Water-Data Report 2012

07369500 Tensas River at Tendal, LA

Boeuf-Tensas Basin
Tensas Subbasin

LOCATION.--Lat 32°25′55″, long 91°22′00″ referenced to North American Datum of 1927, in NW ¼ sec.29, T.17 N., R.11 E., Madison Parish, LA, Hydrologic Unit 08050003, near right bank on upstream side of bridge on U.S. Highway 80 at Tendal, 200 ft upstream from Illinois Central Gulf Railroad bridge, and 2.8 mi east of Waverly.

DRAINAGE AREA.--309.00 mi^2, (see REMARKS).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1935 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 50.07 ft above NGVD of 1929. Prior to July 11, 1944, nonrecording gage at site 1,000 ft upstream at same datum. July 11, 1944 to Sept. 14, 1954, nonrecording gage at same site and datum. Water-stage recorder for Tensas River southeast of Tendal (07369515) used as auxiliary gage for this station since Oct. 1, 1957. See WSP 1711 and 1731 for history of changes prior to Oct. 1, 1957.

COOPERATION.--Corps of Engineers, Vicksburg District.

REMARKS.--Records fair except for periods of estimated daily discharge, which are poor. Small diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Satellite telemetry at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--77 years (water years 1936 to current), 351 ft^3/s, 254,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,610 ft^3/s, Nov. 19, 1948; maximum gage height, 27.21 ft, May 5, 1991; minimum discharge, 1.1 ft^3/s, Sep. 20, 2000 and Oct. 26, 2010, but may have been less during period of indefinite stage-discharge relationship in October 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 15, 1927 (affected by overflow from Mississippi River) reached a stage of 34.02 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,880 ft^3/s, Dec. 27, gage height, 20.82 ft; maximum gage height, 20.88 ft, Dec. 27; minimum discharge, 1.3 ft^3/s, Nov. 8, gage height, 5.21 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	65	2.1	60	1,040	238	157	256	17	53	30	25	855
2	59	2.0	41	858	181	122	216	17	80	33	23	786
3	47	2.0	28	726	371	111	177	72	77	29	19	650
4	33	2.3	20	621	1,110	118	157	91	61	28	15	525
5	20	2.0	36	533	1,500	99	177	51	53	32	16	428
6	12	1.9	186	454	1,560	79	242	32	52	39	17	349
7	8.3	2.0	318	386	1,420	63	259	28	53	36	17	e288
8	5.4	1.9	296	326	e1,190	51	236	49	50	35	17	241
9	3.9	5.1	241	295	e990	544	207	154	38	33	17	200
10	e3.3	3.9	191	e422	e845	1,030	178	136	35	34	53	156
11	e3.1	3.6	150	e471	e723	980	150	102	44	64	46	118
12	e3.2	8.7	117	e432	e612	1,460	122	99	171	284	31	86
13	e3.4	9.7	88	e359	e512	1,670	95	193	568	593	23	56
14	e3.1	9.2	60	e299	e463	1,580	71	192	680	628	16	43
15	e3.0	6.4	39	250	434	1,370	53	109	593	548	11	37
16	e3.0	5.7	51	207	762	1,140	45	57	494	565	7.5	26
17	e2.9	4.3	199	176	822	954	124	32	e405	610	5.2	60
18	e2.9	3.6	234	216	781	816	436	21	338	500	4.7	420
19	e2.7	3.2	160	227	1,170	704	e429	17	278	388	14	700
20	2.4	3.0	105	145	1,230	611	308	16	222	307	82	631
21	2.3	2.6	88	90	993	662	231	13	178	240	59	488
22	2.1	4.4	e410	58	758	1,140	166	19	142	185	37	e361
23	2.0	6.3	e1,140	42	600	1,180	118	20	115	144	23	e273
24	2.1	27	1,260	34	505	980	81	20	87	113	14	206
25	2.0	35	1,290	44	421	784	53	33	66	81	10	144
26	2.0	31	1,590	498	349	643	38	39	51	56	9.8	96
27	2.5	42	1,870	796	292	540	29	40	43	36	14	58
28	3.0	83	1,800	641	246	458	25	36	36	28	17	32
29	2.6	98	1,690	485	203	388	22	33	33	30	14	28
30	2.3	80	1,520	e384	---	334	19	35	28	31	129	522
31	2.2	---	1,270	e307	---	294	---	39	---	28	616	---
Total	311.7	491.9	16,548	11,822	21,281	21,062	4,720	1,812	5,124	5,788	1,402.2	8,863
Mean	10.1	16.4	534	381	734	679	157	58.5	171	187	45.2	295
Max	65	98	1,870	1,040	1,560	1,670	436	193	680	628	616	855
Min	2.0	1.9	20	34	181	51	19	13	28	28	4.7	26
Ac-ft	618	976	32,820	23,450	42,210	41,780	9,360	3,590	10,160	11,480	2,780	17,580

	Calendar Year 2011	Water Year 2012
Total	76,992.5	99,225.8
Mean	211	271
Max	1,920	1,870
Min	1.9	1.9
Ac-ft	152,700	196,800

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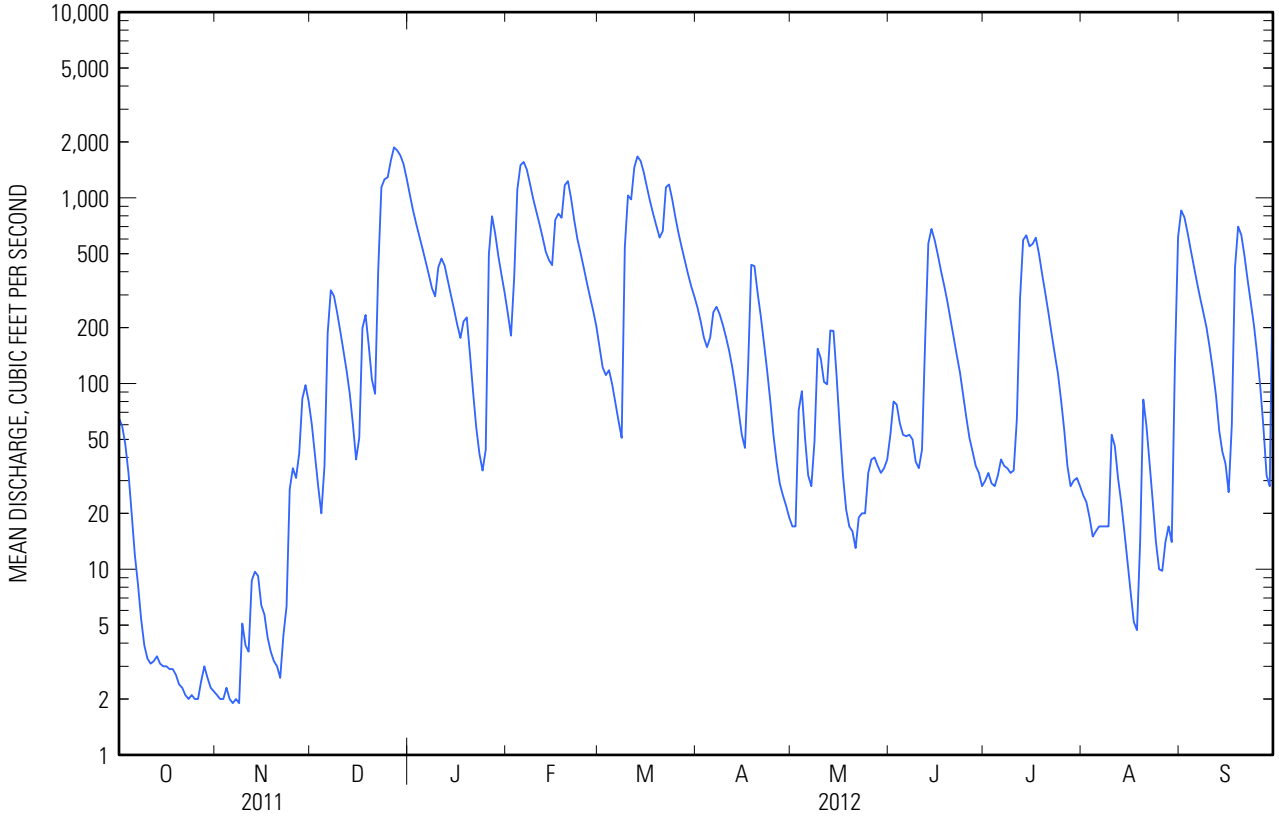

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.65	5.28	6.59	17.80	9.30	8.10	9.43	5.69	6.47	6.15	6.02	15.77
2	6.55	5.27	6.24	16.79	8.41	7.60	8.85	5.68	6.94	6.21	5.98	15.63
3	6.34	5.28	5.94	15.80	10.31	7.44	8.36	6.76	6.89	6.11	5.87	14.80
4	6.04	5.29	5.75	14.82	16.31	7.55	8.10	7.10	6.61	6.11	5.80	13.76
5	5.77	5.27	6.08	13.85	18.70	7.24	8.36	6.43	6.47	6.19	5.80	12.69
6	5.58	5.27	8.41	12.84	19.21	6.92	9.16	6.04	6.46	6.33	5.84	11.59
7	5.48	5.27	10.0	11.83	18.82	6.64	9.35	5.95	6.48	6.27	5.83	e10.58
8	5.41	5.26	9.76	10.86	17.89	6.44	9.09	6.38	6.41	6.25	5.83	9.71
9	5.36	5.41	9.15	10.17	16.86	11.84	8.75	8.06	6.17	6.22	5.85	8.98
10	e5.34	5.37	8.54	e11.23	15.89	15.99	8.38	7.80	6.11	6.25	6.62	8.33
11	e5.34	5.36	8.00	e11.96	14.97	16.08	8.00	7.30	6.29	6.81	6.48	7.75
12	e5.34	5.50	7.53	e11.67	14.04	18.68	7.60	7.24	8.16	9.66	6.16	7.20
13	e5.35	5.52	7.07	e10.87	13.14	19.82	7.19	8.56	12.30	12.68	5.97	6.66
14	e5.34	5.51	6.59	e10.04	12.46	19.70	6.79	8.55	13.38	13.14	5.82	6.43
15	e5.33	5.45	6.19	9.31	11.97	19.00	6.47	7.40	12.91	12.65	5.68	6.29
16	e5.33	5.43	6.40	8.74	14.31	18.09	6.31	6.55	12.08	12.66	5.59	6.06
17	e5.33	5.38	8.62	8.35	15.08	17.18	7.51	6.04	e11.15	13.09	5.54	6.68
18	e5.33	5.36	9.06	8.84	15.01	16.28	11.13	5.77	10.33	12.30	5.52	11.39
19	e5.32	5.34	8.14	8.98	17.25	15.37	e11.30	5.69	9.60	11.17	5.74	14.23
20	5.30	5.33	7.35	7.93	17.86	14.46	10.09	5.67	8.97	10.14	7.13	14.08
21	5.29	5.31	7.06	7.10	16.95	14.43	9.05	5.60	8.44	9.31	6.72	12.95
22	5.28	5.38	e10.54	6.56	15.75	17.14	8.22	5.73	7.96	8.65	6.30	e11.53
23	5.28	5.44	e16.45	6.25	14.67	17.50	7.54	5.75	7.57	8.10	5.97	e10.23
24	5.28	5.94	17.41	6.08	13.70	16.63	6.95	5.77	7.15	7.64	5.77	9.10
25	5.28	6.11	17.68	6.25	12.67	15.55	6.47	6.07	6.81	7.11	5.67	8.18
26	5.28	6.03	19.18	11.56	11.58	14.53	6.17	6.20	6.54	6.67	5.66	7.41
27	5.30	6.26	20.81	14.47	10.53	13.54	5.98	6.21	6.40	6.28	5.77	6.72
28	5.33	6.97	20.77	13.86	9.58	12.56	5.87	6.14	6.26	6.10	5.84	6.22
29	5.31	7.22	20.41	12.63	8.77	11.60	5.80	6.06	6.20	6.15	5.76	6.09
30	5.29	6.93	19.74	e11.47	---	10.75	5.74	6.10	6.10	6.18	7.66	12.02
31	5.29	---	18.81	e10.37	---	10.06	---	6.20	---	6.10	13.35	---
Max	6.65	7.22	20.81	17.80	19.21	19.82	11.30	8.56	13.38	13.14	13.35	15.77
Min	5.28	5.26	5.75	6.08	8.41	6.44	5.74	5.60	6.10	6.10	5.52	6.06