.61	Apr. 12	64	2.29
Oct. 25	72	4.65	Jan. 8, 1962	48	1.23	June 22	68	1.87
Mar. 27, 1957	56	.75	Feb. 20	60	.38	Nov. 10	68	7.61
Apr. 8, 1958	63	2.26	Mar. 28	59	1.00	Dec. 14	52	2.36
May 6	68	6.00	Aug. 8	78	293	Jan. 20, 1966	37	3.24
June 9	82	.94						

COLORADO RIVER BASIN

8-1445. San Saba River at Menard, Tex.

Location.--Lat 30°55'05", long 99°47'05", at bridge on U. S. Highway 83 in Menard, Menard County, and 0.7 mile downstream from Las Moras Creek.

Drainage area.--1,151 sq mi.

Remarks.--Low flow during irrigation season regulated by diversions to Noyes Canal 4 miles upstream.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 21, 1950	61	40.3	May 15, 1955	74	4.56	Jan. 8, 1963	51	5.55
Mar. 16	64	4.91	May 19	65	2,940	Feb. 14	42	34.4
Apr. 25	68	39.8	May 26	81	3.33	Mar. 26	65	4.21
July 7	84	3.26	June 30	80	181	May 1	69	2.16
Aug. 7	84	3.48	Jan. 11, 1956	45	17.9	July 15	81	.82
Sept. 11	78	3.54	May 11	80	27.6	Sept. 25	76	2.01
Oct. 11	73	2.56	May 15	78	27.7	Oct. 29	65	1.24
Nov. 10	53	2.96	May 18	80	43.0	Dec. 9	47	26.4
Dec. 7	44	3.76	June 19	82	13.8	Jan. 14, 1964	38	2.47
Jan. 15, 1951	44	21.7	Feb. 27, 1957	56	16.8	Feb. 19	50	3.08
Feb. 12	62	8.55	Mar. 5	62	1.73	Feb. 20	48	3.10
Mar. 14	58	9.33	Mar. 21	60	41.6	Mar. 30	65	29.9
Apr. 16	64	7.44	Apr. 3	59	169	Apr. 28	65	2.45
June 8	85	5.88	May 6	68	53.5	May 5	77	.82
July 2	83	2.12	Jan. 25, 1959	54	15.4	June 8	77	1.36
Aug. 27	84	17.1	Feb. 25	53	14.2	Aug. 23	78	817
Oct. 22	72	2.05	Mar. 25	65	11.3	Aug. 23	78	452
Feb. 27, 1952	50	3.16	Apr. 28	73	16.1	Aug. 24	76	108
Mar. 26	57	3.76	May 13	83	9.11	Sept. 21	76	36.9
May 5	72	19.6	May 27	79	3.99	Sept. 28	71	63.1
May 28	71	45.0	June 22	85	3.03	Oct. 7	71	27.7
Sept. 13	77	2.00	July 27	83	7.41	Nov. 3	67	4.01
Oct. 15	64	.59	Aug. 31	83	2.90	Dec. 7	52	4.53
Nov. 6	64	.12	Nov. 3	72	45.1	Jan. 12, 1965	52	13.3
Dec. 8	50	2.33	Nov. 23	51	38.3	Feb. 15	51	34.2
Jan. 20, 1953	50	23.0	Jan. 4, 1960	47	39.9	Mar. 23	58	29.1
Mar. 2	64	1.17	Feb. 9	52	14.1	Apr. 26	74	5.14
Aug. 5	77	31.0	Mar. 15	55	13.5	June 1	77	41.0
Aug. 5	78	23.6	Apr. 20	75	9.13	Oct. 19	77	.12
Sept. 1	79	2.54	June 6	81	4.45	Nov. 10	62	28.2
Sept. 8	78	3.54	Oct. 24	68	22.4	Nov. 15	65	9.28
Oct. 13	70	27.6	Nov. 14	63	28.7	Nov. 22	65	20.8
Nov. 23	53	1.87	Dec. 13	44	38.5	Dec. 27	50	25.0
Dec. 20	42	2.08	Jan. 17, 1961	47	34.6	Jan. 31, 1966	43	10.3
Mar. 17, 1954	53	.91	Feb. 28	52	9.65	Mar. 8	52	24.1
Apr. 2	65	260	May 16	74	8.47	Apr. 12	73	1.44
Apr. 9	74	59.9	Sept. 26	75	9.72	Apr. 17	63	301
Apr. 10	68	39.1	Dec. 5	59	51.2	Apr. 18	61	117
Apr. 20	76	3.83	Jan. 15, 1962	42	18.8	Apr. 19	69	24.0
May 22	75	1.05	Feb. 13	58	47.0	Apr. 21	70	3.72
Nov. 11	59	6.56	Feb. 27	56	44.7	Apr. 29	64	16.4
Feb. 10, 1955	50	.91	Mar. 26	58	11.7	May 16	82	14.8
Feb. 14	54	.81	May 1	70	37.4	Aug. 11	78	836
Feb. 25	53	.56	June 4	78	7.43	Aug. 15	78	79.7
Mar. 7	59	14.1	July 9	84	6.77	Aug. 19	84	20.3
Mar. 24	61	14.3	Sept. 18	82	4.09	Sept. 6	82	4.10
Apr. 12	69	.90	Oct. 23	69	4.74	Sept. 8	77	21.5
May 15	72	8.02	Dec. 4	57	6.39			

COLORADO RIVER BASIN

8-1450. Brady Creek at Brady, Tex.

Location.--Lat 31°08'15", long 99°19'55", at bridge on U. S. Highway 377 on North Bridge Street in Brady, McCulloch County, and 0.4 mile downstream from Live Oak Creek.

Drainage area.--575 sq mi.

Remarks.--Since May 22, 1963, when deliberate impoundment began, flow largely controlled by Brady Creek Reservoir.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 23, 1949	49	1.06	Mar. 1, 1957	56	0.29	June 10, 1959	82	12.0
Feb. 24	70	.76	Jan. 23, 1958	46	26.9	June 24	82	1.24
Mar. 21	59	129	Jan. 28	51	13.0	Oct. 17, 1960	55	20.8
Mar. 24	68	9.04	Feb. 24	52	71.3	Sept. 30, 1964	73	2.20
May 6	74	10.4	Feb. 26	55	28.9	Nov. 6	60	.90
June 14	83	4.27	Mar. 5	54	16.3	Dec. 9	54	.14
Sept. 21	79	2.20	Mar. 20	51	12.9	Mar. 24, 1965	57	.55
Apr. 10, 1950	79	--	Apr. 2	65	6.66	Apr. 28	71	.40
June 6, 1951	75	2.04	Apr. 30	63	1.88	June 4	76	.30
June 3, 1952	77	22.2	May 2	65	3.79	Oct. 21	70	.29
Apr. 30, 1953	75	194	May 7	68	4.27	Nov. 24	64	.004
May 1	72	32.8	May 20	72	20.4	Dec. 29	53	.04
Apr. 11, 1955	62	.31	May 28	85	.56	Mar. 10, 1966	57	.04
Aug. 21, 1956	71	70.8	June 8	77	21.2	Apr. 14	64	--

COLORADO RIVER BASIN

8-1460. San Saba River at San Saba, Tex.

Location.--Lat 31°12'50", long 98°42'40", at bridge on State Highway 16, 1.2 miles north of San Saba, San Saba County, 4.8 miles downstream from China Creek, 5.0 miles upstream from Simpson Creek, and 15.5 miles upstream from mouth.

Drainage area.--3,042 sq mi.

Water temperature records available.--Once-daily readings from October 1962 to September 1966. Temperature readings at irregular intervals for the period 1948-66 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1963	Mean	73	59	53	45	52	64	73	78	84	-	85	80
	Max.-Min.	81 65	69 50	62 48	55 38	58 46	76 56	81 61	84 69	88 80	- -	89 80	87 72
1964	Mean	71	61	47	48	51	62	72	78	83	-	-	79
	Max.-Min.	75 67	66 53	54 39	56 38	55 45	68 53	78 64	83 70	87 75	- -	- -	87 68
1965	Mean	-	63	52	56	52	57	74	75	83	87	85	81
	Max.-Min.	- -	70 52	60 44	65 50	58 47	67 51	80 61	81 68	86 79	89 83	87 80	86 71
1966	Mean	68	64	55	48	51	62	70	77	83	87	83	78
	Max.-Min.	75 64	67 56	61 49	60 39	58 41	71 54	75 65	84 65	86 80	90 83	89 77	85 74
1963-66	Mean	71	62	52	49	52	61	72	77	83	87	84	80
	Max.-Min.	81 64	70 50	62 39	65 38	58 41	76 51	81 61	84 65	88 75	90 83	89 77	87 68

COLORADO RIVER BASIN

8-1470. Colorado River near San Saba, Tex.

Location.--Lat 31°13'05", long 98°33'50", at bridge on U. S. Highway 190, 5.2 miles downstream from San Saba River, and 9.2 miles east of San Saba, San Saba County.

Drainage area.--30,600 sq mi, approximately, of which 11,900 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from October 1947 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1948	Mean	73	57	54	47	49	59	70	76	-	82	82	78
	Max.-Min.	82 69	68 50	62 47	59 32	61 38	72 40	78 58	86 64	- -	89 76	92 77	88 70
1949	Mean	-	58	54	47	54	60	63	74	82	87	85	79
	Max.-Min.	- -	73 47	63 41	57 37	67 36	71 51	73 54	79 68	89 78	91 81	90 78	86 70
1950	Mean	68	59	54	55	55	-	67	75	83	84	85	79
	Max.-Min.	79 57	65 50	62 46	64 40	65 46	- -	77 59	82 65	91 71	90 78	89 80	84 72
1951	Mean	74	59	50	51	55	63	69	75	80	88	88	81
	Max.-Min.	80 66	73 48	62 42	58 32	66 33	75 50	78 58	83 68	87 72	91 85	92 84	90 71
1952	Mean	73	58	54	58	60	63	68	71	82	86	89	79
	Max.-Min.	82 64	70 45	64 40	67 45	66 49	75 54	78 58	76 60	88 74	89 80	92 85	88 74
1953	Mean	69	60	53	52	56	61	66	73	85	84	83	78
	Max.-Min.	78 60	72 46	57 45	61 42	60 47	73 49	74 60	86 57	93 80	90 76	92 71	90 71
1954	Mean	70	58	50	49	56	60	68	70	81	86	87	82
	Max.-Min.	80 60	65 51	60 41	60 38	64 43	74 45	79 55	80 62	90 76	92 82	90 82	90 73
1955	Mean	71	57	52	51	53	60	71	77	83	83	83	80
	Max.-Min.	84 60	61 51	64 34	62 44	62 45	70 50	79 57	85 68	87 67	88 78	89 80	85 71
1956	Mean	69	58	-	-	-	60	65	76	84	86	86	82
	Max.-Min.	80 59	74 45	- -	- -	- -	72 49	74 58	89 62	89 77	90 80	98 76	86 76
1957	Mean	70	56	50	49	58	58	63	77	85	84	82	77
	Max.-Min.	76 60	63 46	62 45	58 39	69 51	66 52	69 55	- -	85 70	90 81	88 78	86 67
1958	Mean	64	54	50	46	48	55	66	73	80	82	83	77
	Max.-Min.	77 53	66 44	60 45	51 43	58 40	68 50	72 60	87 52	88 75	90 79	90 76	81 72
1959	Mean	68	58	47	46	50	55	64	74	78	81	82	77
	Max.-Min.	78 56	67 50	58 35	57 36	60 40	65 46	75 50	80 68	84 71	90 74	90 78	81 70
1960	Mean	-	52	51	46	49	52	66	72	81	83	81	76
	Max.-Min.	- -	67 40	57 45	57 40	55 40	65 39	75 59	80 62	86 76	90 79	88 78	88 67
1961	Mean	69	59	47	44	50	59	65	73	76	80	80	75
	Max.-Min.	80 58	68 48	61 40	49 35	62 35	70 48	74 58	77 68	82 69	83 75	90 75	83 69
1962	Mean	68	54	50	-	53	55	64	73	79	82	82	79
	Max.-Min.	79 62	71 49	60 38	- -	68 46	68 47	75 50	76 68	85 75	92 80	85 79	89 72
1963	Mean	71	57	50	44	48	59	70	73	79	82	-	79
	Max.-Min.	78 62	63 49	59 45	49 36	54 40	68 51	74 59	77 66	84 71	84 80	- -	85 65
1964	Mean	70	59	45	44	47	58	67	74	78	-	-	77
	Max.-Min.	74 65	64 54	59 35	53 33	60 38	65 52	72 59	78 67	82 70	- -	- -	82 67
1965	Mean	65	61	49	53	50	53	69	71	80	83	81	78
	Max.-Min.	74 60	67 50	60 42	62 45	60 46	62 45	74 60	75 64	85 74	88 80	88 77	90 68
1966	Mean	-	61	53	46	49	56	66	72	79	82	79	74
	Max.-Min.	- -	69 52	60 50	55 39	55 40	65 50	70 62	81 60	82 74	85 80	85 71	80 70
1948-66	Mean	70	58	51	49	52	58	67	73	80	84	83	78
	Max.-Min.	84 53	74 40	64 34	64 32	69 33	75 39	79 50	88 52	93 67	92 74	98 71	90 65



COLORADO RIVER BASIN

8-1485. North Llano River near Junction, Tex.

Location.--Lat 30°31'00", long 99°48'45", 1,000 ft upstream from remains of old Wilson Dam, 3 miles northwest of Junction, Kimble County, and 4 miles upstream from confluence with South Llano River.

Drainage area.--914 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 21, 1949	86	45.1	Jan. 11, 1956	42	7.85	June 15, 1961	80	11.5
July 19	79	22.4	Apr. 5	66	6.03	Aug. 21	80	46.9
Aug. 23	92	14.8	May 11	81	4.29	Sept. 26	75	27.7
Sept. 27	80	21.7	Apr. 3, 1957	70	.79	Oct. 30	69	30.5
Oct. 18	73	21.9	Apr. 30	66	126	Dec. 5	61	40.2
Nov. 28	65	22.6	July 17	85	18.2	Jan. 15, 1962	48	31.8
Jan. 5, 1950	50	25.8	Jan. 2, 1958	47	32.9	May 26	63	24.0
Feb. 21	63	24.4	Jan. 27	52	37.0	June 4	80	37.6
Mar. 16	60	19.2	Feb. 23	50	3,800	Aug. 13	92	1.23
Apr. 25	71	32.4	Feb. 23	50	2,910	Oct. 23	70	9.69
June 5	75	32.7	Feb. 23	50	2,220	Jan. 8, 1963	53	12.6
July 7	87	3.45	Feb. 24	55	702	Mar. 26	63	10.9
Aug. 7	87	6.90	Mar. 4	54	146	Sept. 25	80	.71
Sept. 11	85	8.40	Mar. 26	61	78.6	Dec. 9	48	7.35
Sept. 12	78	7.95	Apr. 28	71	45.8	Feb. 19, 1964	52	17.2
Oct. 11	72	6.27	May 26	85	32.1	Mar. 31	62	10.9
Nov. 7	65	5.61	July 22	80	27.6	June 8	82	6.81
Dec. 7	46	9.33	Sept. 3	85	24.8	July 13	88	.40
Jan. 15, 1951	55	11.7	Sept. 17	73	175	Aug. 17	84	2.65
Feb. 13	58	10.4	Oct. 6	73	63.2	Sept. 24	70	7,530
Mar. 14	68	9.59	Nov. 11	66	45.3	Sept. 28	74	218
Apr. 16	66	7.23	Dec. 18	44	36.2	Nov. 3	68	48.7
May 24	82	9.37	Jan. 25, 1959	60	30.6	Dec. 7	52	35.6
July 2	89	2.85	Feb. 25	58	27.7	Jan. 12, 1965	56	28.9
Aug. 29	84	2.89	Mar. 25	72	21.9	Mar. 23	62	28.5
Sept. 24	81	2.40	May 27	80	15.4	Apr. 26	72	18.7
Nov. 26	54	.76	June 23	80	8.98	June 1	77	377
Feb. 27, 1952	56	6.13	Aug. 31	84	24.2	July 7	83	34.6
Mar. 27	51	5.01	Nov. 23	58	28.0	Aug. 9	82	17.1
May 2	75	27.6	Jan. 4, 1960	52	29.6	Sept. 14	81	10.1
May 27	75	31.7	June 6	83	8.98	Oct. 19	74	11.9
June 23	86	2.06	Aug. 4	82	23.2	Dec. 27	53	18.9
Jan. 18, 1954	55	.54	Sept. 7	81	31.2	Jan. 31, 1966	43	19.8
Mar. 17	56	.70	Nov. 14	71	19.9	Mar. 8	54	18.3
Apr. 15	74	.55	Dec. 13	44	35.5	Apr. 12	76	14.6
Mar. 21, 1955	66	.56	Jan. 17, 1961	53	46.9	May 16	80	44.5
Apr. 12	67	.52	Feb. 28	61	39.2	July 5	84	6.54
May 26	81	.41	May 16	75	16.3	Aug. 8	86	2.61

COLORADO RIVER BASIN

8-1500. Llano River near Junction, Tex.

Location.--Lat 30°29'50", long 99°43'20", near Farm Road 2169, half a mile downstream from point where slough diverts floodwater from main channel, 3 miles east of Junction, Kimble County, 3.8 miles downstream from confluence of North Llano and South Llano Rivers, and 4.3 miles upstream from Johnson Fork.

Drainage area.--1,874 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 24, 1949	79	95.2	Mar. 17, 1954	55	27.0	July 5, 1960	79	59.2
Oct. 18	73	88.8	Apr. 15	73	31.0	July 13	80	60.3
Nov. 28	65	109	May 21	79	22.1	Aug. 4	78	101
Jan. 4, 1950	49	101	June 22	84	13.6	Sept. 7	81	179
Feb. 21	63	91.1	July 20	86	20.5	Nov. 14	68	163
Mar. 16	58	77.0	Aug. 24	84	13.8	Jan. 17, 1961	55	221
June 5	74	74.2	Sept. 30	79	14.8	Mar. 1	55	195
July 7	78	43.9	Nov. 3	58	22.9	May 16	74	18
Aug. 7	84	53.4	Jan. 12, 1955	53	34.8	Aug. 22	78	175
Sept. 11	81	66.9	Feb. 10	54	30.4	Sept. 26	78	142
Oct. 11	70	70.2	Mar. 7	59	28.0	Oct. 30	68	145
Nov. 8	63	65.0	Apr. 12	67	25.2	Dec. 5	64	158
Dec. 7	52	61.4	May 26	79	29.5	Jan. 15, 1962	52	130
Feb. 13, 1951	58	55.6	May 11, 1956	75	26.9	Jan. 17	49	127
Mar. 14	65	57.1	June 19	84	13.9	Mar. 26	65	115
Apr. 16	64	52.4	July 24	84	10.1	June 4	80	148
May 24	78	53.4	Aug. 22	79	20.1	Sept. 18	82	68.7
July 2	83	31.5	Sept. 19	80	12.4	Dec. 4	63	77.9
Aug. 15	85	19.4	Oct. 24	76	17.9	Feb. 14, 1963	50	86.0
Sept. 24	79	30.2	July 17, 1957	79	97.3	May 11	70	60.4
Nov. 26	60	40.1	Jan. 2, 1958	54	133	July 15	87	56.1
Feb. 27, 1952	57	39.6	Feb. 24	53	1,470	Sept. 25	78	64.5
Mar. 27	58	40.0	Mar. 4	52	357	Dec. 9	53	75.5
May 2	68	54.7	Mar. 27	58	227	Feb. 19, 1964	57	82.0
May 27	73	59.4	Mar. 27	60	227	Mar. 31	66	76.5
June 23	82	23.3	Apr. 3	68	201	June 8	81	56.6
July 22	80	21.9	Apr. 28	71	163	July 14	79	30.9
Aug. 22	84	15.2	May 26	86	133	Sept. 24	72	6,420
Aug. 28	82	15.0	July 22	80	130	Sept. 28	74	533
Aug. 30	82	14.3	Sept. 3	83	138	Nov. 3	69	143
Sept. 3	72	16.8	Sept. 17	72	2,520	Dec. 7	53	123
Oct. 15	68	22.9	Oct. 6	72	259	Mar. 23, 1965	64	105
Nov. 6	65	30.4	Nov. 11	66	197	June 2	73	468
Dec. 8	58	35.4	Dec. 18	53	168	Aug. 9	81	76.5
Jan. 20, 1953	48	33.1	Jan. 25, 1959	58	149	Sept. 14	81	57.7
Mar. 5	58	30.2	Feb. 25	60	130	Nov. 22	67	69.9
Mar. 5	58	30.3	Mar. 25	69	122	Dec. 27	58	76.3
June 2	82	17.1	Apr. 27	74	108	Jan. 31, 1966	47	77.9
Aug. 19	82	14.6	May 27	85	113	Mar. 8	57	73.9
Oct. 13	88	24.5	June 23	78	87.6	Apr. 12	75	58.4
Nov. 23	58	31.3	July 28	78	175	July 5	82	146
Dec. 29	49	35.4	Aug. 31	82	103	Aug. 8	86	60.1

COLORADO RIVER BASIN

8-1508. Beaver Creek near Mason, Tex.

Location.--Lat 30°38'35", long 99°05'40", at bridge on U. S. Highway 87, 1.4 miles upstream from Llano River, 6.4 miles downstream from Spring Creek, and 11.1 miles southeast of Mason, Mason County.

Drainage area.--218 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 11, 1963	94	0.09	Sept. 25, 1964	71	105	Aug. 10, 1965	80	0.40
Sept. 25	79	1.09	Sept. 29	70	36.6	Oct. 20	73	6.41
Oct. 30	66	2.63	Nov. 4	65	9.28	Nov. 23	59	1.83
Dec. 9	52	1.49	Dec. 8	51	2.76	Dec. 28	51	2.24
Jan. 15, 1964	39	1.34	Jan. 13, 1965	52	2.24	Feb. 1, 1966	50	2.40
Feb. 19	60	2.46	Feb. 16	50	10.2	Mar. 9	56	2.20
Apr. 2	64	2.33	Mar. 23	70	4.65	Apr. 13	72	.74
May 5	80	.41	Apr. 26	72	1.42	May 17	86	3.96
June 8	86	1.77	June 2	72	12.3	July 6	92	.21
Sept. 20	78	8.44	July 8	81	.27			

COLORADO RIVER BASIN

8-1515. Llano River at Llano, Tex.

Location.--Lat 30°45'04", long 98°40'10", in Llano, Llano County, 0.4 mile downstream from bridge on State Highway 16, and 7 miles upstream from Little Llano River.

Drainage area.--4,233 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 19, 1949	75	206	Mar. 21, 1955	63	167	Mar. 1, 1961	58	456
Oct. 19	75	25.7	Mar. 22	65	129	May 16	81	131
Nov. 29	57	84.2	Mar. 24	64	93.0	Sept. 27	78	167
Jan. 5, 1950	48	201	Apr. 11	70	66.0	Oct. 31	73	182
Feb. 20	65	207	May 12	82	1,090	Jan. 16, 1962	43	188
Feb. 21	60	33.7	Jan. 10, 1956	50	50.9	Jan. 24	42	188
Mar. 15	66	206	Apr. 4	71	27.6	Feb. 19	62	143
Apr. 26	65	262	May 10	81	39.3	Mar. 27	64	127
July 6	87	197	June 19	90	2.21	May 1	74	165
July 6	90	22.9	Jan. 22, 1957	57	29.5	May 28	78	71.8
Aug. 8	85	210	Apr. 3	72	95.7	June 5	80	295
Oct. 10	73	196	Apr. 25	68	14,800	Aug. 10	93	28.8
Nov. 7	68	23.1	May 7	65	358	Sept. 18	84	65.6
Jan. 16, 1951	50	24.0	June 6	68	1,630	Oct. 23	69	98.0
Feb. 19	58	180	Jan. 2, 1958	47	238	Dec. 4	60	118
Mar. 13	63	23.6	Mar. 5	52	926	Jan. 9, 1963	54	99.4
Apr. 17	64	191	Mar. 21	62	675	Feb. 14	55	93.1
May 24	76	22.4	Apr. 2	67	468	Mar. 26	70	83.2
July 3	85	15.4	Apr. 28	74	302	May 1	74	59.4
Sept. 26	78	280	May 27	86	203	July 16	85	26.0
Sept. 26	85	194	July 22	84	171	Sept. 26	77	85.8
Oct. 9	75	17.9	Sept. 4	82	165	Oct. 30	70	127
Oct. 24	68	19.5	Sept. 17	75	328	Dec. 10	50	90.0
Nov. 26	59	49.5	Oct. 7	73	343	Feb. 25, 1964	49	130
Feb. 27, 1952	58	50.7	Nov. 11	66	263	Apr. 2	72	97.9
Mar. 26	64	34.8	Jan. 26, 1959	54	192	May 6	78	70.5
Apr. 15	72	51.3	Feb. 25	60	190	June 8	82	48.5
May 7	79	78.0	Mar. 26	62	80.4	July 14	94	4.14
May 27	75	149	Apr. 28	75	146	Aug. 17	82	585
June 23	84	12.1	May 27	82	151	Sept. 22	75	9,240
July 23	92	10.7	June 23	80	75.0	Sept. 29	72	1,710
Sept. 15	84	368	July 28	87	416	Nov. 4	67	1,020
Oct. 15	64	29.4	Aug. 31	83	122	Dec. 8	51	191
Nov. 6	64	45.9	Nov. 23	52	164	Mar. 24, 1965	57	187
Dec. 9	53	57.8	Jan. 11, 1960	58	446	Apr. 27	68	304
Jan. 2, 1953	48	542	Feb. 10	52	445	June 3	76	732
Jan. 20	48	103	Mar. 15	59	206	July 8	91	106
Mar. 5	60	57.4	Apr. 25	71	146	Aug. 10	92	58.0
Oct. 13	74	33.4	June 6	85	68.9	Sept. 15	85	41.4
Nov. 23	54	34.5	July 6	82	35.5	Oct. 20	72	127
Dec. 30	42	41.4	July 13	95	31.2	Nov. 23	68	85.1
Apr. 15, 1954	77	59.1	July 19	84	1,170	Dec. 28	94	109
May 21	79	12.4	Aug. 3	88	100	Feb. 1, 1966	47	103
June 23	85	2.33	Aug. 17	80	6,400	Mar. 9	58	101
Aug. 24	86	.78	Aug. 18	82	2,700	Apr. 13	74	72.8
Sept. 30	80	3.32	Aug. 22	86	663	May 2	62	4,830
Nov. 3	56	17.0	Sept. 7	80	246	May 17	89	201
Jan. 11, 1955	53	49.6	Nov. 14	69	245	July 6	83	36.8
Mar. 8	56	34.5	Jan. 17, 1961	53	542	Aug. 9	90	42.3

COLORADO RIVER BASIN

6-1535. Pedernales River near Johnson City, Tex.

Location.--Lat 30°17'27", long 98°24'01", at bridge on U. S. Highway 281, 0.2 mile downstream from Towhead Creek, 1.1 miles northeast of Johnson City, Blanco County, and 3.4 miles downstream from Buffalo Creek.

Drainage area.--947 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 26, 1950	89	6.20	Jan. 24, 1956	50	9.27	Oct. 27, 1961	74	109
July 31	87	.56	Feb. 13	56	13.0	Dec. 1	65	51.7
Sept. 6	82	11.9	Mar. 19	60	2.28	Jan. 7, 1962	45	43.5
Oct. 9	78	2.15	Nov. 19	62	1.50	Feb. 8	62	35.4
Nov. 13	57	2.50	Dec. 17	59	.38	Mar. 15	45	38.4
Dec. 18	57	9.16	Jan. 21, 1957	60	1.26	May 19	86	15.3
Jan. 22, 1951	58	7.27	Feb. 26	58	20.8	Aug. 6	98	1.98
Feb. 26	68	12.5	Apr. 2	67	50.7	Oct. 8	89	9.27
Apr. 2	69	15.1	May 14	74	354	Nov. 13	61	13.6
May 6	71	23.4	June 18	90	132	Dec. 20	62	22.6
June 11	90	8.20	Sept. 17	76	6.78	Jan. 23, 1963	37	22.0
Oct. 1	83	4.32	Jan. 28, 1958	64	183	Apr. 1	75	7.82
Nov. 5	68	.92	Feb. 27	57	442	May 10	89	6.01
Dec. 17	52	5.39	Mar. 26	60	287	May 20	77	46.9
Jan. 21, 1952	72	4.63	Apr. 30	68	132	May 27	87	20.4
Mar. 4	63	5.85	June 9	78	48.8	June 21	87	3.88
Apr. 7	75	6.58	June 13	85	41.9	Oct. 10	76	1.56
May 12	78	10.5	July 14	84	96.4	Nov. 16	67	20.0
June 16	86	20.9	Aug. 13	80	25.2	Dec. 21	40	22.7
July 21	88	7.68	Sept. 24	86	194	Jan. 25, 1964	46	14.0
Oct. 27	68	27.7	Dec. 8	56	150	Feb. 29	47	30.4
Dec. 8	60	39.0	Jan. 10, 1959	50	108	Apr. 2	66	44.4
Jan. 12, 1953	56	90.7	Feb. 17	68	139	May 9	80	22.8
Feb. 23	46	47.4	Mar. 16	49	86.8	June 12	84	5.46
Apr. 6	74	66.9	May 25	84	101	Oct. 1	84	39.1
June 2	88	14.2	June 29	88	210	Oct. 1	80	37.6
June 22	89	4.41	Aug. 10	83	119	Nov. 7	71	31.6
July 27	94	3.17	Aug. 25	79	41.6	Dec. 12	53	21.2
Sept. 8	81	38.7	Sept. 16	75	31.6	Jan. 16, 1965	53	11.6
Oct. 13	80	18.0	Oct. 16	72	308	Feb. 27	66	74.1
Nov. 16	64	16.4	Nov. 21	56	127	Apr. 3	79	42.6
Dec. 14	48	19.0	Dec. 19	50	285	June 9	80	102
Jan. 18, 1954	54	18.5	Jan. 21, 1960	45	215	June 23	78	19,400
Mar. 7	84	18.2	Mar. 3	37	232	July 13	81	31.3
June 1	94	8.07	Mar. 31	74	219	Aug. 19	84	6.62
Oct. 8	84	37.4	Apr. 28	78	137	Oct. 30	68	28.6
Dec. 3	73	1.80	July 5	85	28.9	Dec. 5	60	224
Jan. 14, 1955	56	6.50	Sept. 12	74	24.4	Jan. 17, 1966	51	72.6
Feb. 21	46	12.1	Oct. 7	80	18.6	Mar. 1	62	103
Mar. 23	67	6.79	Nov. 9	64	107	Apr. 8	69	43.0
Apr. 29	76	.70	Jan. 5, 1961	50	200	May 11	74	84.7
June 6	91	11.8	Mar. 18	58	238	July 18	93	8.58
Aug. 22	96	12.8	May 18	82	64.1	Aug. 25	79	13.7
Oct. 31	68	3.27	Aug. 21	88	57.6	Sept. 26	89	24.8
Dec. 6	50	9.66	Sept. 22	81	37.0			

COLORADO RIVER BASIN

6-1549. Lake Austin at Austin, Tex.

Location.--Lat 30°18'53", long 97°46'29", at City of Austin Water Plant No. 2, 1.5 miles upstream from Tom Miller Dam on the Colorado River at Austin, Travis County.

Drainage area.--38,240 sq mi. of which 11,900 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from October 1964 to September 1966.

Remarks.--Flow regulated by Lake Travis.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1965	Mean	74	69	59	60	57	61	70	70	72	79	81	79
	Max.-Min.	80 71	79 60	67 52	63 57	61 55	66 56	74 64	72 68	76 66	82 74	89 77	82 75
1966	Mean	73	69	64	57	56	61	66	65	71	74	78	77
	Max.-Min.	75 68	72 68	69 61	65 48	61 49	65 55	69 64	68 61	75 66	78 71	81 75	79 74
1965-66	Mean	74	69	62	58	56	61	68	68	72	76	80	78
	Max.-Min.	80 68	79 60	69 52	65 48	61 49	66 55	74 64	72 61	76 66	82 71	89 75	82 74

COLORADO RIVER BASIN

8-1555. Barton Springs at Austin, Tex.

Location.--Lat 30°15'49", long 97°46'02", in Zilker Park at Austin, Travis County.

Remarks.--The flow from Barton Springs (which includes Old Mill Spring) emerges from the Edwards and associated limestones in the Balcones Fault Zone. The flow responds to local rainfall on the Edwards Plateau.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 18, 1948	70	19.4	May 12, 1953	72	51.5	June 24, 1958	76	95.5
Jan. 15, 1949	71	20.0	June 4	72	42.1	July 29	71	72.2
Feb. 5	71	20.2	July 2	73	25.0	Aug. 26	71	56.1
Mar. 5	69	24.4	July 27	75	18.8	Aug. 29	71	49.6
Apr. 9	70	35.6	July 29	72	21.9	Oct. 2	71	58.0
July 2	72	35.3	July 31	71	19.8	Nov. 8	68	84.0
July 23	72	29.1	Aug. 18	71	16.8	Dec. 15	67	79.5
Feb. 23, 1950	70	34.2	Sept. 16	73	47.0	Dec. 22	68	85.1
Apr. 10	73	24.4	Oct. 2	72	36.6	Feb. 10, 1959	68	71.0
Apr. 21	68	43.2	Nov. 4	69	67.0	Mar. 13	65	55.9
June 15	74	50.6	Jan. 11, 1954	69	63.7	Mar. 18	67	63.0
Aug. 8	74	30.2	Feb. 3	69	54.0	Apr. 23	72	81.6
Sept. 14	75	24.6	Feb. 20	69	46.1	July 7	72	57.3
Oct. 26	74	19.5	Mar. 24	70	36.3	Aug. 17	71	32.3
Dec. 8	69	26.4	Apr. 28	71	29.3	Aug. 20	71	41.1
Jan. 19, 1951	71	16.8	June 11	76	29.3	Sept. 11	71	42.6
Feb. 12	71	16.8	June 25	74	20.8	Dec. 10	68	49.7
Feb. 12	71	17.8	July 16	75	19.0	Jan. 18, 1960	68	62.0
Feb. 13	70	16.2	Sept. 17	73	15.6	Feb. 20	60	77.6
Mar. 1	71	17.5	Oct. 29	71	21.7	Mar. 23	70	70.9
Mar. 20	71	17.3	Nov. 17	71	22.0	Apr. 23	69	64.8
Mar. 30	73	19.2	Jan. 5, 1955	71	21.4	May 25	69	55.9
Apr. 3	72	18.3	Sept. 20	72	17.4	June 28	70	52.7
Apr. 18	74	19.1	Dec. 27	71	12.6	July 22	73	43.4
June 25	72	33.2	Jan. 11, 1956	62	15.6	Sept. 7	71	52.5
July 27	73	14.4	Feb. 7	72	13.6	Oct. 13	71	46.2
Aug. 13	74	15.2	Mar. 14	70	16.9	Dec. 27	62	88.3
Aug. 17	73	15.5	Mar. 28	66	10.1	Jan. 26, 1961	62	89.9
Aug. 28	72	22.0	Mar. 29	74	9.59	Mar. 3	66	100
Aug. 29	73	14.2	Apr. 27	75	11.6	May 5	70	94.1
Sept. 20	74	19.7	May 25	76	14.0	June 5	71	72.4
Oct. 3	75	16.9	June 12	76	12.2	Jan. 26, 1962	68	53.5
Oct. 31	72	14.8	June 25	72	10.3	Feb. 23	68	59.2
Dec. 19	71	16.4	July 23	72	10.9	July 12	74	39.0
Dec. 31	72	15.1	Aug. 28	72	18.0	Dec. 6	70	33.6
Jan. 17, 1952	71	14.6	Aug. 31	73	11.8	Jan. 3, 1963	69	44.4
Jan. 20	71	10.9	Oct. 23	70	12.9	Feb. 6	68	50.1
Jan. 21	72	11.6	Nov. 19	71	15.3	Mar. 13	68	47.0
Jan. 22	68	11.8	Dec. 5	72	11.3	Apr. 22	70	67.2
Jan. 23	67	11.7	Dec. 27	70	12.6	May 23	70	51.3
Jan. 25	72	11.8	Feb. 1, 1957	72	21.4	July 5	69	29.5
Jan. 28	69	12.8	Feb. 5	72	16.1	Aug. 2	72	40.0
Feb. 1	70	12.7	Feb. 12	71	14.3	Aug. 15	71	32.1
Feb. 4	70	13.2	Feb. 19	71	13.1	Sept. 24	72	20.7
Feb. 6	70	16.2	Feb. 26	73	17.1	Sept. 28	71	21.2
Feb. 8	71	14.5	Mar. 5	72	15.6	Nov. 21	72	20.2
Feb. 11	72	11.2	Mar. 14	72	13.6	Jan. 2, 1964	70	18.7
Mar. 7	73	15.1	Mar. 14	72	14.4	Feb. 15	71	20.9
Apr. 4	73	13.2	Mar. 15	72	15.3	Mar. 14	71	19.0
May 6	72	29.4	Mar. 15	72	15.4	Apr. 9	71	27.2
May 23	72	29.6	Mar. 20	72	9.69	May 9	72	20.2
June 26	74	26.9	Mar. 30	71	24.4	June 11	72	21.3
Aug. 14	75	18.2	Apr. 15	71	18.9	July 14	72	20.2
Sept. 2	74	13.5	May 18	72	53.4	Oct. 17	71	18.6
Sept. 16	74	30.2	July 22	71	48.2	Mar. 13, 1965	67	66.3
Sept. 25	74	46.6	Aug. 16	72	32.2	June 2	76	96.6
Sept. 30	72	26.9	Sept. 27	74	88.2	Aug. 18	71	75.1
Oct. 5	71	33.4	Oct. 2	72	42.8	Dec. 8	69	83.0
Dec. 5	69	34.2	Nov. 9	68	52.0	Mar. 4, 1966	64	79.0
Feb. 6, 1953	68	51.5	Jan. 22, 1958	64	74.6	June 10	72	72.5
Mar. 3	69	41.1	Mar. 3	57	133	Aug. 17	74	45.1
Mar. 20	70	49.6	Apr. 2	69	105			
Mar. 24	71	47.2	May 13	72	74.6			

COLORADO RIVER BASIN

8-1570. Waller Creek at 38th Street, Austin, Tex.

Location.--Lat 30°17'49", long 97°43'36", near bridge at East 38th Street at Austin, Travis County, 1.1 miles upstream from West Branch of Waller Creek, and 5.3 miles upstream from Colorado River.

Drainage area.--2.31 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 12, 1955	71	1.38	Apr. 6, 1959	71	1.11	Jan. 26, 1961	51	0.77
Apr. 12	71	1.08	May 8	74	.67	Mar. 3	66	.94
Nov. 8	43	.24	June 16	81	.79	Apr. 4	72	.44
Dec. 1	41	2.27	July 21	78	2.74	May 5	76	.44
Dec. 23	51	.02	Aug. 27	81	5.44	June 9	82	.88
Mar. 27, 1956	75	.03	Sept. 29	81	.50	July 13	80	5.02
July 19	83	.051	Nov. 5	62	.94	Aug. 17	80	.52
Apr. 22, 1957	74	1.80	Dec. 10	66	.56	Sept. 29	82	.80
Mar. 14, 1958	52	1.39	Jan. 18, 1960	53	.64	Oct. 23	67	.67
Apr. 21	75	1.02	Feb. 20	55	6.15	Dec. 1	64	.64
May 226	76	1.07	Mar. 26	60	.67	Jan. 3, 1962	51	.66
July 3	80	1.00	Apr. 23	72	.51	Feb. 5	56	.37
Aug. 22	78	1.29	May 25	78	.38	Mar. 13	50	.56
Sept. 29	74	1.02	July 18	75	18.2	June 26	84	.85
Nov. 13	70	1.43	July 20	76	36.7	Sept. 6	80	49.3
Dec. 20	63	1.28	Aug. 2	79	.36	Sept. 7	79	.67
Dec. 23	65	1.10	Sept. 12	80	.26	Oct. 18	73	.48
Dec. 24	54	.93	Oct. 13	79	.47	Oct. 19	74	.47
Jan. 23, 1959	47	1.09	Oct. 16	70	23.7	Feb. 28, 1963	60	.60
Feb. 25	57	.70	Nov. 17	48	2.52	Sept. 27	69	.18
Feb. 26	56	5.56	Dec. 22	43	.68	Apr. 24, 1965	75	.51

COLORADO RIVER BASIN

8-1575. Waller Creek at 23rd Street, Austin, Tex.

Location.--Lat 30°17'08", long 97°44'01", near bridge on East 23rd Street at Austin, Travis County, and 2.1 miles upstream from Colorado River.

Drainage area.--4.13 sq mi.

Water-temperature records available.--Thermograph record from March 1955 to September 1960.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1955	Mean	-	-	-	-	-	72	76	80	81	85	86	84
	Max.-Min.	-	-	-	-	-	83-58	87-64	87-70	93-72	90-83	92-80	88-81
1956	Mean	74	66	59	56	60	66	74	79	84	86	82	80
	Max.-Min.	87-62	76-52	69-45	67-43	74-44	77-51	83-67	86-69	88-79	88-83	86-76	83-77
1957	Mean	82	77	76	75	78	80	82	85	87	88	84	87
	Max.-Min.	87-72	76-56	75-49	-	-	78-51	80-62	85-72	-	-	92-78	87-67
1958	Mean	78	70	64	61	63	67	73	78	81	84	85	89
	Max.-Min.	78-58	77-44	69-49	63-49	69-47	73-47	83-57	84-64	87-74	90-76	92-77	89-73
1959	Mean	86	74	65	63	67	76	80	86	88	88	86	87
	Max.-Min.	86-60	75-52	68-46	65-42	71-46	76-55	80-56	86-70	88-74	88-76	86-72	87-71
1960	Mean	83	70	60	56	60	66	74	81	86	89	89	87
	Max.-Min.	83-62	74-45	66-50	69-48	66-45	74-45	80-62	81-67	86-73	83-76	89-77	87-72
1955-60	Mean	73	64	60	56	60	65	72	77	81	84	84	89
	Max.-Min.	87-58	77-44	75-45	69-42	74-44	83-45	87-56	87-64	93-72	90-76	92-72	89-67

COLORADO RIVER BASIN

8-1560. Colorado River at Austin, Tex.

Location.--Lat 30°14'40", long 97°41'39", near bridge on U. S. Highway 183 in Austin, Travis County, and 1.4 miles downstream from Town Lake Dam.

Drainage area.--38,400 sq mi, approximately, of which 11,900 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from October 1947 to September 1966.

Remarks.--Flow largely regulated by Lake Travis.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1948	Mean	76	65	60	54	56	61	70	75	79	81	83	78
	Max.-Min.	72 74	73 60	65 59	62 43	65 47	67 50	74 53	82 71	83 72	86 77	87 81	82 73
1949	Mean	70	63	59	53	55	60	64	73	76	79	80	81
	Max.-Min.	75 65	70 58	63 54	59 45	61 43	65 56	70 58	76 70	78 68	80 77	83 78	84 74
1950	Mean	75	67	63	-	61	63	67	74	76	80	82	79
	Max.-Min.	82 67	72 64	65 59	-	67 58	68 59	72 65	76 70	81 68	83 78	84 80	82 77
1951	Mean	76	66	58	53	56	63	68	72	79	84	85	81
	Max.-Min.	80 72	74 61	64 54	60 45	65 45	67 58	73 64	77 70	83 74	86 81	87 84	87 77
1952	Mean	75	65	60	62	62	61	67	72	78	81	84	79
	Max.-Min.	81 70	73 56	68 53	67 53	66 57	68 57	70 61	75 69	81 75	83 78	87 82	83 73
1953	Mean	69	63	57	56	57	65	67	69	72	73	75	74
	Max.-Min.	76 64	69 55	60 52	60 52	60 54	71 60	71 64	73 66	75 67	76 70	78 72	78 72
1954	Mean	72	64	58	57	62	62	66	68	73	75	75	77
	Max.-Min.	76 68	70 61	65 52	63 52	65 59	67 52	72 63	70 66	- -	80 69	78 71	80 73
1955	Mean	75	63	59	56	57	64	67	71	71	75	80	80
	Max.-Min.	79 68	67 60	64 52	63 54	62 52	70 59	72 61	75 66	74 67	79 75	82 77	81 78
1956	Mean	74	66	57	55	57	62	65	68	71	74	76	77
	Max.-Min.	79 69	72 59	62 54	58 50	63 49	67 59	68 62	71 66	75 69	75 72	78 73	79 74
1957	Mean	73	65	58	56	60	63	67	69	75	-	80	77
	Max.-Min.	76 67	71 60	62 56	60 49	64 49	66 58	72 52	74 62	78 72	- -	82 78	80 74
1958	Mean	72	-	60	55	54	56	61	65	69	74	78	78
	Max.-Min.	76 60	- -	63 57	57 54	57 51	58 54	65 58	68 61	72 67	78 70	79 76	79 76
1959	Mean	72	67	59	53	56	60	65	69	72	74	74	77
	Max.-Min.	77 64	72 58	67 52	58 48	60 52	64 51	68 60	74 67	75 70	77 70	78 72	80 76
1960	Mean	74	66	60	56	54	54	60	64	68	73	76	78
	Max.-Min.	80 71	72 60	62 58	60 53	56 49	58 49	64 55	68 59	72 64	77 70	78 74	79 76
1961	Mean	76	67	58	-	55	59	62	69	73	75	78	78
	Max.-Min.	78 71	72 63	64 44	- -	63 50	64 54	69 58	72 66	75 71	77 72	79 76	81 74
1962	Mean	74	67	61	54	63	63	68	72	71	73	77	79
	Max.-Min.	79 71	74 62	65 56	60 48	68 59	70 58	74 64	76 68	78 68	75 72	80 73	82 76
1963	Mean	76	65	58	53	56	66	69	69	71	75	80	81
	Max.-Min.	81 69	69 62	63 55	61 48	62 50	71 59	72 76	72 65	73 69	79 70	82 78	84 78
1964	Mean	78	74	65	58	60	65	69	72	77	82	84	82
	Max.-Min.	80 76	72 68	68 54	62 52	63 59	72 58	72 66	75 70	82 73	86 72	87 83	85 78
1965	Mean	76	73	64	64	58	61	70	69	71	78	79	78
	Max.-Min.	80 72	80 67	69 60	71 60	60 56	68 56	77 63	72 65	76 65	82 73	80 77	80 75
1966	Mean	72	69	62	57	58	63	67	65	72	77	77	76
	Max.-Min.	74 70	71 66	66 59	64 53	64 54	67 57	69 63	70 58	75 67	77 73	79 75	78 75
1948-66	Mean	74	66	60	56	58	62	66	70	73	77	79	78
	Max.-Min.	82 64	80 55	69 44	71 43	68 43	72 49	77 52	82 58	83 64	86 69	87 71	87 72

COLORADO RIVER BASIN

8-1592. Colorado River at Bastrop, Tex.

Location.--Lat 30°06'20", long 97°19'08", in Bastrop, Bastrop County, 400 ft upstream from bridge on State Highway 71, 0.3 mile upstream from Gills Creek, and 1.1 miles downstream from Piney Creek.

Drainage area.--39,400 sq mi, approximately, of which 11,900 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 4, 1960	48	3,520	Feb. 14, 1962	70	244	Dec. 17, 1963	44	135
Apr. 14	65	3,610	Apr. 9	65	443	Jan. 18, 1964	51	170
Apr. 29	70	4,460	Sept. 24	85	580	Feb. 22	55	123
May 16	74	2,360	Nov. 2	64	170	Dec. 5	52	127
June 17	81	2,990	Dec. 10	56	519	Jan. 10, 1965	54	213
Aug. 22	86	1,230	Jan. 15, 1963	43	409	Feb. 13	54	1,250
Sept. 10	82	773	Mar. 18	69	195	Mar. 20	54	446
Sept. 14	81	531	Oct. 14	79	247	Oct. 16	76	544
May 29, 1961	74	1,190	Oct. 24	78	98.1	Feb. 3, 1966	51	584
Feb. 2, 1962	59	288	Nov. 15	60	90.3	Mar. 9	58	567
Feb. 14	70	230						

COLORADO RIVER BASIN

8-1595. Colorado River at Smithville, Tex.

Location.--Lat 30°01', long 97°10', at bridge on State Highway 71 in Smithville, Bastrop County, 850 ft downstream from Gazley Creek, and 4 miles downstream from Alum Creek.

Drainage Area.--39,880 sq mi, approximately, of which 11,900 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 21, 1949	82	2,400	Apr. 29, 1953	70	29,300	Dec. 17, 1958	50	352
Sept. 28	83	1,170	May 1	71	1,980	Jan. 19, 1959	56	1,110
Nov. 7	64	1,290	June 10	85	2,070	June 10	85	1,760
Jan. 16, 1950	65	872	July 9	85	2,210	July 14	84	1,970
Feb. 17	63	1,120	Aug. 26	82	1,110	Aug. 17	80	1,380
May 31	85	1,790	Oct. 1	78	302	Sept. 21	79	1,980
June 5	78	1,840	Nov. 13	60	367	Feb. 2, 1960	55	3,270
June 21	84	2,240	Jan. 5, 1954	64	314	Mar. 4	46	3,640
Aug. 4	87	2,100	Feb. 19	67	296	May 16	78	2,440
Aug. 16	86	1,840	Mar. 28	75	774	June 17	84	2,860
Oct. 19	72	531	June 19	84	1,850	Aug. 22	85	1,510
Nov. 28	58	555	Sept. 16	85	531	Sept. 14	80	621
Jan. 2, 1951	62	540	Oct. 15	70	336	Oct. 13	77	1,540
Feb. 5	49	1,370	Nov. 22	60	322	Jan. 30, 1962	55	474
Feb. 27	67	314	Feb. 9, 1955	54	543	Feb. 2	56	380
Mar. 16	68	238	Mar. 18	70	414	Feb. 14	68	318
May 9	76	1,360	Apr. 19	77	715	Feb. 14	68	297
June 22	84	1,920	Sept. 19	84	1,390	Apr. 2	65	365
July 3	86	1,890	Oct. 28	71	1,150	Dec. 7	57	707
Aug. 1	86	2,090	Jan. 24, 1956	49	363	Jan. 15, 1963	40	580
Sept. 5	87	1,010	Feb. 28	64	415	Mar. 18	70	224
Jan. 7, 1952	54	233	Oct. 16	76	304	July 22	86	1,940
Feb. 11	65	225	Dec. 11	55	169	Oct. 15	87	174
Mar. 25	60	202	Jan. 4, 1957	62	195	Oct. 24	74	139
Apr. 29	75	500	Jan. 30	49	192	Nov. 15	62	130
June 16	86	1,640	Mar. 21	64	5,350	Dec. 11	52	116
July 22	84	1,650	June 25	77	6,440	Jan. 18, 1964	44	140
Aug. 29	85	1,890	Mar. 4, 1958	56	5,870	Feb. 22	52	132
Sept. 30	81	365	Apr. 7	61	6,970	Oct. 24	68	108
Nov. 12	57	258	May 14	72	4,710	Dec. 5	52	163
Jan. 6, 1953	58	391	June 23	75	5,340	Jan. 10, 1965	52	161
Mar. 16	66	583	Aug. 27	78	2,440	Mar. 20	56	602
Apr. 29	69	32,100						

COLORADO RIVER BASIN

8-1608. Redgate Creek near Columbus, Tex.

Location.--Lat 29°47'56", long 96°31'55", at bridge on Farm Road 109, 1.8 miles upstream from Cummins Creek, and 7 miles north of Columbus, Colorado County.

Drainage area.--173 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 1, 1962	58	2.77	Apr. 7, 1964	69	0.40	Aug. 11, 1965	89	0.06
May 8	90	.84	May 12	96	.15	Nov. 16	73	.31
June 11	96	.47	June 17	82	.54	Dec. 21	58	2.34
July 20	95	.09	Oct. 1	72	.19	Jan. 24, 1966	44	73.2
Oct. 1	84	2.65	Nov. 2	61	.12	Mar. 2	72	3.56
July 8, 1963	94	.17	Dec. 7	52	.14	Apr. 5	70	.61
Nov. 19	75	.10	Jan. 11, 1965	54	.24	May 11	80	2.50
Dec. 16	46	.18	Mar. 23	72	.75	June 17	78	.19
Jan. 28, 1964	61	.30	Apr. 26	80	.63	July 27	77	.04
Mar. 6	65	.46	June 2	85	1.06	Aug. 29	78	.16



COLORADO RIVER BASIN

8-1610. Colorado River at Columbus, Tex.

Location.--Lat 29°42'20", long 96°32'05", at bridge on U. S. Highway 90 at eastern edge of Columbus, Colorado County, 340 ft downstream from Texas and New Orleans Railroad Co. bridge, and 2.6 miles downstream from Cummins Creek.

Drainage area.--41,070 sq mi, approximately, of which 11,900 sq mi is probably noncontributing; 41,170 sq mi, approximately, at site "near Eagle Lake."

Water-temperature records available.--Once-daily readings from March 1957 to June 1959; October 1960 to September 1964. Temperature readings at irregular intervals for the period 1948-66 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1957	Mean	-	-	-	-	-	-	67	70	78	87	86	77
	Max.-Min.	-	-	-	-	-	-	65 60	78 60	85 72	89 85	87 82	83 66
1958	Mean	69	60	57	50	52	57	66	74	81	83	84	60
	Max.-Min.	75 56	70 47	64 48	56 45	59 44	60 51	75 61	82 67	84 78	85 78	86 82	83 75
1959	Mean	71	64	51	49	55	60	66	75	77	-	-	-
	Max.-Min.	77 59	74 49	56 40	63 36	64 44	70 53	74 51	80 67	85 70	-	-	-
1961	Mean	64	64	49	49	54	64	67	77	82	82	85	79
	Max.-Min.	86 73	69 55	65 42	55 40	65 42	72 51	78 58	82 73	86 73	88 75	85 80	84 72
1962	Mean	71	59	56	47	45	59	69	77	81	89	86	81
	Max.-Min.	80 74	75 54	68 46	56 32	70 45	71 54	78 59	82 71	87 63	89 78	86 82	81 73
1963	Mean	73	60	53	46	50	64	73	78	85	85	86	80
	Max.-Min.	83 61	69 53	63 41	63 34	60 40	74 52	78 63	83 69	85 80	88 80	86 82	85 70
1964	Mean	73	62	46	50	44	60	71	83	86	88	87	86
	Max.-Min.	77 65	68 49	60 33	65 35	56 44	78 51	78 60	83 73	86 73	88 81	87 82	86 72
1957-59 1961-64	Mean	72	62	52	48	54	61	68	75	81	84	85	79
	Max.-Min.	86 56	75 47	66 33	65 32	70 40	78 44	78 51	83 60	87 70	89 75	89 80	87 66

COLORADO RIVER BASIN

8-1620. Colorado River at Wharton, Tex.

Location.--Lat 29°18'30", long 96°06'15", at bridge on U. S. Highway 59, in Wharton, Wharton County, 1,000 ft downstream from Texas and New Orleans Railroad Co. bridge, and 12 miles upstream from Jones Creek.

Drainage area.--41,380 sq mi, approximately, of which 11,900 sq mi is probably noncontributing.

Water-temperature records available.--Once-daily readings from October 1944 to June 1946; October 1947 to July 1948; March 1950 to September 1952; October 1953 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1945	Mean	68	65	54	-	63	71	-	-	-	-	-	82
	Max.-Min.	79 62	76 54	62 48	-	68 55	77 66	-	-	-	-	-	-
1946	Mean	73	69	-	53	60	67	74	79	83	-	-	-
	Max.-Min.	82 62	77 59	-	70 45	67 49	78 60	81 70	84 72	92 75	-	-	-
1948	Mean	80	63	58	-	-	73	81	86	89	88	-	-
	Max.-Min.	86 76	74 52	71 45	-	-	89 62	88 75	90 82	91 86	94 80	-	-
1950	Mean	-	-	-	-	-	67	78	80	82	88	84	80
	Max.-Min.	-	-	-	-	-	77 57	78 61	82 77	85 78	88 81	86 82	83 77
1951	Mean	75	66	64	56	63	63	76	80	81	-	86	86
	Max.-Min.	80 72	-	-	58 53	71 56	70 54	76 64	84 76	87 76	-	87 84	87 85
1952	Mean	86	72	69	60	63	67	74	77	77	79	84	85
	Max.-Min.	89 84	72 56	69 47	65 55	66 54	69 64	72 67	77 71	77 72	79 75	84 76	87 82
1954	Mean	72	61	53	61	62	62	76	82	87	87	84	83
	Max.-Min.	79 65	67 51	65 42	71 45	68 52	76 46	78 62	84 64	90 76	95 81	90 80	90 72
1955	Mean	75	63	60	57	57	68	77	80	81	85	83	80
	Max.-Min.	85 64	75 54	70 48	69 42	65 45	80 53	85 63	80 72	90 75	93 80	92 79	88 76
1956	Mean	72	62	56	53	59	63	71	78	82	83	83	78
	Max.-Min.	84 64	74 50	65 47	68 43	70 42	72 52	77 60	81 72	84 78	85 81	86 78	84 73
1957	Mean	72	57	56	56	63	62	69	73	79	86	85	80
	Max.-Min.	78 64	70 45	70 48	68 38	71 51	68 51	75 60	77 66	83 74	88 85	87 82	85 69
1958	Mean	70	63	58	53	53	59	69	76	83	84	85	80
	Max.-Min.	76 60	79 49	65 50	58 48	60 44	65 53	79 63	83 67	85 81	86 80	87 83	85 77
1959	Mean	71	64	52	51	56	62	67	79	84	85	84	81
	Max.-Min.	78 59	75 49	59 42	64 39	66 46	69 55	76 56	89 73	93 79	87 80	88 79	85 73
1960	Mean	73	59	57	-	52	57	70	76	83	86	84	80
	Max.-Min.	82 65	73 48	63 53	-	60 42	66 45	75 62	82 67	86 75	88 80	88 81	85 73
1961	Mean	74	64	53	50	55	65	68	77	80	83	83	79
	Max.-Min.	79 65	69 56	65 42	57 41	66 45	72 57	77 62	87 70	84 74	85 77	86 80	85 74
1962	Mean	73	62	56	49	64	61	70	77	82	85	87	81
	Max.-Min.	81 66	75 57	68 49	60 37	70 53	72 47	77 60	80 72	86 77	88 80	87 83	89 74
1963	Mean	75	61	55	47	52	65	74	78	82	84	84	81
	Max.-Min.	83 63	67 53	63 43	62 37	61 43	74 55	78 64	86 72	84 80	86 82	85 82	86 70
1964	Mean	73	62	48	52	52	61	71	77	82	84	84	80
	Max.-Min.	84 66	73 50	60 35	68 35	59 43	67 50	78 59	82 74	86 73	87 82	86 80	85 71
1965	Mean	68	65	55	57	55	59	74	76	79	87	83	80
	Max.-Min.	76 60	73 48	69 43	69 42	66 49	71 59	77 68	79 70	82 74	87 82	85 80	84 70
1966	Mean	69	68	58	51	54	61	69	73	82	86	82	80
	Max.-Min.	78 62	71 58	68 52	67 40	68 45	69 48	75 62	80 65	85 78	90 82	87 77	85 75
1945-66	Mean	73	63	56	53	58	64	71	77	82	84	84	81
	Max.-Min.	89 59	79 45	71 35	71 35	71 42	89 45	88 56	90 64	93 72	95 75	92 76	90 69

COLORADO RIVER BASIN

E-1625. Colorado River near Bay City, Tex.

Location.--Lat 28°58'26", long 96°00'44", 6,300 ft downstream from bridge on State Highway 35, 7,100 ft downstream from Texas and New Orleans Railroad Co. bridge, and 2.8 miles west of Bay City, Matagorda County.

Drainage area.--41,650 sq mi, approximately, of which 11,900 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 28, 1949	71	31,900	May 31, 1952	75	5,130	June 27, 1957	82	5,970
May 16	82	170	June 7	82	173	July 17	86	4,190
July 21	88	1,250	July 1	85	509	Jan. 8, 1958	50	4,350
Aug. 27	85	255	July 30	87	144	Oct. 21	76	1,820
Sept. 1	89	340	July 31	84	125	Dec. 17	50	768
Sept. 19	82	1,690	Aug. 31	84	348	May 12, 1959	79	5,060
Oct. 31	62	2,730	Aug. 31	84	452	May 14	78	2,810
Nov. 29	70	1,300	Sept. 30	81	644	July 31	84	470
Jan. 4, 1950	59	2,020	Nov. 7	65	325	Feb. 8, 1960	57	4,970
Feb. 7	60	5,280	Dec. 2	47	7,970	Mar. 16	56	3,770
Mar. 7	66	1,320	Jan. 7, 1953	65	1,060	Apr. 20	72	3,110
Apr. 10	74	604	Feb. 1	62	881	May 26	83	2,140
May 10	81	838	Feb. 28	62	1,970	June 21	87	1,590
May 31	86	1,140	Mar. 29	71	391	Sept. 20	84	1,070
June 3	79	11,900	Apr. 25	78	79.1	Nov. 2	67	45,000
June 4	77	25,400	Apr. 30	76	14,600	Nov. 3	70	12,000
June 14	83	1,140	May 1	74	24,300	Dec. 19	50	2,650
July 18	90	3,010	June 2	88	95.7	Apr. 10, 1961	63	4,310
July 20	88	874	Aug. 5	87	266	May 11	75	1,820
Aug. 8	88	340	Aug. 14	88	5.43	Aug. 9	85	3,020
Sept. 19	81	6,630	Aug. 17	87	75.4	Jan. 10, 1962	42	1,930
Oct. 17	75	623	Aug. 27	84	862	Mar. 27	72	356
Nov. 16	70	1,060	Oct. 2	85	346	May 9	81	15.8
Dec. 12	55	1,470	Oct. 16	76	447	June 12	88	761
Jan. 4, 1951	57	854	Oct. 27	72	7,590	July 18	88	224
Feb. 7	51	1,570	Oct. 28	73	5,030	Oct. 26	70	544
Feb. 27	72	608	Nov. 8, 1954	64	369	Nov. 21, 1963	72	266
Mar. 9	75	334	Nov. 18	71	404	Dec. 18	48	388
Mar. 17	69	266	Dec. 7	56	337	Jan. 29, 1964	59	250
Apr. 11	65	434	Jan. 6, 1955	59	401	Mar. 10	62	499
Apr. 12	67	217	Feb. 3	68	354	Apr. 8	71	3.31
May 11	80	906	Mar. 8	56	422	May 20	86	1.65
May 23	84	20.1	Mar. 31	66	91.1	Aug. 24	84	1.44
May 29	87	448	Apr. 7	71	594	Sept. 28	78	349
May 31	87	11.8	May 4	80	46.1	Oct. 8	72	3.31
June 7	78	9,100	May 31	80	388	Nov. 4	74	2.65
June 11	86	678	July 7	84	1,380	Dec. 9	52	306
July 2	87	118	Aug. 5	85	1,980	Jan. 13, 1965	56	370
July 9	93	.60	Oct. 5	79	3,740	Mar. 24	63	582
Aug. 2	87	338	Dec. 13	58	978	Apr. 28	70	495
Aug. 10	88	15.3	Jan. 17, 1956	56	412	Aug. 10	87	411
Sept. 6	88	569	Feb. 22	67	1,450	Sept. 14	86	224
Sept. 13	80	1,500	Mar. 28	73	320	Nov. 23	74	2,120
Oct. 3	85	902	May 10	80	17.4	Jan. 7, 1966	56	1,650
Nov. 8	59	466	June 12	84	1,070	Feb. 3	47	843
Dec. 5	70	450	July 18	90	194	Mar. 10	62	1,100
Jan. 8, 1952	59	362	Aug. 21	86	237	Apr. 19	71	3,190
Feb. 6	57	353	Sept. 25	83	257	June 28	87	329
Mar. 5	61	394	Jan. 11, 1957	53	217	July 29	88	833
Apr. 8	76	640	Feb. 15	66	356	Sept. 1	89	57.3
May 4	81	169	May 1	72	53,000	Sept. 12	82	350
May 30	75	11,400	May 2	72	35,100			

## LAVACA RIVER BASIN

8-1635. Lavaca River at Hallettsville, Tex.

Location. (revised).--Lat 29°26'35", long 96°56'39" at bridge on U. S. Highway 77 in Hallettsville, Lavaca County, 0.7 mile downstream from Campbell Branch.

Drainage area.--101 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 31, 1949	92	2.64	July 16, 1955	91	0.51	Nov. 14, 1961	60	103
July 13	84	.75	Aug. 29	91	.90	Jan. 23, 1962	44	14.8
Aug. 13	93	1.58	Oct. 10	78	.94	Feb. 27	52	12.5
Sept. 17	91	2.74	Nov. 7	72	.44	Apr. 3	60	7.28
Oct. 26	64	17.8	Dec. 16	55	.84	May 7	86	10.2
Oct. 31	62	4.03	Mar. 20, 1957	72	20.6	June 11	82	4.83
Dec. 7	65	3.78	Mar. 22	73	12.3	Oct. 29	68	12.0
Feb. 15, 1950	60	13.9	Apr. 21	71	1,360	Dec. 3	65	9.36
Mar. 21	68	4.40	Apr. 21	71	1,110	Jan. 7, 1963	59	4.15
Apr. 26	80	13.8	Apr. 21	71	786	Feb. 12	48	5.78
June 6	76	41.1	Sept. 6	79	1.22	Mar. 19	70	5.26
June 22	87	8.77	Sept. 25	69	113	Apr. 23	87	2.56
July 17	85	2.70	Nov. 19	63	20.4	May 30	91	.79
Aug. 30	83	1.11	Jan. 9, 1958	49	9.38	July 1	92	12.0
Sept. 30	90	5.36	Jan. 28	46	89.1	July 29	97	.52
Oct. 30	80	.84	Mar. 7	69	21.0	Sept. 3	90	.85
Dec. 4	63	1.40	Apr. 7	77	6.42	Oct. 7	85	.47
Jan. 10, 1951	56	1.83	May 15	79	10.3	Nov. 12	76	1.93
Feb. 9	67	1.99	June 25	94	2.16	Dec. 16	47	3.65
Mar. 13	48	1.62	July 22	82	.90	Jan. 20, 1964	62	2.36
Apr. 13	66	2.13	Aug. 28	89	.39	Feb. 24	50	5.97
May 15	76	2.35	Sept. 25	89	2.24	Apr. 1	72	2.11
June 19	93	2.52	Oct. 23	81	2.23	May 4	83	2.26
July 30	96	.41	Dec. 4	67	2.71	June 8	93	.48
Sept. 11	88	.33	Jan. 8, 1959	56	3.35	June 16	82	33.7
Oct. 2	79	.80	Feb. 5	62	8.45	June 17	87	392
Nov. 2	56	.98	Mar. 13	71	3.71	June 18	78	51.2
Dec. 12	48	1.36	Apr. 16	64	42.0	June 18	89	28.7
Jan. 14, 1952	70	1.05	Apr. 17	64	176	July 13	95	.34
Feb. 19	71	1.52	June 25	79	7.69	Aug. 17	95	.35
May 7	84	.92	July 27	92	3.13	Sept. 22	90	7.23
May 29	74	29.9	Aug. 31	93	3.27	Oct. 26	76	3.41
June 5	89	3.32	Sept. 9	75	62.5	Oct. 27	69	2.06
July 7	85	1.96	Sept. 9	77	42.6	Nov. 30	62	1.15
Sept. 24	82	.44	Sept. 22	81	13.5	Jan. 4, 1965	64	5.96
Oct. 27	76	.44	Oct. 7	72	9.02	Jan. 26	53	5.48
Dec. 3	55	4.57	Nov. 1	71	200	Feb. 16	59	6,570
Jan. 19, 1953	66	3.39	Nov. 1	71	177	Feb. 17	50	407
Mar. 3	75	5.96	Nov. 16	67	15.3	Feb. 18	51	158
Apr. 14	66	1.82	Dec. 16	57	80.7	Feb. 19	60	44.6
Apr. 24	70	1,430	Jan. 27, 1960	70	14.9	Feb. 20	54	27.6
Apr. 29	74	76.9	Mar. 11	58	17.3	Mar. 15	78	6.35
Apr. 30	68	21.8	Apr. 8	76	7.63	Apr. 19	81	3.12
May 28	89	2.11	Apr. 30	71	132	May 13	81	21.2
July 8	96	.64	Apr. 30	71	93.1	May 25	86	21.7
Aug. 4	81	.28	May 11	74	6.44	June 28	92	4.34
Nov. 3	69	3.99	June 14	104	2.22	Oct. 19	72	107
Dec. 9	51	1.29	July 16	87	11.4	Nov. 5	65	180
Jan. 12, 1954	45	2.25	Aug. 25	88	3.96	Nov. 5	69	161
Feb. 15	70	1.70	Nov. 7	68	18.9	Nov. 6	66	62.8
Mar. 22	71	1.23	Dec. 5	69	24.5	Nov. 12	72	27.5
May 3	71	13.3	Mar. 22, 1961	77	17.9	Dec. 20	56	35.3
Nov. 19	60	.39	Aug. 3	83	7.22	Jan. 25, 1966	45	26.3
Feb. 14, 1955	67	2.47	Sept. 7	93	3.60	Feb. 28	61	49.4
Mar. 28	63	.77	Sept. 8	97	3.70	Apr. 5	67	11.3
Apr. 26	80	.57	Sept. 14	79	74.7	June 14	94	12.4
May 18	70	2,070	Sept. 18	80	26.8	July 19	99	4.02
June 7	85	10.0	Oct. 11	86	12.6			

## LAVACA RIVER BASIN

8-1640. Lavaca River near Edna, Tex.

Location.--Lat 28°57'35", long 96°41'10", at bridge on U. S. Highway 59, 660 ft upstream from Texas and New Orleans Railroad Co. bridge, and 2.8 miles southwest of Edna, Jackson County.

Drainage area.--887 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 1, 1949	58	92.3	Mar. 23, 1954	68	12.0	Sept. 26, 1960	77	36.2
Nov. 3	57	64.3	May 4	65	182	Mar. 22, 1961	65	139
Dec. 7	66	33.1	Jan. 6, 1955	61	1.74	Apr. 25	74	88.7
Jan. 14	67	72.9	Feb. 15	63	49.9	June 1	82	54.7
Feb. 15	59	102	Mar. 29	56	10.0	Aug. 2	85	103
Mar. 21	72	32.0	May 3	78	5.97	Oct. 13	78	128
Apr. 27	73	113	June 8	81	204	Dec. 20	57	132
June 7	77	99.9	July 16	85	8.88	Jan. 26, 1962	59	95.4
June 23	83	20.0	Aug. 30	81	18.2	Feb. 27	62	79.0
July 18	84	27.1	Oct. 11	78	5.15	May 8	78	104
Aug. 30	84	12.4	Nov. 8	58	1.40	June 12	83	77.7
Sept. 30	77	9.87	Dec. 16	50	3.61	Oct. 30	67	94.7
Oct. 31	72	1.00	Jan. 25, 1956	54	7.66	Dec. 4	63	41.2
Nov. 15	70	6.17	Feb. 29	63	5.85	Jan. 8, 1963	55	35.1
Dec. 5	61	9.22	Mar. 29	66	6.35	Feb. 13	51	33.5
Jan. 10	58	14.0	May 1	77	2.64	Mar. 20	67	43.3
Feb. 9	56	13.5	June 4	80	.92	May 28	85	23.7
Mar. 11	74	14.4	July 25	80	.19	July 2	76	685
Apr. 11	61	127	Sept. 11	74	.84	July 30	88	10.3
May 15	76	2.68	Jan. 30, 1957	60	.27	Sept. 4	87	6.04
June 20	84	36.9	Sept. 5	79	2.29	Oct. 8	80	3.23
July 31	81	3.10	Dec. 31	62	89.1	Nov. 13	63	17.6
Sept. 12	80	20.0	Jan. 28, 1958	48	274	Dec. 17	49	39.1
Oct. 2	82	14.1	Mar. 6	64	230	Jan. 22, 1964	63	17.9
Nov. 3	55	8.70	Apr. 8	66	75.1	Apr. 2	69	21.7
Dec. 12	56	11.0	May 15	75	75.4	May 5	78	44.8
Jan. 15	68	10.8	June 24	85	32.9	June 11	86	6.57
Mar. 25	60	11.6	July 22	80	26.4	July 14	88	34.9
May 6	80	28.3	Aug. 28	80	8.55	Aug. 18	90	3.85
May 29	72	23,100	Oct. 23	70	27.2	Sept. 23	81	108
May 30	75	9,820	Dec. 3	61	26.6	Oct. 28	70	11.5
June 6	77	152	Jan. 8, 1959	51	50.5	Dec. 3	67	10.5
July 7	87	33.0	Feb. 5	54	315	Jan. 6, 1965	64	90.8
Aug. 12	85	14.1	Mar. 13	62	82.8	Jan. 25	60	356
Sept. 25	73	8.52	May 14	74	121	Feb. 10	61	103
Oct. 28	60	3.94	June 24	77	44.3	Mar. 16	72	76.6
Jan. 20, 1953	56	34.5	July 27	77	49.4	Apr. 20	81	89.5
Mar. 4	63	44.4	Aug. 31	82	39.1	June 29	84	83.2
Apr. 14	67	38.3	Oct. 12	78	64.0	Nov. 16	71	162
May 28	83	65.8	Nov. 13	67	53.4	Jan. 26, 1966	46	333
July 9	82	25.2	Dec. 15	61	126	Mar. 1	61	355
Aug. 4	87	4.71	Jan. 27, 1960	58	65.5	Apr. 7	70	62.1
Sept. 3	81	194	Mar. 10	65	88.4	May 11	76	300
Nov. 4	69	31.0	Apr. 7	73	45.4	June 16	85	88.1
Dec. 9	57	12.0	June 14	82	18.9	July 20	87	53.4
Jan. 12, 1954	49	13.2	Aug. 25	84	95.0	Aug. 23	83	40.0
Feb. 16	66	13.3						

## LAVACA RIVER BASIN

8-1643. Navidad River near Hallettsville, Tex.

Location (revised).--Lat 29°28'00", long 96°48'45", at bridge on U. S. Highway 90-A, 0.8 mile downstream from Mixons Creek, 1.2 miles southwest of Sublime, and 8 miles northeast of Hallettsville, Lavaca County.

Drainage area.--333 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 18, 1961	73	124	Nov. 12, 1963	67	3.06	Feb. 19, 1965	58	176
Oct. 12	77	48.8	Dec. 16	46	11.0	Mar. 15	72	28.0
Dec. 19	55	74.3	Jan. 21, 1964	59	10.0	Apr. 19	74	15.3
Jan. 23, 1962	48	57.5	Apr. 7	70	15.2	May 24	78	94.5
Apr. 3	60	37.2	May 4	78	10.4	June 28	82	27.8
Oct. 29	69	16.1	June 8	88	3.00	Oct. 19	71	2,050
Dec. 3	63	104	June 16	80	46.8	Nov. 5	68	6,130
Jan. 7, 1963	54	18.1	July 13	90	.30	Nov. 5	68	2,900
Feb. 12	46	23.5	Sept. 22	90	185	Nov. 6	66	545
Mar. 19	71	23.8	Oct. 27	68	4.83	Nov. 6	67	353
Apr. 23	82	13.1	Nov. 30	67	4.58	Nov. 12	67	144
May 30	87	3.11	Jan. 4, 1965	60	17.2	Dec. 21	54	114
July 1	77	84.8	Jan. 26	57	36.6	Jan. 24, 1966	46	196
Aug. 22	84	1.00	Feb. 16	54	6,350	Apr. 5	65	44.6
Sept. 3	87	1.26	Feb. 17	53	7,020	May 9	75	132
Oct. 7	78	.44	Feb. 18	55	2,120	Sept. 28	83	4.65

## LAVACA RIVER BASIN

8-1645. Navidad River near Ganado, Tex.

Location (revised).--Lat 29°01'32", long 96°33'08", at bridge on U. S. Highway 59, 170 ft upstream from Texas and New Orleans Railroad Co. bridge, 0.2 mile downstream from Sandy Creek, and 2.5 miles southwest of Ganado, Jackson County.

Drainage area.--1,116 sq mi.

Water-temperature records available.--Once-daily readings from October 1959 to September 1966.

## Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1960	Mean	-	60	58	57	55	63	73	77	86	86	84	82
	Max.-Min.	-	77 50	66 52	78 44	69 41	80 47	77 64	86 65	90 76	90 79	89 78	85 76
1961	Mean	76	66	56	53	59	71	79	82	85	83	84	81
	Max.-Min.	88 66	75 52	71 45	62 41	71 46	78 64	-	88 62	85 76	87 79	88 78	87 74
1962	Mean	75	66	61	56	68	66	71	82	85	92	87	-
	Max.-Min.	83 70	79 56	75 50	68 32	77 46	76 48	79 57	86 73	90 77	98 81	89 85	-
1963	Mean	77	76	58	50	46	65	73	75	80	82	86	79
	Max.-Min.	79 73	79 70	68 46	57 39	62 32	74 55	77 63	80 68	83 77	86 78	86 79	86 68
1964	Mean	70	64	50	53	53	63	-	76	79	83	84	79
	Max.-Min.	74 64	75 53	64 39	67 37	61 45	70 58	-	80 70	84 71	85 80	84 79	83 72
1965	Mean	64	64	53	55	54	60	72	76	80	82	84	78
	Max.-Min.	75 51	73 49	68 39	68 43	65 45	69 47	76 65	81 66	83 74	84 78	84 72	82 70
1966	Mean	67	67	58	50	52	61	69	75	82	81	81	78
	Max.-Min.	76 57	70 55	66 50	68 40	64 44	70 50	77 60	84 65	82 75	85 79	83 78	81 73
1960-66	Mean	72	66	56	53	55	64	72	77	82	84	83	80
	Max.-Min.	88 51	79 49	75 39	78 32	77 32	80 47	79 57	88 62	90 71	98 78	89 72	87 68

GUADALUPE RIVER BASIN

8-1660. Johnson Creek near Ingram, Tex.

Location.--Lat 30°06'00", long 99°17'00", 1.3 miles upstream from Henderson Branch, 3.4 miles northwest of Ingram, Kerr County, 3.8 miles upstream from mouth, and 9.2 miles northwest of Kerrville,

Drainage area.--115 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 19, 1949	55	7.29	May 20, 1955	70	36.3	Nov. 21, 1961	55	15.7
Aug. 24	86	7.95	June 6	84	5.69	Nov. 9	57	15.0
Sept. 27	78	10.1	July 18	80	12.7	Dec. 2	64	16.4
Nov. 1	60	9.94	Aug. 22	87	4.48	Feb. 8, 1962	64	13.7
Dec. 6	62	9.18	Oct. 3	82	10.6	Mar. 15	56	15.0
Jan. 10, 1950	54	11.4	Oct. 31	68	4.83	Oct. 8	77	8.80
Feb. 14	53	10.6	Dec. 6	56	5.66	Nov. 13	61	9.09
Mar. 21	60	8.72	Jan. 28, 1956	52	4.91	Jan. 23, 1963	42	10.9
Apr. 18	67	9.30	Feb. 13	60	6.10	Feb. 25	59	10.7
May 23	72	8.16	Mar. 19	63	4.75	Apr. 1	71	8.44
June 27	87	5.92	Apr. 23	69	4.00	May 10	74	7.95
July 31	88	4.53	Apr. 29	70	27.8	June 13	87	6.59
Sept. 6	83	11.0	May 28	78	4.10	July 16	86	3.22
Oct. 10	74	6.53	July 9	84	1.38	Sept. 25	80	6.56
Nov. 14	62	7.67	Aug. 13	83	.88	Oct. 29	72	7.09
Dec. 18	55	6.98	Sept. 25	77	3.15	Jan. 6, 1964	50	8.98
Jan. 23, 1951	54	7.81	Nov. 19	63	4.50	Feb. 10	52	10.5
Feb. 27	64	7.63	Dec. 17	61	4.76	Mar. 16	66	9.13
Apr. 3	64	7.15	Jan. 21, 1957	56	6.49	Apr. 20	74	10.4
May 9	73	13.0	Feb. 23	60	11.1	May 25	84	6.51
June 12	77	9.34	Apr. 2	67	6.27	June 29	87	3.27
July 17	85	3.70	May 14	78	10.7	July 27	88	3.82
Aug. 16	87	3.01	May 28	70	91.3	Aug. 21	82	2.76
Oct. 1	82	5.04	June 18	84	12.5	Aug. 31	88	4.66
Nov. 5	66	5.11	Oct. 22	69	23.9	Sept. 23	72	34.4
Dec. 17	56	7.25	Feb. 27, 1958	59	40.2	Sept. 25	75	79.8
Jan. 21, 1952	68	6.22	Mar. 25	58	23.9	Oct. 12	72	14.7
Mar. 4	63	5.83	Apr. 30	62	18.3	Oct. 19	69	14.5
Apr. 8	69	6.07	June 9	80	12.7	Nov. 17	71	11.3
May 13	74	5.04	July 15	80	19.4	Dec. 21	57	12.4
June 16	78	7.64	Aug. 15	77	18.7	Mar. 5, 1965	46	14.2
July 22	83	5.71	Sept. 24	77	48.4	Mar. 16	66	14.6
Aug. 27	88	2.75	Oct. 30	58	43.1	Apr. 8	70	12.4
Sept. 21	78	15.0	Dec. 8	49	29.2	May 10	70	12.4
Oct. 27	68	8.68	Jan. 9, 1959	45	20.6	June 15	78	16.6
Dec. 8	59	7.36	Feb. 17	56	20.7	July 19	85	9.81
Jan. 12, 1953	56	10.5	Mar. 17	54	16.6	Aug. 23	78	8.24
Feb. 24	52	8.31	Apr. 8	67	74.3	Sept. 27	72	10.6
Apr. 7	73	9.09	Apr. 8	63	76.4	Nov. 4	63	11.2
May 21	88	4.59	Apr. 20	68	23.7	Jan. 13, 1966	46	11.1
Dec. 3, 1954	61	5.15	May 24	78	19.4	Feb. 17	53	9.87
Jan. 14, 1955	52	6.06	July 1	76	22.1	Mar. 24	59	9.42
Feb. 21	54	6.28	Aug. 12	84	13.6	June 3	72	8.31
Mar. 23	65	8.36	Sept. 16	76	11.1	July 6	79	4.21
Apr. 28	76	4.57	Oct. 17	73	24.1	Sept. 16	81	13.6

GUADALUPE RIVER BASIN

8-1670. Guadalupe River at Comfort, Tex.

Location. (revised).--Lat 29°57'55", long 96°53'50", at east edge of Comfort, Kendall County, 113 ft upstream from bridge on U. S. Highway 87, and 0.1 mile downstream from Cypress Creek.

Drainage area.--836 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 19, 1949	45	67.7	June 2, 1954	81	34.5	Feb. 8, 1962	58	86.4
Mar. 30	69	114	July 15	90	48	Mar. 15	52	78.9
May 11	75	144	Dec. 2	60	24.2	Oct. 8	48	28.3
June 13	78	133	May 13, 1955	72	171	Nov. 14	55	60.2
July 18	84	61.9	May 20	71	218	Dec. 21	58	54.5
July 20	82	53.2	June 7	81	10.4	Jan. 24, 1963	48	50.3
Aug. 25	79	65.9	Aug. 23	81	14.6	Feb. 25	53	52.8
Sept. 26	72	60.6	Oct. 4	78	37.4	Apr. 2	69	28.3
Nov. 2	55	56.9	Oct. 31	61	11.0	May 9	77	46.6
Nov. 29	59	52.6	Dec. 6	53	25.5	June 13	87	8.58
Jan. 10, 1950	50	69.5	Jan. 10, 1956	49	20.6	July 16	87	3.41
Feb. 14	44	116	Feb. 13	54	31.7	Aug. 23	84	7.85
Mar. 20	62	58.5	Mar. 20	60	15.4	Aug. 26	84	5.04
Apr. 18	66	80.0	Apr. 23	65	8.66	Aug. 27	83	5.09
May 22	70	77.7	Apr. 29	72	205	Sept. 25	76	20.1
June 27	94	39.5	May 28	80	1.61	Oct. 29	67	33.3
Aug. 1	83	15.0	Nov. 20	64	.13	Dec. 2	52	57.6
Sept. 7	76	29.3	Jan. 21, 1957	53	14.4	Jan. 6, 1964	46	39.7
Oct. 10	70	25.6	Feb. 23	55	92.7	Feb. 10	50	80.3
Nov. 14	54	36.4	Feb. 24	56	51.3	Mar. 16	62	46.2
Dec. 19	51	35.5	Apr. 2	67	36.0	Apr. 17	69	81.0
Jan. 24, 1951	48	37.0	May 28	70	840	May 25	77	26.8
Feb. 27	64	45.4	June 18	81	114	June 1	74	23.7
Apr. 3	65	61.8	Feb. 27, 1958	56	796	June 4	74	17.8
May 8	71	115	Mar. 26	60	423	June 29	85	3.85
June 12	80	87.7	May 1	64	197	Aug. 5	89	2.30
July 16	85	14.4	July 14	84	115	Aug. 21	85	2.09
Aug. 16	88	3.09	Aug. 15	78	57.7	Aug. 31	82	61.0
Oct. 2	77	12.9	Oct. 30	58	823	Oct. 12	70	142
Nov. 6	55	21.2	Dec. 8	52	202	Oct. 19	67	101
Dec. 18	48	30.3	Jan. 9, 1959	52	158	Nov. 17	71	93.3
Jan. 22, 1952	62	29.3	Feb. 17	60	134	Dec. 21	47	70.6
Mar. 5	56	30.6	Mar. 16	57	106	Mar. 5, 1965	50	137
Apr. 7	66	33.5	Apr. 21	69	173	Mar. 25	60	120
May 13	74	28.7	May 25	76	186	Apr. 8	69	106
June 17	84	54.0	June 30	76	331	May 10	71	107
July 22	84	29.6	Aug. 10	84	101	June 15	83	127
Aug. 26	83	.38	Sept. 16	74	54.9	June 23	76	3,030
Sept. 22	74	70.7	Oct. 17	67	212	July 19	85	62.5
Oct. 28	59	31.8	Nov. 22	56	125	Aug. 3	81	45.0
Dec. 9	43	49.7	Dec. 19	54	141	Aug. 24	81	30.8
Jan. 21, 1953	52	90.9	Jan. 21, 1960	40	138	Aug. 30	82	24.0
Feb. 6	58	54.1	Mar. 3	43	162	Sept. 27	70	63.8
Feb. 24	50	66.3	Apr. 6	68	165	Nov. 4	61	65.2
May 21	78	28.6	Apr. 28	74	149	Dec. 3	55	213
July 28	84	9.11	Oct. 7	73	125	Dec. 10	58	74.8
Sept. 9	76	63.4	Nov. 9	64	384	Jan. 14, 1966	52	78.0
Oct. 14	69	44.1	Jan. 5, 1961	50	393	Feb. 24	44	86.7
Nov. 17	59	37.0	Mar. 18	62	401	Mar. 25	58	57.4
Dec. 15	46	36.9	May 18	80	147	Apr. 26	67	715
Jan. 22, 1954	53	35.9	Sept. 23	78	86.4	June 3	72	86.3
Mar. 1	56	23.8	Oct. 26	72	100	July 6	81	28.4
Mar. 30	72	23.8	Dec. 1	66	100	Aug. 16	78	399
May 12	72	29.6	Jan. 6, 1962	52	84.7	Sept. 19	77	459

GUADALUPE RIVER BASIN

8-1675. Guadalupe River near Spring Branch, Tex.

Location.--Lat 29°51'40", long 98°23'00", at bridge on county road, 82 ft downstream from bridge on Ranch Road 311, 2.0 miles southeast of Spring Branch, Comal County, and 7.2 miles downstream from Curry Creek.

Drainage area.--1,282 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 29, 1950	97	50.9	May 10, 1955	75	119	Dec. 29, 1961	45	101
Aug. 4	84	24.4	Aug. 23	90	22.3	Jan. 31, 1962	56	117
Sept. 8	80	39.8	Oct. 5	84	21.5	Feb. 27	59	103
Oct. 12	73	30.3	Nov. 2	74	4.46	Mar. 7	53	995
Nov. 16	64	40.9	Dec. 8	54	26.0	Mar. 30	64	84.1
Dec. 20	51	48.4	Jan. 12, 1956	48	28.2	Apr. 30	76	175
Jan. 25, 1951	50	43.3	Feb. 15	59	37.0	May 31	75	301
Mar. 1	67	56.2	Mar. 22	64	15.9	June 28	83	56.2
Apr. 5	67	73.9	Apr. 25	81	3.57	Oct. 1	79	46.4
May 10	76	94.4	Jan. 23, 1957	51	10.0	Oct. 30	66	202
June 14	83	89.0	Feb. 24	60	192	Nov. 30	59	78.2
July 19	89	7.40	Apr. 3	70	70.4	Dec. 31	52	73.4
July 30	91	4.69	May 17	74	275	Jan. 31, 1963	46	64.2
Aug. 10	93	2.02	July 1	85	130	Apr. 1	75	56.2
Oct. 3	79	6.78	July 26	89	38.9	Apr. 30	80	49.0
Oct. 11	74	2.45	Apr. 7, 1958	55	498	May 30	85	41.6
Nov. 7	54	16.7	May 10	66	948	July 1	78	35.1
Dec. 19	49	31.5	June 4	80	301	July 30	89	.35
Jan. 23, 1952	60	32.0	July 9	80	459	Aug. 29	90	4.34
Mar. 6	60	33.2	Aug. 11	83	102	Sept. 30	69	29.1
Apr. 10	64	38.9	Oct. 16	76	277	Oct. 30	69	52.9
May 14	77	35.2	Nov. 18	62	422	Nov. 26	57	61.6
June 18	85	85.9	Dec. 22	52	274	Dec. 27	47	56.8
July 23	87	44.4	Feb. 3, 1959	47	208	Jan. 29, 1964	47	43.2
Sept. 11	71	45,200	Mar. 10	63	184	Feb. 26	48	114
Sept. 12	72	10,500	Apr. 13	58	520	Apr. 28	73	159
Sept. 24	74	175	May 21	79	181	May 28	79	37.2
Oct. 29	59	60.0	June 23	84	81.4	June 29	82	16.8
Dec. 10	54	76.8	July 13	81	237	Aug. 31	82	87.4
Jan. 14, 1953	57	154	Aug. 31	86	105	Sept. 29	74	985
Feb. 26	53	115	Oct. 3	81	84.3	Oct. 29	64	175
Apr. 9	75	84.9	Oct. 30	75	249	Nov. 30	53	108
May 21	76	45.4	Nov. 30	51	172	Dec. 30	57	96.4
June 24	94	3.35	Jan. 2, 1960	53	328	Feb. 1, 1965	49	84.8
July 30	91	11.0	Jan. 29	52	240	Mar. 1	59	303
Sept. 2	80	406	Feb. 29	49	265	Mar. 30	60	161
Oct. 14	72	68.7	Mar. 31	70	312	Apr. 29	65	331
Nov. 18	61	55.7	May 2	68	217	June 1	67	930
Dec. 16	48	60.6	July 1	83	75.8	June 29	78	357
Jan. 26, 1954	59	53.9	Aug. 1	86	95.1	July 29	80	101
Mar. 2	57	40.5	Sept. 1	84	259	Aug. 31	80	55.6
Mar. 30	79	35.5	Oct. 3	74	131	Sept. 30	71	93.6
May 12	74	41.3	Dec. 1	58	389	Nov. 1	60	99.4
June 1	86	43.4	Feb. 1, 1961	53	546	Nov. 30	54	95.6
Dec. 2	61	17.9	Mar. 31	64	526	Dec. 29	54	187
Jan. 13, 1955	53	29.7	June 1	79	174	Jan. 31, 1966	44	151
Feb. 17	62	37.6	Aug. 1	82	186	Feb. 28	46	210
Feb. 28	63	31.5	Aug. 31	81	126	Mar. 31	61	185
Mar. 14	70	25.7	Sept. 29	80	97.1	Apr. 28	76	649
Mar. 29	60	27.6	Oct. 31	74	134	May 31	74	306
Apr. 12	74	19.9	Nov. 30	55	120	June 29	76	104
Apr. 26	81	8.20						



GUADALUPE RIVER BASIN

8-1676. Rebecca Creek near Spring Branch, Tex.

Location.--Lat 29°55'08", long 98°22'09", at private road crossing, 2.8 miles upstream from mouth, 4.0 miles northeast of Spring Branch, Comal County, and 5.3 miles south of Twin Sisters.

Drainage area.--11.0 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jun. 22, 1960	51	4.70	Mar. 29, 1962	70	0.68	July 1, 1964	84	1.24
Mar. 9	55	3.06	May 2	72	.55	Aug. 3	82	.38
Mar. 31	65	4.98	July 3	83	.62	Sept. 2	87	.21
May 2	68	2.38	Aug. 30	84	.25	Nov. 2	71	.99
June 1	76	1.20	Oct. 1	77	.30	Dec. 1	57	1.25
July 1	81	2.05	Oct. 30	68	.30	Mar. 3, 1965	53	9.53
Aug. 3	87	.79	Nov. 30	61	.64	Apr. 2	65	4.17
Aug. 31	82	1.33	Dec. 31	54	.86	May 3	68	5.10
Oct. 5	76	.74	Jan. 31, 1963	48	.62	June 2	73	25.1
Nov. 2	68	18.4	Apr. 1	70	.61	July 1	85	4.63
Jan. 3, 1961	55	9.40	Apr. 30	75	1.40	Aug. 3	82	1.12
Feb. 3	55	3.96	May 30	76	1.45	Oct. 19	70	11.2
Feb. 28	57	6.13	July 1	82	.85	Nov. 2	63	3.17
May 2	74	1.38	Oct. 30	72	.62	Dec. 1	59	2.74
June 1	78	.75	Nov. 26	58	.36	Dec. 3	58	42.4
Aug. 3	82	1.75	Dec. 27	50	.39	Jan. 3, 1966	59	5.58
Aug. 31	80	.79	Jan. 29, 1964	47	.47	Mar. 1	58	11.9
Sept. 29	77	.71	Feb. 26	52	2.35	Apr. 1	65	4.83
Oct. 31	74	.83	Mar. 30	65	3.31	May 3	68	11.7
Nov. 29	56	.69	Apr. 28	69	1.89	June 1	76	4.44
Dec. 28	59	.71	Apr. 28	69	1.88	July 1	77	1.61
Feb. 27	56	.70	June 1	74	.61	Aug. 1	88	.46

GUADALUPE RIVER BASIN

8-1678. Guadalupe River at Sattler, Tex.

Location.--Lat 29°51'32", long 98°10'47", 200 ft upstream from Horseshoe Falls, 0.8 mile north of Sattler, Comal County, 1.8 miles downstream from Canyon Dam, 2.3 miles upstream from Heiser Hollow, and 11.5 miles north of New Braunfels.

Drainage area.--1,422 sq mi.

Remarks.--Flow regulated by Canyon Reservoir since July 21, 1962.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 11, 1960	57	288	Dec. 3, 1962	68	183	Oct. 1, 1964	76	388
Mar. 30	71	396	Jan. 2, 1963	55	93.1	Nov. 2	70	372
May 3	70	289	Feb. 1	48	77.7	Dec. 1	58	140
June 1	84	139	Mar. 1	57	89.5	Jan. 4, 1965	54	139
June 30	83	160	Apr. 2	75	62.8	Mar. 3	54	206
Aug. 3	88	107	May 1	76	78.4	Apr. 2	56	176
Aug. 31	84	367	June 3	82	56.5	Apr. 9	60	178
Oct. 4	78	157	July 2	82	51.9	Apr. 9	60	196
Nov. 30	57	472	Aug. 1	84	9.63	Apr. 16	61	16.7
Mar. 29, 1961	72	617	Sept. 3	84	8.20	Apr. 16	67	17.2
May 3	73	355	Oct. 1	73	11.8	Apr. 22	59	16.7
Aug. 2	82	230	Nov. 1	69	65.9	Apr. 22	68	19.4
Aug. 30	80	157	Dec. 2	57	70.8	May 3	59	195
Sept. 28	80	112	Jan. 2, 1964	46	63.0	June 1	62	177
Oct. 31	74	125	Feb. 3	56	261	Aug. 2	69	198
Nov. 28	58	138	Mar. 2	52	108	Sept. 1	68	192
Dec. 27	54	132	Apr. 2	67	160	Nov. 2	68	148
Jan. 30, 1962	58	131	May 1	72	136	Jan. 3, 1966	58	146
Feb. 26	68	118	June 1	78	36.8	Feb. 1	51	292
Mar. 28	68	98.9	July 1	87	36.1	Mar. 1	58	294
July 2	84	95.3	Aug. 3	89	16.6	July 1	59	286
Oct. 1	80	42.4	Sept. 2	84	173	Sept. 1	63	302
Nov. 1	65	164						

GUADALUPE RIVER BASIN

8-1680. Hueco Springs near New Braunfels, Tex.

Location.--Lat 29°45'31", long 98°08'34", two springs located 200 ft and 400 ft west of Guadalupe River, 0.3 mile upstream from Elm Creek, and 4.2 miles north of New Braunfels, Comal County.

Remarks.--The flow from Hueco Springs emerges from Edwards and associated limestones in the Balcones Fault Zone.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 4, 1958	69	102	Jan. 4, 1961	70	82.0	Sept. 2, 1964	72	6.91
Mar. 28	68	91.7	Feb. 27	68	88.3	Oct. 1	73	63.1
May 10	70	88.6	Mar. 29	70	70.5	Nov. 2	73	16.4
June 5	70	80.9	May 2	71	48.4	Dec. 1	71	12.9
July 10	72	74.6	May 31	71	30.8	Jan. 4, 1965	72	3.96
Aug. 12	74	61.8	June 29	71	38.0	Feb. 1	71	15.1
Oct. 17	70	80.8	July 31	72	36.6	Mar. 2	69	81.8
Nov. 16	70	84.6	Aug. 30	73	17.8	Apr. 1	70	72.0
Dec. 22	69	79.8	Sept. 28	72	15.8	May 3	70	82.4
Mar. 9, 1959	69	76.1	Oct. 31	71	19.6	June 1	70	94.6
Apr. 10	70	51.3	Nov. 28	70	15.1	July 1	71	82.5
May 21	70	34.9	Dec. 27	70	13.0	Aug. 3	70	68.4
June 21	71	21.0	Jan. 30, 1962	72	8.28	Sept. 2	72	43.2
July 15	73	46.3	Feb. 26	69	12.1	Oct. 1	70	29.2
Aug. 28	72	51.9	May 18	71	9.77	Nov. 1	70	58.2
Oct. 3	73	14.8	July 2	74	8.52	Dec. 1	71	30.2
Oct. 29	71	24.6	Aug. 28	74	1.57	Dec. 3	72	122
Dec. 1	71	29.4	Oct. 3	72	5.91	Dec. 4	72	115
Jan. 3, 1960	70	38.1	Nov. 1	72	42.0	Dec. 14	71	82.9
Jan. 29	70	41.8	Dec. 3	70	24.8	Dec. 28	71	80.7
Mar. 9	70	28.6	Dec. 31	70	8.55	Jan. 3, 1966	70	84.9
Mar. 30	70	49.6	Jan. 31, 1963	64	2.31	Jan. 14	72	72.1
May 3	71	77.3	Apr. 2	73	3.10	Feb. 1	70	55.1
June 1	72	23.8	May 1	68	3.46	Mar. 1	70	81.0
June 30	70	24.7	June 3	72	4.30	Apr. 1	70	61.3
Aug. 3	77	27.0	July 2	72	1.37	May 3	70	80.3
Oct. 6	72	32.8	Feb. 3, 1964	70	11.5	June 1	70	78.0
Nov. 7	71	84.9	July 1	72	33.9	July 1	72	45.1
Dec. 2	70	72.7	July 31	74	2.14	Aug. 1	71	24.0

GUADALUPE RIVER BASIN

8-1685. Guadalupe River above Comal River, at New Braunfels, Tex.

Location.--Lat 29°42'55", long 98°06'40", at New Braunfels, Comal County, 1.1 miles upstream from Comal River, and about 22 miles downstream from Canyon Reservoir.

Drainage area.--1,516 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 20, 1950	69	137	Dec. 21, 1953	54	118	June 23, 1959	86	124
May 25	76	155	Jan. 25, 1954	58	96.9	July 14	84	313
June 29	87	71.7	Feb. 22	63	63.4	Aug. 31	84	190
Aug. 2	86	38.6	Mar. 29	72	44.6	Oct. 3	81	153
Sept. 8	82	53.7	May 13	72	63.2	Oct. 29	74	331
Oct. 12	70	31.8	June 4	82	46.2	Jan. 3, 1960	54	469
Nov. 16	64	36.9	July 14	86	6.02	Jan. 28	57	397
Dec. 20	56	54.8	Aug. 31	91	5.32	Mar. 30	70	492
Jan. 25, 1951	54	48.8	Oct. 5	80	7.40	May 2	70	471
Mar. 1	69	67.9	Nov. 29	58	23.1	June 30	80	391
Apr. 5	69	102	Jan. 10, 1955	55	29.2	Aug. 1	85	191
May 11	77	72.0	Jan. 31	55	38.8	Sept. 1	81	501
June 15	84	128	Feb. 18	62	42.2	Oct. 3	76	213
July 19	89	14.6	Mar. 2	67	37.4	June 29, 1961	82	396
July 30	91	8.49	Mar. 15	71	39.4	Aug. 30	80	183
Aug. 10	86	5.20	Mar. 30	59	27.0	Oct. 30	78	168
Aug. 21	85	5.13	Apr. 13	70	23.1	Dec. 27	54	168
Sept. 27	84	8.32	Apr. 27	75	10.9	Feb. 26, 1962	66	156
Oct. 3	80	5.62	May 10	79	7.11	Mar. 8	59	135
Nov. 8	56	14.1	July 20	79	521	May 1	70	237
Dec. 19	51	36.2	Aug. 26	89	27.0	Aug. 29	84	24.0
Jan. 23, 1952	64	34.8	Oct. 6	82	27.5	Oct. 25	69	76.2
Mar. 6	61	38.4	Nov. 2	72	5.85	Jan. 2, 1963	57	121
Apr. 10	67	74.2	Dec. 7	55	20.8	Mar. 11	65	100
May 15	75	47.9	Jan. 11, 1956	52	21.7	May 21	78	58.0
June 19	86	130	Feb. 15	64	34.9	July 18	87	17.0
July 24	84	40.8	Mar. 22	59	19.2	Sept. 24	81	9.21
Aug. 29	87	4.97	Apr. 25	72	6.01	Dec. 6	55	71.7
Sept. 18	78	779	May 30	84	3.37	Feb. 12, 1964	56	139
Sept. 23	79	458	June 27	82	.43	July 1	81	78.7
Sept. 29	76	309	July 12	81	.09	Aug. 4	89	29.2
Oct. 29	62	102	Sept. 28	82	.28	Oct. 1	75	446
Dec. 11	57	207	Dec. 26	56	27.3	Dec. 1	56	162
Jan. 15, 1953	62	305	Jan. 23, 1957	53	10.4	Jan. 27, 1965	60	57.6
Feb. 27	57	171	July 2	85	274	Mar. 2	60	340
Apr. 9	78	112	July 29	89	110	May 3	70	297
May 20	77	75.5	June 5, 1958	76	492	July 1	75	520
June 25	88	13.6	July 10	82	576	Sept. 1	82	146
July 21	93	7.94	Dec. 22	54	463	Nov. 1	65	235
July 31	89	58.9	Feb. 3, 1959	50	320	Jan. 3, 1966	60	292
Aug. 21	85	14.2	Mar. 11	65	355	Mar. 1	58	436
Sept. 1	80	217	Apr. 10	64	809	May 2	67	249
Oct. 15	74	107	May 20	81	263	July 1	73	363
Nov. 19	67	102						

GUADALUPE RIVER BASIN

8-1690. Comal River at New Braunfels, Tex.

Location.--Lat 29°42'21", long 98°07'20", 200 ft upstream from San Antonio Street viaduct in New Braunfels, Comal County, and 1.1 miles upstream from mouth.

Drainage area.--117 sq mi. Normal flow of river comes from springs; drainage area not applicable.

Remarks.--The flow from Comal Springs emerges from the Edwards and associated limestones in the Falcones Fault Zone. Flow of river is primarily from Comal Springs about 1 mile upstream, except during periods of local rain.

Temperature and Discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 13, 1950	76	322	July 21, 1953	89	134	May 30, 1956	84	20.6
Feb. 17	75	296	July 31	94	131	May 30	84	23.8
Feb. 20	80	256	Sept. 1	85	162	June 27	90	11.5
Feb. 23	81	338	Oct. 15	86	200	July 12	86	11.6
Feb. 23	80	260	Nov. 23	83	205	July 12	90	10.8
Feb. 27	81	343	Dec. 21	85	186	Aug. 15	84	10.7
Mar. 24	74	264	Jan. 6, 1954	80	198	Sept. 28	83	12.3
Apr. 21	74	277	Jan. 25	84	209	Nov. 21	71	28.5
May 26	74	258	Feb. 22	86	205	Dec. 26	71	42.4
June 30	74	260	Mar. 25	73	157	Jan. 23, 1957	65	48.2
Aug. 2	87	242	May 1	79	147	Feb. 24	69	75.5
Aug. 2	87	227	May 13	80	161	Apr. 4	72	91.4
Aug. 29	85	249	June 4	82	146	May 21	76	170
Oct. 13	75	247	June 17	88	115	July 2	82	202
Nov. 17	74	239	July 19	84	104	July 29	88	123
Dec. 21	74	235	Aug. 18	94	81.7	Feb. 28, 1958	73	347
Jan. 4, 1951	74	242	Aug. 31	82	88.9	Apr. 2	70	302
Jan. 26	74	231	Oct. 4	90	100	June 4	70	331
Mar. 2	74	234	Oct. 7	88	111	July 10	76	310
Apr. 6	74	227	Oct. 11	87	114	Oct. 1	79	367
May 11	74	217	Nov. 29	79	128	Nov. 17	77	330
June 15	75	247	Jan. 10, 1955	81	134	Mar. 20, 1959	78	335
July 20	74	193	Feb. 18	82	142	July 15	81	299
Aug. 21	74	209	Mar. 21	81	126	Oct. 2	85	282
Sept. 18	74	209	Apr. 25	78	92.0	Dec. 1	77	330
Sept. 27	74	206	Apr. 28	85	95.2	Oct. 30, 1961	82	361
Nov. 7	82	202	June 10	80	99.9	Jan. 30, 1962	77	331
Dec. 20	74	215	July 20	79	70.3	Apr. 30	82	292
Jan. 24, 1952	74	207	Aug. 8	92	98.8	July 30	82	227
Mar. 7	83	193	Aug. 26	90	48.1	Jan. 22, 1963	81	272
Apr. 17	83	190	Aug. 30	92	42.4	Apr. 17	82	252
May 15	85	172	Aug. 30	90	43.8	July 15	89	194
June 19	89	200	Oct. 6	83	61.0	Sept. 24	85	157
July 24	89	200	Nov. 2	84	57.7	Dec. 4	79	193
Sept. 17	90	192	Dec. 8	65	94.0	July 1, 1964	82	195
Sept. 24	88	218	Jan. 12, 1956	68	83.6	Aug. 4	88	118
Oct. 30	85	194	Feb. 16	87	98.1	Nov. 2	77	198
Dec. 2	87	218	Mar. 21	70	73.9	May 4, 1965	78	284
Jan. 15, 1953	83	229	Apr. 25	77	48.5	Oct. 1	82	234
Feb. 27	84	224	May 1	83	41.6	Oct. 6	82	239
Apr. 10	85	222	May 14	85	29.7	Apr. 1, 1966	81	310
May 20	84	194	May 24	84	21.6	July 1	82	294
June 25	92	169						

GUADALUPE RIVER BASIN

8-1700. San Marcos River spring flow at San Marcos, Tex.

Location.--Lat 29 52'06", long 97 55'38", 500 ft downstream from the Cape Ginning Co.'s mill, 0.7 mile downstream from bridge on Interstate Highway 35 and U. S. Highway 81, 1.2 miles southeast of courthouse in San Marcos, Hays County, and 2.1 mile upstream from Blanco River.

Drainage area.--93.0 sq mi. Normal flow of river comes from springs, drainage area of stream not applicable.

Remarks.--Except during periods of local runoff entire flow of river is from San Marcos Springs, about 1 3/4 miles upstream. Springs emerge from the Edwards and associated limestones in the Balcones Fault Zone.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 31, 1956	74	68.7	July 13, 1959	74	151	May 22, 1963	72	119
July 13	78	54.2	Aug. 21	75	124	June 11	73	120
July 23	75	57.8	Sept. 18	75	137	July 17	77	92.0
Aug. 6	77	58.0	Oct. 24	73	162	Aug. 27	77	91.3
Aug. 13	77	52.0	Dec. 5	68	159	Sept. 24	75	86.4
Aug. 20	75	53.9	Jan. 9, 1960	65	157	Oct. 30	70	88.8
Aug. 27	75	59.6	Feb. 7	70	166	Dec. 5	69	86.3
Sept. 4	74	59.2	Mar. 12	69	160	Feb. 12, 1964	69	88.1
Sept. 10	73	63.0	Apr. 10	71	163	Mar. 20	69	91.8
Oct. 1	72	60.7	May 7	73	217	Apr. 24	76	103
Oct. 8	71	66.1	Aug. 9	73	185	May 27	77	94.2
Oct. 15	73	60.2	Sept. 7	75	240	July 2	76	112
Oct. 22	65	64.6	Oct. 1	74	182	Aug. 5	77	91.5
Oct. 29	73	71.0	Feb. 4, 1961	70	241	Oct. 14	72	101
Nov. 22	65	68.7	May 12	68	221	Nov. 18	72	101
Dec. 26	68	78.0	June 7	74	186	Dec. 22	70	99.2
Jan. 23, 1957	62	68.3	Aug. 10	76	177	Feb. 1, 1965	69	129
Feb. 25	70	84.9	Sept. 16	75	155	Mar. 10	73	179
Apr. 5	70	107	Oct. 21	76	151	Apr. 12	73	168
May 21	75	187	Nov. 17	72	153	May 10	72	163
July 30	74	149	Dec. 26	67	141	June 17	83	218
Mar. 7, 1958	74	278	Mar. 1, 1962	65	130	Aug. 26	73	170
Mar. 27	70	270	June 14	76	118	Oct. 21	69	152
May 12	70	262	July 19	78	110	Nov. 23	71	137
June 3	70	244	Aug. 22	76	112	Dec. 28	71	204
July 16	70	196	Oct. 26	71	157	Feb. 1, 1966	71	179
Aug. 12	70	170	Nov. 29	68	133	Mar. 16	72	181
Nov. 10	73	209	Jan. 3, 1963	70	137	Apr. 18	73	157
Dec. 18	72	202	Feb. 6	71	128	May 17	73	169
Feb. 26, 1959	59	193	Mar. 12	74	121	June 20	72	181
Apr. 27	72	179	Apr. 17	75	123	July 26	76	146
June 11	75	163						

GUADALUPE RIVER BASIN

8-1710. Blanco River at Wimberley, Tex.

Location. revised.--Lat 29°59'33", long 98°05'28", 1,000 ft upstream from bridge on State Highway 12, 1,200 ft downstream from Cypress Creek, and one-third of a mile southeast of Wimberley, Hays County.

Drainage area.--364 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 4, 1950	92	15.2	Aug. 22, 1955	90	9.53	Aug. 10, 1961	82	92.3
Sept. 9	88	10.5	Oct. 7	78	5.57	Sept. 16	74	78.0
Oct. 14	81	11.1	Nov. 3	62	5.98	Oct. 21	76	55.1
Nov. 18	68	12.2	Dec. 9	52	7.57	Nov. 17	64	62.8
Dec. 22	58	10.6	Jan. 13, 1956	48	6.93	Dec. 26	61	54.0
Jan. 27, 1951	62	10.0	Feb. 17	77	7.55	Jan. 24, 1962	43	51.4
Mar. 3	66	11.1	Mar. 23	56	6.01	Mar. 1	48	38.8
Apr. 7	73	16.5	Apr. 26	79	5.05	Apr. 4	61	42.0
May 12	80	9.74	May 31	80	4.17	July 19	86	39.1
June 16	87	37.4	July 13	87	1.32	Aug. 22	87	22.0
July 20	93	6.58	Aug. 15	94	.86	Sept. 26	71	227
July 30	91	6.53	Oct. 2	80	4.28	Oct. 26	72	23.6
Aug. 24	94	5.64	Nov. 22	59	7.51	Nov. 28	65	32.7
Oct. 4	88	6.83	Dec. 27	54	11.2	Jan. 3, 1963	50	46.0
Nov. 8	60	7.10	Jan. 23, 1957	49	7.78	Feb. 6	55	25.9
Dec. 21	48	8.11	Feb. 25	69	45.2	Feb. 27	59	42.6
Jan. 25, 1952	68	7.97	Apr. 5	74	26.8	Mar. 12	62	33.5
Mar. 7	65	7.77	May 22	80	168	Apr. 19	77	57.8
Apr. 11	61	10.8	July 3	86	91.1	May 20	76	41.8
May 16	77	19.7	July 10	89	62.4	June 12	87	20.0
May 27	71	613	July 30	95	38.3	July 18	86	13.7
June 20	86	45.6	Mar. 5, 1958	60	711	Aug. 21	90	13.6
July 25	83	19.7	May 19	75	350	Sept. 24	85	11.4
Aug. 30	85	7.75	June 3	81	170	Oct. 31	73	11.6
Sept. 10	74	269	July 11	85	115	Dec. 3	62	10.9
Sept. 10	74	187	Aug. 13	83	50.0	Feb. 11, 1964	58	17.4
Sept. 12	77	1,010	Sept. 24	84	138	Mar. 17	76	16.9
Oct. 31	70	45.8	Nov. 10	78	258	May 27	84	16.1
Dec. 12	56	55.9	Dec. 18	54	107	June 30	90	12.4
Jan. 19, 1953	58	112	Jan. 20, 1959	62	80.3	Aug. 4	95	8.25
Feb. 28	65	60.6	Feb. 26	58	131	Sept. 9	86	10.6
Apr. 10	74	89.7	Apr. 8	69	87.9	Oct. 15	70	16.1
May 19	78	49.9	Apr. 27	68	181	Nov. 19	70	43.0
June 26	94	19.0	June 11	89	66.1	Dec. 23	58	22.1
Aug. 1	93	19.0	July 13	87	55.2	Mar. 4, 1965	57	180
Sept. 1	75	235	Aug. 25	79	40.2	Apr. 6	63	1,420
Oct. 16	75	40.4	Sept. 18	83	35.1	Apr. 7	69	396
Nov. 20	63	53.1	Oct. 25	69	24.4	Apr. 9	69	261
Dec. 22	53	56.4	Dec. 5	56	64.7	May 10	73	102
Jan. 26, 1954	65	45.4	Jan. 9, 1960	48	154	June 18	78	298
Feb. 22	86	34.8	Feb. 6	57	253	July 26	82	81.8
Apr. 1	68	24.2	Mar. 16	60	126	Aug. 27	84	49.6
May 14	74	16.2	Apr. 9	73	247	Oct. 20	66	144
June 5	85	12.0	May 7	73	110	Nov. 22	71	89.2
July 19	96	7.69	July 7	88	54.8	Dec. 27	58	254
Aug. 27	88	7.14	Aug. 9	90	59.2	Feb. 1, 1966	56	145
Dec. 7	55	10.0	Sept. 7	81	59.3	Mar. 9	58	207
Jan. 27, 1955	49	10.5	Oct. 1	79	43.3	Apr. 13	72	109
Feb. 22	50	10.5	Nov. 6	65	375	May 16	79	220
Mar. 15	73	10.1	Jan. 6, 1961	57	403	June 20	83	87.0
Apr. 25	78	7.40	May 11	78	84.8	July 26	88	59.3
July 21	93	10.6	June 6	85	59.5			

GUADALUPE RIVER BASIN

8-1713. Blanco River near Kyle, Tex.

Location. (revised).--Lat 29°58'45", long 97°54'35" 800 ft downstream from Tarbutton Ranch House (Hatchett Ranch), 2.2 miles southwest of Kyle, Hays County, 4.2 miles downstream from Halifax Creek, and 6.3 miles upstream from bridge on U. S. Highway 81.

Drainage area.--424 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 27, 1956	54	0.28	Jan. 9, 1960	47	163	Oct. 26, 1962	67	10.6
Feb. 25, 1957	63	34.1	Feb. 6	55	272	Nov. 28	65	34.0
Feb. 26	63	10.1	Mar. 16	62	130	Jan. 3, 1963	55	47.8
May 8	67	192	Apr. 9	75	137	Feb. 6	51	19.5
May 22	80	174	May 7	71	113	Mar. 11	62	34.2
July 3	88	70.5	July 7	92	38.3	Apr. 18	79	53.7
July 11	90	48.5	Aug. 9	90	32.7	May 15	87	13.0
July 30	91	21.6	Sept. 7	81	44.4	June 12	84	6.50
Mar. 7, 1958	78	650	Oct. 1	80	23.6	Feb. 11, 1964	56	2.61
Mar. 27	60	350	Nov. 6	69	402	May 27	89	.93
June 3	78	152	Jan. 6, 1961	54	458	Nov. 19	67	38.5
July 11	84	104	Feb. 4	57	226	Dec. 23	53	8.03
Aug. 13	79	38.6	May 11	78	73.4	Mar. 4, 1965	50	190
Sept. 24	82	146	June 6	83	45.4	Apr. 9	74	313
Nov. 10	65	274	Aug. 10	88	71.2	May 10	77	1.21
Dec. 18	47	104	Sept. 16	74	56.7	July 26	88	65.8
Jan. 20, 1959	58	76.6	Oct. 21	76	36.2	Aug. 26	89	33.9
Feb. 26	59	125	Nov. 19	58	48.7	Oct. 20	67	167
Apr. 7	70	67.8	Dec. 26	66	41.6	Nov. 22	65	79.2
Apr. 27	71	183	Jan. 24, 1962	42	36.9	Dec. 27	55	263
June 11	87	57.2	Mar. 2	44	28.6	Feb. 1, 1966	49	132
July 13	89	46.2	Apr. 5	59	37.1	Mar. 8	56	211
Aug. 25	79	39.3	June 15	84	43.2	Apr. 13	75	102
Sept. 18	81	23.0	July 19	93	19.8	May 16	75	210
Oct. 25	67	82.0	Aug. 22	90	5.97	June 22	86	66.6
Dec. 5	55	65.8	Sept. 26	78	301	July 26	84	34.3

GUADALUPE RIVER BASIN

8-1720. San Marcos River at Luling, Tex.

Location.--Lat 29°39'54", long 97°38'59", near bridge on State Highway 80, 1.0 mile south of Luling, Caldwell County, and 8 miles upstream from Plum Creek.

Drainage area.--833 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 1, 1949	57	249	Aug. 15, 1952	87	60.2	Dec. 6, 1959	55	236
Mar. 28	69	323	Sept. 23	78	340	Jan. 10, 1960	57	348
Apr. 22	66	3,400	Oct. 27	64	159	Mar. 12	47	298
June 1	84	239	Dec. 2	50	297	Apr. 10	71	295
July 14	84	134	Jan. 7, 1953	59	343	Aug. 8	84	239
July 28	85	97.4	Mar. 3	71	193	Sept. 16	76	208
Aug. 14	86	116	Apr. 13	71	169	Oct. 1	76	198
Sept. 17	83	93.1	Apr. 30	69	618	May 12, 1961	68	290
Oct. 26	62	265	May 27	83	157	June 7	82	208
Oct. 27	64	238	July 8	87	114	Aug. 9	82	248
Oct. 31	65	127	Aug. 3	87	57.0	Sept. 17	74	213
Dec. 6	64	105	Oct. 7	71	164	Oct. 20	74	195
Jan. 13, 1950	62	106	Dec. 8	61	277	Nov. 19	60	225
Feb. 14	57	274	Jan. 11, 1954	56	191	Jan. 25, 1962	44	190
Mar. 20	66	156	Feb. 10	60	148	Mar. 2	52	153
Apr. 10	71	159	Mar. 14	61	138	Apr. 5	63	177
Apr. 24	69	3,290	Apr. 20	75	151	June 14	82	170
Apr. 25	68	321	May 18	78	118	July 20	86	115
Apr. 28	75	157	June 23	87	51.9	Oct. 24	71	153
June 5	78	227	Sept. 13	80	91.5	Nov. 29	65	174
June 20	83	52.2	Oct. 18	67	101	Jan. 4, 1963	57	177
July 17	83	109	Nov. 19	59	110	Feb. 7	57	146
Aug. 29	82	128	Jan. 10, 1955	56	112	Mar. 13	67	160
Sept. 1	79	59.8	Feb. 14	56	128	Apr. 19	72	176
Oct. 3	79	146	May 3	77	123	May 21	79	119
Oct. 17	73	132	June 7	73	370	June 10	84	97.8
Oct. 20	71	58.8	July 15	84	50.7	July 17	84	97.2
Oct. 30	72	155	Aug. 29	83	105	Aug. 22	84	85.7
Dec. 4	60	131	Oct. 10	70	74.7	Sept. 23	79	90.9
Jan. 9, 1951	49	147	Nov. 7	63	78.6	Oct. 30	70	78.8
Feb. 7	54	88.9	Dec. 17	49	103	Dec. 5	54	96.4
Mar. 13	60	136	Jan. 25, 1956	51	112	Feb. 13, 1964	52	104
Apr. 13	63	58.5	Feb. 29	64	110	Mar. 18	65	104
May 17	79	164	Mar. 29	70	98.8	May 28	83	96.8
June 4	70	2,900	Apr. 24	66	162	July 1	87	109
June 4	70	1,450	May 1	78	106	Aug. 5	85	80.6
June 18	85	168	June 5	84	47.8	Sept. 9	83	77.8
July 9	86	148	July 26	85	94.3	Oct. 15	67	95.9
July 27	85	137	Dec. 12	55	102	Nov. 19	73	147
July 27	87	54.0	Jan. 31, 1957	51	103	Dec. 22	55	116
Aug. 20	84	22.3	Jan. 29, 1958	59	648	Mar. 2, 1965	59	541
Oct. 1	80	22.7	Mar. 7	66	1,090	Apr. 13	75	496
Nov. 2	64	167	Apr. 8	68	530	June 6	70	7,210
Dec. 11	52	143	May 16	77	802	July 22	82	269
Jan. 14, 1952	60	141	June 25	73	570	Aug. 25	82	199
Jan. 30	61	63.5	Aug. 29	81	182	Oct. 18	75	268
Feb. 19	65	114	Feb. 6, 1959	59	257	Nov. 24	70	234
Mar. 24	60	107	Mar. 14	64	308	Apr. 12, 1966	71	288
Apr. 2	70	130	May 15	75	336	Apr. 19	72	844
May 8	78	139	Sept. 4	81	181	May 23	82	355
June 5	80	180	Sept. 19	79	163	June 21	78	265
July 11	85	158	Oct. 23	70	267	July 25	84	180



GUADALUPE RIVER BASIN

S-1724. Plum Creek at Lockhart, Tex.

Location.--Lat 29°55'24", long 97°40'37", at bridge on U. S. Highway 183, 2.8 miles north of Lockhart, Caldwell County, 3.5 miles upstream from Town Branch, and 6.5 miles downstream from Brushy Creek.

Drainage area.--113 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 1, 1959	79	3.42	Nov. 18, 1961	66	5.25	Sept. 17, 1964	76	16.4
May 20	80	3.16	Dec. 27	56	3.08	Sept. 18	72	2.71
June 30	79	1.67	Jan. 25, 1962	43	2.22	Jan. 22, 1965	62	506
Dec. 6	52	4.41	Mar. 2	46	1.56	Apr. 6	61	969
Jan. 10, 1960	56	14.0	Apr. 4	61	.50	Apr. 7	71	61.9
Feb. 7	56	13.8	Oct. 24	66	.90	Apr. 12	75	39.3
Mar. 13	54	7.54	Nov. 30	60	3.01	May 12	72	44.2
May 7	76	14.5	Jan. 3, 1963	55	4.37	June 17	83	16.5
July 7	83	2.28	Feb. 7	52	1.09	Dec. 3	53	2,710
Sept. 8	84	.13	Apr. 18	73	1.63	Dec. 29	56	12.8
Oct. 1	72	.62	May 28	80	1.17	Mar. 8, 1966	52	17.3
Nov. 5	68	16.7	July 1	84	1.81	Apr. 12	75	3.77
Jan. 5, 1961	52	28.1	Sept. 17	72	72.1	May 17	78	5.71
Apr. 8	61	3.72	Sept. 17	75	31.4	June 22	85	2.43
May 12	81	.13						

GUADALUPE RIVER BASIN

8-1730. Plum Creek near Luling, Tex.

Location.--Lat 29°42', long 97°37', at bridge on county road, 1 mile downstream from West Fork Plum Creek, 2 miles upstream from Texas and New Orleans Railroad Co. bridge, and 3 miles northeast of Luling, Caldwell County.

Drainage area.--356 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 28, 1949	69	17.8	Mar. 3, 1953	71	8.39	Jan. 5, 1961	49	58.0
June 1	84	13.0	Apr. 13	67	3.69	May 12	78	8.18
July 13	85	2.80	May 27	84	4.41	June 7	82	4.90
July 26	77	105	July 8	84	2.32	Sept. 17	72	16.0
July 26	78	71.4	Nov. 2	62	37.3	Oct. 21	68	8.36
July 26	79	49.9	Dec. 8	58	10.1	Nov. 19	57	23.3
Aug. 14	87	1.94	Jan. 11, 1954	49	14.0	Dec. 27	54	15.4
Sept. 9	83	1.62	Mar. 14	59	3.09	Jan. 25, 1962	42	16.3
Oct. 24	64	771	Apr. 20	76	1.85	Mar. 2	48	12.6
Oct. 25	61	2,010	Jan. 10, 1955	56	.84	Apr. 5	65	16.3
Oct. 25	63	1,590	Feb. 14	57	2.46	Sept. 25	79	1.63
Oct. 26	61	111	Mar. 28	56	.96	Oct. 24	68	6.37
Oct. 31	61	7.55	May 3	72	.33	Nov. 30	60	13.8
Dec. 6	63	5.62	June 6	72	763	Jan. 4, 1963	53	11.0
Jan. 13, 1950	62	6.97	June 7	76	104	Feb. 7	52	7.22
Feb. 14	54	58.6	Dec. 17	47	.74	Mar. 13	68	9.14
Feb. 15	51	46.9	Feb. 29, 1956	66	.71	Apr. 18	76	7.21
Mar. 20	65	6.67	Mar. 29	74	.92	May 21	82	2.61
Apr. 25	67	1,260	Jan. 31, 1957	50	.83	June 10	95	.53
Apr. 25	68	248	May 7	83	13.5	July 17	86	.51
Apr. 26	64	62.4	Sept. 6	88	.03	Sept. 23	83	1.26
June 5	76	65.7	Jan. 1, 1958	54	37.4	Oct. 30	73	.98
June 21	81	8.02	Jan. 29	54	46.2	Dec. 5	52	2.45
July 17	82	16.4	Apr. 8	65	14.8	Feb. 13, 1964	56	3.44
Aug. 28	86	.97	May 16	77	16.8	Mar. 18	66	3.53
Aug. 29	86	1.02	June 25	87	5.05	Apr. 24	77	3.44
Oct. 4	74	1.52	July 23	78	2.14	Apr. 27	78	64.5
Oct. 17	70	.95	Aug. 29	88	.68	Apr. 27	78	98.3
Oct. 30	76	.94	Sept. 26	78	16.6	May 28	87	1.45
Dec. 4	58	2.88	Oct. 24	71	36.8	July 1	89	2.97
Jan. 9, 1951	46	3.12	Dec. 5	54	15.9	Sept. 18	70	1,040
Jan. 19	57	3.77	Jan. 9, 1959	45	14.4	Sept. 18	72	219
Feb. 7	52	4.06	Feb. 6	49	18.7	Sept. 20	78	50.5
Mar. 13	54	3.32	Mar. 14	64	14.7	Oct. 16	72	6.73
Apr. 13	64	3.79	Apr. 17	64	61.0	Nov. 19	73	4.42
May 17	66	36.1	May 20	77	12.9	Dec. 22	53	3.32
June 18	86	6.88	June 26	76	31.6	Mar. 3, 1965	49	91.0
July 27	87	.38	July 31	83	3.14	Apr. 13	74	43.0
Aug. 20	83	.51	Sept. 4	84	1.33	May 13	74	110
Oct. 1	80	1.55	Sept. 19	81	1.25	June 18	82	34.9
Nov. 1	65	2.21	Oct. 24	68	5.72	July 22	83	3.85
Dec. 11	51	2.69	Dec. 6	49	12.5	Aug. 25	81	1.39
Jan. 14, 1952	61	2.56	Jan. 10, 1960	54	30.3	Sept. 20	84	1.58
Jan. 30	60	4.84	Feb. 7	54	35.5	Oct. 18	71	19.5
Feb. 19	65	3.32	Mar. 13	47	21.9	Nov. 24	70	10.7
Mar. 24	58	2.20	May 8	69	45.9	Dec. 29	57	30.6
May 8	79	1.61	July 6	85	12.5	Jan. 31, 1966	46	22.9
May 29	72	50.6	Aug. 8	86	4.78	Mar. 7	51	38.1
June 5	78	1.50	Sept. 8	79	7.61	Apr. 12	71	12.6
Sept. 19	77	75.7	Sept. 16	77	4.61	Apr. 18	78	21.8
Dec. 2	48	48.8	Oct. 1	73	7.05	June 21	79	21.4
Jan. 7, 1953	58	12.9	Nov. 5	68	44.8	July 25	86	3.06

GUADALUPE RIVER BASIN

8-1746. Peach Creek below Dilworth, Tex.

Location.--Lat 29°28'26", long 97°18'59", at bridge on U. S. Highway 90-A, 1.3 miles downstream from Mitchell Creek, 3.1 miles southwest of Dilworth, Gonzales County, 6.4 miles upstream from mouth, and 8.5 miles southeast of Gonzales.

Drainage area.--462 sq mi, approximately.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 31, 1959	81	10.4	May 31, 1961	76	1.14	Sept. 22, 1964	78	13.5
Sept. 4	80	.43	July 31	82	12.6	Jan. 23, 1965	62	373
Sept. 15	78	1.66	Sept. 18	72	55.4	Jan. 24	59	78.6
Oct. 9	77	5.52	Oct. 11	76	7.31	Jan. 25	57	25.6
Nov. 12	64	.46	Dec. 18	54	16.3	Jan. 26	58	10.7
Dec. 14	56	1.71	Jan. 22, 1962	50	12.0	Feb. 18	51	4,320
Jan. 25, 1960	50	1.83	Mar. 1	50	9.48	Mar. 15	67	3.63
Feb. 26	42	264	June 11	84	3.50	Apr. 19	74	3.32
Mar. 9	55	6.55	Jan. 7, 1963	50	1.18	May 24	79	39.4
Apr. 6	63	1.14	Mar. 19	71	.60	June 28	83	3.93
June 13	84	.36	Nov. 12	63	30.5	Oct. 20	72	1,430
Aug. 23	84	.57	Nov. 15	63	4.92	Nov. 12	66	109
Oct. 24	68	50.5	Dec. 16	42	42.9	Jan. 24, 1966	42	17.1
Jan. 16, 1961	54	70.5	Feb. 24, 1964	50	1.87	Apr. 5	64	8.23
Feb. 21	54	51.8	Apr. 7	68	3.42	May 10	73	78.5
Mar. 20	60	18.1	May 4	78	1.49	June 14	81	2.09
Apr. 24	74	7.05	June 8	78	1.16			

GUADALUPE RIVER BASIN

8-1750. Sandies Creek near Westhoff, Tex.

Location.--Lat 29°12'54", long 97°26'57", at bridge on county highway, 1.9 miles upstream from Birds Creek, and 2.0 miles northeast of Westhoff, De Witt County.

Drainage area.--560 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 10, 1959	78	0.15	Dec. 21, 1961	54	14.1	Sept. 23, 1964	82	26.7
Aug. 14	78	1.89	Mar. 1, 1962	48	8.56	Oct. 29	70	40.5
Sept. 1	81	.16	Apr. 5	65	28.9	Dec. 1	54	1.74
Nov. 13	63	1.75	June 13	85	4.73	Jan. 5, 1965	57	3.10
Dec. 14	59	3.58	July 18	86	.92	Jan. 24	60	2,310
Jan. 25, 1960	50	4.32	Nov. 1	62	30.8	Jan. 25	57	410
Feb. 4	65	54.9	Dec. 6	55	6.29	Jan. 26	59	86.9
Mar. 9	58	8.90	Jan. 11, 1963	57	5.52	Feb. 7	55	1,220
Apr. 6	67	3.60	Feb. 15	53	6.64	Feb. 15	50	30.2
May 9	71	7.89	Mar. 22	64	4.46	Mar. 17	73	9.69
June 30	83	95.0	Apr. 26	78	1.82	Apr. 21	77	6.13
Aug. 23	85	6.47	July 5	82	5.82	May 19	79	1,330
Sept. 27	74	3.88	Aug. 1	85	.12	May 25	81	274
Oct. 24	78	70.0	Sept. 6	83	.13	June 30	85	5.38
Dec. 15	47	62.3	Oct. 10	72	.25	Aug. 9	86	.79
Jan. 18, 1961	53	33.5	Nov. 15	62	7.80	Sept. 13	82	.40
Feb. 21	55	38.0	Dec. 19	41	10.1	Nov. 17	71	10.8
Mar. 20	60	42.5	Jan. 23, 1964	62	5.89	Dec. 16	59	438
Apr. 24	75	10.5	Feb. 27	42	78.2	Jan. 28, 1966	46	15.0
May 31	76	2.72	Apr. 3	73	4.74	Apr. 4	66	10.7
July 5	81	24.1	May 7	76	7.05	May 11	77	122
July 31	78	17.9	June 9	82	4.02	June 13	81	6.22
Oct. 11	75	4.88						

GUADALUPE RIVER BASIN

8-1765. Guadalupe River at Victoria, Tex.

Location.--Lat 29°47'35", long 97°00'45", at bridge on U. S. Highway 59 in Victoria, Victoria County, 1,300 ft upstream from Southern Pacific Railroad Co. bridge, and 15 miles upstream from Coleta Creek.

Drainage area.--5,161 sq mi.

Water-temperature records available.--Once-daily readings from November 1950 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	Mean	-	-	58	57	57	67	70	78	81	86	86	82
	Max.-Min.	-	-	68 47	64 43	68 40	74 58	77 62	83 73	86 74	89 83	87 84	87 76
1952	Mean	75	64	60	64	62	64	70	76	81	84	85	79
	Max.-Min.	82 72	76 55	68 50	78 52	68 56	78 58	76 64	80 72	86 74	89 83	90 79	86 72
1953	Mean	68	63	55	57	60	68	72	76	85	85	83	79
	Max.-Min.	77 61	70 50	63 49	68 48	66 52	74 54	77 64	85 68	89 80	86 82	87 77	82 74
1954	Mean	73	63	55	57	62	64	73	78	83	85	85	82
	Max.-Min.	81 67	75 56	66 44	64 50	67 56	74 53	78 65	- -	89 79	87 82	87 82	85 76
1955	Mean	76	62	60	58	59	67	73	78	81	86	84	81
	Max.-Min.	84 62	68 56	77 46	68 49	66 47	75 53	81 65	82 75	86 74	86 82	86 81	84 77
1956	Mean	72	64	57	56	61	65	70	78	83	84	84	80
	Max.-Min.	82 63	74 47	64 49	68 48	71 47	74 55	76 63	82 72	86 80	86 81	86 79	84 74
1957	Mean	74	62	59	59	64	63	68	75	80	85	84	78
	Max.-Min.	78 66	70 52	70 53	67 44	73 56	70 56	74 60	82 68	87 74	86 83	86 82	84 67
1958	Mean	70	61	57	53	55	61	68	75	80	84	84	79
	Max.-Min.	85 59	70 50	65 48	59 49	62 50	69 54	76 58	80 70	86 79	86 82	86 81	83 76
1959	Mean	70	64	54	52	57	62	67	77	82	84	83	79
	Max.-Min.	74 60	73 54	59 48	60 44	64 47	68 58	74 59	82 74	85 80	85 82	86 78	83 76
1960	Mean	-	58	55	55	53	58	69	74	81	83	83	79
	Max.-Min.	- -	73 49	60 52	64 49	62 42	67 48	74 63	87 68	85 75	86 80	85 79	85 74
1961	Mean	72	64	55	53	56	65	67	77	80	81	82	77
	Max.-Min.	76 67	68 58	62 48	59 47	66 48	70 59	78 56	80 74	83 69	82 78	84 80	84 72
1962	Mean	71	60	58	51	61	63	69	76	81	83	86	81
	Max.-Min.	79 66	73 54	66 50	62 36	66 55	70 53	75 60	80 72	84 76	85 82	88 82	87 74
1963	Mean	74	60	54	48	52	64	74	78	82	84	84	80
	Max.-Min.	81 62	65 52	65 41	58 36	63 45	73 55	78 67	83 73	84 79	85 80	85 83	85 70
1964	Mean	73	64	50	52	53	62	71	78	82	84	85	81
	Max.-Min.	75 70	71 54	65 39	60 41	58 46	68 55	78 59	82 74	85 72	86 82	86 83	85 74
1965	Mean	69	67	55	58	54	59	72	75	80	84	83	81
	Max.-Min.	76 63	74 55	66 46	68 48	64 49	68 51	75 63	79 71	83 75	85 82	85 81	84 70
1966	Mean	70	67	59	53	54	62	70	76	81	85	85	80
	Max.-Min.	78 62	73 61	64 59	64 45	61 46	68 55	76 64	82 66	84 78	88 81	87 78	85 76
1951-66	Mean	72	63	56	55	58	63	70	76	82	84	84	80
	Max.-Min.	85 59	76 47	77 39	78 36	73 40	78 48	81 56	87 66	89 69	89 63	90 77	87 67

GUADALUPE RIVER BASIN

8-1770. Coleta Creek near Schroeder, Tex.

Location. (revised).--Lat 28°49'55", long 97°11'09", at bridge on Farm Road 622 at Goliad-Victoria County line, 2.5 miles northeast of Schroeder, Goliad County, 4.2 miles downstream from confluence of Twelvemile and Fifteenmile Creeks, 9.1 miles upstream from Perdido Creek, and 11.1 miles west of Victoria.

Drainage area.--365 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 22, 1952	70	5.85	Sept. 18, 1958	82	3.80	Jan. 10, 1963	72	5.70
Oct. 28	70	5.09	Oct. 22	80	16.5	Feb. 15	51	4.36
Dec. 4	59	312	Dec. 3	61	10.5	Mar. 20	74	3.69
Dec. 5	54	92.2	Feb. 4, 1959	54	74.8	Apr. 23	89	1.45
Jan. 20, 1953	67	7.66	Mar. 12	60	21.1	July 3	82	88.8
Mar. 4	68	5.77	Apr. 13	62	265	Nov. 13	66	.22
Apr. 15	74	3.67	May 13	79	18.4	Dec. 17	47	16.6
June 5	84	10.8	June 24	78	9.22	Jan. 22, 1964	62	2.35
July 9	95	.72	July 28	91	3.61	Apr. 3	69	5.71
July 23	97	.62	Sept. 1	90	3.74	May 5	77	2.17
Aug. 5	89	.41	Oct. 13	84	8.64	June 10	90	.17
Nov. 3	73	11.9	Nov. 13	75	6.49	Aug. 8	82	3,000
Dec. 10	52	2.86	Dec. 15	62	11.3	Aug. 8	82	1,690
Jan. 13, 1954	50	2.87	Jan. 26, 1960	59	8.41	Aug. 9	87	228
Feb. 16	72	3.30	Mar. 10	69	8.30	Aug. 9	89	143
Mar. 23	75	1.90	Apr. 6	69	6.20	Sept. 18	76	239
May 4	82	.72	June 13	96	.50	Sept. 25	83	3.98
June 15	89	.41	Aug. 24	86	11.6	Oct. 28	70	.82
Dec. 7	59	.35	Sept. 26	83	11.5	Dec. 3	77	.42
Oct. 12, 1955	83	.51	Oct. 21	71	177	Jan. 7, 1965	67	1.48
Nov. 11	68	.40	Nov. 4	76	56.8	Feb. 9	68	34.8
Dec. 13	58	.35	Dec. 14	47	76.5	Mar. 17	70	11.0
Jan. 20, 1956	58	.79	Jan. 18, 1961	60	51.3	Apr. 21	82	4.91
Mar. 23	68	.43	Mar. 20	68	24.8	July 1	93	14.7
Apr. 27	78	.32	Apr. 24	80	15.6	Aug. 9	98	2.48
Nov. 14	74	.25	May 31	93	8.66	Nov. 17	77	4.91
July 25, 1957	90	.59	July 31	94	8.81	Dec. 17	58	82.8
Aug. 22	92	.37	Oct. 12	74	4.24	Jan. 27, 1966	53	15.2
Nov. 8	58	6.99	Dec. 21	54	6.47	Mar. 2	60	15.2
Dec. 2	61	27.4	Jan. 26, 1962	64	8.82	May 6	68	1,100
Jan. 21, 1958	58	34.5	Feb. 28	52	7.48	May 13	75	38.5
Mar. 21	61	32.6	Apr. 4	65	5.23	June 16	95	21.3
Apr. 23	82	17.9	June 13	89	10.1	July 20	99	5.78
July 8	79	146	Nov. 1	74	2.09	Sept. 27	85	2.39
Aug. 20	97	.60	Dec. 3	68	156			

SAN ANTONIO RIVER BASIN

8-1780. San Antonio River at San Antonio, Tex.

Location.--Lat<sup>o</sup>29 24'35", long 98<sup>o</sup>29'40", at South Alamo Street Bridge, in San Antonio, Bexar County, and 2.1 miles upstream from San Pedro Creek.

Drainage area.--41.8 sq mi. Flow of river comes from intermittent spring flow and from artesian wells; drainage area of stream not applicable.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 11, 1950	67	25.7	Apr. 27, 1955	76	2.42	Jan. 19, 1961	66	95.1
Feb. 14	63	23.9	June 9	82	6.75	Feb. 24	69	114
Mar. 25	77	18.0	July 19	85	15.1	Mar. 30	70	83.7
Apr. 29	78	33.1	Sept. 19	84	10.5	May 4	76	31.8
June 2	77	74.4	Nov. 30	53	6.64	June 8	82	18.8
July 1	82	26.6	Jan. 3, 1956	60	7.00	July 18	82	52.6
Aug. 7	85	24.4	Mar. 15	62	9.27	Aug. 24	80	29.5
Sept. 19	81	26.5	Apr. 19	65	8.71	Sept. 20	78	36.0
Oct. 17	76	24.7	May 21	79	7.62	Oct. 26	71	77.0
Nov. 16	75	21.7	July 11	86	9.40	Nov. 30	66	66.4
Dec. 18	64	19.5	Nov. 3	62	14.5	Jan. 8, 1962	61	50.4
Jan. 16, 1951	64	22.3	Dec. 3	62	6.33	Feb. 7	58	33.9
Feb. 5	64	22.7	Jan. 22, 1957	65	8.81	Mar. 15	56	29.8
Mar. 13	61	16.0	Feb. 25	64	17.4	Apr. 20	74	17.2
Apr. 17	71	21.8	Apr. 20	74	12.5	May 23	78	16.7
May 22	79	23.8	June 27	85	10.8	July 4	84	9.53
June 25	84	18.0	July 17	86	12.0	Aug. 1	85	11.7
Aug. 6	85	29.0	Aug. 1	85	12.1	Oct. 10	82	14.4
Aug. 23	84	26.7	Oct. 1	72	12.3	Nov. 14	60	10.3
Sept. 6	86	25.9	Nov. 18	70	13.8	Dec. 26	58	17.9
Oct. 19	78	28.3	Dec. 20	64	9.39	Jan. 25, 1963	49	13.4
Nov. 26	69	22.2	Jan. 27, 1958	58	15.6	Feb. 27	60	10.6
Jan. 10, 1952	63	9.61	Mar. 3	61	21.4	Apr. 3	74	12.6
Feb. 12	72	22.4	Apr. 7	68	17.0	May 8	76	9.89
Apr. 29	74	56.8	May 9	76	27.7	June 12	83	16.5
June 9	84	28.6	June 22	80	17.8	July 2	79	13.1
July 29	84	26.5	July 14	82	18.8	Aug. 3	79	15.3
Sept. 3	79	20.0	Aug. 22	81	16.2	Sept. 12	83	16.5
Oct. 14	77	20.0	Sept. 23	79	28.9	Oct. 17	73	20.1
Nov. 11	63	13.2	Oct. 20	87	44.4	Nov. 20	71	15.2
Dec. 18	69	16.4	Dec. 1	65	93.1	Dec. 27	51	24.4
Dec. 19	60	14.6	Jan. 28, 1959	62	67.5	Jan. 29, 1964	61	15.8
Dec. 19	60	66.4	Mar. 10	72	71.6	Mar. 5	61	14.0
Jan. 27, 1953	67	17.7	Apr. 20	76	71.4	Apr. 9	66	19.5
Mar. 10	70	19.3	May 18	76	55.7	May 14	76	17.8
Apr. 20	67	14.8	June 29	78	20.1	June 16	76	161
July 13	85	12.4	July 30	83	15.9	July 23	85	15.3
Aug. 17	85	10.6	Sept. 9	79	21.9	Aug. 24	80	19.9
Sept. 15	80	13.2	Oct. 20	69	40.0	Oct. 1	75	18.1
Oct. 7	72	9.74	Nov. 6	60	34.1	Nov. 6	67	5.98
Nov. 9	59	10.0	Dec. 4	64	68.5	May 3, 1965	72	19.3
Jan. 27, 1954	68	13.1	Jan. 5, 1960	58	86.9	June 7	73	39.4
Feb. 23	65	9.84	Feb. 3	63	71.8	July 6	83	18.9
Mar. 29	75	13.2	Mar. 10	70	53.3	Aug. 11	82	14.2
May 11	77	12.5	Apr. 14	69	39.7	Oct. 26	66	16.3
June 3	82	10.9	May 26	76	24.6	Nov. 24	73	23.6
July 9	86	17.4	June 23	83	12.5	Jan. 3, 1966	62	17.3
Aug. 24	83	8.13	July 5	82	16.6	Mar. 9	61	18.7
Dec. 1	69	6.30	Aug. 3	84	14.2	Apr. 13	76	17.3
Jan. 11, 1955	58	8.27	Sept. 2	81	20.4	May 18	81	18.1
Feb. 17	65	7.17	Oct. 6	78	14.5	Aug. 31	79	14.8
Mar. 21	71	12.1	Nov. 9	74	84.2			

SAN ANTONIO RIVER BASIN

8-1787. Salado Creek (upper station) at San Antonio, Tex.

Location.--Lat 29°30'57", long 98°25'51", at bridge on Interstate Highway 410 at San Antonio, Bexar County, 1.0 mile west of Northeast School, 1.2 miles upstream from Ferrin-Beitel Creek, and 2.7 miles east of San Antonio International Airport.

Drainage area.--137 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 19, 1960	73	9.45	Jan. 30, 1964	57	47.4	Feb. 26, 1965	49	0.46
Apr. 16, 1962	72	.13	Jan. 30	57	38.6	June 8	72	2.08
Apr. 24	70	.32	Jan. 31	58	8.85	July 6	86	1.64
Oct. 10	81	.37	May 14	73	.62	Nov. 26	69	.96
Nov. 14	62	.20	June 20	81	4.01	Dec. 29	58	.42
Oct. 16, 1963	73	.61	July 23	93	.59	Mar. 9, 1966	60	.28
Nov. 21	68	1.02	Aug. 26	91	.81	Apr. 13	77	.61
Dec. 26	46	.74	Oct. 2	82	1.50	May 18	83	1.22
Jan. 30, 1964	56	6.66	Feb. 9, 1965	49	180	Sept. 1	64	.29

SAN ANTONIO RIVER BASIN

8-1788. Salado Creek (lower station) at San Antonio, Tex.

Location.--Lat 29°21'25", long 98°24'45", at bridge on Loop 13 at San Antonio, Bexar County, 2.0 miles east of Brooks Air Force Base, and 3.7 miles upstream from Rosillo Creek.

Drainage area.--189 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 2, 1960	80	17.2	Aug. 2, 1962	85	6.14	Apr. 6, 1964	69	11.5
Sept. 19	78	10.9	Sept. 7	80	68.8	May 14	75	8.43
Oct. 5	76	15.6	Oct. 10	81	9.87	June 20	79	23.5
Jan. 19, 1961	55	21.1	Nov. 15	58	7.96	July 22	85	3.52
May 1	75	14.2	Dec. 19	59	12.8	Aug. 26	83	13.3
May 10	74	12.7	Jan. 29, 1963	43	13.5	Oct. 2	76	8.34
May 10	74	11.3	Feb. 27	59	16.7	Nov. 6	64	36.6
Aug. 24	77	13.9	Apr. 3	72	9.31	Apr. 30, 1965	68	15.7
Sept. 21	79	14.2	June 11	85	4.63	June 8	77	26.2
Oct. 26	77	47.8	July 2	78	8.66	July 6	84	12.3
Nov. 30	59	20.6	Aug. 8	82	2.29	Aug. 11	81	8.02
Jan. 4, 1962	55	17.2	Sept. 12	84	2.75	Oct. 25	65	13.7
Feb. 7	55	16.2	Oct. 16	69	4.93	Nov. 24	68	11.9
Mar. 15	58	15.2	Oct. 25	70	43.2	Dec. 29	58	15.4
Apr. 6	73	13.0	Nov. 21	67	9.55	Feb. 1, 1966	54	14.8
Apr. 24	70	29.2	Dec. 26	44	12.6	Mar. 9	58	15.7
May 23	78	10.3	Jan. 30, 1964	56	9.09	May 18	80	13.3
July 4	82	8.21	Mar. 6	59	11.6	Aug. 31	80	9.40

SAN ANTONIO RIVER BASIN

6-1790. Medina River near Pipe Creek, Tex.

Location.--Lat 29°40'40", long 98°58'41", 600 ft upstream from Bandera Falls, 0.8 mile upstream from Red Bluff Creek, and 4 miles southwest of town of Pipe Creek, Bandera County.

Drainage area.--474 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 4, 1952	81	0.92	Jan. 22, 1957	57	1.09	Mar. 16, 1962	53	37.4
Dec. 21	55	75.2	Feb. 23	60	4.42	Aug. 6	86	3.44
Feb. 2, 1953	57	26.4	Apr. 2	72	25.3	Sept. 6	84	2.31
Feb. 12	56	28.0	May 15	73	112	Oct. 9	80	10.1
Mar. 15	66	27.7	May 16	73	91.1	Nov. 14	60	25.3
Apr. 26	70	9.96	June 19	60	118	Dec. 26	53	34.4
June 6	61	2.04	Feb. 26, 1958	63	784	Jan. 25, 1963	41	24.2
June 16	66	1.23	Mar. 25	60	410	Feb. 28	62	29.0
July 19	62	7.76	May 1	72	190	Apr. 2	71	21.9
Aug. 24	60	2.47	June 10	78	84.4	May 6	73	27.3
Oct. 12	72	56.5	July 15	81	179	June 13	78	9.90
Nov. 17	65	40.4	Aug. 14	82	69.9	July 16	84	4.06
Dec. 21	60	31.2	Dec. 9	56	235	Aug. 23	83	3.99
Jan. 26, 1954	59	25.2	Jan. 9, 1959	52	151	Oct. 29	69	2.64
Mar. 30	70	15.2	Feb. 16	59	116	Dec. 3	55	10.3
May 11	74	12.5	Apr. 22	71	152	Feb. 11, 1964	52	53.8
June 2	64	30.7	May 24	76	112	Apr. 20	70	56.1
July 15	61	5.51	June 30	78	254	May 26	75	19.9
Aug. 25	63	1.32	Aug. 11	88	59.8	June 29	79	6.28
Nov. 29	55	1.04	Sept. 15	81	34.6	Aug. 3	88	1.58
Jan. 4, 1955	61	1.00	Oct. 17	68	159	Sept. 8	79	9.70
Feb. 18	63	10.1	Nov. 22	56	98.2	Oct. 13	70	137
Mar. 27	51	9.04	Dec. 20	52	101	Nov. 16	70	87.4
Apr. 29	76	5.97	Jan. 21, 1960	38	112	Dec. 21	51	67.2
June 11	74	5.25	Mar. 4	49	96.0	Mar. 8, 1965	52	120
July 15	83	2.16	Apr. 29	71	111	Apr. 5	73	103
Aug. 16	80	7.21	July 5	82	20.5	May 10	72	86.2
Sept. 7	75	5.01	Aug. 6	81	47.8	July 20	78	44.3
Oct. 4	80	3.42	Sept. 12	76	138	Aug. 24	77	19.2
Nov. 1	63	1.47	Oct. 6	76	113	Sept. 28	72	49.3
Dec. 7	51	3.12	Nov. 9	64	224	Oct. 27	63	61.5
Jan. 11, 1956	48	3.27	Jan. 5, 1961	54	260	Dec. 1	57	40.2
Feb. 14	62	6.28	Mar. 18	65	281	Jan. 7, 1966	52	81.0
Mar. 20	61	6.19	May 18	74	88.4	Feb. 8	60	62.7
Apr. 18	67	3.40	Aug. 22	83	95.5	Mar. 17	63	62.3
May 29	80	1.45	Sept. 23	78	52.5	Apr. 20	73	50.9
July 10	84	.41	Oct. 28	76	56.3	May 24	80	132
Aug. 14	82	.33	Jan. 6, 1962	48	48.8	June 26	80	49.2
Sept. 26	77	1.19	Feb. 8	61	38.3	Sept. 7	79	154
Nov. 20	63	1.95						

SAN ANTONIO RIVER BASIN

8-1791. Red Bluff Creek near Pipe Creek, Tex.

Location.--Lat 29°40'48", long 98°57'20", 0.8 mile upstream from bridge on county road, 1.7 miles downstream from Pipe Creek, 1.9 miles upstream from mouth, and 3.2 miles south of town of Pipe Creek, Bandera County.

Drainage area.--56.3 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 19, 1957	82	7.77	Sept. 23, 1958	84	30.3	Sept. 12, 1960	79	2.47
Oct. 16	72	3.31	Oct. 31	60	214	Nov. 9	67	11.8
Feb. 26, 1958	66	72.7	Jan. 9, 1959	46	2.43	Jan. 5, 1961	52	20.3
Mar. 25	60	25.4	Feb. 16	62	10.2	Mar. 8, 1965	56	3.50
Apr. 29	72	5.29	Mar. 16	59	3.02	Apr. 5	79	2.38
May 3	66	34.5	Apr. 22	72	2.23	May 17	70	287
June 10	79	3.33	June 30	77	63.8	June 16	85	14.5
June 19	85	1.59	Jan. 21, 1960	40	1.90			



SAN ANTONIO RIVER BASIN

8-1800. Medina Canal near Riomedina, Tex.

Location.--Lat 29°30', long 98°54' near county highway bridge, a third of a mile downstream from head of canal and diversion dam, 4 miles downstream from Medina Dam, 6 miles north of Riomedina, Medina County, and 32 miles northwest of San Antonio.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 24, 1958	60	13.2	Mar. 31, 1961	63	81.9	Sept. 12, 1963	72	129
July 15	78	45.6	May 5	66	139	Oct. 16	70	94.6
Aug. 14	76	118	June 9	66	137	Nov. 21	66	45.0
Nov. 19	65	9.31	July 17	76	23.4	Dec. 26	47	6.13
Dec. 21	55	46.2	Aug. 23	76	33.6	Mar. 6, 1964	52	40.2
Mar. 6, 1959	58	19.5	Sept. 22	76	77.8	Apr. 8	64	55.8
Apr. 14	63	23.8	Dec. 1	60	26.7	May 15	67	112
May 20	76	47.1	Jan. 8, 1962	56	57.7	June 22	76	38.3
July 23	83	96.8	Feb. 9	54	41.5	July 23	82	152
Aug. 27	71	39.8	Mar. 16	55	84.1	Aug. 27	82	69.5
Nov. 9	64	53.0	Apr. 20	70	70.4	Sept. 15	81	72.1
Dec. 7	54	19.2	May 25	64	14.3	Oct. 9	75	19.6
Jan. 4, 1960	54	23.8	July 5	58	87.4	Jan. 20, 1965	63	94.5
Feb. 5	53	23.1	Aug. 2	74	12.9	May 5	68	32.7
Mar. 9	52	34.6	Aug. 29	67	109	Aug. 19	71	96.9
Apr. 13	66	30.3	Dec. 19	64	101	Oct. 27	70	38.0
May 27	69	50.9	Jan. 18, 1963	48	2.28	Dec. 1	62	35.1
June 24	67	168	Mar. 28	58	84.4	Mar. 17, 1966	58	55.0
July 5	76	34.4	May 1	67	61.7	May 25	79	33.5
Aug. 12	73	66.4	June 7	70	148	June 30	77	54.7
Sept. 3	78	80.1	July 3	69	47.8	Aug. 4	78	110
Oct. 7	76	77.0	Aug. 8	71	158	Sept. 7	77	34.2
Jan. 20, 1961	52	41.5						

SAN ANTONIO RIVER BASIN

8-1805. Medina River near Riomedina, Tex.

Location.--Lat 29°30'01", long 98°54'18", near bridge at Baby's Crossing, 0.8 mile downstream from Bexar, Medina, and Atascosa Counties Water Control and Improvement District No. 1 diversion dam, 4.3 miles northwest of Riomedina, Medina County, 9 miles upstream from San Gerónimo Creek, and 10 miles north of Castroville.

Drainage area.--650 sq mi.

Remarks.--Flow regulated by Medina Lake, 5 miles upstream, and diversion reservoir, 0.8 mile upstream. All flow is seepage under and around dam except for occasional flow over spillway of dam.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 31, 1953	73	19.2	Feb. 5, 1960	55	59.1	June 7, 1963	68	29.7
Apr. 26	70	17.3	Mar. 9	58	27.9	July 3	73	28.6
Apr. 30	72	14.6	Apr. 13	64	40.5	Aug. 8	76	30.6
June 6	76	14.2	May 27	69	29.0	Sept. 12	75	28.7
June 8	83	9.41	June 24	67	31.5	Oct. 16	75	23.8
June 11	84	7.58	July 5	76	29.1	Nov. 21	70	28.4
June 16	81	5.19	Aug. 12	74	28.9	Dec. 26	53	27.2
July 1	86	1.83	Sept. 3	79	32.5	Jan. 31, 1964	60	26.4
Oct. 12	77	1.30	Oct. 7	76	28.6	Mar. 6	63	23.9
Oct. 7, 1954	76	13.7	Nov. 8	67	95.0	Apr. 8	59	22.8
Oct. 20	74	13.0	Dec. 19	56	308	May 15	67	19.9
Nov. 30	64	10.3	Jan. 20, 1961	53	226	June 22	79	23.2
Jan. 11, 1955	58	6.30	Mar. 31	64	114	July 23	79	20.3
Feb. 9	59	1.96	May 5	68	27.5	Aug. 27	81	17.6
May 16, 1957	74	1.46	June 9	65	26.2	Sept. 15	79	18.0
June 19	78	3.63	July 17	78	52.0	Oct. 8	72	19.6
July 25	80	14.7	Aug. 23	77	28.1	Nov. 13	65	23.2
Dec. 17	62	12.6	Sept. 22	77	26.7	Jan. 20, 1965	62	21.0
Mar. 24, 1958	60	35.4	Oct. 27	68	31.2	Feb. 25	51	17.5
June 22	80	641	Dec. 1	62	27.2	Apr. 1	63	20.8
Aug. 14	81	18.7	Jan. 8, 1962	59	27.9	May 5	71	15.8
Nov. 19	66	388	Feb. 9	57	27.8	July 16	75	22.2
Dec. 21	57	87.4	Mar. 16	61	28.5	Aug. 19	79	18.2
Feb. 4, 1959	56	64.9	Apr. 20	71	21.4	Sept. 28	76	16.3
Mar. 6	59	39.5	May 25	68	30.1	Nov. 30	62	18.0
Apr. 14	63	22.5	July 5	74	26.5	Jan. 7, 1966	60	14.8
May 20	73	23.0	Aug. 2	76	27.1	Feb. 8	60	16.1
June 22	78	24.6	Aug. 29	74	30.1	Mar. 17	62	17.0
July 23	80	24.0	Nov. 8	62	22.2	Apr. 20	67	17.1
Aug. 27	78	20.9	Dec. 19	60	25.6	May 25	74	14.4
Oct. 2	75	26.1	Jan. 18, 1963	53	22.2	June 30	69	24.0
Nov. 9	66	26.3	Feb. 21	52	23.4	Aug. 4	75	19.7
Dec. 7	56	34.8	Mar. 28	62	28.9	Sept. 7	77	19.5
Jan. 4, 1960	54	30.3	May 1	64	30.1			

SAN ANTONIO RIVER BASIN

8-1815. Medina River near San Antonio, Tex.

Location.--Lat 29°15'15", long 98°28'20", at bridge on U. S. Highway 281, 6.8 miles upstream from mouth, and 7 miles south of San Antonio, Bexar County.

Drainage area.--1,317 sq mi (634 sq mi is above dam forming Medins Lake).

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 28, 1949	65	103	Oct. 11, 1954	80	10.0	Oct. 6, 1960	75	65.8
Dec. 5	63	52.0	Dec. 1	70	10.8	May 3, 1961	76	76.3
Jan. 10, 1950	57	47.0	Jan. 11, 1955	58	13.2	June 7	78	54.3
Feb. 13	63	47.7	Feb. 17	63	11.1	Aug. 24	78	64.6
Mar. 20	65	43.5	Mar. 23	60	15.1	Sept. 20	78	60.2
Apr. 24	74	102	Apr. 27	75	11.4	Nov. 30	58	92.9
June 8	80	133	May 5	73	8.13	Jan. 9, 1962	42	105
July 1	84	70.2	June 8	83	11.6	Feb. 7	56	89.7
Aug. 7	84	26.3	July 19	83	5.00	Mar. 14	43	47.8
Sept. 18	85	128	Aug. 25	80	8.76	Apr. 19	71	55.2
Oct. 17	74	76.6	Sept. 19	82	6.10	Apr. 26	71	86.2
Nov. 15	65	22.0	Oct. 28	69	8.53	May 24	77	85.2
Dec. 18	58	75.0	Dec. 2	51	26.9	July 4	78	41.6
Feb. 6, 1951	49	167	Jan. 7, 1956	59	12.0	Aug. 1	83	27.9
Mar. 12	64	22.0	Mar. 12	62	8.73	Sept. 6	84	28.9
Apr. 17	68	22.4	Apr. 20	65	5.98	Oct. 12	80	23.6
May 22	76	55.9	July 2	81	5.75	Nov. 15	57	32.2
Aug. 6	87	12.0	Aug. 20	74	632	Jan. 23, 1963	47	39.8
Aug. 23	84	11.8	Aug. 21	76	78.0	Feb. 26	55	48.7
Sept. 7	84	13.9	Sept. 27	76	5.53	Apr. 3	73	39.3
Oct. 19	74	13.4	Oct. 29	74	4.92	May 8	74	45.7
Nov. 27	61	15.7	Nov. 3	62	10.7	June 12	82	17.2
Jan. 10, 1952	56	17.1	Dec. 3	63	8.54	July 2	78	40.0
Feb. 11	65	17.1	Jan. 22, 1957	68	4.18	Aug. 9	80	13.0
Mar. 17	65	17.5	Feb. 25	64	13.3	Oct. 17	71	21.7
Apr. 28	71	15.2	Apr. 2	71	20.4	Nov. 20	73	44.9
June 9	82	10.7	June 27	84	41.1	Dec. 27	49	53.0
July 29	82	6.28	Aug. 1	82	10.8	Jan. 29, 1964	60	53.1
Aug. 7	87	7.09	Sept. 6	80	11.8	Mar. 5	60	44.9
Sept. 2	82	4.87	Oct. 1	70	34.9	Apr. 9	61	37.2
Oct. 14	72	7.24	Nov. 18	68	41.3	May 14	76	38.8
Nov. 10	65	11.1	Jan. 27, 1958	55	104	June 20	78	149
Dec. 18	61	11.2	Mar. 3	58	134	July 9	81	21.8
Jan. 26, 1953	61	12.0	Apr. 7	68	65.4	Aug. 7	82	7.24
Mar. 10	67	12.3	Jan. 5, 1959	46	158	Aug. 24	81	69.6
Apr. 20	67	9.48	Jan. 28	56	124	Jan. 15, 1965	58	52.4
June 1	83	7.02	Mar. 10	64	111	Feb. 26	54	84.4
July 13	84	6.72	Apr. 20	75	89.5	Apr. 30	69	68.3
Aug. 17	86	6.46	May 19	79	78.9	June 7	76	306
Sept. 15	78	26.4	July 30	82	72.9	July 7	88	65.8
Sept. 23	76	19.0	Sept. 9	78	51.3	Aug. 11	79	43.4
Oct. 7	71	19.1	Oct. 20	64	83.0	Sept. 15	82	37.4
Nov. 9	59	14.1	Nov. 5	67	71.0	Oct. 25	60	47.9
Dec. 14	54	18.0	Dec. 4	54	74.5	Nov. 24	69	51.3
Jan. 27, 1954	63	18.5	Jan. 4, 1960	53	78.6	Dec. 27	56	70.9
Feb. 23	64	11.8	Mar. 10	56	74.6	Feb. 2, 1966	50	57.1
Mar. 29	76	11.1	Apr. 15	68	77.0	Mar. 8	60	56.8
May 11	77	5.51	May 26	77	55.1	Apr. 13	76	49.0
June 3	82	5.82	June 23	82	36.2	May 17	80	53.4
July 9	85	6.65	Aug. 4	82	47.3	Aug. 31	79	43.6
Aug. 23	82	5.88	Sept. 2	78	43.4			

SAN ANTONIO RIVER BASIN

8-1818. San Antonio River near Elmendorf, Tex.

Location.--Lat 29°14'15", long 98°21'43", 2,000 ft downstream from Braunig Plant Lake, and 2.2 miles southwest of Elmendorf, Bexar County.

Drainage area.--1,743 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 11, 1962	83	136	Jan. 3, 1964	58	140	June 4, 1965	81	406
Dec. 17	60	163	Mar. 5	60	131	Aug. 11	85	127
Apr. 3, 1963	77	74.0	May 14	76	102	Dec. 3	58	3,020
June 4	83	51.1	Jan. 14, 1965	64	110	Dec. 5	59	589
June 11	86	69.5	Apr. 30	73	226	Dec. 6	59	354
Aug. 9	86	40.8	May 17	69	5,380	Mar. 17, 1966	74	149
Oct. 24	71	4,350	May 19	68	10,400	Apr. 25	71	2,440

SAN ANTONIO RIVER BASIN

8-1825. Calaveras Creek near Elmendorf, Tex.

Location.--Lat 29°15'38", long 98°17'34", at bridge on U. S. Highway 181, 2.5 miles east of Elmendorf, Bexar County, 5 miles upstream from mouth, and 9 miles southeast from city limits of San Antonio.

Drainage area.--77.2 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 6, 1965	49	169	Mar. 9, 1958	63	6.76	Nov. 27, 1962	63	20.1
Feb. 6	50	74.3	Apr. 1	66	1.49	Apr. 5, 1963	54	22.7
Feb. 6	51	26.8	May 6	72	133	Sept. 13	74	44.4
Feb. 6	51	19.0	May 12	76	10.7	Feb. 5, 1964	47	73.9
Feb. 7	51	3.65	June 27	82	.24	Feb. 7	47	37.6
Dec. 2	47	3.39	Dec. 1	67	.25	Feb. 10	56	6.08
July 11, 1956	80	4.17	Jan. 28, 1959	64	.09	Feb. 11	55	3.68
Dec. 20	53	41.7	Mar. 10	67	.14	Mar. 24	68	3.27
Feb. 25, 1957	66	11.3	Apr. 21	65	.24	Aug. 23	76	44.7
June 28	83	.10	May 18	79	10.9	Aug. 24	77	1.00
Sept. 24	68	77.3	Dec. 8	64	.12	Nov. 5	64	22.5
Oct. 11	71	3.44	Feb. 4, 1960	58	.12	May 17, 1965	71	52.9
Nov. 15	58	.57	Jan. 18, 1961	58	.26	May 17	71	48.6
Dec. 16	58	.59	Feb. 23	70	.36	June 4	83	1.22
Jan. 31, 1958	54	3.33	June 20	73	98.5			

SAN ANTONIO RIVER BASIN

8-1835. San Antonio River near Falls City, Tex.

Location.--Lat 28°57'05", long 98°03'50", at bridge on Farm Road 791, 0.9 mile upstream from Scared Dog Creek, and 3.6 miles southwest of Falls City, Karnes County.

Drainage area.--2,113 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 19, 1950	62	153	June 18, 1954	86	38.3	Sept. 20, 1961	79	221
Mar. 24	71	141	Sept. 16	82	74.9	Oct. 25	72	248
May 1	78	127	Dec. 9	59	65.7	Nov. 29	61	278
June 17	86	158	Feb. 18, 1955	66	108	Jan. 5, 1962	54	250
July 21	86	112	Apr. 1	66	154	Feb. 6	56	275
Aug. 22	84	195	May 6	80	54.1	Mar. 13	64	197
Oct. 3	82	146	July 12	85	49.7	Apr. 17	75	167
Nov. 2	75	66.6	Aug. 23	83	78.5	May 23	78	164
Nov. 14	59	62.9	Oct. 4	84	62.3	July 4	83	143
Dec. 7	52	64.7	Nov. 8	60	64.5	Aug. 1	85	84.4
Jan. 13, 1951	58	76.2	Jan. 17, 1956	52	94.4	Sept. 5	84	133
Feb. 7	56	242	Feb. 21	68	60.4	Sept. 14	83	193
Mar. 13	66	120	May 1	79	64.8	Oct. 18	80	142
Apr. 12	69	166	Nov. 13	65	86.1	Nov. 26	67	246
May 17	68	476	Feb. 25, 1957	64	743	Jan. 3, 1963	56	175
May 18	66	1,350	Mar. 22	70	278	Feb. 4	47	188
June 5	72	2,410	Apr. 10	68	110	Mar. 8	63	190
June 6	74	2,230	May 9	66	263	Apr. 13	74	200
June 23	88	113	June 5	75	4,110	May 17	78	99.5
Aug. 2	88	82.7	July 24	85	88.1	June 4	85	47.3
Sept. 18	79	194	Aug. 20	85	58.9	July 4	79	232
Oct. 9	75	105	Nov. 5	71	203	Aug. 7	84	52.2
Nov. 7	60	113	Jan. 14, 1958	55	2,210	Sept. 11	84	48.0
Dec. 17	53	122	Mar. 19	61	314	Oct. 15	76	87.8
Jan. 18, 1952	70	117	Apr. 22	73	244	Nov. 19	75	142
Feb. 22	64	134	May 26	81	305	Dec. 24	46	154
Mar. 28	65	126	Aug. 12	85	157	Jan. 28, 1964	61	159
Apr. 29	72	128	Sept. 10	80	902	Mar. 4	63	218
June 9	83	125	Feb. 3, 1959	54	396	Apr. 13	63	174
July 11	86	78.9	June 23	78	148	May 12	76	133
Aug. 14	88	47.4	July 29	83	235	Nov. 3	72	142
Oct. 6	75	85.8	Sept. 2	83	173	Jan. 11, 1965	60	200
Oct. 31	63	69.7	Dec. 3	56	258	Apr. 28	74	334
Dec. 9	61	119	Dec. 30	54	266	May 19	69	5,010
Jan. 23, 1953	59	121	Feb. 2, 1960	58	280	Sept. 30	72	249
Mar. 7	67	116	Mar. 16	61	303	Nov. 2	63	120
Apr. 17	72	108	May 25	79	206	Dec. 8	57	339
June 1	85	63.0	June 22	87	101	Jan. 12, 1966	60	215
July 10	90	55.4	July 28	86	236	Feb. 16	58	284
Aug. 7	91	47.2	Sept. 1	79	219	Mar. 22	72	173
Nov. 10	59	103	Oct. 4	77	154	May 31	80	285
Dec. 15	55	180	May 3, 1961	77	263	July 6	82	172
Feb. 19, 1954	67	92.8	June 7	80	162	Aug. 8	84	112
Mar. 25	74	105	Aug. 18	79	251	Sept. 12	79	292
May 7	72	106						

SAN ANTONIO RIVER BASIN

8-1839. Cibolo Creek near Boerne, Tex.

Location.--Lat 29°46'25", long 98°41'52", 0.6 mile upstream from Southern Pacific Line bridge, and 2.3 miles southeast of Boerne, Kendall County.

Drainage area.--68.4 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 3, 1962	56	1.90	June 29, 1964	84	0.73	June 18, 1965	83	41.4
Mar. 16	58	2.99	Oct. 14	67	3.10	July 20	84	9.38
Dec. 21	56	.99	Nov. 4	67	53.3	Dec. 10	62	10.4
Feb. 28, 1963	58	1.01	Nov. 17	71	4.89	Jan. 13, 1966	47	8.48
Apr. 2	73	.87	Dec. 21	47	2.44	Feb. 21	56	10.9
May 6	79	1.60	Jan. 27, 1965	53	1.89	May 2	67	23.4
Feb. 10, 1964	53	6.10	Apr. 6	65	565	June 6	80	13.8
Mar. 16	62	4.60	Apr. 7	69	189	July 7	80	13.0
Apr. 17	64	14.2	Apr. 8	70	146	Aug. 16	86	3.38
May 25	74	2.29	May 14	72	26.7	Sept. 19	77	12.4

## SAN ANTONIO RIVER BASIN

8-1860. Cibolo Creek near Falls City, Tex.

Location.--Lat 29°00'50", long 97°55'48", at bridge on State Highway 123, 5.5 miles northeast of Falls City, Karnes County, and 9 miles upstream from mouth.

Drainage area.--827 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 19, 1948	61	15.8	Dec. 10, 1954	56	9.09	Jan. 17, 1961	57	40.3
Jan. 23, 1949	55	22.6	Feb. 18, 1955	68	13.3	Feb. 22	62	37.7
Feb. 18	59	16.5	Apr. 1	66	23.0	Mar. 29	74	29.0
Apr. 12	70	17.3	May 6	84	6.57	May 3	77	28.2
May 25	85	26.4	July 11	91	8.86	June 7	79	14.0
July 5	88	45.1	Aug. 22	89	18.9	Aug. 18	80	33.7
Aug. 8	81	76.2	Oct. 3	85	5.84	Sept. 20	78	26.8
Aug. 8	82	59.0	Nov. 7	65	7.91	Oct. 25	70	28.7
Aug. 20	86	16.2	Dec. 12	49	10.8	Nov. 28	60	43.1
Sept. 13	91	14.0	Jan. 16, 1956	54	9.65	Jan. 5, 1962	56	34.6
Nov. 8	63	37.9	Feb. 20	70	8.07	Feb. 6	58	32.5
Dec. 14	53	37.7	Apr. 3	72	6.62	Mar. 13	64	28.5
Jan. 18, 1950	67	26.7	Apr. 30	84	5.80	Apr. 18	75	26.4
Feb. 19	61	25.9	July 6	93	.25	May 23	79	19.2
Mar. 24	74	22.6	July 16	83	4.67	July 4	82	14.8
May 1	76	24.3	Oct. 19	71	35.6	Aug. 1	84	8.15
June 17	81	24.2	Nov. 13	64	8.60	Sept. 5	84	8.22
July 21	88	14.8	Feb. 25, 1957	62	98.3	Sept. 14	87	11.8
Aug. 21	89	12.9	Mar. 21	69	77.2	Oct. 18	80	10.1
Oct. 2	84	13.3	Mar. 22	66	185	Nov. 26	66	13.6
Oct. 17	75	10.2	Apr. 10	68	15.6	Jan. 3, 1963	53	18.7
Nov. 2	74	10.9	Apr. 27	70	6,870	Feb. 4	49	18.1
Dec. 7	40	13.1	June 11	82	130	Mar. 7	57	17.4
Jan. 13, 1951	63	15.4	July 23	87	20.6	Mar. 8	57	19.5
Feb. 7	56	16.3	Aug. 19	86	14.9	Apr. 13	72	17.6
Mar. 13	63	15.8	Nov. 4	72	35.2	May 17	77	11.0
Apr. 12	68	17.5	Jan. 13, 1958	56	4,020	June 18	79	8.43
May 16	75	16.3	Feb. 11	51	41.0	July 4	81	9.71
June 5	73	482	Mar. 20	56	58.0	Aug. 7	83	4.81
June 23	89	15.4	Mar. 20	56	55.9	Sept. 11	85	3.19
Aug. 2	89	7.41	Mar. 25	60	45.8	Oct. 15	76	6.85
Sept. 18	80	17.7	Apr. 22	72	36.2	Nov. 19	76	10.2
Oct. 9	70	9.71	May 26	82	60.0	Dec. 24	39	13.2
Nov. 7	59	18.5	July 11	88	37.7	Jan. 28, 1964	60	12.9
Dec. 17	55	14.4	Aug. 12	84	15.8	Mar. 4	62	21.4
Jan. 18, 1952	70	15.0	Sept. 9	81	27.5	Apr. 14	61	13.6
Feb. 22	68	61.2	Oct. 21	74	25.8	May 12	75	11.7
Mar. 28	66	17.8	Dec. 2	54	27.1	June 19	79	688
Apr. 28	74	15.7	Jan. 6, 1959	40	25.1	July 21	81	5.36
June 9	85	37.2	Feb. 3	47	35.0	Aug. 25	85	28.9
July 11	92	7.09	Mar. 11	68	23.3	Nov. 2	70	17.7
Aug. 14	89	4.99	Apr. 14	58	114	Jan. 12, 1965	47	15.2
Oct. 6	77	23.2	May 12	81	40.4	Feb. 17	51	2,970
Oct. 31	70	16.6	June 23	78	12.9	Apr. 29	72	75.4
Dec. 9	62	20.8	July 29	86	18.8	May 20	70	5,540
Jan. 23, 1953	58	20.0	Sept. 2	85	13.2	May 21	71	1,320
Mar. 7	69	17.3	Nov. 4	76	20.9	June 4	80	110
Apr. 17	72	17.5	Dec. 3	56	20.4	July 9	84	23.1
June 1	91	11.8	Dec. 30	54	22.2	Sept. 30	74	17.1
July 10	94	7.05	Feb. 2, 1960	58	20.5	Nov. 2	62	28.7
Aug. 7	93	4.95	Mar. 16	64	23.0	Dec. 5	55	652
Nov. 10	60	15.7	May 24	81	15.9	Dec. 8	56	114
Dec. 15	54	18.8	June 22	87	8.68	Jan. 12, 1966	59	27.0
Jan. 18, 1954	59	20.0	Sept. 1	78	26.0	Feb. 14	55	81.2
Feb. 19	71	14.9	Oct. 4	80	10.3	Mar. 21	69	26.3
Mar. 26	61	13.7	Nov. 2	69	178	May 31	81	20.7
May 7	73	11.8	Nov. 29	59	41.2	Aug. 8	83	73.1
Sept. 16	85	4.91	Dec. 16	49	59.1	Sept. 12	79	15.9

SAN ANTONIO RIVER BASIN

8-1865. Ecleto Creek near Runge, Tex.

Location.--Lat 28°55'12", long 97°46'19", at bridge on Farm Road 81, 2.6 miles upstream from Salt Branch, 4.5 miles northwest of Runge, Karnes County, and 5.2 miles upstream from mouth.

Drainage area.--239 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 24, 1961	70	1.03	June 3, 1962	73	244	May 21, 1965	73	62.1
Nov. 28	59	.73	June 5	74	15.9	May 22	74	29.9
Jan. 4, 1962	50	1.36	July 2	81	.65	Jan. 11, 1966	60	.43
Feb. 9	59	1.07	Dec. 18	47	1.03	Feb. 14	56	.30
Mar. 12	68	1.03	Mar. 3, 1964	66	38.9	Mar. 21	71	.14
Apr. 18	72	.66	Apr. 3	74	.21	Sept. 12	79	15.6
June 3	72	261	Jan. 22, 1965	64	2,650			

SAN ANTONIO RIVER BASIN

8-1875. Escondido Creek at Kenedy, Tex.

Location.--Lat 28°49'11", long 97°51'32", at bridge on U. S. Highway 181 in northwest edge of Kenedy, Karnes County, 4.6 miles upstream from Dry Escondido Creek, and 9.6 miles upstream from mouth.

Drainage area.--72.4 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 31, 1955	79	3,100	Sept. 10, 1958	80	2.41	June 17, 1963	74	16.3
Oct. 3	77	1.50	Oct. 21	74	1.45	Dec. 20	44	.46
Oct. 19, 1956	69	15.8	Dec. 2	56	.15	Feb. 6, 1964	56	8.56
Mar. 4, 1957	55	6.47	Aug. 30, 1960	77	31.7	Mar. 3	56	2.36
May 8	64	27.9	Jan. 16, 1961	54	2.32	Aug. 10	82	29.2
May 19	70	12.4	Feb. 20	55	2.30	Jan. 22, 1965	62	17.3
June 6	80	19.6	Mar. 28	80	.31	Feb. 5	50	12.8
Jan. 14, 1958	57	69.9	Jan. 3, 1963	58	.42	Feb. 16	54	1,360
Feb. 11	47	5.08	Apr. 30	66	65.8	July 6	76	9.51
July 11	82	3.25						

SAN ANTONIO RIVER BASIN

8-1885. San Antonio River at Coliad, Tex.

Location.--Lat 28°38'58", long 97°23'04" at bridge on U. S. Highway 183, 1.2 miles southeast of courthouse in Coliad, Coliad County, and 11.7 miles upstream from Manshull Creek.

Drainage area.--3,921 sq mi.

Water-temperature records available.--Once daily readings from October 1958 to September 1966. Temperature readings at irregular intervals for the period 1948-56 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1959	Mean	73	66	56	55	59	65	70	78	82	84	84	82
	Max.-Min.	81-59	75-50	62-46	70-45	68-50	72-60	78-56	83-74	84-80	86-81	85-79	87-75
1960	Mean	73	58	58	56	55	60	72	76	82	85	83	80
	Max.-Min.	86-62	67-53	64-52	67-50	62-47	70-47	77-66	83-69	87-75	88-78	86-77	87-74
1961	Mean	75	67	56	53	59	68	71	78	80	82	82	80
	Max.-Min.	87-59	79-60	69-48	58-47	69-48	75-59	80-62	82-73	85-75	86-72	85-78	89-75
1962	Mean	72	63	53	51	64	62	71	79	82	86	84	81
	Max.-Min.	79-68	74-59	68-47	57-42	70-52	70-50	78-62	83-72	87-70	88-80	89-80	85-75
1963	Mean	77	62	56	50	54	66	75	78	83	83	83	74
	Max.-Min.	84-65	65-56	64-46	60-43	66-49	77-59	79-67	85-68	87-80	88-78	89-77	81-60
1964	Mean	63	57	51	53	55	64	-	78	82	85	83	80
	Max.-Min.	68-58	71-42	61-42	61-45	60-47	68-57	-	81-75	85-75	88-81	85-76	84-74
1965	Mean	69	67	58	60	56	62	74	76	82	84	83	81
	Max.-Min.	75-63	74-58	70-49	70-30	60-51	70-54	79-67	80-70	85-77	87-82	87-80	84-71
1966	Mean	70	69	60	53	55	64	72	77	81	84	83	79
	Max.-Min.	79-64	72-62	69-56	67-45	63-48	71-55	78-66	85-67	84-78	87-80	85-78	83-76
1959-66	Mean	72	64	57	54	57	64	72	78	82	84	83	80
	Max.-Min.	87-59	79-42	70-42	70-42	70-47	77-47	80-56	85-67	87-75	88-78	89-76	89-60

## MISSION RIVER BASIN

8-1895. Mission River at Refugio, Tex.

Location.--Lat 28°17'30", long 97°16'44", at bridge on U. S. Highway 77, 560 ft upstream from Missouri-Pacific Railroad Co. bridge, and a quarter of a mile southwest of Refugio, Refugio County.

Drainage area.--690 sq mi.

Water-temperature records available.--Once-daily readings October 1961 to September 1966. Temperature readings at irregular intervals for the period 1948-66 are on file in the district office at Austin.

## Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1962	Mean	77	69	-	-	-	-	-	-	-	-	-	-
	Max.-Min.	85 69	79 59	-	-	-	-	-	-	-	-	-	-
1963	Mean	-	-	58	56	63	72	78	81	85	88	90	84
	Max.-Min.	-	-	70 49	67 39	75 50	80 64	81 69	90 66	94 80	94 80	95 80	95 74
1964	Mean	76	68	57	60	60	71	79	84	89	90	90	88
	Max.-Min.	84 70	75 56	64 46	70 50	68 50	76 60	88 72	92 80	94 80	95 77	95 80	92 79
1965	Mean	78	75	65	66	61	67	81	82	88	93	91	91
	Max.-Min.	87 70	83 60	87 56	78 59	70 55	75 57	86 69	86 75	94 84	95 80	95 81	96 80
1966	Mean	80	73	70	62	58	63	64	62	85	89	88	85
	Max.-Min.	86 70	79 70	79 62	85 52	64 54	65 59	72 59	67 58	89 72	91 86	89 82	88 82
1961-66	Mean	78	71	62	61	60	68	76	77	87	90	90	87
	Max.-Min.	87 69	83 56	87 46	85 39	75 50	80 57	88 59	92 58	94 72	95 77	95 80	96 74

## ARANSAS RIVER BASIN

8-1897. Aransas River near Skidmore, Tex.

Location. (revised).--Lat 28°16'56", long 97°37'14", at county road bridge, 3.8 miles downstream from confluence of West Aransas Creek and Poesta Creek, and 4.4 miles northeast of Skidmore, Bee County.

Drainage area.--247 sq mi.

## Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 28, 1961	59	0.30	July 20, 1964	83	75.3	Feb. 15, 1966	54	3.37
Jan. 3, 1962	51	.53	July 21	84	20.8	Mar. 23	67	.49
Jan. 10, 1963	56	.70	Feb. 2, 1965	56	.30	Apr. 21	75	3.03
Mar. 21	67	.45	Mar. 9	64	.72	Apr. 22	68	24.8
Dec. 18	48	2.18	Apr. 13	78	5.11	May 6	65	3,730
Feb. 26, 1964	50	3.75	May 13	81	15.8	May 6	66	2,020
Mar. 31	66	.71	May 21	81	51.8	May 7	67	259
June 2	77	9.35	June 22	88	2.67	June 1	85	2.13
July 5	88	4.56	Nov. 1	62	.36	Aug. 9	91	.26
July 20	81	201	Dec. 6	60	2.48	Sept. 13	84	2.13
July 20	81	130	Jan. 11, 1966	57	.80			

MUECES RIVER BASIN

8-1900. Mueces River at Laguna, Tex.

Location.--Lat 29°25'45", long 99°59'50", 0.5 mile downstream from Sycamore Creek, and 1 mile northeast of Laguna, Uvalde County.

Drainage area.--764 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 6, 1949	62	42.7	Apr. 24, 1954	74	16.9	Nov. 10, 1959	65	170
Feb. 27	66	1,470	May 1	77	145	Dec. 8	58	129
Mar. 4	63	535	May 15	78	27.5	Jan. 5, 1960	58	145
Mar. 12	64	292	May 27	83	296	Mar. 1	56	139
Apr. 14	69	139	June 1	84	148	Apr. 19	70	98.4
May 24	82	139	June 21	85	63.3	July 6	80	46.9
June 27	79	182	July 1	83	439	Aug. 3	82	88.8
July 30	81	56.2	July 23	84	92.0	Oct. 5	76	114
Aug. 10	82	893	Sept. 2	80	39.0	Nov. 3	72	410
Aug. 12	83	479	Oct. 15	78	23.8	Dec. 6	68	170
Aug. 14	85	340	Dec. 3	68	22.8	Apr. 4, 1961	72	146
Sept. 20	81	240	Dec. 15	62	21.1	May 10	76	96.9
Nov. 5	74	149	Jan. 8, 1955	59	25.1	Sept. 20	76	122
Dec. 8	68	104	Feb. 16	67	29.5	Oct. 17	76	163
Jan. 12, 1950	63	94.7	Mar. 25	76	30.4	Mar. 7, 1962	58	81.1
Feb. 18	63	88.7	Apr. 26	75	24.0	June 19	76	66.0
Mar. 23	69	72.4	June 9	80	18.7	July 24	86	36.0
Apr. 26	74	56.0	July 14	80	14.4	Aug. 28	83	25.9
May 18	78	190	July 19	79	861	Nov. 6	72	112
June 27	86	66.6	July 19	82	499	Dec. 10	64	74.3
Aug. 9	86	42.0	July 21	86	112	Jan. 15, 1963	59	62.1
Sept. 21	84	37.3	Aug. 16	84	33.7	Feb. 19	60	123
Oct. 20	71	48.9	Sept. 20	83	30.0	Mar. 26	66	59.1
Nov. 19	69	43.7	Sept. 21	85	31.8	Apr. 30	72	49.0
Dec. 20	62	43.5	Sept. 27	80	884	May 8	68	528
Feb. 8, 1951	60	38.0	Oct. 19	72	136	June 4	75	79.8
Mar. 14	62	37.7	Jan. 6, 1956	57	50.7	July 9	79	42.0
Apr. 21	76	43.7	Mar. 14	63	40.7	Aug. 13	81	20.9
May 21	73	33.8	May 23	76	24.0	Sept. 17	81	20.3
June 28	81	30.3	July 6	84	15.7	Oct. 21	74	22.0
Aug. 9	86	16.7	Sept. 25	75	7.89	Nov. 26	63	30.0
Aug. 28	88	13.2	Oct. 31	70	7.24	Jan. 2, 1964	55	41.0
Oct. 11	73	9.17	Dec. 5	66	5.50	Feb. 4	55	69.5
Nov. 29	64	13.3	Jan. 17, 1957	56	4.96	Mar. 9	60	52.7
Jan. 7, 1952	58	14.9	Feb. 19	62	6.00	Apr. 14	67	61.8
Feb. 13	66	20.5	Mar. 27	62	13.9	May 19	72	56.0
Mar. 20	70	23.5	May 20	78	158	June 24	80	30.9
Apr. 30	78	105	June 25	83	133	July 29	79	18.5
May 29	72	180	July 30	81	44.8	Sept. 2	83	14.1
June 14	84	41.9	Sept. 4	83	24.7	Sept. 30	76	797
Aug. 1	83	20.2	Oct. 8	78	24.4	Oct. 7	73	400
Aug. 27	79	11.6	Nov. 14	67	133	Nov. 11	71	136
Sept. 6	84	9.93	Dec. 18	63	101	Dec. 17	54	109
Oct. 18	73	7.42	Jan. 29, 1958	73	120	Jan. 19, 1965	57	101
Nov. 14	68	6.65	Mar. 6	65	287	Feb. 24	49	114
Dec. 23	60	8.15	Apr. 9	63	167	Mar. 30	55	110
Jan. 29, 1953	61	17.5	May 13	73	142	May 4	70	78.3
Mar. 14	71	26.4	June 20	80	1,280	June 8	82	183
Apr. 24	75	26.2	July 16	82	269	June 25	82	323
June 3	84	13.3	Aug. 19	84	141	July 14	86	103
July 15	85	8.22	Oct. 1	72	666	Aug. 16	83	52.1
Aug. 19	84	5.09	Nov. 4	67	542	Sept. 21	80	37.7
Sept. 3	79	346	Dec. 4	63	312	Oct. 27	70	60.6
Sept. 5	78	175	Jan. 6, 1959	56	179	Jan. 5, 1966	60	84.3
Sept. 24	78	38.4	Feb. 11	57	148	Feb. 8	65	65.0
Oct. 10	75	49.5	Mar. 19	58	122	Mar. 15	69	60.2
Nov. 14	66	38.6	Apr. 30	69	93.8	Apr. 19	77	49.2
Dec. 16	62	29.1	May 22	75	134	Apr. 26	70	456
Jan. 19, 1954	62	27.1	July 7	84	432	Apr. 26	76	74.0
Feb. 26	68	25.0	Aug. 5	82	241	May 26	78	245
Mar. 30	78	20.3	Sept. 9	83	131			



NUECES RIVER BASIN

6-1905. West Nueces River near Brackettville, Tex.

Location.--Lat 29°28'55", long 100°14'20", at Wilson Ranch, 9 miles downstream from Loss Creek, 11 miles upstream from Liveoak Creek, and 15.8 miles northeast of Brackettville, Kinney County.

Drainage area.--700 sq mi.

Remarks.--In ordinary years most of runoff from basin is lost by seepage into Edwards limestone above station.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 12, 1949	65	19.9	Mar. 6, 1958	66	34.2	Sept. 9, 1959	82	4.56
Apr. 13	72	4.43	Apr. 9	66	2.95	Nov. 3	70	27.5
Aug. 13	84	51.8	June 18	73	3,380	Sept. 30, 1964	74	409
Sept. 23	82	8.69	June 25	80	326	Sept. 30	74	364
Nov. 4	70	.18	July 16	79	45.8	Oct. 7	72	163
May 18, 1957	72	375	Aug. 19	77	2.74	Nov. 11	68	7.14
May 18	72	271	Nov. 4	66	139	June 25, 1965	78	333
May 19	73	1,860	Dec. 4	62	18.2	July 13	82	21.6
May 19	73	948	Jan. 6, 1959	54	3.80	Aug. 16	78	214
May 21	74	70.7	July 7	82	159	Aug. 23	81	47.2
June 25	83	--	Aug. 4	82	58.5	Sept. 9	78	55.6

NUECES RIVER BASIN

8-1920. Nueces River below Uvalde, Tex.

Location.--Lat 29°07'25", long 99°53'40", at McDaniel Ranch, 5.7 miles upstream from bridge on U. S. Highway 83, 8.8 miles southwest of Uvalde, Uvalde County, and 18.2 miles downstream from West Nueces River.

Drainage area.--1,947 sq mi.

Remarks.--Part of flow of Nueces River enters Edwards and associated limestones in Balcones Fault Zone which crosses basin just north of Uvalde. At low stages most of headwater flow enters this formation.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 21, 1950	72	7.78	Aug. 25, 1958	85	34.0	Oct. 21, 1963	76	7.15
Nov. 17	65	5.67	Sept. 17	74	17,800	Nov. 26	57	6.84
Dec. 21	60	6.19	Sept. 18	75	3,250	Jan. 2, 1964	55	6.52
Feb. 8, 1951	61	3.94	Nov. 3	67	575	Feb. 4	58	6.80
Mar. 16	61	5.81	Dec. 4	64	244	Mar. 10	54	5.55
Apr. 20	77	3.17	Jan. 5, 1959	52	138	Mar. 10	60	5.32
May 21	73	4.95	Feb. 11	59	78.6	Apr. 13	86	3.61
May 29, 1952	82	39.3	Apr. 28	72	38.5	May 21	75	3.55
June 11	90	5.04	May 22	83	36.5	June 24	80	2.55
Sept. 5, 1953	83	91.0	July 8	82	408	July 28	95	1.23
Sept. 10	81	13.2	Aug. 5	88	208	Sept. 2	80	.99
Sept. 22	91	4.49	Sept. 10	83	66.7	Sept. 21	78	13,500
Oct. 10	86	4.76	Dec. 9	64	115	Sept. 24	79	1,860
Nov. 11	61	1.95	Jan. 5, 1960	58	120	Oct. 6	73	265
May 26, 1954	78	628	May 3	72	52.5	Oct. 10	77	185
May 27	85	186	July 6	83	30.7	Nov. 9	73	41.9
June 2	86	9.77	Sept. 7	80	106	Nov. 23	60	36.2
June 25	80	2.30	Oct. 5	83	54.3	Jan. 19, 1965	53	15.7
July 1	80	1,060	Nov. 4	70	350	Feb. 23	55	13.1
July 2	82	427	Feb. 8, 1961	52	191	Mar. 31	60	22.6
July 27	95	9.11	May 11	76	44.1	May 3	77	13.9
Sept. 1	90	2.73	Sept. 20	77	66.1	June 9	80	59.8
Oct. 15	75	1.73	Oct. 16	81	94.8	July 13	87	49.8
Dec. 3	63	.81	Mar. 5, 1962	59	46.7	Aug. 18	79	22.8
Oct. 26, 1955	68	13.5	June 18	78	22.4	Sept. 21	83	12.2
Jan. 6, 1956	60	2.33	July 23	85	15.3	Oct. 26	72	12.9
Oct. 8, 1957	80	2.08	Aug. 27	86	11.9	Dec. 6	62	14.6
Nov. 14	65	2.53	Jan. 16, 1963	46	13.5	Jan. 6, 1966	55	11.9
Dec. 17	61	1.31	Feb. 18	58	20.1	Feb. 9	68	12.6
Jan. 28, 1958	58	2.40	Mar. 27	68	13.3	Mar. 16	66	12.0
Mar. 6	67	2.66	Apr. 29	87	9.94	Apr. 21	66	8.61
Apr. 10	68	34.1	June 5	78	25.4	May 27	81	11.2
May 13	79	17.8	July 8	82	15.9	June 29	87	7.67
July 25	82	105	Aug. 12	90	9.97	Sept. 13	82	520
July 29	81	68.5	Sept. 17	90	7.86			

NUECES RIVER BASIN

8-1930. Nueces River near Asherton, Tex.

Location.--Lat 28°29'55", long 99°40'55", at bridge on Farm Road 190 between Asherton and Brundage, 1.2 miles downstream from El Moro Creek, and 5.5 miles northeast of Asherton, Dimmit County.

Drainage area.--4,082 sq mi.

Remarks.--Part of flow of Nueces River and its headwater tributaries enters Edwards and associated limestones in Balcones Fault Zone which crosses basin just north of Uvalde; at low stages most of headwater flow enters this formation.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 29, 1950	83	31.8	Feb. 5, 1959	51	88.2	Feb. 28, 1961	60	136
June 30	85	12.0	Mar. 5	61	49.9	Apr. 6	74	14.6
May 19, 1951	74	35.6	May 19	83	3.09	Jan. 12, 1962	43	3.31
Oct. 10	81	.27	June 19	84	10.9	Apr. 9, 1963	78	24.0
June 11, 1952	84	2.80	July 22	84	442	May 14	76	48.8
June 8, 1955	84	3.85	Oct. 1	79	220	Mar. 24, 1964	68	1.53
Sept. 26	75	6,030	Nov. 7	64	164	June 1	83	10.0
Sept. 26	75	7,050	Dec. 10	57	72.6	Sept. 14	83	29.9
Sept. 27	78	14,700	Jan. 14, 1960	60	107	Sept. 20	83	80.2
Oct. 3	81	291	Feb. 18	54	80.9	Oct. 21	68	71.3
July 5, 1956	83	493	Mar. 24	70	35.7	Nov. 23	58	2.47
July 6	88	49.0	Apr. 28	76	18.5	Dec. 28	56	.06
June 27, 1957	84	.58	June 1	85	1.91	May 3, 1966	67	3,650
Nov. 21	61	1.64	Aug. 11	83	39.0	May 5	68	3,920
Jan. 30, 1958	56	109	Sept 15	81	25.5	May 7	68	623
Mar. 8	67	18.1	Dec. 22	51	137	June 6	83	5.75
Dec. 20	54	158	Jan. 31, 1961	51	105			

NUECES RIVER BASIN

8-1940. Nueces River at Cotulla, Tex.

Location.--Lat 28°25'32", long 99°14'26", at bridge on U. S. Highway 81, a third of a mile upstream from Missouri Pacific Railroad Co. bridge, three-quarters of a mile south of Cotulla, La Salle County, and 1.2 miles upstream from Lind Dam.

Drainage area.--5,260 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 30, 1950	86	53.7	Dec. 20, 1958	53	169	May 14, 1963	80	784
May 19, 1951	75	310	Feb. 5, 1959	51	90.0	June 1, 1964	70	21.1
June 10, 1954	82	24.1	Oct. 1	81	441	Sept. 19	79	18,200
July 7	88	2,010	Nov. 7	62	186	Oct. 21	70	101
July 8	89	1,040	Dec. 10	56	78.0	Nov. 23	61	7.26
Sept. 30, 1955	78	9,400	Jan. 13, 1960	63	103	Dec. 28	57	.02
Oct. 2	78	4,810	Feb. 18	54	89.5	May 19, 1965	74	2,190
Oct. 3	81	2,770	Mar. 24	67	37.7	Oct. 4	69	36.7
June 27, 1957	86	.45	Apr. 28	75	14.8	May 2, 1966	70	150
Oct. 7	77	3.80	Sept. 15	80	42.1	May 5	68	2,820
Nov. 21	62	22.0	Apr. 26, 1962	74	.79	May 7	70	4,030
Mar. 8, 1958	65	63.6	Nov. 19	58	4.71	June 6	82	21.3

NUECES RIVER BASIN

8-1945. Nueces River near Tilden, Tex.

Location.--Lat 28°18', long 96°34', at bridge on State Highway 173, 2 miles upstream from Cow Creek, and 10.5 miles south of Tilden, McMullen County.

Drainage area.--6,192 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 19, 1949	79	409	June 2, 1953	88	0.68	June 1, 1960	82	1.41
May 27	84	56.3	Sept. 25	82	5.66	July 7	86	1.09
July 7	86	230	Nov. 5	67	92.4	Aug. 12	78	16.2
Aug. 10	82	575	Nov. 10	56	16.4	Sept. 14	80	92.6
Aug. 19	86	1,060	May 6, 1954	78	3.22	Mar. 1, 1961	60	146
Sept. 14	84	26.8	June 22	82	226	Apr. 5	72	23.2
Nov. 10	66	23.6	Sept. 15	84	2.73	May 9	80	2.02
Dec. 12	64	24.6	Oct. 21	72	59.4	July 20	82	134
Jan. 17, 1950	67	1.13	Oct. 6, 1955	81	1,420	Sept. 26	83	5.50
Feb. 18	65	.83	July 19, 1956	85	5.34	Jan. 11, 1962	40	7.24
June 9	85	3,270	June 5, 1957	80	10,300	Apr. 25	74	57.6
June 12	84	1,310	Oct. 4	77	137	July 3	88	30.1
June 15	83	379	Jan. 15, 1958	55	1,340	Sept. 12	85	11.1
June 16	87	98.8	Mar. 4	59	1,520	Nov. 20	57	15.4
June 27	85	3.94	Nov. 21	62	373	June 20, 1963	92	18,600
July 21	83	287	Dec. 18	54	178	June 21	86	11,600
Sept. 27	73	769	Jan. 28, 1959	57	76.0	Mar. 25, 1964	70	9.26
May 15, 1951	75	709	Mar. 5	61	62.7	June 2	80	92.2
May 18	75	1,720	Apr. 9	67	2.37	Aug. 12	86	129
June 7	83	5,020	June 18	83	36.8	Nov. 25	58	5.34
June 22	88	9.57	July 22	84	257	Dec. 30	65	.32
Sept. 18	75	1,850	Aug. 26	82	61.4	Dec. 16, 1965	62	27.2
Oct. 4	82	10.0	Dec. 9	57	79.9	Jan. 24, 1966	44	3.16
Nov. 5	61	15.4	Jan. 13, 1960	67	93.7	Feb. 24	54	2.13
June 10, 1952	82	1,960	Feb. 17	56	60.2	Mar. 31	76	.59
June 25	86	.69	Mar. 22	67	33.2	June 14	85	7.61
July 10	84	12.4	Apr. 27	76	1.69			

NUECES RIVER BASIN

8-1950. Frio River at Concan, Tex.

Location.--Lat 29°29'18", long 99°42'16", 0.7 mile southeast of Concan Post Office, Uvalde County, and 15 miles upstream from Dry Frio River.

Drainage area.--405 sq mi.

Remarks.--Part of flow of Frio River enters Edwards and associated limestones in Balcones Fault Zone which crosses basin just north of Uvalde and below station. Most of low flow enters this formation.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 6, 1949	61	222	Jan. 20, 1954	61	17.2	Apr. 29, 1959	73	81.8
Mar. 12	65	161	Feb. 26	62	14.9	May 21	76	77.6
Apr. 15	64	78.9	Apr. 1	71	9.07	July 9	82	250
May 23	81	102	Apr. 2	68	9.37	Aug. 6	80	152
June 26	82	91.2	Apr. 23	75	10.2	Oct. 10	74	244
July 31	86	34.4	Apr. 23	76	2.91	Dec. 9	60	107
Aug. 12	86	49.4	Apr. 29	73	12.2	Jan. 6, 1960	58	102
Sept. 24	76	56.2	Apr. 29	73	5.25	May 9	78	72.7
Nov. 6	64	59.4	June 24	87	26.2	July 7	82	33.3
Dec. 7	65	49.5	June 30	84	82.0	Aug. 4	85	87.0
Jan. 14, 1950	59	53.9	July 24	87	29.3	Oct. 6	77	91.4
Feb. 16	60	58.2	Sept. 1	82	11.0	Nov. 4	71	200
Mar. 22	67	51.8	Sept. 17	72	4.05	Sept. 21, 1961	74	97.3
Apr. 27	74	42.2	Oct. 26	72	4.01	June 19, 1962	82	58.1
May 26	75	47.1	Nov. 4	62	5.82	July 24	85	22.5
June 28	87	35.4	Dec. 1	65	5.66	Aug. 28	86	21.7
Aug. 10	86	21.3	Jan. 7, 1955	57	9.62	Dec. 11	56	46.3
Sept. 23	81	18.4	Feb. 15	59	17.2	Feb. 19, 1963	61	59.2
Oct. 19	73	21.6	Mar. 26	55	15.5	Apr. 30	76	35.6
Nov. 18	66	19.5	Apr. 27	74	10.3	July 9	85	16.5
Dec. 21	57	25.7	May 12	74	37.0	Aug. 13	86	6.76
Jan. 18, 1951	58	25.5	June 7	87	14.3	Sept. 18	82	9.56
Feb. 7	58	21.2	July 13	90	5.48	Oct. 22	74	11.9
Mar. 15	66	25.2	July 18	83	62.7	Nov. 27	58	46.4
May 20	76	94.1	July 19	81	169	Feb. 3, 1964	56	69.3
June 27	86	27.4	Aug. 16	88	15.0	Apr. 14	73	58.8
Aug. 8	89	7.36	Sept. 10	84	8.49	May 20	78	43.7
Aug. 29	87	5.24	Sept. 21	85	9.33	June 24	80	26.8
Oct. 12	71	9.91	Oct. 27	64	17.6	July 28	90	10.1
Nov. 28	62	18.2	Dec. 1	51	18.4	Sept. 2	89	5.86
Jan. 8, 1952	58	19.9	Jan. 6, 1956	56	13.9	Oct. 7	70	118
Feb. 14	60	18.7	Mar. 14	63	12.7	Dec. 16	53	56.2
Mar. 19	64	20.8	Apr. 18	68	8.19	Feb. 24, 1965	55	71.1
May 1	76	34.7	July 10	90	1.57	May 4	71	58.2
June 14	83	27.8	Jan. 28, 1957	54	6.34	July 15	81	70.1
July 31	87	6.42	Feb. 20	61	9.52	Aug. 19	82	34.8
Aug. 30	83	1.65	Mar. 27	67	16.6	Sept. 23	79	52.8
Sept. 5	84	.91	June 25	85	66.4	Oct. 27	68	51.8
Oct. 17	68	1.53	July 9	88	38.4	Nov. 29	65	49.6
Nov. 13	60	4.23	July 31	79	19.0	Jan. 3, 1966	57	58.9
Dec. 22	57	21.6	Sept. 4	87	7.76	Feb. 7	63	54.4
Feb. 23, 1953	55	24.2	Oct. 10	71	118	Mar. 14	62	52.6
Mar. 12	72	23.2	Nov. 20	62	105	Apr. 18	73	46.8
Apr. 22	72	14.3	Dec. 18	63	80.1	Apr. 25	70	74.3
June 4	82	1.98	Jan. 23, 1958	48	124	Apr. 25	71	590
July 16	86	8.40	Mar. 5	62	202	Apr. 25	71	373
Aug. 20	84	.71	Apr. 8	68	117	Apr. 26	65	211
Sept. 1	79	85.8	May 8	72	113	May 25	79	74.3
Sept. 4	79	21.4	May 14	71	104	June 27	84	43.4
Sept. 17	79	4.07	July 15	80	202	Aug. 13	77	43,300
Oct. 5	72	22.3	Aug. 25	79	125	Aug. 13	79	6,820
Nov. 11	61	14.1	Oct. 2	76	470	Aug. 14	74	2,660
Nov. 14	61	14.1	Nov. 2	66	568	Aug. 24	83	203
Dec. 17	56	19.5	Feb. 11, 1959	59	105	Sept. 7	77	180
Dec. 17	53	14.1	Mar. 18	60	82.0			

NUECES RIVER BASIN

8-1960. Dry Frio River near Reagan Wells, Tex.

Location.--Lat 29°30', long 99°47', 1,000 ft upstream from Aldine School, 2 miles upstream from Rock Creek, and 4 miles southeast of Reagan Wells, Uvalde County.

Drainage area.--117 sq mi.

Remarks.--Part of flow of Dry Frio River enters Edwards and associated limestones in Balcones Fault Zone which crosses basin just north of Uvalde and below station. Most of low flow enters this formation.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 21, 1952	84	0.38	Jan. 6, 1956	57	3.45	Oct. 18, 1961	76	24.6
Sept. 5	81	.14	Mar. 14	63	3.07	Mar. 7, 1962	64	11.0
Oct. 19	67	.10	Apr. 18	68	1.40	June 19	79	4.84
Nov. 13	54	.17	May 24	73	.72	July 24	82	2.27
Dec. 22	58	3.64	July 10	95	.26	Aug. 28	85	1.00
Feb. 3, 1953	54	4.83	Mar. 27, 1957	67	4.37	Dec. 11	60	9.25
Mar. 12	67	6.53	May 20	72	29.4	Jan. 16, 1963	41	5.80
Apr. 22	70	2.63	May 29	71	87.1	Feb. 19	58	28.4
July 16	84	.15	June 25	83	29.9	Mar. 26	65	6.06
Aug. 20	75	.02	July 31	78	4.47	Apr. 30	78	7.39
Sept. 1	76	23.2	Sept. 4	85	1.53	June 4	83	5.05
Sept. 1	78	61.2	Oct. 10	71	220	July 9	85	2.04
Sept. 1	78	112	Nov. 20	65	41.3	July 22	78	.70
Sept. 9	83	23.1	Dec. 18	62	21.6	Oct. 22	58	6.79
Sept. 18	81	12.6	Jan. 16, 1958	57	28.0	Nov. 27	53	6.15
Oct. 5	73	22.6	Jan. 29	59	58.1	Jan. 3, 1964	51	41.8
Nov. 11	68	7.15	Mar. 5	60	94.9	Feb. 4	60	10.3
Dec. 17	57	3.87	Mar. 7	68	343	Mar. 10	72	14.7
Jan. 20, 1954	57	3.71	Apr. 9	69	39.9	Apr. 14	73	6.37
Feb. 26	59	2.81	May 8	74	32.9	May 20	79	2.69
Apr. 1	70	2.16	June 21	76	237	June 24	88	.21
May 3	76	1.26	July 15	80	86.4	July 28	91	.59
May 13	84	1.49	July 28	85	43.7	Sept. 2	68	33.8
May 25	71	717	Aug. 25	81	32.4	Oct. 5	70	14.8
May 27	75	115	Sept. 23	80	325	Nov. 11	69	5.96
May 28	74	84.2	Nov. 3	65	204	Jan. 19, 1965	55	26.7
June 27	79	108	Dec. 10	59	55.6	Feb. 24	64	17.5
June 30	77	64.9	Jan. 7, 1959	54	37.9	Mar. 31	71	9.15
July 24	87	6.33	Feb. 11	58	26.0	May 4	80	30.8
Sept. 1	89	2.14	Mar. 18	63	18.4	June 9	84	7.67
Oct. 17	75	3.07	Apr. 29	72	17.8	July 13	79	2.24
Dec. 1	67	1.81	May 21	76	26.5	Aug. 19	80	3.55
Dec. 16	64	1.99	July 9	80	63.3	Sept. 22	71	12.5
Jan. 7, 1955	58	2.48	Aug. 6	77	27.8	Oct. 27	64	7.44
Feb. 15	61	4.21	Dec. 9	58	26.3	Nov. 29	59	14.0
Mar. 26	56	3.50	Jan. 6, 1960	54	27.7	Jan. 3, 1966	60	14.0
Apr. 27	71	2.34	May 9	78	17.4	Feb. 7	63	12.5
June 7	83	2.21	July 7	78	4.85	Mar. 14	77	9.23
July 12	69	.43	Aug. 4	88	17.8	Apr. 18	83	7.91
July 21	82	22.3	Sept. 8	82	36.6	May 25	83	3.09
Aug. 16	88	4.20	Oct. 6	77	16.4	June 27	81	66.5
Sept. 9	83	1.24	Dec. 6	64	27.4	July 8	75	834
Sept. 21	85	.72	May 11, 1961	74	12.0	Aug. 14	78	267
Sept. 25	80	173	June 7	81	6.94	Aug. 15	80	68.6
Oct. 27	72	6.53	Aug. 21	79	96.7	Aug. 24	77	74.1
Nov. 30	54	4.86	Sept. 21	78	21.2	Sept. 8		

NUECES RIVER BASIN

8-1980. Sabinal River near Sabinal, Tex.

Location.--Lat 29°29'25", long 99°29'40", at low-water crossing on old Sabinal-Utopia road, 2.5 miles downstream from Onion Creek, and 12 miles north of Sabinal, Uvalde County.

Drainage area.--206 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 11, 1949	81	33.8	July 31, 1957	83	3.89	Oct. 18, 1961	74	44.1
Sept. 24	75	22.2	Sept. 23	71	128	Mar. 8, 1962	63	10.4
Nov. 6	62	24.6	Oct. 10	74	23.0	June 19	86	4.05
Dec. 7	62	18.2	Nov. 19	63	72.3	Dec. 12	52	4.62
Jan. 14, 1950	59	20.5	Dec. 18	62	59.6	Jan. 16, 1963	43	7.10
Feb. 16	55	31.0	Jan. 29, 1958	61	157	Feb. 20	54	14.7
Mar. 22	62	23.1	Mar. 5	62	199	Mar. 26	67	5.26
Apr. 27	70	16.8	Mar. 7	58	1,190	Apr. 30	75	6.47
May 25	82	16.2	Mar. 7	58	1,030	May 8	69	28.1
June 28	82	24.8	Mar. 7	63	620	May 27	84	6.58
Aug. 10	87	2.68	Apr. 8	67	113	June 3	80	5.57
Sept. 23	81	.42	Apr. 9	70	105	Feb. 3, 1964	56	16.1
Oct. 19	75	.30	Apr. 8	73	90.7	Mar. 10	61	8.48
Nov. 18	65	.95	July 15	61	150	Apr. 14	68	14.2
Dec. 21	52	1.07	Aug. 27	79	50.1	Apr. 17	68	31.1
Jan. 18, 1951	50	1.83	Nov. 1	63	552	May 20	77	8.56
Feb. 7	58	2.00	Dec. 10	57	140	June 23	83	1.43
Mar. 15	57	2.38	Jan. 7, 1959	54	86.1	Sept. 28	71	270
Apr. 19	74	5.14	Feb. 12	59	49.0	Oct. 6	76	45.4
May 20	72	38.6	Mar. 18	56	34.4	Nov. 10	70	25.3
June 27	83	11.9	Apr. 27	70	39.2	Jan. 18, 1965	51	13.2
May 1, 1952	76	4.84	May 23	75	48.8	Feb. 23	60	28.7
June 13	86	20.4	July 2	86	254	Mar. 29	64	25.8
Feb. 3, 1953	60	2.81	Sept. 15	75	32.4	May 3	71	18.3
Mar. 12	81	3.33	Oct. 8	74	99.8	June 9	61	38.8
Sept. 3	76	31.6	Nov. 12	63	82.0	July 13	88	14.4
Oct. 6	73	3.12	Dec. 16	58	79.4	Aug. 17	86	2.91
Oct. 27	69	30.9	Jan. 7, 1960	48	61.5	Sept. 23	75	143
Nov. 12	60	9.62	May 10	73	39.9	Oct. 25	68	40.9
Dec. 20	56	7.54	July 6	80	8.56	Nov. 29	61	19.7
Jan. 20, 1954	64	3.92	Oct. 6	76	34.0	Jan. 4, 1966	47	41.4
Feb. 24	63	1.51	Nov. 5	70	120	Feb. 7	58	29.1
May 24	70	210	Dec. 8	51	153	Mar. 14	68	23.2
June 4	80	4.78	Apr. 4, 1961	63	84.2	Apr. 19	75	18.6
June 26	77	59.6	June 5	83	26.1	May 23	83	35.7
July 25	90	4.41	Aug. 21	79	93.9	June 28	78	15.4
July 18, 1955	82	189	Sept. 21	82	23.6	Aug. 3	87	3.28
June 21, 1957	83	34.5	Oct. 18	74	38.9	Sept. 6	82	71.3

NUECES RIVER BASIN

8-1985. Sabinal River at Sabinal, Tex.

Location.--Lat 29°18'45", long 99°28'45", at bridge on U. S. Highway 90, 1,100 ft downstream from Southern Pacific Lines railroad bridge, 0.8 mile west of Sabinal, Uvalde County, and 5.8 miles upstream from Ranchero Creek. Prior to Mar. 20, 1964, at site 80 ft upstream.

Drainage area.--247 sq mi.

Remarks.--Most of low flow of the Sabinal River enters formations in the Balcones Fault Zone which crosses basin upstream from this station and below the next upstream station. Part of flow enters the Edwards and associated limestones which lie upstream from other formations that receive water.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 31, 1953	74	15.7	Apr. 7, 1958	66	58.8	Mar. 5, 1962	66	0.71
Sept. 4	74	129	Apr. 11	69	44.0	June 23, 1964	87	.53
Sept. 6	78	.92	May 8	74	11.4	July 28	91	.07
Sept. 17	80	.83	July 15	86	72.0	Sept. 3	79	.01
Oct. 1	80	.49	Aug. 27	79	3.09	Sept. 28	73	334
Oct. 27	67	20.0	Dec. 10	57	70.9	Oct. 8	75	3.62
Nov. 12	61	1.20	Jan. 7, 1959	54	31.8	Nov. 9	69	2.61
Jan. 21, 1954	57	.49	Feb. 12	61	4.63	Jan. 18, 1965	58	.85
Feb. 27	67	.35	Mar. 18	61	2.53	Feb. 23	63	.82
Apr. 2	81	.17	Apr. 28	69	1.59	Mar. 29	65	.61
May 12	81	.05	July 9	84	74.5	May 5	70	-.59
Dec. 2	66	.06	Sept. 14	81	1.65	June 9	80	-.35
Feb. 10, 1955	64	.34	Nov. 12	65	11.4	July 13	75	-.32
Mar. 21	71	.74	Dec. 18	58	3.75	Aug. 17	79	.24
Apr. 26	81	.29	Jan. 7, 1960	54	2.78	Sept. 23	76	117
June 9	94	.36	Apr. 11	70	2.39	Sept. 24	78	17.8
July 12	99	.03	May 10	71	1.91	Oct. 25	68	3.73
June 21, 1957	86	4.80	Sept. 8	79	2.72	Nov. 30	60	1.68
July 31	82	1.80	Nov. 5	72	34.2	Jan. 4, 1966	59	1.94
Sept. 3	86	1.15	Dec. 8	54	31.0	Feb. 7	61	1.21
Oct. 11	70	3.77	Apr. 5, 1961	69	9.39	Mar. 15	62	.65
Nov. 12	64	21.7	May 12	70	2.73	Apr. 19	69	.40
Dec. 17	64	9.24	Aug. 21	83	4.75	May 23	87	.30
Jan. 29, 1958	59	86.3	Sept. 22	74	1.17	June 27	83	.07
Mar. 5	61	129	Oct. 18	70	1.86	Sept. 19	83	107

NUECES RIVER BASIN

8-2000. Hondo Creek near Tarpley, Tex.

Location.--Lat 29°34', long 99°15', at Ranch Road 462 low-water crossing, 6.2 miles southeast of Tarpley, Bandera County, and 16.7 miles northwest of Hondo.

Drainage area.--86.2 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 19, 1952	54	155	July 14, 1958	86	54.4	Mar. 27, 1963	69	1.15
Dec. 19	63	39.9	Aug. 18	90	16.1	May 1	68	3.70
Dec. 21	54	9.31	Sept. 24	83	182	June 6	82	2.11
Feb. 2, 1953	62	3.54	Oct. 31	65	305	Dec. 2	58	.87
Mar. 13	69	2.55	Dec. 9	54	50.6	Jan. 6, 1964	48	.52
Apr. 23	76	.26	Jan. 8, 1959	57	26.0	Feb. 5	45	11.5
Aug. 27	86	1.97	Feb. 16	63	14.0	Mar. 11	54	4.46
Sept. 2	77	286	Mar. 17	55	9.24	Apr. 13	77	4.49
Oct. 2	80	2.30	Apr. 24	68	37.5	May 22	80	3.23
Oct. 15	74	19.8	May 24	77	26.8	June 25	76	1.22
Oct. 29	67	17.3	July 1	86	62.8	Nov. 10	69	10.4
Dec. 21	59	5.48	Aug. 11	87	11.3	Dec. 16	47	6.81
Jan. 21, 1954	52	3.32	Nov. 13	64	34.6	Jan. 20, 1965	53	4.49
Feb. 25	64	1.50	Dec. 16	53	37.4	Feb. 25	51	30.7
Apr. 3	68	.87	Jan. 4, 1960	49	21.1	Mar. 31	64	17.7
June 8	86	5.66	May 10	78	19.0	May 5	70	10.9
Oct. 12	83	.48	July 6	82	2.86	June 10	80	42.9
Mar. 22, 1955	65	2.80	Aug. 8	84	22.0	July 13	78	12.2
May 11	83	1.43	Sept. 9	76	38.5	Aug. 19	86	4.14
Apr. 25, 1957	70	61.3	Nov. 10	52	55.5	Sept. 27	77	6.65
May 29	83	138	Dec. 9	52	126	Oct. 19	75	44.0
June 20	88	46.8	Feb. 10, 1961	56	109	Nov. 30	52	6.44
July 29	92	4.18	May 12	68	15.4	Dec. 2	54	277
Sept. 3	95	.27	Aug. 22	81	29.2	Dec. 2	54	382
Oct. 11	73	20.6	Sept. 22	74	11.2	Dec. 6	55	52.6
Nov. 19	62	90.7	Oct. 20	62	9.96	Jan. 5, 1966	45	28.3
Dec. 19	66	40.8	Mar. 9, 1962	69	2.90	Feb. 8	60	17.2
Jan. 22, 1958	53	76.9	May 14	75	4.13	Mar. 15	64	13.3
Feb. 25	64	268	June 20	82	1.68	Apr. 19	79	9.05
Apr. 3	69	73.6	Nov. 7	67	1.68	May 24	79	17.3
Apr. 6	74	59.4	Dec. 18	53	1.62	June 30	83	11.9
May 13	76	25.4	Jan. 17, 1963	46	1.26	Aug. 5	84	4.10
June 19	83	358	Feb. 20	63	2.92			

NUECES RIVER BASIN

8-2015. Seco Creek at Miller Ranch, near Utopia, Tex.

Location.--Lat 29°34', long 99°24', at county road crossing, 4.2 miles downstream from Cascade Creek, and 8 miles southeast of Utopia, Uvalde County.

Drainage area.--43.1 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 5, 1961	88	3.27	Oct. 21, 1963	75	0.07	Feb. 23, 1965	58	11.0
Aug. 22	80	18.7	Dec. 2	62	.32	May 3	69	4.20
Oct. 19	73	5.01	Jan. 6, 1964	43	.25	July 13	87	6.43
Mar. 8, 1962	79	2.42	Feb. 3	56	3.41	Sept. 24	79	9.01
June 19	98	2.07	Apr. 13	76	1.83	Nov. 29	60	5.10
Dec. 18	52	.54	May 20	80	.97	Feb. 7, 1966	61	8.96
Jan. 17, 1963	47	.74	June 23	84	.20	Apr. 19	82	5.00
Feb. 20	69	2.74	Sept. 1	94	.63	June 29	85	3.49
Apr. 30	88	1.64	Sept. 22	73	151	Aug. 14	74	142
July 9	97	.42	Oct. 6	71	29.4	Sept. 6	87	28.6
Sept. 18	81	.55	Dec. 16	52	3.87			

NUECES RIVER BASIN

8-2040. Leona River spring flow near Uvalde, Tex.

Location.--Lat 29°09'10", long 99°44'30", at old road crossing on White's ranch, 2.0 miles downstream from Cooks Slough, and 4.7 miles southeast of Uvalde, Uvalde County.

Remarks.--Discharge represents flow from several springs that enter river above station and below Uvalde.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 24, 1950	72	15.8	July 8, 1959	84	13.4	Nov. 5, 1962	67	12.3
Apr. 28	75	14.0	Sept. 11	76	16.3	Dec. 11	60	11.6
May 19	79	13.2	Jan. 6, 1960	68	31.0	Jan. 16, 1963	50	10.6
June 29	82	9.91	May 9	78	34.3	Feb. 19	58	9.01
Aug. 8	82	6.39	July 6	82	29.3	Mar. 25	72	5.37
Sept. 20	81	4.26	Aug. 4	81	25.3	Apr. 29	78	4.49
Oct. 21	70	3.61	Sept. 8	78	29.9	June 3	82	6.53
Nov. 19	64	1.77	Oct. 5	78	25.8	July 8	80	2.77
Dec. 19	51	.60	Nov. 4	72	29.0	Aug. 12	95	.42
Feb. 7, 1951	61	.06	Feb. 9, 1961	65	37.1	Sept. 18	83	.27
Mar. 16	66	.30	Apr. 5	72	30.3	Oct. 21	76	.20
May 27, 1954	84	.87	May 11	75	27.3	Nov. 26	57	.37
Oct. 19	68	77.8	June 7	78	21.4	Jan. 3, 1964	42	.55
Oct. 19	71	38.8	Sept. 20	74	29.0	May 4, 1965	77	.46
Apr. 20, 1957	70	72.2	Oct. 16	78	40.3	Feb. 10, 1966	59	.10
Feb. 9, 1959	64	1.09	Mar. 5, 1962	67	40.5	Mar. 15	61	.90
Apr. 29	73	6.67	July 23	86	15.2	May 25	86	2.33
May 21	78	8.18						



NUECES RIVER BASIN

8-2055. Frio River near Derby, Tex.

Location.--Lat 28°44'10", long 99°08'45", at bridge on U. S Highway 81, 150 ft upstream from Missouri Pacific Railroad Co. bridge, 750 ft downstream from Leona River, and 2.4 miles south of Derby, Frio County.

Drainage area.--3,493 sq mi.

Remarks.--Part of flow of Frio River and its headwater tributaries enters Edwards and associated limestones in Balcones Fault Zone which crosses basin just north of Uvalde. At low-stages most of headwater flow enters this formation. Considerable losses of floodflows into various permeable formations occur downstream from the Balcones Fault Zone.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 22, 1949	88	2.60	Nov. 6, 1959	65	2.73	May 14, 1963	78	12.5
Aug. 17	83	1.72	Dec. 10	55	2.29	Mar. 21, 1964	60	66.4
Oct. 29	62	80.5	Jan. 14, 1960	62	2.76	Mar. 23	62	30.5
Sept. 11, 1953	79	17.9	Feb. 18	54	1.06	Oct. 2	75	339
July 4, 1956	77	2,000	Mar. 24	68	.89	Apr. 5, 1965	71	19.4
July 5	79	890	Dec. 22	51	3.20	Apr. 12	74	5.03
Mar. 8, 1958	64	587	Jan. 31, 1961	46	6.09	May 18	71	138
Apr. 8	69	44.5	Feb. 26	58	56.0	May 4, 1966	65	9.78
May 7	69	70.2	July 21	84	59.6	Aug. 15	78	2,420
Oct. 15	72	198	Sept. 27	76	.81	Aug. 15	78	4,170
Dec. 20	50	49.2	Nov. 3	68	11.8	Aug. 16	78	5,990
Feb. 4, 1959	50	6.58	Nov. 3	68	13.0	Aug. 17	79	1,250
Mar. 6	55	1.98	Jan. 12, 1962	41	12.3	Aug. 17	79	861
Apr. 15	59	11.4	Feb. 13	64	14.5	Aug. 18	80	473
July 23	83	81.2	Mar. 23	61	9.32	Aug. 19	82	214
Sept. 30	80	20.8	Apr. 26	70	41.1			

NUECES RIVER BASIN

8-2070. Frio River at Calliham, Tex.

Location.--Lat 28°29'30", long 98°20'45", at county bridge, 0.5 mile upstream from bridge on Farm Road 99, 1 mile north of Calliham, McMullen County, and 10.4 miles downstream from San Miguel Creek.

Drainage area.--5,491 sq mi.

Remarks.--Part of flow of Frio River and its headwater tributaries enters Edwards and associated limestones in Balcones Fault Zone which crosses basin just north of Uvalde. At low stages most of headwater flow enters this formation. Considerable losses of floodflows into various permeable formations occur downstream from the Balcones Fault Zone.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 11, 1950	88	26.4	June 17, 1954	90	1.28	Apr. 5, 1961	72	12.6
June 14	86	9.15	Oct. 21	78	1.01	May 9	82	1.67
July 20	89	2.25	Jan. 12, 1955	59	.70	July 19	83	14.3
Apr. 10, 1951	73	8.05	Feb. 17	65	1.67	Sept. 26	85	.40
May 15	77	220	May 3, 1956	68	666	Nov. 1	78	25.3
May 18	75	1,490	July 19	82	21.7	Jan. 11, 1962	43	14.0
May 20	77	1,670	Aug. 30	84	210	Feb. 13	70	13.8
May 21	78	4,450	Nov. 16	61	.46	Mar. 22	68	13.0
May 22	78	7,300	Oct. 4, 1957	76	39.7	Apr. 25	77	1.40
May 23	79	2,140	Mar. 21, 1958	62	252	July 2	88	4.07
May 23	81	740	Apr. 21	66	40.5	Sept. 13	83	3.75
May 25	74	4,840	Aug. 14	90	2.44	Jan. 30, 1963	48	.81
June 23	86	6.03	Sept. 15	85	28.5	May 15	79	143
Sept. 18	78	160	Oct. 14	76	336	June 22	85	249
Oct. 4	84	29.1	Nov. 21	64	285	Nov. 5	70	1.48
Oct. 8	77	19.1	Dec. 19	53	74.8	Jan. 14, 1964	38	.17
Oct. 8	77	18.1	Jan. 28, 1959	55	21.8	Mar. 26	67	13.7
Nov. 5	65	21.7	Apr. 8	78	5.08	June 4	77	9.26
Dec. 16	52	1.36	May 12	84	22.0	Aug. 12	87	83.0
Jan. 17, 1952	72	2.01	June 18	86	.81	Oct. 19	68	2.15
Feb. 21	65	.33	Aug. 26	84	.89	Nov. 25	58	3.81
Mar. 27	65	.30	Sept. 30	83	225	Dec. 30	63	.67
Apr. 30	77	4.84	Nov. 5	70	96.2	Feb. 3, 1965	54	5.82
June 10	83	116	Dec. 8	57	16.1	Apr. 14	78	39.6
June 11	82	74.0	Jan. 12, 1960	66	16.5	May 27	81	201
Mar. 6, 1953	68	.72	Feb. 17	57	11.4	June 2	82	147
June 3	85	1.89	Mar. 22	70	11.4	June 23	68	7.01
Sept. 24	82	18.0	June 1	83	9.86	Dec. 16	62	175
Dec. 14	54	3.27	July 5	88	17.5	Jan. 20, 1966	49	1.46
Jan. 14, 1954	54	3.37	Sept. 12	83	18.2	Feb. 25	53	2.53
Feb. 17	66	1.65	Dec. 21	51	20.7	Mar. 31	68	5.94
Mar. 24	80	1.50	Jan. 24, 1961	60	10.2	June 13	89	12.7
May 6	74	4.05	Mar. 1	64	74.3	July 14	88	3.65

NUECES RIVER BASIN

8-2060. Atascosa River at Whitsett, Tex.

Location.-- Lat 28°37'20", long 96°17'05", near bridge on Farm Road 99, 1.2 miles west of Whitsett, Live Oak County, and 3.8 miles downstream from LaParita Creek.

Drainage area.--1,171 sq mi.

Remarks.--Considerable losses of floodflows into various permeable formations occur upstream from station.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 21, 1950	83	12.2	Mar. 25, 1954	76	15.4	Dec. 20, 1960	58	33.0
Aug. 23	80	.32	May 6	77	13.6	Jan. 24, 1961	63	23.6
Sept. 26	73	.66	June 22	85	2.13	Mar. 2	64	21.8
Dec. 7	40	1.98	Oct. 21	76	9.86	Apr. 3	63	14.2
Jan. 13, 1951	61	5.65	Dec. 9	56	2.38	May 9	73	7.06
Jan. 25	45	4.80	Jan. 12, 1955	67	18.7	June 13	82	5.55
Feb. 8	53	5.44	Feb. 17	73	21.5	July 19	81	21.2
Mar. 14	52	7.29	Apr. 1	69	14.0	Sept. 26	76	3.65
Apr. 10	71	11.3	May 5	78	8.26	Jan. 11, 1962	39	18.8
Apr. 19	78	6.30	July 13	83	11.9	Feb. 13	70	15.9
Apr. 27	78	1.79	Aug. 24	81	7.96	Mar. 22	64	13.6
May 16	75	528	Dec. 15	58	10.5	Apr. 25	70	15.9
May 17	75	288	Jan. 18, 1956	56	14.2	July 2	82	9.30
May 17	75	140	Feb. 21	72	10.8	Sept. 13	80	11.2
May 24	74	1,050	Feb. 22	70	10.8	Nov. 21	56	3.13
May 25	75	1,500	Apr. 4	71	8.68	Dec. 28	56	16.5
May 25	75	2,290	May 3	74	14.2	Jan. 30, 1963	48	7.97
May 26	76	1,620	July 26	78	6.71	Mar. 6	67	6.62
June 23	86	3.04	Nov. 16	60	4.34	Apr. 12	79	3.29
Aug. 3	92	.24	May 9, 1957	76	55.1	May 15	79	1.46
Aug. 9	87	8.80	July 18	82	16.1	Aug. 29	80	6.28
Aug. 21	83	7.93	Aug. 21	83	19.3	Dec. 11	60	4.32
Aug. 23	83	7.87	Oct. 4	73	47.4	Jan. 14, 1964	38	4.87
Aug. 28	84	7.82	Nov. 5	75	16.9	Feb. 19	54	3.78
Aug. 30	84	7.60	Feb. 25, 1958	61	394	Mar. 26	62	8.82
Sept. 14	75	6,050	Mar. 20	61	47.6	Apr. 30	71	15.8
Oct. 5	81	12.3	Aug. 14	85	2.76	Aug. 12	83	23.8
Dec. 17	55	16.5	Sept. 16	80	16.6	Sept. 14	77	.86
Jan. 18, 1952	74	17.1	Nov. 22	64	33.1	Nov. 25	52	3.70
Mar. 27	70	11.1	Dec. 19	54	21.1	Dec. 29	64	4.28
June 10	82	8.29	Jan. 28, 1959	56	20.3	Feb. 3, 1965	52	3.73
June 10	84	6.14	Mar. 4	64	23.7	Mar. 10	70	5.70
Aug. 13	87	1.15	Apr. 9	66	14.7	Apr. 16	68	5.22
Oct. 3	77	6.71	May 14	78	20.2	May 24	73	143
Oct. 30	68	13.5	June 17	82	6.17	May 24	74	121
Dec. 9	68	16.3	July 21	82	2.26	May 25	76	103
Jan. 22, 1953	67	18.0	Aug. 26	78	2.85	May 27	78	67.3
Mar. 6	72	16.8	Sept. 29	84	2.03	June 25	83	10.4
Apr. 16	74	12.8	Nov. 6	67	21.1	July 30	82	2.00
June 2	82	7.77	Dec. 8	53	10.8	Sept. 2	79	.47
July 10	87	11.0	Jan. 12, 1960	68	14.0	Oct. 8	70	3.78
Aug. 6	86	8.86	Feb. 16	56	12.1	Nov. 11	62	12.6
Sept. 8	70	112	Mar. 23	70	10.2	Dec. 17	58	82.9
Sept. 24	75	16.3	Apr. 27	74	14.3	Jan. 21, 1966	46	9.75
Nov. 7	68	12.9	May 30	81	4.83	Feb. 25	49	6.46
Dec. 14	50	10.7	Aug. 9	84	6.35	Mar. 31	62	5.08
Jan. 14, 1954	55	10.5	Sept. 12	82	8.32	June 13	81	2.56
Feb. 23	70	15.8						

NUECES RIVER BASIN

8-2100. Nueces River near Three Rivers, Tex.

Location.--Lat 28°26'10", long 96°11'10", at San Antonio, Uvalde & Gulf (Missouri Pacific) Railroad bridge, half a mile downstream from Frio River, and 2 miles south of Three Rivers, Live Oak County.

Drainage area.--15,600 sq mi.

Water-temperature records available.--Once-daily readings from October 1950 to September 1952. Temperature readings at irregular intervals for the period 1945-56 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	Mean	72	-	-	-	-	71	70	76	82	82	85	81
	Max.-Min.	82 65	- -	- -	- -	- -	80 60	78 60	82 64	84 72	84 80	86 84	86 74
1952	Mean	74	61	66	61	63	62	68	72	80	81	82	76
	Max.-Min.	86 68	68 54	66 57	70 52	68 52	68 58	76 60	80 68	86 74	84 80	90 78	81 72
1951-52	Mean	73	61	66	61	63	66	69	74	81	82	84	78
	Max.-Min.	86 65	68 54	66 50	70 52	68 52	80 58	78 60	82 64	86 72	84 80	90 78	86 72

NUECES RIVER BASIN

8-2110. Nueces River near Mathis, Tex.

Location.--Lat 28°02'17", long 97°51'36", at bridge on State Highway 359, 200 ft downstream from Texas and New Orleans Railroad Co. bridge, 0.6 mile downstream from Wesley E. Seale Dam, and 4 miles southwest of Mathis, San Patricio County.

Drainage area.--16,660 sq mi.

Water temperature records available.--Once-daily readings from October 1947 to September 1964 and October 1965 to September 1966.

Remarks.--Flow largely regulated by Lake Corpus Christi.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1948	Mean	79	67	60	52	55	64	75	-	83	84	84	81
	Max.-Min.	83 72	76 60	69 54	63 38	65 43	74 50	80 64	- -	87 80	94 82	88 80	86 76
1949	Mean	74	66	64	56	58	67	70	80	85	88	86	84
	Max.-Min.	79 66	73 60	71 57	66 44	68 44	75 59	77 61	82 77	90 81	91 85	89 81	87 77
1950	Mean	77	67	64	64	65	66	71	80	84	84	84	84
	Max.-Min.	83 64	70 63	71 58	69 56	68 58	77 59	77 68	83 77	85 82	86 81	86 82	86 81
1951	Mean	78	66	59	60	57	67	72	79	83	85	-	83
	Max.-Min.	83 73	77 59	67 54	64 56	67 44	75 59	79 68	82 76	86 78	86 84	- -	86 77
1952	Mean	79	67	63	66	64	66	73	77	81	85	85	83
	Max.-Min.	85 71	74 60	71 55	71 58	68 61	73 62	79 67	81 72	- -	86 82	89 84	90 78
1953	Mean	74	67	59	60	62	71	74	78	85	85	84	81
	Max.-Min.	85 68	75 54	68 53	63 54	68 53	82 60	79 69	83 71	88 83	86 84	87 80	84 78
1954	Mean	76	66	57	58	64	64	75	75	80	84	84	82
	Max.-Min.	82 69	69 61	67 46	64 52	68 60	64 53	78 68	79 68	84 78	85 82	84 81	83 81
1955	Mean	77	64	60	58	67	71	71	78	81	83	83	81
	Max.-Min.	82 70	68 62	64 55	65 53	64 51	74 58	77 62	80 77	84 79	84 82	84 82	83 78
1956	Mean	75	64	56	57	70	65	70	80	83	83	85	83
	Max.-Min.	82 68	69 54	60 50	63 50	70 59 46	70 58	74 67	85 74	86 81	84 82	86 81	87 79
1957	Mean	77	64	60	57	65	65	70	77	83	86	85	80
	Max.-Min.	82 70	74 56	63 56	64 50	69 58	69 62	75 64	81 72	86 78	90 84	88 84	88 69
1958	Mean	72	63	58	53	55	60	70	79	85	84	84	83
	Max.-Min.	76 63	72 55	65 52	59 48	62 50	62 57	81 63	83 76	92 79	86 84	86 83	85 80
1959	Mean	76	67	60	53	56	62	68	78	85	85	84	83
	Max.-Min.	78 66	78 63	65 57	59 48	63 50	67 60	73 62	85 71	87 82	90 83	91 79	84 80
1960	Mean	77	63	59	58	-	-	-	77	84	84	84	82
	Max.-Min.	86 71	82 55	64 56	65 55	- -	- -	- -	80 73	87 82	86 83	86 83	85 80
1961	Mean	77	70	59	54	56	66	71	79	82	85	84	82
	Max.-Min.	83 74	77 66	65 53	60 50	62 52	72 60	83 66	83 77	91 79	90 83	85 83	84 80
1962	Mean	77	66	61	52	61	64	72	79	83	86	86	85
	Max.-Min.	79 74	73 63	65 58	58 46	70 54	68 59	78 65	83 77	86 76	89 83	88 82	87 80
1963	Mean	81	68	60	53	56	66	78	81	85	86	88	85
	Max.-Min.	84 72	78 63	66 55	59 46	58 52	73 58	84 72	84 76	87 82	88 84	88 87	89 82
1964	Mean	81	72	58	56	60	-	-	82	86	90	92	90
	Max.-Min.	85 77	76 64	66 50	64 51	64 57	- -	- -	84 80	88 83	91 85	96 89	92 88
1966	Mean	78	77	69	61	60	68	76	82	87	89	90	89
	Max.-Min.	84 76	80 75	74 66	68 55	64 56	74 64	82 71	88 77	89 86	92 87	92 88	91 87
1948-64	Mean	77	67	60	57	59	66	72	79	84	85	85	83
	Max.-Min.	85 63	82 54	74 46	71 36	70 43	82 50	84 61	88 68	92 76	94 81	96 79	92 69

RIO GRANDE BASIN

8-4101. Pecos River below Red Bluff Dam, near Orla, Tex.

Location.--Lat 31°54', long 103°55', just below Red Bluff Dam on Pecos River, 3 miles upstream from Salt (Screwbean) Draw, 4.5 miles north of Orla, Reeves County, and 14 miles upstream from gaging station near Orla.

Drainage area.--20,720 sq mi, approximately (contributing area).

Water-temperature records available.--Once-daily readings from March 1953 to September 1966. Temperature readings at irregular intervals for the period 1948-56 at the gaging station near Orla are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1953	Mean	- -	- -	- -	- -	- -	- -	60	62	69	78	78	74
	Max.-Min.	- -	- -	- -	- -	- -	- -	63 56	64 60	75 65	79 76	79 76	77 72
1954	Mean	70	63	46	44	51	53	60	64	70	80	80	76
	Max.-Min.	74 67	67 55	56 40	47 41	54 48	57 50	64 57	70 62	76 64	80 76	80 76	78 72
1955	Mean	- -	60	55	48	48	52	60	66	72	78	80	76
	Max.-Min.	- -	66 57	58 50	50 46	50 48	55 49	63 56	69 58	74 69	79 75	80 76	78 74
1956	Mean	74	60	47	48	44	51	59	64	74	78	79	73
	Max.-Min.	76 70	70 54	55 48	49 47	47 40	56 46	61 56	70 60	78 70	80 78	79 76	76 71
1957	Mean	69	52	47	46	53	55	67	71	72	80	80	74
	Max.-Min.	73 59	59 46	49 43	50 44	56 45	59 51	62 55	71 61	77 68	80 76	80 74	79 70
1958	Mean	67	56	49	45	47	51	58	68	73	78	79	78
	Max.-Min.	72 59	59 50	50 48	49 43	50 46	55 48	65 51	73 63	77 70	80 75	81 78	80 74
1959	Mean	70	60	51	45	48	51	61	69	76	76	79	76
	Max.-Min.	72 66	66 55	55 47	47 44	50 45	55 49	60 56	63 60	74 52	78 74	79 78	79 73
1960	Mean	66	57	50	47	48	51	66	72	77	77	77	76
	Max.-Min.	74 63	62 52	52 48	50 45	49 46	57 46	64 55	70 63	75 69	78 74	77 77	76 73
1961	Mean	69	60	48	45	- -	- -	62	65	72	76	78	74
	Max.-Min.	74 63	65 54	54 45	46 45	- -	- -	62 55	69 56	74 70	77 75	78 76	77 72
1962	Mean	67	54	50	- -	- -	53	66	73	78	79	80	75
	Max.-Min.	72 64	62 50	52 49	- -	- -	54 51	69 62	76 70	79 76	80 77	77 72	- -
1963	Mean	68	- -	- -	40	48	- -	61	- -	- -	- -	- -	- -
	Max.-Min.	72 62	- -	- -	43 38	50 44	- -	65 58	- -	- -	- -	- -	- -
1966	Mean	- -	- -	- -	- -	- -	- -	- -	- -	- -	75	- -	- -
	Max.-Min.	- -	- -	- -	- -	- -	- -	- -	- -	- -	79 70	- -	- -
1953-66	Mean	69	58	50	45	48	52	65	65	72	77	78	75
	Max.-Min.	76 59	70 46	58 40	50 38	56 40	59 46	65 51	73 56	78 52	80 70	81 74	80 70

RIO GRANDE BASIN

S-4255. Phantom Lake Spring near Toyahvale, Tex.

Location.--Lat 30°56'00", long 103°50' 40", outlet canal 375 ft below source of spring, 3.5 miles southwest of Toyahvale, Reeves County, and 7.0 miles southwest of Balmorhea.

Remarks.--Discharge represents total flow of spring. There has been no significant development of ground water from wells in vicinity of spring, and the low flow since 1956 appears to be the result of reduction of recharge to the contributing ground-water reservoir.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 6, 1948	79	14.6	July 27, 1954	74	13.5	Sept. 12, 1960	77	14.9
Jan. 10, 1949	77	13.9	Aug. 30	78	13.4	Oct. 10	77	12.8
Feb. 11	73	14.2	Nov. 19	76	12.4	Nov. 16	76	10.4
Mar. 13	77	13.8	Mar. 23, 1955	77	13.5	Dec. 28	76	11.9
Apr. 12	77	13.7	Apr. 16	78	12.0	Feb. 1, 1961	76	11.4
May 9	77	13.3	May 16	78	12.4	May 16	76	11.1
June 28	78	14.8	June 14	78	11.9	June 13	75	9.76
July 27	78	16.0	July 12	77	12.8	Aug. 8	78	11.2
Aug. 23	77	14.8	Aug. 17	77	14.0	Nov. 20	76	10.0
Oct. 4	76	14.3	Oct. 7	71	16.0	Dec. 18	76	10.1
Nov. 17	77	14.9	Jan. 5, 1956	77	13.1	Jan. 17, 1962	76	10.3
Dec. 15	77	13.9	Feb. 14	70	12.9	Feb. 20	76	9.06
Jan. 17, 1950	77	13.7	Mar. 21	78	13.1	Mar. 28	76	9.86
Feb. 14	76	14.4	May 10	76	12.3	May 1	76	9.69
Mar. 12	77	14.5	June 5	77	10.6	June 4	76	8.77
Apr. 12	77	14.6	July 11	78	12.0	July 10	74	10.2
May 15	77	13.2	Aug. 9	78	12.4	Aug. 8	78	10.4
July 12	78	14.2	Sept. 14	77	11.5	Sept. 19	77	9.75
Aug. 14	77	15.9	Oct. 10	77	12.2	Oct. 17	77	9.15
Sept. 14	77	16.8	Nov. 29	77	12.0	Nov. 20	77	9.15
Oct. 10	76	26.7	Jan. 9, 1957	76	10.3	Feb. 4, 1963	78	9.08
Nov. 14	77	15.9	Feb. 20	76	10.3	May 21	78	8.60
Dec. 12	77	15.3	Apr. 4	74	11.5	Aug. 27	78	8.75
Jan. 19, 1951	77	14.8	July 11	77	10.6	Oct. 1	77	10.5
Feb. 21	77	14.6	Aug. 5	77	11.6	Nov. 6	77	9.42
Mar. 21	77	14.8	Sept. 10	77	10.4	Dec. 10	77	9.47
Apr. 23	78	14.3	Nov. 11	76	11.3	Jan. 6, 1964	76	9.42
May 11	77	14.3	Dec. 9	73	11.4	Feb. 4	76	9.26
June 13	77	14.0	Jan. 7, 1958	73	11.0	Mar. 10	75	8.74
July 20	77	14.5	Feb. 19	78	10.6	Apr. 9	75	8.68
Sept. 11	77	13.6	Mar. 18	78	10.9	May 13	77	8.00
Oct. 4	76	14.3	Apr. 7	78	10.7	June 17	77	8.19
Nov. 15	78	14.4	May 6	78	11.3	July 22	78	7.42
Dec. 12	77	13.9	June 10	78	11.3	Aug. 24	78	7.55
Jan. 18, 1952	77	13.4	July 9	78	11.1	Oct. 7	76	8.37
Feb. 18	74	12.8	Aug. 5	78	11.5	Nov. 10	76	7.30
Mar. 25	77	12.6	Sept. 9	77	11.9	Dec. 15	76	7.05
Apr. 22	77	13.2	Nov. 11	77	24.8	Jan. 19, 1965	77	7.36
May 20	76	13.2	Dec. 16	77	12.6	Mar. 2	77	7.77
June 19	78	13.2	Jan. 20, 1959	77	12.6	Apr. 8	77	8.05
July 25	77	22.8	Feb. 24	77	11.5	May 13	77	7.45
Oct. 14	77	12.0	Mar. 24	78	11.5	July 16	78	7.46
Nov. 12	75	13.0	Mar. 30	78	10.5	Aug. 18	76	7.14
Dec. 10	77	13.4	Apr. 22	78	11.6	Sept. 29	75	7.38
Feb. 18, 1953	75	14.4	Aug. 4	77	11.2	Nov. 3	75	6.94
May 20	77	13.0	Sept. 10	76	11.1	Dec. 9	74	6.82
June 24	78	12.9	Oct. 23	76	10.3	Feb. 24, 1966	75	7.24
Oct. 15	76	12.1	Nov. 30	76	11.1	Mar. 31	69	6.89
Nov. 18	77	12.3	Jan. 12, 1960	75	11.0	May 5	71	6.28
Dec. 16	76	13.4	Feb. 17	76	10.6	June 8	78	6.65
Mar. 4, 1954	77	11.6	Mar. 21	75	10.6	July 15	78	6.49
Apr. 26	77	12.6	Apr. 26	77	9.78	Aug. 18	79	6.66
May 27	77	12.8	June 6	77	10.3	Sept. 21	76	16.2
June 17	77	12.0	Aug. 10	76	11.2			

RIO GRANITE BASIN

8-4275. San Solomon Springs at Toyahvale, Tex.

Location.--lat 30°56'40", long 103°47'10", South Canal at Toyahvale, Reeves County, 340 ft downstream from spring pool.

Remarks.--Discharge represents total flow of springs and is determined by combining flows in South Canal and two additional outlets, Middle and Worth Canals. There has been no significant development of ground water from wells in vicinity of the spring.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 12, 1950	76	29.0	May 16, 1955	76	28.3	July 9, 1960	78	34.7
Apr. 12	76	27.0	June 14	75	31.1	Sept. 12	78	30.5
May 15	77	31.3	July 12	79	32.1	Nov. 16	76	30.5
July 12	77	31.1	Jan. 5, 1956	77	27.0	Dec. 28	74	37.6
Aug. 14	77	28.6	Feb. 14	75	30.9	Apr. 18, 1961	76	22.7
Sept. 14	78	34.5	Mar. 21	77	31.1	May 16	76	29.3
Oct. 10	76	32.6	May 10	78	31.6	Nov. 20	76	28.2
Nov. 14	75	30.6	July 11	77	33.6	Dec. 18	76	3.85
Dec. 12	75	31.0	Aug. 9	78	32.6	Jan. 17, 1962	76	20.8
Jan. 19, 1951	75	29.2	Nov. 29	75	30.1	Feb. 20	77	5.46
Feb. 21	75	29.9	Feb. 20, 1957	75	27.8	June 4	77	31.6
Mar. 21	76	29.6	Apr. 4	73	29.7	Sept. 19	78	27.4
Apr. 23	77	26.6	July 11	77	29.0	Feb. 5, 1963	77	30.4
June 13	76	31.3	Sept. 10	76	26.1	Apr. 9	76	31.3
July 20	76	27.8	Nov. 11	75	28.5	May 21	77	29.6
Oct. 4	78	30.7	Dec. 9	73	24.9	July 22	78	27.2
Nov. 15	78	31.5	Jan. 7, 1958	72	26.8	Aug. 27	78	28.9
Dec. 12	74	29.6	Feb. 19	76	27.4	Nov. 6	78	27.1
Jan. 18, 1952	76	30.1	Mar. 18	77	18.9	Dec. 10	75	29.5
Mar. 25	74	30.6	Apr. 7	78	--	Jan. 7, 1964	77	29.0
Apr. 22	76	30.5	May 6	77	23.1	Mar. 10	72	27.0
May 20	74	30.4	June 10	77	24.9	Apr. 9	73	23.7
June 19	77	26.8	July 9	77	26.9	May 13	78	27.8
July 25	75	41.6	Aug. 5	77	31.1	June 17	77	27.3
Oct. 14	76	33.1	Sept. 9	77	33.4	Aug. 24	77	30.8
Nov. 12	75	30.2	Sept. 30	75	43.0	Oct. 7	75	30.4
Dec. 10	72	30.2	Nov. 11	76	34.2	Nov. 10	75	30.8
Feb. 18, 1953	75	30.2	Dec. 16	76	28.5	Dec. 15	75	26.5
Apr. 8	76	29.7	Jan. 20, 1959	77	31.6	July 16, 1965	76	22.1
May 20	76	29.6	Feb. 24	76	29.7	Aug. 18	77	25.1
June 24	76	30.2	Mar. 30	78	28.8	Sept. 29	70	28.3
July 30	77	30.6	Apr. 22	78	31.1	Nov. 3	75	26.5
Nov. 18	75	29.6	May 18	78	30.5	Dec. 9	75	25.9
Dec. 16	74	30.2	Aug. 4	76	31.8	Jan. 12, 1966	75	25.7
Mar. 4, 1954	76	30.2	Sept. 10	77	27.3	Feb. 24	74	24.8
Apr. 26	78	29.7	Oct. 23	77	30.7	Mar. 31	67	27.4
May 27	75	32.2	Nov. 30	77	30.7	May 5	68	26.2
June 17	77	31.6	Jan. 13, 1960	75	30.25	June 8	76	24.4
July 27	77	33.2	Feb. 17	76	31.5	July 15	76	23.2
Aug. 30	78	38.0	Mar. 23	76	29.5	Aug. 18	77	23.6
Mar. 12, 1955	76	33.4	Apr. 26	77	23.8	Sept. 21	75	37.1
Apr. 16	76	26.8	June 6	78	27.7			

RIO GRANITE BASIN

8-4318. Limpia Creek below Fort Davis, Tex.

Location.--lat 30°40'50", long 103°47'30", at bridge on State Highway 17, 0.7 mile upstream from Frazier Canyon, and 9 miles northeast of Fort Davis, Jeff Davis County.

Drainage area.--227 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 9, 1963	82	6.03	Jan. 7, 1964	40	1.40	May 18, 1965	60	9.92
Aug. 27	83	.38	Feb. 4	46	.86	May 19	65	3.02
Sept. 4	76	98.1	Mar. 10	57	.59	July 11	66	1.22
Sept. 5	70	32.0	Apr. 9	63	.23	Aug. 18	82	1.73
Oct. 1	75	.51	June 17	79	.33	Sept. 12	72	128
Nov. 6	67	1.05	Aug. 24	86	.68	Sept. 21	81	13.6
Dec. 10	54	1.23	May 13	72	38.6			

RIO GRANDE BASIN

8-4465. Pecos River near Girvin, Tex.

Location.--Lat 31°06'35", long 102°25'00", 2.4 miles upstream from Comanche Creek, 2.6 miles northwest of Girvin, Pecos County, and 7.8 miles upstream from bridge on U. S. Highway 67.

Drainage area.--29,560 sq mi, approximately (contributing area of supplementary gage 7.8 miles downstream).

Water-temperature records available.--Once-daily readings from October 1953 to January 1959 and March 1964 to September 1966. Temperature readings at irregular intervals for the period 1948-66 are on file in the district office at Austin.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1954	Mean	-	59	47	53	59	61	75	77	85	87	87	83
	Max.-Min.	- -	67 49	60 41	63 43	66 51	73 47	84 66	84 71	93 80	91 81	89 85	88 74
1955	Mean	73	60	53	51	53	67	80	82	89	87	88	80
	Max.-Min.	85 64	65 56	61 42	60 45	65 41	75 54	80 59	82 68	89 74	87 76	88 78	84 77
1956	Mean	68	59	55	49	52	61	66	81	82	82	89	84
	Max.-Min.	82 63	67 42	65 44	60 42	68 38	68 53	82 55	86 77	87 73	89 73	89 75	84 72
1957	Mean	71	54	52	53	62	64	67	-	92	-	-	75
	Max.-Min.	80 60	65 40	60 40	62 42	69 51	70 51	77 57	- -	92 70	- -	- -	82 65
1958	Mean	68	56	53	52	52	58	71	-	83	82	86	77
	Max.-Min.	80 54	68 47	60 48	60 46	58 43	72 50	83 61	- -	89 76	89 72	92 80	84 70
1959	Mean	72	62	51	-	-	-	-	-	-	-	-	-
	Max.-Min.	80 58	70 55	65 40	- -	- -	- -	- -	- -	- -	- -	- -	- -
1964	Mean	-	-	-	-	-	63	74	79	82	84	84	79
	Max.-Min.	- -	- -	- -	- -	- -	73 55	84 60	86 70	90 70	89 79	94 75	89 70
1965	Mean	72	63	52	56	53	60	77	78	81	85	83	80
	Max.-Min.	80 64	74 46	61 41	70 49	65 46	71 48	82 65	85 65	86 70	93 75	89 70	85 68
1966	Mean	71	69	57	51	55	67	74	78	82	86	84	81
	Max.-Min.	77 65	70 55	62 48	63 42	66 45	76 47	84 63	90 63	89 72	94 78	92 71	90 73
1954-59 1964-66	Mean	71	59	52	52	55	62	71	75	82	84	84	79
	Max.-Min.	85 54	74 40	65 40	70 42	69 38	76 47	84 55	90 63	93 70	94 72	94 70	90 65

RIO GRANDE BASIN

8-4490. Devils River near Juno, Tex.

Location.--Lat 29°57'50", long 101°08'40", 500 ft downstream from Walter Baker ranchouse, 2 miles upstream from Phillips Creek, and 13.5 miles southwest of Juno, Val Verde County.

Drainage area.--2,730 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 5, 1949	67	107	May 22, 1956	75	38.1	Nov. 20, 1961	57	63.9
Apr. 12	71	67.8	Aug. 14	82	32.3	May 10, 1962	78	42.9
May 22	77	144	Nov. 2	64	31.2	Oct. 1	74	50.9
June 24	83	121	Jan. 16, 1957	52	24.8	Jan. 9, 1963	62	57.5
July 29	80	175	June 26	78	148	Oct. 4	78	43.0
Aug. 13	80	189	Sept. 5	61	117	Mar. 4	57	37.0
Sept. 22	79	129	Nov. 13	64	132	May 4	78	30.6
Nov. 7	67	133	Jan. 28, 1958	63	109	July 16	63	23.3
Sept. 8, 1952	79	33.1	Apr. 2	71	109	Nov. 4, 1964	66	118
Aug. 22, 1953	82	33.7	July 16	75	133	Jan. 21, 1965	63	94.2
Mar. 31, 1954	71	35.9	Sept. 30	75	244	Apr. 14	71	68.3
July 28	84	132	Dec. 3	64	138	July 8	76	93.5
Oct. 16	73	96.3	Feb. 10, 1959	67	114	Sept. 23	77	77.1
Jan. 5, 1955	58	70.3	July 6	83	100	Dec. 6	69	61.5
Jan. 9	58	82.3	Sept. 9	74	106	Jan. 4, 1966	56	60.3
Mar. 24	65	66.4	Nov. 10	58	121	Mar. 16	56	44.3
June 8	84	51.3	Aug. 2, 1960	84	68.9	Apr. 27	76	42.1
Aug. 18	80	69.9	Oct. 4	76	75.8	June 8	75	43.1
Oct. 25	68	89.7	Feb. 7, 1961	50	66.6	Aug. 1	84	34.8
Mar. 13, 1956	60	57.1	May 9	74	47.3			

RIO GRANDE BASIN

8-4563. Las Moras Springs at Brackettville, Tex.

Location.--Lat 29°18', long 100°25', in spring pool at Brackettville, 160 ft south of U. S. Highway 90, and 1,550 ft above bridge on Brackettville Fort Clark road.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 8, 1957	76	9.84	Aug. 28, 1962	73	6.48	Aug. 27, 1965	75	26.1
Nov. 13	74	35.5	Nov. 6	74	7.47	Sept. 16	75	27.6
Dec. 18	73	21.1	Dec. 10	72	11.8	Sept. 20	76	24.6
Jan. 28, 1958	73	26.2	Jan. 15, 1963	70	6.69	Sept. 29	75	28.0
Mar. 6	71	48.7	Feb. 19	72	11.8	Oct. 22	74	20.2
Apr. 2	71	48.6	Mar. 26	71	7.05	Oct. 27	73	19.8
May 14	72	42.8	Apr. 30	72	6.03	Nov. 12	74	16.3
June 25	74	61.3	June 5	72	19.0	Nov. 22	75	16.2
July 16	75	50.4	July 9	73	5.63	Dec. 1	72	13.9
Aug. 28	72	51.2	Aug. 13	71	3.56	Dec. 14	72	17.3
Oct. 1	74	60.7	Sept. 18	72	4.10	Jan. 5, 1966	72	15.8
Dec. 3	74	58.9	Oct. 22	73	3.48	Jan. 6	72	12.7
Jan. 6, 1959	70	60.4	Nov. 26	70	6.34	Jan. 26	71	11.6
Mar. 19	70	42.2	Jan. 2, 1964	72	8.23	Feb. 8	75	13.2
May 1	69	36.9	Feb. 4	72	8.18	Feb. 14	70	11.4
May 22	74	34.8	Mar. 9	71	8.14	Feb. 28	72	10.8
Aug. 4	75	49.1	Apr. 14	71	8.67	Mar. 14	72	8.66
Sept. 8	75	48.5	May 19	72	7.54	Mar. 15	72	9.72
Nov. 9	70	51.1	June 19	78	2.56	Mar. 28	72	7.84
Dec. 8	72	45.6	Oct. 7	74	49.8	Apr. 13	72	5.30
July 6, 1960	74	17.1	Nov. 11	70	40.7	Apr. 20	79	6.24
Sept. 7	75	36.9	Jan. 19, 1965	69	21.5	May 11	72	35.4
Dec. 6	73	38.7	Feb. 24	69	17.2	May 25	74	38.4
May 10, 1961	70	18.0	Mar. 30	71	10.2	May 26	73	31.4
June 6	73	15.2	May 4	72	10.5	June 16	73	18.8
July 12	75	21.5	June 8	72	26.0	June 28	74	16.0
Aug. 16	74	36.9	June 25	74	43.7	June 29	74	17.1
Sept. 19	74	37.1	July 13	73	32.8	July 22	74	4.09
Oct. 17	72	32.1	July 26	74	36.3	Sept. 8	74	38.4
June 19, 1962	76	10.0	Aug. 13	74	34.8	Sept. 22	74	36.5
July 24	74	21.8	Aug. 18	75	31.9			



In general, no figures are given unless daily observations are available for 80 percent of the month. These records are then summarized for each month for the period of record. If records were obtained before and after the construction of a reservoir immediately upstream, period of record averages and extremes are computed for both times to show the effect of the reservoir. Temperature is reported in degrees Fahrenheit. Effective October 1, 1967, the Geological Survey will report water temperatures in metric units. Conversion from Fahrenheit (F) to Celsius (C) is shown in Table 1. The Celsius (C) scale is equivalent to the Centigrade (C) scale.

Individual temperatures, as well as the measured stream discharges, are shown for those observations made at irregular intervals. The sites with less than 20 temperature readings are omitted from this report because of the limited value of the data.

Reservoir studies to determine chemical quality and stratification have been made at Sam Rayburn, Possum Kingdom, Whitney, Belton, Proctor, Texoma, and Red Bluff Reservoirs. Studies for the determination of evaporation by the energy-budget method have been made in small reservoirs in the Trinity and Colorado River basins. The temperature profiles defined in connection with these studies are in the open files of the U.S. Geological Survey at Austin.

Table 1.--Temperature conversion table.

°F	°C	°F	°C	°F	°C	°F	°C
32	0	55	13	78	26	101	38
33	1	56	13	79	26	102	39
34	1	57	14	80	27	103	39
35	2	58	14	81	27	104	40
36	2	59	15	82	28	105	41
37	3	60	16	83	28	106	41
38	3	61	16	84	29	107	42
39	4	62	17	85	29	108	42
40	4	63	17	86	30	109	43
41	5	64	18	87	31	110	43
42	6	65	18	88	31	111	44
43	6	66	19	89	32	112	44
44	7	67	19	90	32	113	45
45	7	68	20	91	33	114	46
46	8	69	21	92	33	115	46
47	8	70	21	93	34	116	47
48	9	71	22	94	34	117	47
49	9	72	22	95	35	118	48
50	10	73	23	96	36	119	48
51	11	74	23	97	36	120	49
52	11	75	24	98	37	121	49
53	12	76	24	99	37	122	50
54	12	77	25	100	38		

