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<u>Report</u>	<u>Issued by</u>
WSP 147: Destructive floods in the United States in 1904.	U. S. Geological Survey
WSP 162: Destructive floods in the United States in 1905.	Do.
WSP 487: The Arkansas River flood of June 3-5, 1921.	Do.
WSP 771: Floods in the United States, magnitude and frequency.	Do.
WSP 838: Floods of Ohio and Mississippi Rivers, January-February 1937.	Do.
WSP 847: Maximum discharges at stream-measurement stations through September 1938.	Do.
WSP 914: Texas floods of 1938 and 1939.	Do.
WSP 997: Floods in Colorado.	Do.
WSP 1137-I: Summary of floods in the United States during 1950.	Do.
WSP 1139: Kansas-Missouri Floods of July 1951.	Do.
WSP 1227-B: Floods of May 1951 in western Oklahoma and north-western Texas.	Do.
WSP 1227-D: Summary of floods in the United States during 1951.	Do.
WSP 1320-C: Floods of April-June 1953 in Louisiana and adjacent States.	Do.
WSP 1320-E: Summary of floods in the United States during 1953.	Do.
WSP 1370-C: Summary of floods in the United States during 1954.	Do.
Cir. 99: Flood of August 1-6, 1950, at Wichita Falls, Tex.	Do.
Bull. 66: North Mississippi floods in February 1948.	Mississippi State Geological Survey.
Floods in Louisiana, magnitude and frequency.	Louisiana Department of Highways.

#### RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

The table below contains a list of gaging stations for the area covered by this report, at which records of discharge were collected during the water year October 1957 to September 1958 by agencies other than the Geological Survey. The records of these stations are not contained in publications of the Geological Survey.

Records of discharge collected by agencies other than the Geological Survey

Stream	Location	Period	Collected by
Atchafalaya River.....	Simmesport, La.....	1928-58	Corps of Engineers.
Bayou Bodcau.....	Shreveport, La.....	1937-39, 1950-58	Do.
Bayou Deview.....	Morton, Ark.....	1937-58	Do.
Bear Creek.....	Near Colorado Springs, Colo.	1918-58*	Colorado Springs Water Department, Colo.
Boehmer Creek.....	Near Pikes Peak, Colo...	1909-58*	Do.
Cabin Creek.....	Near Halfway, Colo.....	1906-58*	Do.
Cache River.....	Patterson, Ark.....	1937-58†	Corps of Engineers.
Caddo River.....	Alpine, Ark.....	1939-41, 1946-58	Do.
Coldwater River.....	Crenshaw, Miss.....	1945-58	Do.
Crystal Creek.....	Below reservoir near Green Mountain Falls, Colo.	1935-58	Colorado Springs Water Department, Colo.
Do.....	Near Green Mountain Falls, Colo.	1935-58	Do.
Cypress Bayou.....	Shreveport, La.....	1939-40, 1944-58	Corps of Engineers.
Cypress Creek.....	Jefferson, Tex.....	1955-58	Do.
Do.....	Ramer, Tenn.....	1940-58	Do.
Forked Deer River, North Fork.	Dyersburg, Tenn.....	1947-58	Do.
Forked Deer River, South Fork.	Halls, Tenn.....	1947-58	Do.
French Creek.....	Near Cascade, Colo.....	1935-58	Colorado Springs Water Department, Colo.
Hatchie River.....	Focahontas, Tenn.....	1940-58	Corps of Engineers.
Do.....	Rialto, Tenn.....	1939-58	Do.
Do.....	Walnut, Miss.....	1947-58	Do.
L'Angeville River.....	Palestine, Ark.....	1949-58	Do.
Lion Creek.....	Near Halfway, Colo.....	1908-58†	Colorado Springs Water Department, Colo.
Little Beaver Creek.....	Near Pikes Peak, Colo...	1909-58†	Do.
Little Missouri River.....	Boughton, Ark.....	1938-42, 1946-58	Corps of Engineers.
Do.....	Murfreesboro, Ark.....	1943-58	Do.
Little River.....	Riverdale, Ark.....	1936-58	Do.
Loosahatchie River.....	Brunswick, Tenn.....	1939-58	Do.
Mississippi River.....	Arkansas City, Ark.....	1928-58	Do.
Do.....	Helena, Ark.....	1928-58	Do.
Do.....	Hickman, Ky.....	1928-58	Do.
Do.....	Natchez, Miss.....	1936-48, 1950-58	Do.
Do.....	Red River Landing, La...	1928-58	Do.
Do.....	Tarbert Landing, Miss...	1936-47, 1949-58	Do.
Muddy Fork Creek.....	Murfreesboro, Ark.....	1940-42, 1947-58	Do.
North Cascade Creek.....	At Cascade, Colo.....	1935-58†	Colorado Springs Water Department, Colo.
North Catamount Creek....	Near Green Mountain Falls, Colo.	1935-58†	Do.

\* Records prior to 1931 are contained in water-supply papers published by the Geological Survey.

† Records prior to 1951 published in WSP 1311.































































































































































































































































































































































































































































































































































































































































































































































2680. Tallahatchie River at Etta, Miss.

Location.--Lat 34°29'00", long 89°13'30", in SE1/4 sec. 8, T. 7 S., R. 1 E., Chickasaw meridian, on downstream side of left main pier of bridge on State Highway 30, three-quarters of a mile northeast of Etta, 3 1/2 miles upstream from Puskus Creek, 4 miles downstream from Locks Creek, 13 miles west of New Albany, and 55.0 miles upstream from head of Panola-Quitman Floodway.

Drainage area.--526 sq mi.

Records available.--September 1938 to September 1958. November 1936 to May 1937 (gage heights and discharge measurements only) in reports of Corps of Engineers, Vicksburg district.

Gage.--Water-stage recorder. Datum of gage is 273.48 ft above mean sea level, datum of 1929, supplementary adjustment of 1944 (levels by Corps of Engineers). Nov. 23, 1936, to May 31, 1937, staff gage at same site at datum 5.33 ft higher. Sept. 24, 1938, to Mar. 16, 1939, and Aug. 26 to Sept. 30, 1952, wire-weight gage at same site at datum 5.00 ft higher. Oct. 1, 1952, to June 22, 1953, wire-weight gage at same site and datum.

Average discharge.--20 years, 800 cfs.

Extremes.--Maximum discharge during year, 32,700 cfs Nov. 14 (gage height, 25.62 ft); minimum, 28 cfs Sept. 8.

1938-58: Maximum discharge, 79,000 cfs Mar. 22, 1955 (gage height, 29.32 ft); minimum, 4.1 cfs Oct. 3, 16, 1938.

Remarks.--Records good.

Revisions (water years).--WSP 897: Drainage area. WSP 1211: 1948, 1949(M).

Rating tables, water year 1957-58 (gage height, in feet, and discharge, in cubic feet per second) (Shifting-control method used Dec. 21 to Jan. 13, Jan. 15-21, June 27 to July 21, July 23, 24, Sept. 24-30)

Oct. 1 to Oct. 24				Oct. 25 to Feb. 27				Feb. 28 to Sept. 30			
6.4	30	12.0	1,260	7.0	110	18.0	4,300	5.9	24	10.0	980
7.0	75	15.0	2,420	8.0	330	21.0	8,390	6.1	37	15.0	2,720
7.5	126	18.0	4,180	10.0	900	23.0	14,300	6.4	67	18.0	4,810
8.0	203	20.0	7,450	12.0	1,500	25.0	27,000	6.7	106	21.0	9,720
10.0	665			15.0	2,460			7.0	160	23.0	17,200
								8.0	400	25.0	31,400

Discharge, in cubic feet per second, water year October 1957 to September 1958

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71	176	g466	841	410	374	682	8,690	126	g111	135	66
2	79	158	g424	494	343	336	566	10,900	853	g102	96	509
3	882	152	g383	424	304	316	1,180	2,600	245	92	91	444
4	278	136	g343	g383	269	288	*4,080	1,840	167	86	106	g65
5	96	125	g317	g356	314	274	1,260	2,580	148	95	71	*g37
6	73	117	312	g356	1,200	269	770	1,360	209	310	g64	g31
7	60	117	6,290	g343	*930	*656	538	920	148	171	g56	g30
8	54	*9,360	3,350	g294	438	1,320	454	740	116	348	g50	g28
9	49	3,180	1,440	*286	356	2,150	440	740	138	402	g46	g29
10	45	623	870	294	307	830	524	1,070	103	286	g83	g29
11	42	452	580	299	294	538	454	1,070	255	*248	g93	g29
12	41	356	458	289	262	454	g387	1,300	200	632	g468	g60
13	38	3,270	410	928	g227	595	g348	g624	*112	482	g95	g40
14	37	*24,800	396	1,580	255	510	g536	g580	95	178	66	g33
15	37	15,900	424	667	1,140	400	6,740	g496	1,440	175	*59	g35
16	39	11,200	536	452	g683	374	2,440	374	1,520	98	75	g566
17	45	7,060	458	363	g307	866	1,010	361	496	80	56	g653
18	41	11,400	452	343	g343	1,910	682	306	257	67	56	g209
19	37	8,610	718	320	g624	770	g552	414	279	59	49	g79
20	36	2,220	*2,760	330	g237	524	g552	1,170	720	96	43	13,000
21	35	1,140	1,130	3,210	241	440	920	538	267	135	43	26,600
22	37	906	609	1,400	286	367	g595	361	236	1,310	43	10,900
23	4,930	1,980	508	624	299	400	g454	303	169	286	46	1,870
24	6,940	1,630	436	2,380	286	3,260	g427	255	136	1,170	49	800
25	1,070	5,210	511	2,240	262	1,550	*6,520	227	127	454	63	496
26	370	1,830	1,340	1,200	262	5,510	8,290	213	2,740	245	g45	361
27	279	1,020	609	725	1,240	2,610	5,100	191	820	812	g35	284
28	218	1,080	783	536	610	1,170	3,350	173	g281	189	g34	229
29	181	*1,230	609	452	-	830	*15,800	158	g182	156	g32	200
30	172	682	466	396	-----	1,360	7,600	144	g136	136	34	164
31	191	-----	508	363	-----	1,010	-----	135	-----	696	34	-----
Total	16,483	116,320	28,638	23,188	12,729	32,461	73,071	41,233	12,721	9,709	2,316	57,866
Mean	532	3,677	930	748	455	1,048	2,436	1,330	424	313	74.7	1,930
Cfsm	1.01	7.37	1.77	1.42	0.865	1.99	4.63	2.53	0.806	0.595	0.142	3.67
In.	1.17	8.22	2.04	1.64	0.90	2.30	5.17	2.92	0.90	0.69	0.16	4.09
Calendar year 1957: Max		27,400		Min	16	Mean	1,166	Cfsm	2.22	In.	30.09	
Water year 1957-58: Max		26,600		Min	28	Mean	1,170	Cfsm	2.22	In.	30.20	

Peak discharge (base, 13,000 cfs).--Oct. 23 (10 p.m.) 15,200 cfs (22.55 ft); Nov. 14 (8 p.m.) 32,700 cfs (25.62 ft); Apr. 29 (5 p.m.) 19,000 cfs (23.32 ft); Sept. 21 (1 p.m.) 27,400 cfs (24.54 ft).

\* Discharge measurement made at this day.

g Discharge computed from twice-daily wire-weight-gage readings.

2710. Clear Creek near Oxford, Miss.

Location.--Lat 34°21'20", long 89°39'30", in NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 30, T. 8 S., R. 4 W., Chickasaw meridian, near right bank on downstream side of pier of bridge on State Highway 6, 1.0 mile upstream from Hudson Creek and 8.3 miles west of Oxford.

Drainage area.--10.3 sq mi.

Records available.--January 1939 to July 1941, February 1950 to September 1958.

Gage.--Water-stage recorder. Datum of gage is 275.47 ft above mean sea level, datum of 1929, supplementary adjustment of 1944. Prior to Mar. 6, 1939, staff gage at present site and datum.

Average discharge.--9 years (1939-40, 1950-58), 14.8 cfs.

Extremes.--Maximum discharge during year, 3,660 cfs Nov. 14 (gage height, 10.90 ft), from rating curve extended above 2,700 cfs by logarithmic plotting; minimum, 5.0 cfs Nov. 6 (gage height, -0.20 ft).

1939-41, 1950-58: Maximum discharge, 3,980 cfs Apr. 4, 1957; minimum, 3.0 cfs July 19-22, 1939.

Remarks.--Records good except those above 15 cfs, which are poor. Discharge measurements generally made once a week.

Revisions (water years).--WSP 1281: 1939-40: WSP 1441: Drainage area. Revised figure of discharge, in cubic feet per second, for the water year 1957, superseding that published in WSP 1511 is given herewith:

June 30, 1957..... 232

Month	Cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
June 1957.....	1,284.2	428	4.6	42.8	4.16	4.64
Water year 1956-57.....	6,207.8	564	4.5	17.0	1.65	22.40

Discharge, in cubic feet per second, water year October 1957 to September 1958

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.3	5.3	9.1	8.5	8.5	g7.5	11	222	6.3	6.9	6.1	6.3
2	5.2	5.6	9.1	8.2	8.2	g7.5	11	46	6.3	6.9	5.9	64
3	5.3	5.3	8.8	7.8	8.2	g7.5	12	18	6.1	6.6	5.9	12
4	5.3	5.2	7.8	7.5	8.2	g7.5	9.4	24	5.9	6.1	5.9	6.6
5	5.3	5.1	7.8	7.5	8.2	g7.5	9.1	23	6.1	6.1	5.9	6.3
6	5.3	5.0	14	7.5	8.8	g7.5	8.8	15	6.1	6.1	5.9	6.1
7	5.3	6.2	65	7.2	7.5	32	8.5	11	6.1	7.5	5.6	6.1
8	5.3	35	11	6.9	7.2	20	7.8	12	6.1	96	5.6	5.9
9	5.3	7.0	10	6.3	7.2	11	7.8	11	6.1	11	5.9	5.6
10	5.3	7.0	9.8	6.3	7.2	8.5	7.5	11	6.1	6.9	6.1	5.6
11	5.8	7.2	8.8	6.3	6.9	7.5	7.2	9.1	6.9	6.1	5.9	16
12	5.3	7.4	8.8	6.3	6.6	7.5	6.6	8.8	6.1	12	7.2	28
13	5.3	474	9.1	6.4	6.9	8.2	6.6	8.5	6.3	8.5	g6.1	8.8
14	5.3	g160	9.1	7.5	7.8	7.5	8.0	8.2	6.3	7.2	g6.1	7.2
15	5.8	g17	9.1	6.6	9.1	7.5	38	7.5	12	6.6	6.3	7.2
16	5.3	g24	9.1	6.3	6.9	7.2	9.4	7.2	7.5	6.1	6.6	7.2
17	5.3	128	9.1	6.3	6.6	12	9.1	7.2	6.3	6.3	7.2	25
18	5.3	115	9.8	6.1	6.6	8.2	9.4	7.2	6.1	5.6	5.9	7.2
19	5.3	17	11	6.1	6.6	7.2	9.4	18	16	5.6	5.9	104
20	5.3	13	11	16	6.6	6.9	15	21	21	5.6	5.6	435
21	5.3	11	8.2	11	6.6	7.2	9.4	11	g8.8	6.3	5.9	133
22	5.6	15	8.2	7.2	6.6	7.2	8.8	7.5	g8.2	49	5.9	20
23	56	14	8.2	7.2	6.3	24	8.2	6.9	g6.9	121	5.9	14
24	6.3	29	8.2	14	6.3	16	7.8	6.6	g6.3	17	5.9	11
25	5.9	26	9.1	12	6.1	6.6	81	6.3	g6.3	8.2	6.3	9.1
26	5.8	13	8.8	11	11	31	176	6.3	120	12	6.3	13
27	5.6	11	8.2	9.8	11	13	102	g6.1	8.2	11	6.3	6.9
28	5.6	15	8.8	9.8	g8.5	11	179	g6.1	7.2	8.5	6.1	6.9
29	5.5	11	7.8	9.1	-	12	344	6.1	6.9	7.8	6.3	6.6
30	5.5	9.1	7.8	8.5	-----	15	44	6.1	6.9	6.9	6.3	8.5
31	5.3	-----	9.1	8.8	-----	11	-----	6.1	-----	6.1	6.3	-----
Total	219.3	1,203.4	339.7	259.0	212.2	350.2	1,171.8	570.8	341.4	483.5	189.1	999.1
Mean	7.07	40.1	11.0	8.35	7.58	11.3	39.1	18.4	11.4	15.6	6.10	33.3
Cfsm	0.686	3.89	1.07	0.811	0.736	1.10	3.80	1.79	1.11	1.51	0.592	3.23
In.	0.79	4.35	1.23	0.94	0.77	1.26	4.23	2.06	1.23	1.75	0.68	3.61
Calendar year 1957: Max	564				Min 4.6	Mean 19.6		Cfsm 1.90	In. 25.86			
Water year 1957-58: Max	474				Min 5.0	Mean 17.4		Cfsm 1.69	In. 22.90			

Peak discharge (base, 900 cfs).--Nov. 14 (about 2 a.m.) 3,660 cfs (10.90 ft); Nov. 17 (8:30 p.m.) 1,240 cfs (5.18 ft); Apr. 27 (10 p.m.) 1,010 cfs (4.67 ft); Apr. 29 (3 a.m.) 2,500 cfs (7.97 ft); June 26 (2:30 a.m.) 1,510 cfs (5.80 ft); July 8 (8 p.m.) 1,560 cfs (5.92 ft); July 23 (9 p.m.) 1,460 cfs (5.71 ft); Sept. 20 (10 a.m.) 2,660 cfs (8.40 ft).

g Discharge computed from twice-daily wire-weight-gage readings.

## 2720. Sardis Reservoir near Sardis, Miss.

Location.--Lat 34°23'57", long 89°47'10", in NE¼ sec. 11, T. 8 S., R. 6 W., Chickasaw meridian, in gatehouse of dam on Tallahatchie River, 7½ miles southeast of Sardis and 25.7 miles upstream from head of Panola-Quitman Floodway.

Drainage area.--1,545 sq mi.

Records available.--September 1939 to September 1958.

Gage.--Water-stage recorder. Datum of gage is 219.43 ft above mean sea level, datum of 1929 with 1941 Alluvial Valley and 1944 Birmingham-Corinth supplementary adjustments, U. S. Coast and Geodetic Survey (levels by Corps of Engineers); gage readings have been reduced to elevations above mean sea level.

Extremes.--Maximum contents during year, 738,100 acre-ft May 22 (elevation, 263.66 ft); minimum, 108,500 acre-ft Nov. 2 (elevation, 236.04 ft).  
1939-58: Maximum contents, 1,308,130 acre-ft Apr. 3, 1949 (elevation, 276.71 ft); minimum since initial filling of reservoir to conservation level, 47,900 acre-ft Oct. 3, 1941 (elevation, 228.93 ft).

Remarks.--Reservoir is formed by hydraulic-fill earth dam, with concrete spillway and outlet tunnel on opposite ends of the dam. Storage began Aug. 26, 1939; dam completed Aug. 1, 1940. Capacity, 1,569,900 acre-ft at elevation 281.4 ft (crest of spillway) of which about 1,478,000 acre-ft is available for flood-control storage and about 91,900 acre-ft is permanent storage which will be maintained for incidental recreational purposes at elevation 234.4 ft (15 ft above sill of outlet tunnel). Water below elevation 219.4 ft cannot be withdrawn through outlet tunnel. Figures given herein represent total contents. Reservoir used only for flood control.

Cooperation.--Elevations and contents furnished by Corps of Engineers; records reviewed by Geological Survey.

Capacity table, water year 1957-58 (elevation, in feet, and contents, in thousands of acre-feet)

235.0	97.66	247.0	273.2	259.0	580.6
238.0	133.0	250.0	336.4	262.0	679.7
241.0	171.5	253.0	409.1	264.0	750.4
244.0	218.6	256.0	490.4		

Contents, in thousands of acre-feet, at 8 a.m., water year October 1957 to September 1958

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	240.8	113.6	557.3	581.5	494.4	329.7	306.2	506.1	701.5	619.6	548.8	316.9
2	233.3	109.5	561.9	579.6	489.3	325.4	306.6	561.3	699.3	615.3	546.3	309.2
3	226.3	110.1	561.0	577.7	484.7	320.4	306.6	599.7	695.8	610.4	542.7	303.2
4	220.0	110.3	559.4	576.8	480.2	314.4	307.7	634.4	691.3	604.6	539.0	296.6
5	214.1	110.6	557.0	573.0	472.3	309.6	309.2	655.4	686.9	598.1	532.3	289.8
6	208.4	111.3	553.7	569.2	466.5	303.0	316.7	668.3	681.7	592.3	524.4	283.0
7	202.6	110.9	558.2	566.6	460.8	299.0	322.3	676.2	674.5	585.3	516.4	275.6
8	196.1	115.2	554.7	562.5	455.0	296.0	323.6	681.0	666.3	582.2	508.2	268.1
9	188.6	112.4	577.4	557.0	450.1	293.1	323.2	685.5	658.1	577.1	500.3	260.1
10	181.8	111.8	568.2	551.8	445.3	292.3	321.0	689.6	650.7	571.1	492.4	251.9
11	174.4	120.7	595.5	546.6	436.9	292.1	319.7	695.8	644.4	565.7	484.4	245.8
12	167.4	126.0	597.4	541.8	429.9	291.8	317.4	702.5	641.7	561.6	475.6	248.8
13	160.0	126.8	596.2	537.5	421.9	286.1	316.5	709.9	636.7	557.9	469.0	249.5
14	153.6	156.1	594.2	531.4	415.2	282.8	316.3	714.5	630.7	553.7	461.3	250.4
15	147.0	179.8	592.0	529.1	410.3	278.7	317.2	716.6	623.1	546.8	452.6	251.2
16	141.3	233.3	590.4	527.3	404.3	274.4	318.9	718.8	623.1	543.0	444.7	248.2
17	135.2	298.4	588.5	523.5	398.9	269.9	326.3	721.2	622.5	536.9	437.2	244.9
18	130.0	345.4	587.2	519.4	392.6	267.4	335.5	723.0	618.9	530.5	428.8	244.0
19	124.2	391.7	586.0	514.1	386.9	263.1	339.4	727.6	612.7	522.6	421.1	241.5
20	118.9	423.2	583.4	509.1	379.8	265.0	340.2	731.5	606.5	514.7	412.4	240.6
21	112.9	454.7	586.9	501.7	373.1	266.6	340.7	734.1	608.5	507.6	404.3	275.2
22	109.9	473.9	591.0	503.2	366.8	267.4	339.8	737.7	610.8	506.1	396.1	302.7
23	110.1	483.6	592.6	505.8	360.9	265.8	339.1	736.6	610.8	510.5	388.9	355.6
24	112.9	490.4	592.3	508.2	354.2	268.0	338.0	734.8	612.1	519.4	381.0	403.0
25	114.5	502.3	590.4	507.3	348.2	268.3	341.4	732.2	609.8	525.2	374.3	425.9
26	118.2	513.5	589.1	507.9	342.3	274.4	349.2	729.7	619.2	530.2	365.4	435.3
27	125.3	527.6	588.2	509.4	335.8	281.6	376.6	725.5	625.1	534.7	357.3	439.3
28	127.6	538.4	587.5	509.4	330.6	290.2	403.5	720.9	629.7	537.6	349.4	441.2
29	126.6	548.2	586.9	506.4	324.6	300.0	442.5	717.3	628.0	542.7	341.2	442.5
30	122.2	553.4	585.6	502.9	318.8	303.8	469.8	711.7	624.1	545.1	333.7	443.9
31	118.1	563.7	583.7	498.3	313.3	305.3	477.1	707.1	617.1	546.6	325.0	444.1

(+) 236.64 258.22 259.04 256.17 249.75 248.60 256.00 262.71 260.26 257.98 249.26 254.45  
(\*) -2,082 +7,411 +418 -1,408 -2,960 -407 +3,102 +3,479 -1,397 -1,177 -3,723 +2,141

Calendar year 1957..... \* +636

Water year 1957-58..... \* +282

† Elevation, in feet, at 12 p.m. on last day of month.

\* Change in contents, equivalent in cubic feet per second.

2725. Tallahatchie River at Sardis Dam, near Sardis, Miss.

Location.--Lat 34°23'57", long 89°47'10", in NE¼ sec. 11, T. 8 S., R. 6 W., Chickasaw meridian, in gatehouse of Sardis Dam, 7½ miles southeast of Sardis and 25.7 miles upstream from head of Panola-Quitman Floodway.

Drainage area.--1,545 sq mi.

Records available.--January 1940 to September 1958.

Gage.--Water-stage recorder. Datum of gage is 219.43 ft above mean sea level, datum of 1929 with 1941 Alluvial Valley and 1944 Birmingham-Corinth supplementary adjustments, U. S. Coast and Geodetic Survey (levels by Corps of Engineers). Prior to Jan. 1, 1948, at site 300 ft downstream at datum 25.00 ft lower.

Average discharge.--18 years, 2,336 cfs (adjusted for storage).

Extremes.--Maximum discharge during year, 4,860 cfs Feb. 4; no flow at times.  
1940-58: Maximum discharge, 5,780 cfs June 24, 1946; no flow at times.

Remarks.--Records good. Flow completely regulated by Sardis Reservoir (see preceding page).

Cooperation.--Gage-height record, 15 discharge measurements, and computations of daily discharge furnished by Corps of Engineers; 1 discharge measurement made and records reviewed by Geological Survey.

Revisions (water years).--WSP 1147: 1946(M).

Discharge, in cubic feet per second, water year October 1957 to September 1958

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,400	3,060	0	2,560	3,880	4,180	2,180	0	2,830	2,710	1,080	4,280
2	*4,320	2,100	1,210	2,560	3,860	4,160	*2,180	0	2,830	2,710	2,610	4,240
3	4,260	619	2,640	2,560	3,850	4,130	2,180	0	2,820	3,270	2,610	4,190
4	4,260	619	2,630	2,550	4,520	4,100	2,180	0	2,810	3,600	3,110	4,150
5	4,280	620	2,630	2,550	4,840	4,060	2,190	0	3,470	3,580	*4,060	*4,370
6	4,220	621	2,630	2,540	4,810	4,020	2,210	0	4,460	3,570	4,430	4,430
7	4,160	*621	2,630	2,540	4,790	4,010	2,220	0	4,440	3,840	4,410	4,420
8	4,210	1,850	2,650	3,190	4,770	3,990	2,220	0	4,420	4,160	4,380	4,480
9	*4,370	3,040	2,660	3,490	4,740	3,970	2,220	0	4,390	4,140	4,350	4,420
10	4,270	3,070	2,680	3,870	4,720	3,960	2,210	0	4,370	*4,130	4,320	4,350
11	4,160	3,240	2,680	4,050	4,690	*3,960	2,210	0	3,460	4,110	4,300	1,840
12	4,060	3,340	2,680	4,030	4,660	3,960	2,210	0	*2,640	4,100	*4,260	0
13	3,940	2,960	2,680	4,020	4,630	3,920	2,200	0	3,510	4,090	4,240	0
14	3,830	0	2,680	4,000	*4,600	3,900	2,200	0	4,310	4,070	4,420	0
15	3,710	0	2,680	3,990	4,580	3,870	2,210	0	3,560	4,060	4,490	966
16	3,610	0	2,680	3,980	4,560	3,840	2,210	0	2,720	4,040	4,460	3,250
17	3,500	0	2,670	3,970	4,530	3,820	2,230	0	2,720	4,020	4,430	*2,050
18	3,580	0	*2,670	3,960	4,500	3,790	2,250	0	3,290	4,130	4,400	2,000
19	3,270	0	2,670	3,940	4,470	2,640	2,260	0	4,260	4,260	4,370	2,520
20	3,160	0	2,670	3,930	4,440	2,070	2,260	0	3,400	4,230	4,340	173
21	3,050	0	2,670	3,910	4,400	2,070	2,260	0	1,240	3,590	4,300	0
22	1,290	0	2,680	3,910	4,370	2,080	2,260	738	0	1,010	4,270	0
23	485	0	2,680	*3,920	4,340	2,070	2,250	1,940	0	0	4,240	0
24	489	0	2,680	3,920	4,310	2,080	2,250	1,940	536	0	4,360	0
25	920	0	2,680	3,920	4,280	2,080	*2,260	1,950	2,450	0	4,400	0
26	2,150	0	2,670	3,920	4,240	2,100	385	2,230	591	0	4,360	0
27	2,580	0	2,670	3,930	4,210	2,120	0	2,860	0	0	4,320	0
28	2,410	0	2,670	3,930	4,190	2,140	0	2,860	1,240	0	4,280	0
29	2,720	0	2,670	3,920	-	2,170	0	2,850	2,720	0	4,240	0
30	3,240	0	2,670	3,910	-	2,180	0	2,840	2,720	0	4,310	0
31	3,150	-	*2,670	3,890	-	2,180	-	2,840	-	0	4,320	-
Total	101,654	25,760	78,530	111,360	124,780	99,620	55,695	23,028	82,207	81,420	126,470	56,129
Mean	3,279	859	2,533	3,592	4,456	3,214	1,863	743	2,740	2,626	4,080	1,871
(f)	-2,082	+7,411	+418	-1,408	-2,960	-407	+3,102	+3,479	-1,397	-1,177	-3,723	+2,141

Adjusted for change in contents in Sardis Reservoir

Mean Cfsm In.	1,197 0.775 0.09	8,270 5.35 5.97	2,951 1.91 2.20	2,184 1.41 1.63	1,496 0.968 1.01	2,807 1.82 2.09	4,965 3.21 3.59	4,222 2.73 3.15	1,343 0.869 0.97	1,449 0.938 1.08	357 0.231 0.27	4,012 2.60 2.90
Observed						Adjusted						
Calendar year 1957:	Max	4,660	Min	0	Mean	2,396	Mean	3,032	Cfsm	1.96	In:	26.63
Water year 1957-58:	Max	4,840	Min	0	Mean	2,649	Mean	2,931	Cfsm	1.90	In:	25.75

\* Discharge measurement made on this day.

† Change in contents, equivalent in cubic feet per second, in Sardis Reservoir.

## 2740. Yocona River near Oxford, Miss.

Location.--Lat 34°16'23", long 89°31'11", in SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 28, T. 9 S., R. 3 W., Chickasaw meridian, near left bank on downstream side of pier of bridge on State Highway 7,  $\frac{1}{2}$  miles downstream from Burney Branch, 6 miles south of Oxford, and at mile 42.3.

Drainage area.--262 sq mi.

Records available.--October 1951 to September 1958 in reports of Geological Survey. May 1946 to September 1951 in reports of Corps of Engineer, Vicksburg district.

Gage.--Water-stage recorder. Datum of gage is 272.20 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Average discharge.--12 years (1946-58), 392 cfs.

Extremes.--Maximum discharge during year, 22,300 cfs Sept. 21 (gage height, 22.78 ft); minimum, 14 cfs Aug. 30 to Sept. 2; minimum gage height, -0.83 ft Aug. 31, Sept. 2, 1946-58; Maximum discharge, 44,100 cfs Mar. 21, 1955 (gage height, 23.72 ft), from rating curve extended above 22,000 cfs by logarithmic plotting; minimum, 4.4 cfs Sept. 14, 1954; minimum gage height, that of Aug. 31, Sept. 2, 1958.

Remarks.--Records good.

Rating tables, water year 1957-58 (gage height, in feet, and discharge, in cubic feet per second)  
(Shifting-control method used Oct. 1, 2, 8-23, July 29 to Sept. 2, Sept. 5-15)

Oct. 1 to Nov. 7

Nov. 8 to Sept. 30

-0.4	20	-1.2	10	13.0	3,110
0.0	47	-0.6	51	16.0	4,040
0.5	114	0.0	103	19.0	5,460
1.0	194	1.0	220	21.0	7,410
3.0	600	2.0	365	21.6	9,500
7.0	1,530	4.0	820	22.0	12,300
10.0	2,350	6.0	1,280	22.3	15,300
		9.0	2,040		

Discharge, in cubic feet per second, water year October 1957 to September 1958

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	133	322	330	200	313	405	3,340	61	60	73	g14
2	57	133	256	249	180	180	296	2,510	80	60	65	g128
3	650	122	234	200	156	150	280	1,470	57	g51	60	g864
4	545	101	213	174	144	138	*268	996	52	47	55	g200
5	490	98	193	156	156	130	242	842	57	57	46	g64
6	g264	86	186	150	264	125	g220	622	53	49	45	g36
7	104	130	1,630	145	366	*387	174	534	45	210	38	g37
8	61	*2,920	1,090	130	272	644	156	313	46	125	*36	g37
9	45	2,040	1,060	*118	180	1,060	150	249	56	170	31	g36
10	33	1,300	798	118	150	776	168	256	44	820	30	g34
11	25	820	447	119	140	644	162	272	64	339	29	g53
12	24	395	272	119	132	322	145	249	56	208	28	g56
13	23	1,300	227	249	*118	266	g136	200	*48	150	30	52
14	22	*10,800	220	376	132	272	135	162	40	120	27	45
15	22	10,200	234	339	600	220	1,120	138	257	96	28	45
16	33	5,110	242	220	479	186	798	124	180	g82	26	45
17	36	6,230	242	168	348	302	776	110	143	g70	29	162
18	27	6,320	242	150	220	468	458	112	86	59	32	100
19	23	4,080	264	143	186	385	242	272	116	59	30	*99
20	23	2,300	644	164	182	249	213	180	126	57	g23	*6,180
21	23	1,160	458	921	145	186	242	145	150	80	g20	*14,800
22	30	776	366	644	150	168	213	121	107	128	g19	9,240
23	1,330	732	*234	710	150	199	180	103	85	222	g20	2,430
24	2,280	923	200	798	150	1,090	156	91	g75	1,550	g27	g1,060
25	1,620	1,770	227	864	144	798	1,660	82	64	*447	g34	g470
26	664	1,350	447	886	142	1,650	2,970	82	300	296	g58	227
27	418	1,130	405	732	485	1,320	2,880	96	174	376	g32	180
28	159	842	426	366	405	1,250	2,070	76	128	272	g23	150
29	164	*600	g313	264	-	798	*7,800	67	80	168	g17	132
30	159	447	242	227	-----	576	5,780	65	61	95	g14	186
31	151	-----	256	213	-----	534	-----	63	-----	86	g14	-----
Total	9,793	64,348	12,590	10,442	6,366	15,618	30,315	13,944	2,913	6,607	1,039	37,164
Mean	316	2,145	406	337	227	510	1,010	450	97.1	213	33.5	1,239
Cfam	1.21	6.19	1.55	1.29	0.866	1.95	3.85	1.72	0.371	0.813	0.128	4.73
In.	1.39	9.13	1.79	1.48	0.90	2.25	4.30	1.98	0.41	0.94	0.15	5.28

Calendar year 1957: Max 10,800 Min 11 Mean 598 Cfam 2.28 In. 30.97  
Water year 1957-58: Max 14,800 Min 14 Mean 579 Cfam 2.21 In. 30.00

Peak discharge (base, 8,000 cfs).--Nov. 15 (4 a.m.) 13,700 cfs (22.16 ft); Apr. 29 (10 a.m.) 8,500 cfs (21.42 ft); Sept. 21 (5 p.m.) 22,300 cfs (22.78 ft).

\* Discharge measurement made on this day.

g Discharge computed from twice-daily wire-weight-gage readings.

## 2745. Enid Reservoir near Enid, Miss.

Location.--Lat 34°09'29", long 89°54'14", in NE¼ sec. 2, T. 11 S., R. 7 W., Chickasaw meridian, in gatehouse of dam on Yocona River, 0.8 mile upstream from U. S. Highway 51, 2½ miles upstream from Illinois Central Railroad bridge, 3¼ miles northeast of Enid, and 13½ miles upstream from mouth of Yocona River.

Drainage area.--560 sq mi.

Records available.--July 1951 to September 1958.

Gage.--Water-stage recorder. Datum of gage is 200.00 ft above mean sea level, datum of 1929 with 1941 Alluvial Valley and 1944 Birmingham-Corinth supplementary adjustments, U. S. Coast and Geodetic Survey (levels by Corps of Engineers); gage readings have been reduced to elevations above mean sea level. Prior to May 24, 1952, staff gage at same site and datum.

Extremes.--Maximum contents during year, 303,600 acre-ft Dec. 10 (elevation, 252.00 ft); minimum, 55,500 acre-ft Oct. 31 (elevation, 229.65 ft).  
1951-58: Maximum contents, 435,800 acre-ft Apr. 27, 1955 (elevation, 258.87 ft); minimum since initial filling of reservoir to conservation level, 480 acre-ft Sept. 23 to Oct. 7, 1952; minimum elevation, 207.10 ft Oct. 3-7, 1952.

Remarks.--Reservoir is formed by rolled-fill earth dam with concrete spillway and outlet tunnel. Storage began July 16, 1951. Capacity, 660,000 acre-ft at elevation 268.0 ft (crest of spillway) of which about 602,400 acre-ft is available for flood control and about 57,600 acre-ft is permanent storage which will be maintained for incidental recreational purposes at elevation 230.0 ft (25 ft above sill of outlet tunnel). Water below elevation 205.0 ft cannot be withdrawn through outlet tunnel. Figures given herein represent total contents. Reservoir used only for flood control.

Cooperation.--Elevations and contents furnished by Corps of Engineers; records reviewed by Geological Survey.

Capacity table. water year 1957-58 (elevation, in feet, and contents, in thousands of acre-feet)

228.0	46.20	238.0	119.7	246.0	210.6
230.0	57.57	240.0	139.4	248.0	239.0
232.0	70.66	242.0	160.9	250.0	270.0
234.0	85.39	244.0	194.6	252.0	303.6
236.0	101.7				

Contents, in thousands of acre-feet, at 8 a.m., water year October 1957 to September 1958

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	104.9	55.56	296.4	279.9	227.1	160.3	143.5	238.6	287.5	264.5	245.6	166.1
2	101.2	55.60	297.3	278.9	224.3	157.9	142.5	239.6	288.7	261.8	244.7	163.2
3	97.47	55.98	296.1	277.3	221.2	155.5	141.7	238.0	287.4	259.3	243.6	161.6
4	94.20	56.15	294.5	275.6	218.6	152.6	140.6	272.4	284.9	256.6	242.5	160.3
5	92.40	56.27	292.8	273.8	215.6	150.1	139.7	276.6	282.1	253.9	241.2	157.8
6	89.46	56.51	291.5	272.0	213.1	147.3	138.0	279.9	280.1	251.5	240.0	154.4
7	86.11	56.80	295.9	270.0	210.9	145.7	136.4	282.2	277.8	249.1	237.3	151.4
8	82.59	63.69	302.1	268.2	208.8	147.7	135.3	285.9	275.0	252.7	234.1	149.0
9	78.88	72.52	303.4	266.3	206.1	147.7	133.8	285.2	272.4	254.2	230.3	146.2
10	75.31	73.74	303.4	264.2	203.5	148.3	132.0	287.9	269.6	254.2	227.9	143.2
11	71.73	71.81	302.9	261.0	200.5	147.4	130.7	289.9	267.5	253.3	224.7	141.5
12	67.62	69.11	302.1	258.0	197.3	146.2	129.0	291.8	266.4	252.7	221.5	148.0
13	63.98	66.20	300.5	256.4	194.2	143.9	127.5	292.8	263.7	250.4	218.7	149.3
14	60.99	95.04	298.7	253.9	191.9	141.9	126.3	293.7	261.3	248.2	215.9	149.5
15	58.78	126.0	297.3	251.6	191.2	139.7	126.4	294.0	259.1	247.1	215.9	149.5
16	57.10	151.9	296.1	249.1	190.9	137.3	129.0	294.4	256.7	246.0	213.1	147.2
17	56.39	181.7	294.5	246.5	189.0	135.0	129.0	294.9	256.7	243.6	210.1	146.2
18	56.15	207.4	293.5	244.4	186.4	134.2	128.8	295.4	256.3	240.9	207.4	146.0
19	56.15	233.7	292.0	242.8	183.5	132.7	126.0	296.6	253.9	238.6	204.4	146.3
20	56.04	248.9	290.4	241.5	180.9	130.6	126.5	299.7	254.2	235.9	201.2	157.0
21	55.98	254.5	291.0	240.3	178.1	129.4	126.0	300.9	261.2	233.5	198.5	213.0
22	56.10	257.9	290.3	240.0	175.2	128.4	124.7	301.6	262.5	230.3	195.8	250.7
23	56.68	262.3	288.9	238.6	172.5	127.0	123.7	301.9	262.8	232.2	192.5	275.0
24	70.52	264.8	287.2	238.0	169.9	130.4	122.1	302.2	263.1	236.4	189.7	287.5
25	74.02	275.5	285.5	239.0	167.2	133.3	122.3	302.4	263.1	238.6	187.2	290.3
26	72.81	282.9	285.0	238.5	164.4	135.0	135.0	302.9	263.1	240.1	184.1	291.5
27	70.32	287.2	284.4	237.9	163.2	139.9	154.7	301.2	265.8	243.8	181.1	292.0
28	66.68	290.3	283.9	236.9	161.6	141.8	165.9	298.5	266.3	244.5	178.1	292.5
29	62.70	293.5	283.1	235.0	163.2	143.2	190.5	296.6	266.6	245.1	175.0	292.7
30	58.96	294.7	281.7	232.7	163.6	143.6	216.6	293.5	266.6	245.6	172.0	293.0
31	55.50	-----	280.3	230.0	-----	143.7	-----	290.6	-----	245.6	169.0	-----
(†)	229.66	251.55	250.61	247.20	241.99	240.40	247.53	251.12	249.70	248.43	242.53	251.50
(‡)	-820	+4,039	-257	-857	-1,199	-280	+1,489	+917	-392	-320	-1,278	+2,153

Calendar year 1957..... † +301

Water year 1957-58..... † +261

† Elevation, in feet, at 12 p.m. on last day of month.

‡ Change in contents, equivalent in cubic feet per second.



2750. Yoccona River at Enid Dam, near Enid, Miss.

Location.--Lat 34°09'29", long 89°54'14", in NE $\frac{1}{4}$  sec. 2, T. 11 S., R. 7 W., Chickasaw meridian, in gatehouse of Enid Dam, 0.8 mile upstream from U. S. Highway 51, 2 $\frac{1}{2}$  miles upstream from Illinois Central Railroad bridge, 3 $\frac{1}{4}$  miles northeast of Enid, and 13 $\frac{1}{2}$  miles upstream from mouth.

Drainage area.--560 sq mi.

Records available.--July 1928 to September 1958. Prior to October 1951, published as Yoccona River near Enid. Monthly discharge only for some periods, published in WSP 1311.

Gage.--Water-stage recorder. Datum of gage is 200.00 ft above mean sea level, datum of 1929 with 1941 Alluvial Valley and 1944 Birmingham-Corinth supplementary adjustments, U. S. Coast and Geodetic Survey. Prior to Jan. 2, 1935, chain gage, Jan. 2, 1935, to July 13, 1939, wire-weight gage, and July 14, 1939, to Aug. 19, 1940, water-stage recorder, at site 150 ft downstream from bridge on U. S. Highway 51, 0.8 mile downstream at datum 10.58 ft lower. Aug. 20, 1940, to July 15, 1951, water-stage recorder at bridge on U. S. Highway 51 at datum 10.58 ft lower. July 16, 1951, to May 23, 1952, staff gage at present site and datum.

Average discharge.--30 years, 836 cfs (adjusted for storage in Enid Reservoir since October 1951).

Extremes.--Maximum discharge during year, 3,670 cfs Jan. 21; no flow at times.

1928-58: Maximum discharge, 36,300 cfs Feb. 14, 1948 (gage height, 21.61 ft, site and datum then in use); no flow at times each year since July 1951; minimum discharge prior to construction of Enid Dam, 34 cfs Sept. 28, 1931, but may have been less during period of estimated record October to December 1931.

Remarks.--Records good. Flow completely regulated by Enid Reservoir since July 16, 1951 (see preceding page).

Cooperation.--Gage-height record, 24 discharge measurements, and computations of daily discharge furnished by Corps of Engineers; 2 discharge measurements made and records reviewed by Geological Survey.

Revisions (water years).--WSP 1281: 1929, 1945. WSP 1511: 1929(M).

Discharge, in cubic feet per second, water year October 1957 to September 1958

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,050	103	0	1,340	1,940	1,800	*1,150		1,340	1,320	359	1,530
2	*2,030	103	634	1,340	1,930	1,800	1,150	0	1,350	1,320	646	1,520
3	2,010	103	1,350	1,330	1,930	1,790	1,150	0	1,340	1,310	645	1,520
4	2,000	103	1,350	1,330	1,920	1,770	1,150	0	1,340	1,310	644	1,520
5	1,990	103	1,350	1,330	*1,920	1,780	1,140	0	1,340	1,310	643	*1,510
6	1,970	103	1,350	1,330	1,920	*1,770	1,140	0	1,340	1,310	1,040	1,510
7	1,960	104	1,350	1,330	1,910	1,770	1,140	0	1,330	1,310	1,490	1,500
8	1,940	1,140	1,360	1,320	1,910	1,770	1,140	0	1,330	504	1,640	1,500
9	*1,920	1,930	1,350	1,320	1,900	1,780	1,130	0	1,330	341	1,530	1,490
10	1,900	2,230	1,360	1,780	1,900	1,780	1,130	0	1,330	*1,100	1,630	1,490
11	1,870	2,350	*1,360	2,000	1,890	1,770	1,130	0	1,320	1,310	1,620	1,350
12	1,850	2,330	1,360	1,990	1,880	1,770	1,120	0	*1,320	1,310	1,620	0
13	1,830	1,040	*1,360	1,980	1,800	1,760	1,120	0	1,320	1,310	1,610	0
14	1,520	0	1,360	*1,980	*1,870	1,760	1,120	0	1,320	900	498	0
15	934	0	1,350	1,980	1,850	1,750	1,120	0	1,320	646	1,100	850
16	721	0	1,350	*1,980	1,870	1,750	1,120	0	1,310	1,090	1,600	*1,490
17	229	0	1,350	1,510	1,870	1,740	1,120	0	1,310	1,300	1,600	1,490
18	155	0	1,350	1,300	1,860	1,740	1,120	0	1,310	1,290	*1,600	643
19	103	0	1,350	1,300	1,860	1,730	1,120	0	1,310	1,290	1,590	710
20	103	0	1,350	1,360	1,850	*1,340	1,120	0	796	1,290	1,390	167
21	103	0	1,350	*2,660	1,850	1,120	1,120	0	0	1,460	1,370	0
22	103	0	1,350	1,360	1,840	1,120	1,110	0	0	567	1,560	0
23	82	0	1,350	*1,960	1,830	1,120	1,110	0	0	0	1,570	0
24	987	0	1,340	1,960	1,830	1,130	1,110	0	0	0	1,570	0
25	2,070	0	1,340	1,960	1,820	1,130	*1,120	0	406	0	1,560	0
26	2,270	0	1,340	1,960	1,810	1,140	176	422	472	0	1,560	0
27	2,240	0	1,340	1,960	1,810	1,150	0	1,360	0	0	1,550	0
28	2,210	0	1,340	1,500	1,810	1,150	0	1,350	0	0	1,550	0
29	*2,180	0	1,340	1,950	-	1,150	0	1,350	0	0	1,540	0
30	2,150	0	1,340	1,950	-	1,150	0	1,350	707	0	1,540	0
31	653	-	*1,340	1,940	-	1,150	-	1,350	-	0	1,530	-
Total	44,133	11,742	39,774	52,900	52,400	47,430	28,376	7,192	27,591	24,896	41,515	21,790
Mean	1,424	391	1,253	1,706	1,671	1,530	946	232	920	803	1,339	726
(†)	-820	+4,039	-257	-857	-1,199	-280	+1,489	+917	-392	-320	-1,278	+2,153

Adjusted for change in contents in Enid Reservoir

	Mean	Cfs	In.
Observed	604	4,430	1,026
Adjusted	1.08	7.91	1.83
In.	1.24	8.82	2.11

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	Mean	Cfs	In.
Observed	604	4,430	1,026
Adjusted	1.08	7.91	1.83
In.	1.24	8.82	2.11

\* Discharge measurement made on this day.

† Change in contents, equivalent in cubic feet per second, in Enid Reservoir.

## 2780. Arkabutla Reservoir near Arkabutla, Miss.

Location.--Lat 34°45'26", long 90°07'27", in SW $\frac{1}{4}$  sec. 2, T. 4 S., R. 9 W., Chickasaw meridian, in gatehouse of dam on Coldwater River, 4 miles north of Arkabutla and 54.3 miles upstream from mouth of Coldwater River.

Drainage area.--1,000 sq mi, approximately.

Records available.--August 1941 to September 1958.

Gage.--Water-stage recorder. Datum of gage is 191.18 ft above mean sea level, datum of 1929 with 1941 Alluvial Valley and 1944 Birmingham-Corinth supplementary adjustments, U. S. Coast and Geodetic Survey (levels by Corps of Engineers); gage readings have been reduced to elevations above mean sea level. Prior to July 1, 1942, staff gage at same site and datum.

Extremes.--Maximum contents during year, 330,200 acre-ft May 13 (elevation, 231.49 ft); minimum, 22,530 acre-ft Oct. 28, 29 (elevation, 207.35 ft).  
1941-58: Maximum contents, 649,940 acre-ft May 21, 1953 (elevation, 241.74 ft); minimum, since initial filling of reservoir to conservation level, 30 acre-ft at times during 1942-45; minimum elevation, 192.83 ft Aug. 25, 1943.

Remarks.--Reservoir is formed by rolled-fill earth dam with concrete spillway and outlet tunnel. Storage began Aug. 14, 1941. Dam completed Aug. 31, 1945. Capacity, 525,300 acre-ft at elevation 238.3 ft (crest of spillway), of which about 493,800 acre-ft is available for flood-control storage and about 31,500 acre-ft is permanent storage which will be maintained for incidental recreational purposes at elevation 209.3 ft (18 ft above sill of outlet gates). Water below elevation 191.3 ft cannot be withdrawn through outlet tunnel. Figures given herein represent total contents. Reservoir used only for flood control.

Cooperation.--Elevations and contents furnished by Corps of Engineers; records reviewed by Geological Survey.

Revisions (water years).--WSP 1007: 1941. WSP 1241: 1947.

Capacity table, water year 1957-58 (elevation, in feet, and contents, in thousands of acre-feet)

207.0	21.11	216.0	78.91	226.0	213.7
208.0	25.40	218.0	99.06	228.0	252.2
210.0	35.36	220.0	122.4	230.0	295.2
212.0	47.48	222.0	149.2	232.0	342.8
214.0	61.89	224.0	179.5		

Contents, in thousands of acre-feet, at 8 a.m., water year October 1957 to September 1958

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47.09	23.06	188.5	185.6	56.53	63.49	94.89	199.2	222.9	156.5	170.3	119.2
2	44.10	23.28	184.4	179.6	52.70	66.28	93.29	228.8	218.3	153.4	168.7	117.3
3	41.90	23.41	180.4	173.3	48.65	67.02	90.67	260.0	211.2	150.4	167.2	116.6
4	39.89	23.59	176.0	166.3	44.94	66.61	86.49	271.0	205.4	148.6	165.5	116.2
5	37.69	23.72	171.9	159.4	44.75	65.78	104.8	280.6	201.1	147.0	163.9	114.0
6	35.25	23.90	167.6	153.1	44.68	64.78	108.9	286.0	198.1	145.4	162.4	112.0
7	32.78	24.03	175.3	146.2	44.36	64.11	108.9	286.7	195.0	144.2	160.4	110.0
8	31.76	29.89	202.6	139.7	44.42	65.61	107.2	285.3	191.5	144.7	158.6	107.6
9	31.71	37.61	216.4	132.6	44.36	70.60	105.0	284.2	188.6	144.9	156.8	105.3
10	31.55	49.17	218.3	125.6	43.97	75.36	102.6	294.9	185.3	144.8	155.2	102.7
11	31.50	49.94	217.4	118.9	43.58	79.64	100.6	316.5	184.8	143.5	153.3	101.0
12	31.30	47.61	216.7	112.1	43.12	81.66	98.42	326.7	188.8	142.7	151.7	101.4
13	31.25	45.14	212.6	107.0	42.62	82.06	96.17	330.2	187.1	141.7	150.1	106.6
14	31.16	48.91	206.1	101.6	42.44	81.66	94.36	329.9	183.9	141.4	146.3	109.5
15	31.16	70.68	200.4	96.71	42.26	80.64	98.52	326.0	180.8	140.0	144.2	107.7
16	31.66	92.11	195.7	91.36	42.68	79.37	108.7	320.7	180.1	138.6	142.7	105.6
17	34.93	100.9	191.0	86.22	42.92	78.27	116.5	314.8	179.2	137.2	141.0	104.9
18	35.04	110.4	194.0	80.73	42.74	78.91	117.7	308.2	176.3	135.5	140.9	107.7
19	33.75	149.6	198.6	75.54	42.44	80.00	116.8	302.8	173.6	134.0	139.4	108.5
20	32.41	183.3	211.9	70.85	42.08	80.55	115.5	298.1	170.6	132.3	137.8	112.3
21	31.66	191.8	227.1	74.63	41.67	80.37	114.5	292.2	169.2	130.6	136.1	150.1
22	31.71	192.7	229.7	78.55	41.43	79.64	114.1	286.4	169.3	131.0	134.5	196.9
23	30.91	192.5	228.4	81.86	41.19	78.27	114.1	279.7	165.2	136.4	133.5	221.6
24	29.65	191.8	223.6	81.01	41.01	83.24	112.1	273.5	162.2	142.5	134.4	234.1
25	29.40	191.8	216.7	78.73	40.84	87.60	112.8	267.0	159.2	143.7	134.8	240.3
26	27.70	194.0	215.3	76.27	40.72	90.67	120.8	261.0	159.8	146.2	133.2	243.8
27	25.71	194.5	212.1	74.63	40.85	94.68	140.0	254.8	162.8	154.9	131.4	244.6
28	23.54	192.7	207.8	72.10	56.46	97.99	155.0	248.6	163.6	162.7	129.0	243.0
29	22.53	192.7	202.7	68.94	-	97.99	165.7	242.2	161.6	167.2	126.5	241.4
30	22.66	190.7	197.7	65.20	-----	97.14	184.4	235.6	159.1	170.6	124.0	238.5
31	22.66	-----	191.8	61.12	-----	96.07	-----	228.6	-----	171.4	121.5	-----
(†)	207.45	224.60	224.50	213.50	214.00	217.65	225.01	228.69	222.57	223.45	219.61	227.28
(†)	-410	+2,795	-27.6	-2,107	+69.0	+544	+1,695	+465	-1,133	+218	-826	+1,978

Calendar year 1957..... \* +200

Water year 1957-58..... \* +262

† Elevation, in feet, at 12 p.m., last day of month.

\* Change in contents, equivalent in cubic feet per second.

















































































































































































































































































































































































































































































