07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM NEAR ST. MARTINVILLE, LA

Atchafalaya-Vermilion Basin
Bayou Teche Subbasin

LOCATION.--Lat 30°04′15″, long 91°49′45″ referenced to North American Datum of 1927, in sec.17, T.11 S., R.6 E., St. Martin Parish, LA, Hydrologic Unit 08080102, on right bank of concrete lock and dam, 3.5 mi south of St. Martinville, and 11 mi upstream from Loreauville Canal.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1959 to current year. Daily gage heights since July 1913 in reports of Corps of Engineers.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is mean low Gulf level or 0.78 ft below NGVD of 1929. Water-stage recorder for Bayou Teche at Keystone Lock lower gage (station 07385702) used as auxiliary gage for this station.

REMARKS.--Records good, except for periods of estimated daily discharge which are poor. Bayou Teche heads in Bayou Courtableau at Port Barre. At high stages,considerable flow bypasses station by way of Bayou Courtableau at weirs near Krotz Springs. There is controlled diversion toor from Red River and Old River overflow area through Bayou des Glaises floodgates and to or from West Atchafalaya Floodwaythrough Big D'Arbonne Bayou Culvert and since April 1956 through Bayou Courtableau Drainage Structure. Since April 1952,flood flow is diverted from Bayou Rapides (drainage area, 76.1 mi^2) into Bayou Boeuf when stages of Red River make itnecessary to close gates at mouth of Bayou Rapides. Teche-Vermilion freshwater diversion operational during the year anytimethe flow in Bayou Courtableau does not bypass by way of Courtableau weirs near Krotz Springs. Dependent upon its gradient,Bayou Fusilier interchanges flow between Bayou Teche and Vermilion River. Water from irrigation is diverted through RuthCanal (Station 07386700) into Vermilion River. Crest of dam raised from 8.0 ft to 9.47 ft in June 1957.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft^3/s, Sep 2, 2008, maximum gage height, 16.15 ft, Oct 23, 1984; minimum discharge, no flow at times in 1962-64, 1972, and 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since July 1913, 24.30 ft, May 27, 1927; minimum gage height, 0.75 ft, July 18, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum estimated discharge, 2,600 ft^3/s, Jan. 10, gage height, 12.85 ft; minimum discharge, 64 ft^3/s, Dec. 3, gage height, 9.87 ft.

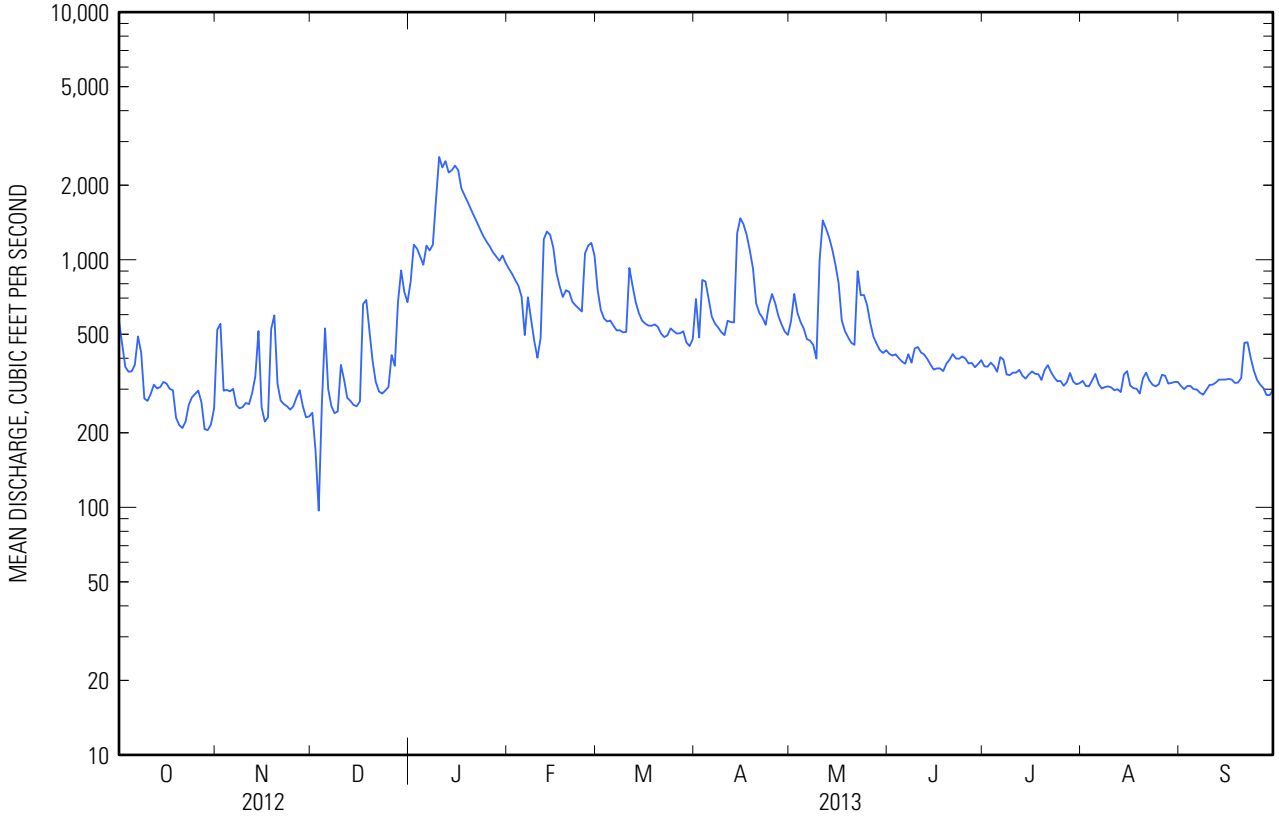
Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 07385700, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/07385700.2013.pdf

07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM NEAR ST. MARTINVILLE, LA—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	566	522	241	816	919	753	694	566	417	371	324	309
2	456	551	169	1,150	877	626	485	728	410	370	309	300
3	369	296	97	1,110	827	579	828	611	415	384	308	309
4	353	298	263	1,030	785	563	817	560	400	372	326	309
5	354	294	528	955	708	568	695	527	388	353	346	300
6	377	301	300	1,140	496	541	589	478	380	404	315	299
7	490	259	256	1,090	705	518	552	471	415	395	302	290
8	421	251	240	1,150	573	519	532	453	384	344	306	285
9	275	254	244	1,750	469	509	510	399	438	342	308	298
10	269	264	376	e2,600	402	511	496	995	444	350	305	312
11	287	261	328	e2,360	483	926	567	1,440	422	350	297	313
12	313	289	277	e2,500	1,210	785	560	1,340	414	359	300	319
13	302	338	269	2,250	1,300	674	558	1,230	397	340	292	328
14	306	515	259	e2,300	1,260	608	1,280	1,100	377	331	344	328
15	321	253	256	e2,400	1,120	568	1,470	954	360	344	355	328
16	316	222	268	e2,300	887	552	1,390	804	364	354	310	330
17	301	231	662	1,940	782	542	1,260	569	364	346	303	328
18	297	525	688	1,820	707	541	1,090	515	355	345	301	318
19	230	596	517	1,710	753	548	920	486	380	327	288	319
20	215	316	390	1,600	742	535	666	462	395	359	332	333
21	209	270	321	1,500	677	503	609	453	416	375	350	462
22	222	261	294	1,410	654	487	583	899	399	352	326	464
23	259	256	288	1,320	636	495	546	719	398	335	313	401
24	278	248	296	1,240	618	528	654	720	407	323	308	356
25	287	256	306	1,180	1,060	514	727	654	399	324	314	327
26	296	278	412	1,130	1,140	503	667	555	381	310	343	313
27	266	297	373	1,070	1,170	505	593	489	383	320	340	303
28	207	256	673	1,030	1,040	514	548	457	368	349	316	284
29	205	231	905	990	---	463	513	432	379	322	318	284
30	216	233	742	1,040	---	448	497	420	393	314	321	298
31	251	---	674	969	---	479	---	431	---	317	321	---
Total	9,514	9,422	11,912	46,850	23,000	17,405	21,896	20,917	11,842	10,781	9,841	9,747
Mean	307	314	384	1,511	821	561	730	675	395	348	317	325
Max	566	596	905	2,600	1,300	926	1,470	1,440	444	404	355	464
Min	205	222	97	816	402	448	485	399	355	310	288	284
Ac-ft	18,870	18,690	23,630	92,930	45,620	34,520	43,430	41,490	23,490	21,380	19,520	19,330

07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM NEAR ST. MARTINVILLE, LA—Continued



07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM NEAR ST. MARTINVILLE, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.60	10.57	10.23	10.81	10.84	10.64	10.54	10.38	10.21	10.23	10.25	10.25
2	10.48	10.60	10.10	11.11	10.80	10.51	10.30	10.57	10.20	10.23	10.23	10.24
3	10.38	10.31	9.95	11.06	10.75	10.46	10.67	10.44	10.21	10.25	10.24	10.25
4	10.36	10.31	10.21	10.99	10.70	10.43	10.67	10.38	10.19	10.24	10.26	10.25
5	10.36	10.31	10.57	10.92	10.61	10.43	10.54	10.34	10.18	10.22	10.29	10.24
6	10.40	10.32	10.32	11.07	10.38	10.40	10.43	10.29	10.17	10.29	10.25	10.24
7	10.52	10.26	10.25	11.03	10.61	10.37	10.38	10.28	10.21	10.28	10.24	10.22
8	10.44	10.25	10.23	11.06	10.47	10.37	10.36	10.26	10.18	10.22	10.25	10.22
9	10.26	10.25	10.23	11.55	10.35	10.36	10.33	10.19	10.25	10.22	10.25	10.23
10	10.25	10.27	10.40	12.13	10.26	10.36	10.31	10.80	10.26	10.23	10.25	10.25
11	10.28	10.26	10.36	12.31	10.36	10.80	10.39	11.22	10.23	10.23	10.23	10.26
12	10.32	10.30	10.29	11.93	11.09	10.67	10.38	11.14	10.23	10.25	10.24	10.27
13	10.31	10.36	10.27	11.90	11.16	10.55	10.38	11.04	10.21	10.22	10.23	10.28
14	10.32	10.56	10.26	12.32	11.13	10.47	11.06	10.93	10.19	10.21	10.30	10.28
15	10.34	10.25	10.25	12.10	11.01	10.42	11.24	10.79	10.17	10.24	10.31	10.28
16	10.33	10.20	10.27	11.86	10.79	10.40	11.17	10.64	10.18	10.25	10.25	10.28
17	10.31	10.21	10.70	11.69	10.68	10.39	11.06	10.39	10.18	10.24	10.24	10.28
18	10.30	10.58	10.74	11.60	10.61	10.39	10.92	10.33	10.17	10.24	10.24	10.26
19	10.20	10.65	10.57	11.51	10.65	10.40	10.76	10.30	10.21	10.23	10.22	10.27
20	10.19	10.34	10.43	11.43	10.64	10.38	10.50	10.27	10.22	10.27	10.28	10.28
21	10.18	10.28	10.35	11.35	10.57	10.35	10.44	10.26	10.26	10.29	10.31	10.45
22	10.20	10.26	10.31	11.28	10.55	10.33	10.41	10.70	10.24	10.26	10.27	10.45
23	10.25	10.25	10.30	11.21	10.52	10.33	10.37	10.56	10.24	10.25	10.26	10.37
24	10.29	10.24	10.31	11.14	10.50	10.37	10.48	10.56	10.25	10.23	10.25	10.32
25	10.30	10.25	10.33	11.08	10.94	10.35	10.57	10.49	10.25	10.23	10.26	10.28
26	10.31	10.29	10.46	11.03	11.02	10.34	10.50	10.38	10.23	10.22	10.30	10.27
27	10.27	10.31	10.41	10.98	11.04	10.34	10.42	10.30	10.23	10.24	10.29	10.25
28	10.17	10.25	10.66	10.95	10.93	10.35	10.37	10.26	10.22	10.28	10.26	10.23
29	10.17	10.21	10.92	10.91	---	10.29	10.33	10.23	10.24	10.24	10.26	10.23
30	10.19	10.22	10.77	10.95	---	10.27	10.31	10.22	10.25	10.24	10.27	10.25
31	10.24	---	10.70	10.89	---	10.31	---	10.23	---	10.24	10.27	---
Max	10.60	10.65	10.92	12.32	11.16	10.80	11.24	11.22	10.26	10.29	10.31	10.45
Min	10.17	10.20	9.95	10.81	10.26	10.27	10.30	10.19	10.17	10.21	10.22	10.22