DAILY STAGES FOR 1994

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. TELEMETRY VIA SATELLITE FROM DATA COLLECTION PLATFORM ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 4.2 FEET ON JUL. 11, 1988. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16).

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.1	30.2	38.7	34.7	44.9	17.0	18.1	12.5	10.2	5.1	5.6	12.2
2	15.0	32.0	39.2	35.7	44.6	16.7	19.3	12.3	8.9	6.5	5.6	13.5
3	14.4	33.0	39.4	36.6	44.2	16.3	19.9	12.9	8.2	7.2	5.5	15.1
4	14.0	33.8	39.6	37.3	43.7	16.1	20.2	13.3	8.1	7.5	5.4	16.8
5	13.9	34.5	39.5	37.9	43.1	15.5	20.2	13.6	7.9	7.4	5.2	17.6
6	13.9	34.8	39.5	38.6	42.6	14.9	19.8	13.0	7.7	7.5	5.2	17.8
7	14.1	34.9	39.4	39.1	42.1	14.8	19.2	12.1	7.7	7.7	6.0	17.6
8	14.4	35.0	39.3	39.3	41.7	15.0	18.6	11.4	7.8	7.9	7.5	17.3
9	14.9	35.1	39.3	39.4	41.1	14.3	17.8	11.2	7.9	8.0	9.2	17.4
10	15.9	35.1	39.4	39.6	40.3	14.4	16.8	10.8	7.5	7.7	10.1	18.3
11	17.3	35.1	39.3	39.7	39.3	15.1	15.6	10.4	6.9	7.0	10.4	19.7
12	19.0	35.1	39.3	39.9	38.2	16.0	14.7	10.2	6.4	6.0	10.9	21.0
13	20.8	34.7	39.2	40.0	37.2	16.8	14.6	10.3	5.8	5.2	11.6	22.3
14	22.3	34.0	39.3	40.2	36.6	17.1	14.4	9.9	5.2	5.0	12.6	23.1
15	23.7	33.5	39.4	40.4	36.3	16.9	14.0	9.0	4.8	4.9	13.6	23.9
16	24.7	33.4	39.6	40.9	36.0	16.4	14.1	8.0	4.3	4.5	13.8	24.4
17	25.4	33.5	39.7	41.5	36.0	15.8	14.6	7.1	4.2	4.5	13.3	24.8
18	25.5	33.8	39.8	42.3	35.8	15.4	15.1	6.4	4.2	4.8	12.6	24.9
19	24.7	34.3	39.9	43.2	35.4	15.4	15.1	6.5	4.3	5.3	12.1	24.4
20	23.7	34.6	39.8	44.0	34.5	15.7	14.4	7.3	4.1	5.7	11.5	23.0
21	22.8	35.0	39.9	44.6	33.0	15.7	14.1	8.5	3.8	6.1	11.3	21.3
22	21.8	35.4	39.8	45.2	31.1	15.7	14.1	9.4	3.6	6.4	11.1	19.8
23	20.5	36.1	39.7	45.5	29.1	15.6	14.2	10.5	3.4	6.4	10.3	19.2
24	19.0	36.5	39.4	45.8	27.0	15.4	14.2	11.3	3.6	6.5	9.2	18.3
25	17.8	36.8	39.3	45.8	24.7	15.3	13.9	12.3	4.1	6.4	8.7	17.0
26	17.6	37.1	38.5	45.8	22.6	15.1	13.3	13.5	4.3	6.1	9.1	15.9
27	18.4	37.6	37.1	45.7	21.1	14.9	12.8	14.2	4.1	5.6	10.2	14.8
28	20.4	38.0	36.0	45.5	19.6	14.9	12.6	14.1	3.6	5.3	11.4	13.5
29	22.4	----	34.7	45.3	18.4	15.5	12.5	13.9	3.4	5.4	12.0	12.4
30	25.1	----	33.9	45.2	17.5	16.7	12.7	13.1	3.8	5.5	11.9	11.8
31	28.0	----	34.0	----	17.1	----	12.7	11.7	----	5.6	----	11.1
MEAN	19.6	34.7	38.7	41.5	34.0	15.7	15.6	11.0	5.7	6.2	9.8	18.4
MAX	28.0	38.0	39.9	45.8	44.9	17.1	20.2	14.2	10.2	8.0	13.8	24.9
MIN	13.9	30.2	33.9	34.7	17.1	14.3	12.5	6.4	3.4	4.5	5.2	11.1

THE MEAN STAGE FOR THE YEAR 20.8
HIGHEST STAGE WAS 45.84 25 APR 1994
LOWEST STAGE WAS 3.36 29 SEP 1994

DAILY STAGES FOR 1976

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.1 ON GRAIN ELEVATOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET — GAGE ZERO, 141.70 FEET, M.S.L. (1929 ADJ.)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20.5	21.7	33.2	28.0	19.8	12.4	15.6	10.8	4.6	2.6	9.9	3.3
2	22.2	22.8	33.1	28.1	20.4	12.9	15.4	10.8	5.1	3.5	10.5	3.1
3	23.7	23.6	33.1	28.4	21.2	13.9	15.3	10.0	4.9	5.1	11.2	3.7
4	24.7	24.1	33.0	28.9	21.9	14.8	15.1	9.3	4.6	5.9	11.8	4.4
5	25.5	24.6	32.9	28.9	22.1	16.3	15.2	9.1	5.1	5.7	12.2	4.8
6	26.3	24.9	32.5	29.0	22.0	17.4	15.6	9.4	5.1	5.2	12.3	4.9
7	27.3	24.6	31.9	28.9	21.8	18.3	16.5	9.8	4.0	5.0	12.4	5.0
8	28.3	23.8	30.9	28.8	21.4	18.8	17.1	9.6	3.5	5.3	12.2	4.7
9	28.9	22.7	30.7	28.4	20.7	18.8	17.3	8.9	3.0	5.3	12.2	4.3
10	29.3	21.1	30.5	27.8	19.9	18.6	16.8	7.8	3.8	4.7	11.7	4.1
11	29.7	20.0	30.4	27.1	19.1	18.0	16.3	6.6	3.5	4.0	11.0	4.1
12	29.9	18.6	30.3	26.3	18.5	17.0	15.5	6.4	3.4	3.5	9.9	4.6
13	29.8	17.7	30.2	25.1	18.0	15.4	14.8	6.5	3.4	3.3	8.4	6.1
14	29.5	17.2	29.6	23.6	17.7	13.7	14.2	6.5	3.4	3.9	7.1	7.7
15	28.8	16.7	29.0	22.3	17.0	12.6	13.8	6.3	2.9	4.9	6.2	9.3
16	27.4	16.5	28.1	21.3	16.2	E 11.5	13.3	6.3	2.8	6.8	5.6	10.6
17	25.8	16.2	27.4	20.0	15.5	10.3	12.4	5.8	2.8	9.4	5.1	11.5
18	24.0	16.6	26.8	19.1	15.7	9.6	12.0	5.1	2.6	11.3	4.7	11.6
19	22.6	18.0	26.5	18.2	16.2	10.1	12.2	5.4	2.5	13.2	4.4	10.9
20	21.9	20.0	26.1	17.6	16.4	10.6	12.6	5.9	2.4	14.0	4.0	10.0
21	21.9	22.5	25.8	16.9	16.8	10.7	12.4	6.8	2.0	13.6	3.9	9.4
22	21.9	25.5	25.6	16.5	17.6	10.9	11.4	7.2	1.8	11.8	3.6	8.9
23	21.7	27.6	25.3	16.0	18.6	11.2	10.7	6.8	2.3	9.5	3.3	8.4
24	21.2	29.2	24.7	15.6	18.9	11.9	10.1	6.4	2.5	7.0	3.3	7.6
25	20.4	30.3	24.6	15.6	18.8	13.0	9.4	5.9	2.2	6.5	3.3	6.9
26	19.4	31.3	24.6	16.0	17.9	13.9	8.6	4.8	2.1	5.9	2.8	6.4
27	18.6	32.3	25.1	17.1	16.7	14.4	8.4	4.2	1.9	6.0	2.5	6.1
28	17.9	32.8	25.5	18.0	15.5	15.0	8.8	3.9	1.8	6.1	2.7	5.9
29	17.8	33.0	25.9	18.8	14.6	15.5	9.4	3.8	2.1	7.0	2.7	5.3
30	18.8		27.2	19.2	13.9	15.6	9.9	4.0	2.0	8.5	3.1	4.8
31	20.4		27.9		12.9		10.4	4.3		9.5		4.6

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	24.06	23.30	28.65	22.51	18.17	14.09	13.10	6.91	3.13	6.89	7.12	6.54
MAX.	29.9	33.0	33.2	29.0	22.1	18.8	17.3	10.8	5.1	14.0	12.4	11.6
MIN.	17.8	16.2	24.6	15.6	12.9	9.6	8.4	3.8	1.8	2.6	2.5	3.1

E- ESTIMATED
HIGHEST STAGE WAS 33.20 ON MAR. 1 AND 2.
LOWEST STAGE WAS 1.80 ON SEP. 22, 27 AND 28.

DAILY STAGES FOR 1993

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. TELEMETRY VIA SATELLITE FROM DATA COLLECTION PLATFORM ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 4.2 FEET ON JUL. 11, 1988. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16).

DAILY EIGHT A.M. STAGE IN FEET — GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	28.6	31.1	26.0	36.1	37.9	23.8	24.5	36.4	27.0	29.7	17.4	29.9
2	27.8	30.9	26.7	36.8	37.8	22.9	24.7	36.6	26.2	30.6	17.0	28.7
3	27.0	30.5	27.2	37.3	38.0	22.4	24.9	36.9	25.5	31.5	16.4	27.8
4	26.2	29.7	27.3	37.7	38.1	22.0	25.2	37.1	24.9	32.2	15.7	27.7
5	26.0	28.3	27.0	38.1	38.2	21.6	25.5	37.3	24.4	32.6	15.2	28.4
6	26.1	26.6	26.4	38.4	38.2	21.5	25.8	37.6	24.2	32.9	14.9	28.8
7	26.9	25.0	26.1	38.7	38.4	21.4	26.5	37.7	24.1	32.9	14.8	29.4
8	28.6	23.4	27.1	39.0	38.5	21.6	27.4	37.5	24.2	32.8	14.9	30.1
9	30.3	21.8	29.1	39.6	38.7	22.0	28.4	37.4	24.5	32.4	14.7	30.7
10	31.8	20.4	31.0	40.1	39.0	22.5	29.4	37.4	24.8	31.7	14.3	31.4
11	32.9	19.1	32.5	40.3	39.1	23.2	30.2	37.3	24.8	30.8	14.3	31.9
12	33.5	18.3	33.6	40.4	39.2	24.3	31.0	37.3	24.7	29.5	14.6	32.1
13	33.6	17.8	34.5	40.5	39.0	25.6	31.5	37.2	24.6	27.8	14.4	32.2
14	33.6	17.5	35.1	40.6	38.7	26.5	32.0	37.0	24.4	25.8	14.0	32.5
15	33.3	17.3	35.7	40.8	38.1	26.7	32.3	36.8	24.1	23.9	14.0	32.7
16	32.8	17.4	36.3	40.8	37.3	26.8	32.7	36.5	23.6	22.1	13.9	32.7
17	32.3	17.8	36.7	40.5	36.5	26.9	33.1	36.3	23.4	20.6	15.4	32.4
18	31.8	18.3	36.9	40.3	35.6	26.9	33.4	36.1	23.3	19.6	21.5	31.8
19	31.3	18.8	37.1	40.0	34.8	26.8	33.6	35.8	23.2	18.8	26.1	30.7
20	30.9	19.4	37.1	39.8	34.0	26.7	33.8	35.7	23.3	18.3	29.0	29.3
21	30.8	19.8	36.8	39.7	33.1	26.1	34.1	35.5	23.8	18.2	31.0	27.6
22	30.8	20.1	36.1	39.6	32.6	25.2	34.3	35.2	24.3	17.9	32.5	25.9
23	30.5	20.5	35.1	39.6	32.3	24.1	34.8	34.8	24.7	18.1	33.5	24.4
24	30.4	21.1	34.0	39.5	31.9	23.4	35.3	34.3	24.9	18.8	34.0	23.2
25	30.3	22.0	32.9	39.4	31.3	23.0	35.7	33.6	25.3	19.9	34.1	22.1
26	30.1	23.3	32.3	39.6	30.5	22.8	36.0	32.8	25.8	20.4	34.0	21.3
27	30.0	24.4	32.3	39.4	29.4	22.8	36.3	31.9	26.4	20.4	33.7	20.5
28	30.0	25.3	32.8	39.0	28.3	23.2	36.4	31.0	27.1	20.0	33.1	19.9
29	30.4		33.6	38.6	27.1	23.5	36.4	30.0	28.0	19.4	32.3	19.3
30	30.8		34.5	38.2	25.7	24.0	36.3	29.0	28.8	18.8	31.2	18.6
31	31.0		35.3		24.6		36.4	28.0		18.0		17.4

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	30.33	22.35	32.42	39.28	34.90	24.00	31.54	35.29	24.94	24.72	22.06	27.46
MAX.	33.6	31.1	37.1	40.8	39.2	26.9	36.4	37.7	28.8	32.9	34.1	32.7
MIN.	26.0	17.3	26.0	36.1	24.6	21.4	24.5	28.0	23.2	17.9	13.9	17.4

HIGHEST STAGE WAS 40.84 ON APR. 15.
LOWEST STAGE WAS 13.89 ON NOV. 14.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 4.2 FEET ON JUL. 11, 1988. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16).

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20.2	14.5	19.7	26.7	27.8	9.0	10.0	22.4	6.9	17.6	5.9	30.8
2	20.0	15.1	20.2	25.2	27.6	8.6	9.9	24.0	7.5	17.1	5.6	30.8
3	19.8	14.8	21.0	24.5	27.0	8.9	9.1	25.2	9.0	16.3	5.2	30.7
4	19.7	13.9	21.9	24.7	26.0	9.6	8.5	25.9	10.4	15.3	4.8	30.5
5	19.8	13.0	22.3	25.0	24.7	10.5	8.1	26.1	11.1	14.0	4.7	29.9
6	19.9	12.0	22.5	25.2	23.4	11.1	7.9	26.1	10.9	12.4	5.0	29.1
7	20.3	10.8	22.3	24.8	22.1	11.4	8.6	25.7	9.9	10.6	5.6	27.9
8	21.0	9.8	21.5	24.0	21.0	11.7	9.8	25.2	8.3	9.2	6.6	26.2
9	22.1	8.9	20.3	23.0	20.1	12.1	11.0	24.4	7.0	8.0	8.0	24.4
10	22.6	8.3	20.0	22.0	19.4	12.3	11.7	23.3	6.1	6.9	9.7	22.8
11	22.5	7.7	19.8	20.8	18.9	12.7	11.9	22.1	6.0	5.9	11.4	21.4
12	22.1	7.1	19.6	19.5	18.3	13.3	11.5	20.9	6.5	5.5	12.9	20.1
13	21.1	6.5	20.2	18.3	17.7	13.7	10.9	20.2	6.8	5.3	13.9	18.9
14	20.3	6.2	22.3	17.1	17.2	14.0	10.6	19.6	7.1	5.1	14.5	17.8
15	19.5	6.1	24.7	16.1	17.0	14.3	11.0	18.9	7.9	4.7	15.4	17.2
16	18.6	6.0	26.4	15.2	17.1	14.4	12.1	18.2	8.9	4.5	16.8	17.1
17	17.6	5.8	27.5	14.2	16.8	14.2	13.1	17.4	9.8	4.3	18.2	17.3
18	16.6	6.0	28.3	13.5	16.2	13.5	13.3	16.3	10.3	4.5	19.5	17.5
19	16.5	7.7	29.1	13.2	15.1	12.1	13.5	15.1	10.3	5.4	20.6	18.5
20	17.0	9.6	29.1	13.3	13.8	10.4	14.5	14.2	10.0	6.4	21.1	21.1
21	17.3	11.5	28.7	13.8	12.6	9.2	16.7	13.5	9.5	7.2	21.3	23.9
22	17.0	13.3	28.3	15.0	11.8	8.8	19.0	12.8	9.4	7.7	21.1	26.0
23	16.3	14.8	28.2	17.0	11.3	10.1	20.4	12.3	9.6	8.0	21.1	27.8
24	15.0	15.9	28.4	19.7	10.7	12.5	20.9	11.7	10.0	8.5	21.4	29.3
25	13.6	17.1	28.9	21.9	10.5	14.1	20.9	10.8	11.2	8.8	22.0	30.5
26	12.1	18.2	29.5	23.6	10.4	14.3	20.5	9.4	12.6	8.4	24.2	31.2
27	11.0	19.0	30.1	25.1	10.4	13.7	20.2	8.0	14.0	7.9	26.7	31.4
28	10.5	19.5	30.3	26.3	10.4	12.6	20.1	7.1	15.4	7.1	28.5	31.3
29	10.4	19.6	30.1	27.1	10.3	11.3	20.3	6.9	16.7	6.3	29.8	30.5
30	11.2		29.5	27.6	10.1	10.3	20.6	6.8	17.5	6.2	30.5	29.8
31	12.8		28.4		9.6		21.2	6.8		6.2		29.0

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	17.56	11.68	25.12	20.78	16.95	11.82	14.11	17.32	9.88	8.43	15.73	25.50
MAX.	22.6	19.6	30.3	27.6	27.8	14.4	21.2	26.1	17.5	17.6	30.5	31.4
MIN.	10.4	5.8	19.6	13.2	9.6	8.6	7.9	6.8	6.0	4.3	4.7	17.1

HIGHEST STAGE WAS 31.47 ON DEC 27.
LOWEST STAGE WAS 4.22 ON OCT 17.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 4.2 FEET ON JUL. 11, 1988. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	39.3	27.4	37.3	34.6	33.5	29.3	17.0	5.6	2.5	2.6	0.9	14.5
2	39.9	25.1	37.6	35.0	32.3	30.4	16.5	5.6	2.0	2.3	2.0	13.9
3	40.5	23.2	37.9	35.5	31.4	30.5	15.7	5.8	1.3	1.8	2.9	14.4
4	41.1	22.1	38.0	36.2	30.8	29.8	14.7	5.7	0.7	1.5	3.4	15.4
5	41.7	21.6	37.8	36.8	30.4	28.5	14.0	5.3	0.5	1.2	3.6	18.1
6	42.2	21.9	37.6	37.2	29.9	27.0	13.6	4.8	1.0	1.0	3.8	22.6
7	42.8	22.5	37.2	37.4	29.2	25.8	13.1	4.1	1.2	0.6	4.3	26.0
8	43.1	22.7	36.0	37.2	28.4	24.7	12.6	3.8	1.5	0.3	5.0	28.3
9	43.3	23.2	34.3	37.2	27.9	23.6	12.3	3.6	1.9	0.3	5.4	30.1
10	43.4	24.2	32.7	37.2	27.9	22.7	12.0	3.4	2.1	1.2	5.6	31.8
11	43.5	25.4	31.4	36.3	28.1	21.9	11.6	3.2	1.4	2.3	5.9	32.6
12	43.5	26.8	30.5	34.9	28.5	21.3	11.1	3.2	0.3	2.9	6.2	33.0
13	43.5	27.7	29.9	33.3	29.4	20.8	11.5	3.8	-0.2	2.9	6.2	33.2
14	43.5	28.1	29.6	32.0	30.0	19.6	12.6	4.4	-0.3	2.6	6.1	33.1
15	43.5	29.3	29.4	31.5	30.4	19.0	13.8	4.7	0.1	2.2	5.9	32.0
16	43.5	29.6	29.1	31.0	30.4	18.5	14.6	4.7	0.7	1.6	5.8	30.7
17	43.5	29.9	28.7	31.1	30.2	18.6	14.6	4.6	0.8	0.8	5.9	29.7
18	43.5	30.2	28.3	31.5	29.9	18.8	13.9	4.7	0.6	0.1	5.8	29.1
19	43.4	30.9	28.0	32.5	29.6	18.5	13.4	4.4	0.9	-0.7	5.2	28.8
20	43.2	31.4	27.9	33.5	29.1	18.1	12.9	4.0	1.4	-1.3	5.9	28.5
21	43.0	31.5	28.0	34.3	28.5	18.3	12.1	3.9	1.7	-1.6	7.5	28.2
22	42.6	32.2	28.3	34.9	27.8	18.7	11.0	3.9	1.8	-2.0	7.6	27.5
23	41.8	33.2	28.6	35.4	27.2	19.0	10.1	4.0	2.0	-2.4	7.6	26.2
24	41.1	34.2	29.0	35.8	26.4	19.2	9.3	4.1	2.2	-2.5	8.4	24.7
25	40.3	35.1	29.7	36.0	25.5	19.4	8.4	4.4	2.3	-2.6	9.5	23.1
26	39.4	35.8	30.6	36.1	25.3	19.3	7.6	3.9	2.3	-2.6	10.7	21.8
27	38.1	36.5	31.4	36.1	24.9	18.9	6.8	3.2	2.1	-2.4	12.4	20.8
28	36.5	37.0	32.2	36.0	24.3	18.4	6.4	3.0	1.9	-2.2	14.1	20.1
29	34.5		32.9	35.7	24.2	17.7	6.3	3.2	2.0	-1.8	15.2	19.9
30	32.3		33.7	34.8	25.3	17.3	6.1	3.1	2.5	-1.1	15.2	20.1
31	29.8		34.2		27.3		5.7	2.8		0.0		20.3

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	41.01	28.53	32.18	34.91	28.52	21.78	11.64	4.16	1.37	0.16	6.80	25.11
MAX.	43.5	37.0	38.0	37.4	33.5	30.5	17.0	5.8	2.5	2.9	15.2	33.2
MIN.	29.8	21.6	27.9	31.0	24.2	17.3	5.7	2.8	-0.3	-2.6	0.9	13.9

HIGHEST STAGE WAS 43.58 ON JAN 16.
LOWEST STAGE WAS -2.72 ON OCT 25.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 4.2 FEET ON JUL. 11, 1988. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.9	24.3	39.0	27.3	23.3	38.4	25.8	18.8	15.3	7.3	16.0	9.5
2	2.1	24.1	38.9	26.5	22.6	38.5	25.5	17.6	14.7	6.9	16.1	9.9
3	2.4	25.0	38.6	25.9	22.0	38.8	25.1	16.3	14.6	6.5	15.5	10.7
4	4.0	26.7	37.9	24.8	21.2	39.0	24.5	15.5	14.5	6.1	14.3	11.9
5	6.9	28.1	36.7	23.6	20.6	39.1	24.1	15.5	14.2	5.9	12.8	12.7
6	10.8	29.6	34.9	22.7	20.4	39.0	23.4	15.7	13.8	5.3	10.9	13.4
7	15.1	31.1	32.4	21.9	20.8	39.0	22.9	15.3	13.2	4.9	9.3	14.6
8	18.6	32.4	30.2	20.6	21.3	38.9	22.3	14.9	12.7	5.3	8.3	16.7
9	20.5	33.3	29.1	19.9	22.5	38.6	21.8	14.7	12.4	6.4	7.8	19.0
10	21.8	34.3	28.0	19.3	24.6	38.1	21.2	14.6	12.5	7.6	7.8	20.2
11	22.6	34.8	27.0	18.5	26.4	37.6	20.7	14.8	12.4	8.5	7.8	20.9
12	22.9	35.0	26.0	18.0	27.4	36.9	20.4	15.1	12.0	9.0	7.7	21.1
13	22.6	35.3	25.0	17.6	27.6	36.3	20.3	15.1	11.9	9.6	7.7	20.8
14	21.9	35.5	24.3	18.1	27.3	35.5	19.9	15.0	12.0	10.5	7.9	20.0
15	20.7	35.8	23.9	18.7	26.3	34.6	19.7	14.2	11.5	11.4	8.5	18.7
16	19.5	36.3	24.2	19.4	25.4	33.7	19.7	13.5	10.4	11.7	9.6	17.2
17	18.5	36.6	24.7	20.0	24.9	32.7	19.8	12.8	9.6	11.7	10.3	15.7
18	17.9	36.9	25.1	20.9	25.2	31.6	19.9	12.0	9.3	12.0	11.0	14.9
19	17.2	37.3	26.1	21.9	26.4	30.2	20.2	11.4	9.1	12.8	11.5	15.4
20	16.2	37.7	27.9	22.5	29.4	28.6	20.8	11.1	8.7	14.1	11.3	16.0
21	15.3	38.1	29.7	23.0	32.0	27.4	21.1	10.7	8.4	15.1	10.9	18.2
22	14.8	38.5	31.1	23.2	33.8	27.1	21.4	10.3	8.2	15.6	10.2	23.5
23	15.8	38.9	32.0	22.7	35.2	27.1	21.6	10.3	8.1	15.5	9.1	27.2
24	18.3	39.1	32.6	22.0	36.3	26.9	21.4	10.7	8.2	15.0	8.1	30.7
25	20.4	39.2	32.9	21.4	37.2	26.5	21.3	11.6	8.4	14.6	7.2	32.7
26	22.0	39.1	33.0	21.5	37.8	26.1	20.9	12.7	8.0	14.4	6.9	34.1
27	23.1	39.0	32.7	21.7	38.3	25.9	20.4	13.7	7.6	14.6	6.9	35.3
28	23.8	39.0	32.1	22.3	38.5	25.9	20.2	14.6	7.3	15.0	7.7	36.4
29	24.5		31.0	23.0	38.4	26.0	20.3	15.2	7.3	15.3	8.7	37.4
30	25.1		29.7	23.5	38.3	26.1	20.2	15.5	7.4	15.6	9.2	38.0
31	24.9		28.5		38.4		19.7	15.6		15.7		38.9

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	17.16	34.33	30.49	21.74	28.69	33.00	21.49	14.02	10.78	10.96	9.90	21.66
MAX.	25.1	39.2	39.0	27.3	38.5	39.1	25.8	18.8	15.3	15.7	16.1	38.9
MIN.	1.9	24.1	23.9	17.6	20.4	25.9	19.7	10.3	7.3	4.9	6.9	9.5

HIGHEST STAGE WAS 39.22 ON DEC 31.
LOWEST STAGE WAS 1.80 ON JAN 1.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 4.2 FEET ON JUL. 11, 1988. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET — GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23.6	15.8	39.0	29.1	15.0	21.2	29.0	10.2	11.9	17.8	14.1	14.6
2	24.7	14.9	39.2	29.1	14.5	21.6	28.8	9.9	12.4	17.5	12.5	14.0
3	25.3	14.3	39.2	29.5	14.8	22.3	28.1	9.9	11.8	16.6	10.5	13.0
4	25.2	15.3	39.1	29.9	16.0	22.6	27.2	10.3	11.5	15.8	9.2	12.5
5	24.4	16.1	39.0	30.5	17.7	22.7	26.8	10.4	11.3	15.3	8.1	12.2
6	23.5	17.9	38.8	31.2	19.0	22.3	27.1	10.2	11.8	15.8	7.1	11.9
7	22.5	20.1	38.5	32.3	20.6	21.3	27.2	9.5	12.5	16.5	7.2	11.7
8	21.6	21.3	37.9	33.4	21.8	20.3	27.0	8.3	12.6	16.9	7.3	11.2
9	21.0	22.3	37.2	34.5	22.3	19.6	26.3	7.5	12.1	17.3	8.3	10.3
10	20.7	23.0	36.6	35.4	22.5	19.6	25.5	7.3	11.4	17.5	8.4	9.5
11	21.0	23.0	36.3	36.0	22.5	19.7	24.5	7.4	10.7	17.5	8.4	8.4
12	21.6	22.8	36.0	36.5	22.4	20.1	23.4	7.9	10.0	16.8	8.1	7.7
13	23.2	22.2	35.7	36.8	22.5	20.7	22.3	8.0	9.6	16.0	8.1	7.5
14	24.6	21.3	35.6	36.9	22.6	21.5	21.2	7.3	10.6	14.9	8.8	7.3
15	26.5	21.5	35.6	37.1	23.0	22.1	19.9	5.8	12.3	13.4	9.7	7.5
16	28.0	22.1	35.5	37.1	23.4	22.5	18.9	4.6	14.2	11.8	10.6	7.9
17	29.6	25.0	35.4	36.9	23.7	23.5	18.4	3.4	16.4	10.9	11.1	7.8
18	31.0	29.0	35.2	36.5	23.8	24.5	17.4	2.5	17.9	10.6	11.4	7.3
19	31.5	31.1	34.9	36.0	24.0	25.6	16.9	1.9	18.3	9.6	11.7	6.6
20	32.4	33.0	34.4	34.7	24.2	26.1	16.8	1.7	18.3	8.9	12.6	6.1
21	32.8	34.1	33.3	32.8	24.3	27.4	15.6	2.0	18.4	8.9	14.3	5.7
22	33.0	34.8	31.8	30.3	24.4	28.0	13.7	2.2	18.6	9.7	16.0 E	4.8
23	32.8	35.4	29.9	27.3	24.1	28.4	11.6	2.4	19.0	10.9	17.4 E	3.5
24	32.4	35.9	28.6	23.9	23.6	28.8	10.5	2.6	18.9	12.8	18.7 E	2.8
25	31.7	36.5	27.5	21.3	23.2	29.2	10.4	3.4	18.1	15.3	19.4 E	2.3
26	30.6	37.1	27.3	19.7	23.0	29.6	11.3	4.7	17.2	17.4	19.6 E	3.0
27	28.0	38.0	27.5	18.5	22.7	29.8	11.5	6.2	16.5	18.7	18.9 E	2.6
28	25.5	38.6	27.6	17.5	22.3	30.1	11.7	7.6	16.0	19.4	17.9 E	2.8
29	21.7		28.0	16.8	21.7	29.8	11.6	8.5	16.0	19.2	16.8 E	3.1
30	19.2		28.0	15.7	21.2	29.5	11.3	9.6	17.0	17.9	15.4	1.9
31	17.2		29.1		21.0		11.0	10.9		16.2		1.8

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	26.02	25.80	34.12	30.10	21.53	24.34	19.44	6.58	14.43	14.95	12.24	7.39
MAX.	33.0	38.6	39.2	37.1	24.4	30.1	29.0	10.9	19.0	19.4	19.6	14.6
MIN.	17.2	14.3	27.3	15.7	14.5	19.6	10.4	1.7	9.6	8.9	7.1	1.8

E- ESTIMATED.
HIGHEST STAGE WAS 39.20 ON MAR 2 AND 3.
LOWEST STAGE WAS 1.70 ON AUG 19 AND 20.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET — GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.6	24.2	20.7	12.1	12.9	6.6	E -3.2	-1.0	-2.7	1.5	E -0.5	23.9
2	34.0	21.7	19.9	13.9	12.2	6.1	E -3.3	-1.4	-2.4	2.2	E -0.7	22.9
3	33.9	19.9	18.7	17.0	11.7	5.3	E -3.3	-1.7	-2.2	2.5	-1.3	21.6
4	33.4	19.2	17.8	20.0	11.1	3.8	E -3.4	-2.3	-2.1	2.8	E -1.7	20.2
5	32.5	21.0	16.5	21.7	10.6	2.2	E -3.4	-3.0	-2.1	2.6	E -2.1	18.6
6	30.8	24.1	15.5	22.2	9.9	1.2	-3.5	-3.5	-2.4	1.7	E -2.0	17.2
7	29.0	26.3	15.1	22.5	9.7	0.7	-3.7	-3.8	-2.5	0.8	-1.5	15.5
8	27.0	27.5	15.6	22.9	9.4	0.8	-3.9	-3.9	-2.4	-0.1	-1.1	14.3
9	24.9	28.4	17.6	23.8	9.1	0.8	-4.0	-3.4	-2.4	-0.6	-0.6	13.4
10	23.0	28.6	20.2	24.7	9.0	0.7	-4.1	-2.6	-2.3	-0.8	0.2	11.9
11	20.8	28.8	22.1	25.4	8.9	0.3	-4.2	-2.2	-2.1	-0.9	1.2	10.0
12	17.6	28.9	23.6	25.6	9.2	-0.1	-4.1	-2.5	-1.8	-0.8	2.5	8.0
13	15.3	28.8	24.6	25.7	9.6	-0.6	-3.6	-3.2	-1.7	-1.0	3.6	6.6
14	13.1	28.6	24.8	25.7	9.8	-0.8	-2.5	-3.8	-2.0	-1.4	4.3	6.0
15	11.7	28.3	24.0	25.4	9.9	-1.1	-2.1	E -3.6	-2.5	-2.2	4.5	5.4
16	10.8	27.1	22.7	25.3	9.7	-1.3	-2.2	E -3.4	-3.1	-2.9	4.8	5.0
17	10.4	25.3	21.4	25.1	9.4	-1.6	-2.6	E -3.2	-3.2	-3.1	5.1	4.6
18	10.2	23.2	20.6	24.4	8.9	-1.8	-2.9	E -3.0	-2.9	-3.5	5.0	3.6
19	10.0	21.6	19.9	23.5	8.2	-2.3	-3.2	-2.8	-2.4	-3.3	5.0	2.4
20	12.3	20.5	19.5	22.0	7.8	-2.5	-3.2	-2.5	-1.7	-2.9	7.9	1.4
21	13.4	19.7	19.1	20.6	6.9	-2.7	-3.2	-2.8	-1.6	-2.6	11.0	0.3
22	14.3	19.3	18.4	19.5	6.1	-2.6	-3.1	-2.8	-2.8	-2.3	12.3	-0.3
23	17.8	19.0	16.9	18.8	5.7	-2.6	-3.0	-2.2	-2.8	-2.2	14.3	-0.8
24	23.4	19.1	15.7	18.1	5.7	-2.6	-1.4	-1.4	-1.9	-2.4	E 17.7	-0.6
25	26.5	19.4	14.7	17.5	5.9	-2.7	0.9	-1.4	-0.2	-2.6	20.7	0.8
26	28.0	20.2	13.6	16.8	6.3	-2.8	2.6	-1.5	0.8	-2.4	22.5	2.3
27	28.8	20.9	12.9	15.9	6.7	-2.9	2.7	-1.9	0.8	-1.7	24.1	4.2
28	29.0	21.3	11.8	15.2	7.1	-3.0	1.4	-2.4	0.7	-0.7	24.7	8.7
29	28.9	21.2	11.1	14.1	7.3	E -3.1	-0.3	-2.5	0.7	-1.0	25.0	12.1
30	28.1		11.0	13.4	7.0	E -3.1	-1.1	-2.7	1.1	-0.9	24.8	16.6
31	26.5		11.3		6.8		-1.0	-2.7		-0.7		20.9

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	22.55	23.52	17.97	20.63	8.65	-0.39	-2.32	-2.62	-1.74	-0.93	7.66	9.57
MAX.	34.0	28.9	24.8	25.7	12.9	6.6	2.7	-1.0	1.1	2.8	25.0	23.9
MIN.	10.0	19.0	11.0	12.1	5.7	-3.1	-4.2	-3.9	-3.2	-3.5	-2.1	-0.8

E- ESTIMATED.
HIGHEST STAGE WAS 34.04 ON JAN. 2.
LOWEST STAGE WAS -4.20 ON JUL. 11.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR.	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	21.1	16.8	21.3	18.2	E 26.7	13.1	9.0	5.5	E 4.1	5.8	0.3	6.1
2	21.6	15.9	23.3	18.7	E 25.5	13.2	8.4	5.8	4.6	4.7	0.0	6.5
3	22.0	15.2	25.9	19.7	E 24.4	14.0	7.9	5.8	6.8	3.9	-0.2	7.5
4	22.0	14.7	28.1	21.1	E 23.2	15.1	7.7	5.8	9.1	3.5	-0.4	8.3
5	21.2	14.8	29.6	22.2	22.5	16.2	7.5	6.5	9.9	3.4	-0.2	8.7
6	19.8	15.4	30.7	23.1	21.6	16.8	7.5	6.9	10.1	3.0	0.2	9.6
7	18.4	16.1	31.5	23.8	20.6	16.9	8.4	6.6	9.8	2.6	0.2	10.4
8	17.2	17.1	32.1	24.2	19.4	16.8	9.4	6.6	9.2	2.3	0.1	10.9
9	16.4	17.7	32.4	24.5	18.3	16.3	10.7	6.8	8.3	2.1	0.3	10.9
10	15.8	17.8	32.2	24.6	17.6	15.6	12.2	7.0	7.2	2.3	0.9	10.4
11	15.2	17.8	31.8	24.4	17.5	14.9	14.0	7.2	6.3	2.0	1.4	9.7
12	14.3	17.5	31.0	24.1	17.4	14.0	15.7	6.8	5.5	1.8	1.7	9.2
13	13.7	17.1	29.9	23.8	17.1	13.0	16.5	5.7	5.3	1.4	2.2	8.7
14	12.7	16.6	29.3	24.2	16.3	12.2	16.3	4.7	5.6	0.9	2.5	8.1
15	12.0	16.0	26.4	24.7	15.4	11.6	15.9	4.2	5.6	1.1	3.0	7.9
16	11.7	15.7	24.5	25.3	14.1	11.3	15.6	3.9	5.3	1.3	3.4	8.5
17	11.5	15.2	22.8	26.1	13.0	11.4	15.6	3.6	4.6	1.5	4.5	9.2
18	11.4	14.7	22.2	27.4	12.0	11.6	15.9	2.8	4.2 E	1.3	5.1	9.8
19	11.1	14.4	21.8	29.2	11.5	11.2	16.1	2.8	4.7 E	1.2	4.8	10.3
20	11.0	14.2	20.9	30.6	10.7	10.5	16.0	3.2	5.0	1.0	4.7	10.7
21	10.7	14.0	19.7	31.5	10.2	10.0	15.7	4.0	4.9	1.0	4.5	10.7
22	10.8	13.8	18.7	31.8	9.9	9.8	15.0	4.6	4.6	0.8	4.5	10.6
23	12.1	13.8	18.0	32.0	9.5	9.5	14.0	5.3	4.4	0.5	4.5	10.7
24	13.9	14.3	17.9	32.0	9.4	8.8	13.0	6.3	4.6	0.2	4.5	11.4
25	15.9	14.7	18.7	32.1	9.8	8.2	11.9	6.8	5.7	0.4	4.1	14.2
26	17.6	15.5	19.5	31.9	10.9	8.0	10.7	6.9	6.9	0.8	3.6	19.8
27	18.6	17.0	20.0	31.6	11.9	8.1	9.4	7.1	7.8	1.2	3.9	23.2
28	19.3	19.0	19.7	31.0	13.0	8.6	8.1	7.0	8.0	1.0	4.5	26.4
29	19.7		19.0	29.9	13.7	9.0	7.2	6.4	7.6	0.8	5.2	29.3
30	19.4		18.4	27.7	13.8	9.1	6.6	5.3	6.9	0.6	5.8	31.3
31	18.2		18.1		13.5		5.8	E 4.6		0.5		32.7

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	16.01	15.82	24.37	26.38	15.82	12.16	11.72	5.57	6.41	1.71	2.65	12.96
MAX.	22.0	19.0	32.4	32.1	26.7	16.9	16.5	7.2	10.1	5.8	5.8	32.7
MIN.	10.7	13.8	17.9	18.2	9.4	8.0	5.8	2.8	4.1	0.2	-0.4	6.1

E- ESTIMATED.
HIGHEST STAGE WAS 33.38 ON DEC. 31.
LOWEST STAGE WAS -0.37 ON NOV. 4.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.7	17.0	27.5	25.8	18.7	26.5	11.9	12.9	6.1	18.3	23.0	24.0
2	17.5	16.2	27.1	24.1	18.3	26.3	11.7	12.4	6.2	19.2	23.0	26.4
3	16.3	15.1	26.8	22.6	17.3	25.8	11.7	12.1	6.1	19.6	23.0	28.1
4	15.3	14.4	26.3	21.2	16.3	25.1	11.8	11.7	5.9	19.9	23.0	29.0
5	14.5	13.8	25.5	20.5	15.6	24.5	12.2	11.0	5.8	20.5	22.9	29.5
6	13.9	15.3	24.4	19.8	15.3	23.9	13.0	10.3	5.5	21.5	22.8	29.9
7	13.7	19.3	23.3	19.0	15.5	23.3	14.6	9.9	5.3	23.0	22.5	30.3
8	13.2	22.5	22.1	18.4	15.9	22.5	16.1	9.7	5.6	24.6	22.8	30.5
9	12.9	25.0	21.0	17.9	16.1	22.0	17.4	9.4	6.6	26.3	23.0	30.8
10	12.9	26.8	19.8	17.7	16.0	21.9	18.5	8.9	7.4	27.8	22.8	31.1
11	12.7	29.5	18.6	18.0	16.0	22.3	18.8	8.4	7.5	28.8	22.6	31.2
12	12.1	29.9	17.5	18.6	16.0	23.2	18.1	8.3	7.3	29.7	23.3	31.3
13	11.5	30.1	17.0	19.0	16.1	24.4	17.3	8.4	6.5	30.7	24.3	31.4
14	10.7	30.1	17.4	19.2	16.3	25.1	17.5	8.4	5.4	31.1	25.2	31.8
15	10.3	29.9	18.2	19.1	16.3	25.0	18.5	8.3	5.0	31.2	26.3	32.0
16	9.9	29.6	19.5	18.9	16.3	24.3	19.8	8.2	5.3	31.2	27.0	32.1
17	9.7	29.2	21.8	18.7	16.8	23.4	21.0	8.1	5.4	31.0	27.6	31.7
18	9.5	28.9	24.1	18.4	18.5	22.6	22.1	7.6	5.2	30.5	27.7	31.3
19	9.3	28.8	26.0	18.2	21.2	21.9	23.0	7.1	5.2	30.0	27.5	31.0
20	8.9	28.7	27.5	18.2	22.6	21.4	23.4	6.9	5.9	29.4	26.3	30.6
21	8.9	28.3	28.6	18.1	22.8	20.8	23.6	7.2	6.7	28.8	24.8	30.2
22	8.9	27.8	29.5	18.0	22.5	19.8	23.2	8.2	7.8	28.2	22.8	29.3
23	9.0	27.6	30.1	18.0	22.4	18.7	22.3	9.0	8.3	27.5	21.0	27.9
24	9.6	27.2	30.3	18.4	22.5	17.9	21.2	9.3	8.7	27.0	19.7	26.3
25	10.5	27.3	30.5	18.8	23.2	17.1	19.8	9.2	8.9	26.6	19.0	24.7
26	12.1	27.5	30.6	19.0	24.3	16.1	18.3	8.9	9.9	25.6	18.6	23.2
27	13.8	27.7	30.8	19.0	25.2	15.2	17.0	8.7	11.7	24.8	18.8	22.0
28	15.1	27.7	30.8	19.0	26.1	14.2	16.0	8.1	13.5	24.2	19.2	21.1
29	16.2		30.3	19.0	26.5	13.3	15.1	7.7	15.4	24.0	19.8	20.8
30	17.1		28.0	19.0	26.7	12.4	14.5	7.1	17.0	23.7	21.6	20.4
31	17.5		27.9		26.6		13.6	6.3		23.3		20.5

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	12.64	25.04	25.12	19.32	19.68	21.37	17.51	8.95	7.57	26.06	23.06	28.06
MAX.	18.7	30.1	30.8	25.8	26.7	26.5	23.6	12.9	17.0	31.2	27.7	32.1
MIN.	8.9	13.8	17.0	17.7	15.3	12.4	11.7	6.3	5.0	18.3	18.6	20.4

HIGHEST STAGE WAS 32.12 ON DEC. 15.
LOWEST STAGE WAS 4.92 ON SEP. 15.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET — GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30.9	12.7	33.9	27.2	21.8	17.7	14.9	6.0	12.9	5.8	16.5	36.2
2	31.0	12.6	35.1	27.8	21.8	17.6	14.6	6.2	12.2	6.3	16.7	36.1
3	31.7	12.0	36.2	29.4	22.1	16.9	14.0	6.6	11.6	6.6	17.0	36.0
4	32.8	11.6	37.2	31.0	22.4	16.1	13.1	7.2	11.5	6.9	17.1	35.9
5	33.9	11.5	38.0	32.4	23.1	15.6	12.4	8.1	11.2	7.2	16.8	35.9
6	34.8	16.0	38.7	33.4	23.9	15.6	12.2	9.1	10.4	7.5	16.7	36.0
7	35.4	18.2	39.3	34.1	25.1	16.0	12.6	9.5	9.7	8.0	17.3	35.9
8	35.5	19.8	39.8	34.7	26.2	16.8	12.8	9.5	10.0	8.9	18.1	36.1
9	35.4	20.7	40.1	35.1	26.6	17.7	12.8	9.6	11.0	9.8	18.7	36.2
10	34.9	20.9	40.3	35.4	26.4	18.4	12.5	9.2	10.5	10.2	19.1	36.2
11	34.1	20.9	40.5	35.7	25.7	18.9	12.0	8.2	9.3	10.2	19.8	36.1
12	33.2	20.9	40.7	36.0	24.7	19.1	11.7	7.7	8.3	10.1	20.5	36.2
13	32.4	20.7	40.7	36.0	23.4	19.4	11.4	7.7	7.4	9.8	21.1	36.2
14	31.5	21.1	40.8	35.9	21.6	19.9	11.7	7.7	6.9	9.3	22.1	35.9
15	30.5	21.8	40.4	35.5	20.0	20.7	12.0	7.8	6.2	9.1	23.0	35.6
16	29.1	22.8	40.2	34.8	18.8	21.2	12.1	7.5	5.6	9.8	23.9	35.3
17	27.3	23.5	40.0	33.8	18.0	21.0	12.3	7.3	5.1	12.1	24.7	35.0
18	25.3	23.9	39.6	32.6	17.6	20.4	12.1	7.0	4.8	14.8	25.7	34.6
19	23.3	23.9	39.1	31.2	17.9	19.5	11.2	7.5	4.4	16.9	27.0	33.6
20	21.6	23.6	38.6	29.8	18.4	18.8	10.5	8.9	4.0	17.5	28.4	32.6
21	20.8	23.2	38.4	29.0	18.8	18.2	10.0	10.6	3.8	17.6	29.7	31.6
22	20.8	22.7	38.1	26.8	19.0	18.2	9.7	11.8	3.9	17.2	31.0	31.0
23	17.5	22.3	37.7	25.8	19.2	18.7	9.5	12.4	4.0	17.0	32.1	30.4
24	16.4	22.5	37.2	25.9	19.2	18.9	8.7	12.9	4.0	17.7	33.0	29.8
25	15.8	24.0	36.4	25.2	19.2	18.6	7.7	13.0	4.1	18.6	33.8	28.7
26	15.5	26.9	35.2	24.2	19.1	17.8	7.0	12.9	4.5	19.2	34.4	28.1
27	14.5	30.0	33.6	23.1	18.5	16.6	6.8	12.5	4.9	19.5	35.1	25.7
28	14.0	32.3	31.7	22.2	17.8	15.8	6.7	12.9	4.9	19.5	35.8	24.0
29	13.4		29.8	21.9	17.3	15.3	6.4	13.1	5.0	18.8	36.1	22.5
30	13.0		28.2	22.0	17.2	15.1	6.0	13.0	5.3	17.8	36.2	20.9
31	12.7		27.5		17.5		6.0	13.0		17.0		19.8

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	25.77	20.83	37.20	30.26	20.91	18.02	10.75	9.57	7.24	12.80	24.91	32.37
MAX.	35.5	32.3	40.8	36.0	26.6	21.2	14.9	13.1	12.9	19.5	36.2	36.2
MIN.	12.7	11.5	27.5	21.9	17.2	15.1	6.0	6.0	3.8	5.8	16.5	19.8

HIGHEST STAGE WAS 40.82 ON MAR. 13.
LOWEST STAGE WAS 3.78 ON SEP. 21.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET — GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.8	17.9	29.2	37.0	38.8	38.6	25.5	16.3	8.4	7.5	17.2	22.0
2	19.0	18.6	28.8	37.5	39.6	37.2	25.5	16.3	8.2	6.5	17.3	23.5
3	19.1	18.6	28.3	38.3	40.6	35.8	25.5	16.2	7.9	5.7	17.8	24.9
4	19.3	18.1	28.2	38.9	41.1	34.6	25.2	15.8	7.8	5.0	19.0	25.7
5	19.8	17.3	29.0	39.4	41.5	33.5	25.0	15.2	7.9	4.7	21.4	26.0
6	20.0	16.5	30.1	39.7	41.7	32.8	24.9	14.7	8.2	4.8	23.2	25.9
7	19.5	15.8	30.7	39.9	41.8	32.3	25.0	14.3	8.7	5.5	24.5	25.5
8	18.7	15.5	31.5	40.1	42.3	31.3	25.6	14.0	8.6	5.7	25.4	24.5
9	17.7	15.7	32.0	40.4	42.6	30.1	26.0	13.8	7.9	6.0	25.9	23.1
10	16.9	16.0	32.6	40.7	42.8	28.7	26.3	13.8	7.5	6.2	25.9	21.6
11	16.6	16.0	32.9	40.9	43.2	26.0	26.4	13.7	7.3	6.4	25.6	20.1
12	16.0	16.0	33.0	41.1	43.6	25.3	26.6	13.1	6.7	6.4	24.5	18.9
13	15.7	16.5	32.6	41.2	44.1	23.7	26.7	12.8	6.3	6.2	23.5	17.8
14	15.9	16.8	32.0	41.3	44.7	22.7	26.5	12.5	6.7	5.7	22.8	16.9
15	15.9	16.9	31.0	41.2	45.3	22.5	26.0	12.3	7.5	5.4	22.5	16.3
16	15.8	18.1	29.8	41.2	45.8	22.7	25.4	12.4	8.0	5.1	22.6	16.1
17	15.4	20.0	28.0	41.1	46.2	23.3	24.7	12.7	8.3	5.1	22.7	16.8
18	14.8	21.9	26.4	41.1	46.5	23.7	24.3	13.5	8.0	5.4	22.7	18.1
19	14.2	23.9	25.4	41.0	46.7	23.9	23.7	14.0	7.3	5.9	23.0	19.2
20	13.9	25.8	25.7	40.7	46.8	24.1	23.1	14.3	6.5	6.7	22.5	20.4
21	13.9	27.0	27.1	40.2	46.9	24.4	22.3	14.3	6.5	7.4	21.4	22.2
22	13.9	27.9	28.8	39.7	46.8	24.3	21.5	14.2	6.9	8.9	20.9	23.0
23	13.9	28.9	30.3	38.8	46.8	24.5	20.7	13.7	7.1	10.6	21.6	24.2
24	13.9	29.7	31.8	37.8	46.6	24.9	20.4	12.8	7.0	12.9	23.1	25.8
25	13.0	30.2	32.8	36.8	46.2	25.2	19.9	12.3	6.4	15.4	24.3	27.6
26	12.9	30.7	33.7	36.2	45.6	25.5	19.1	11.3	5.9	17.8	24.9	29.0
27	12.5	30.8	34.4	36.2	44.9	25.6	18.2	10.3	6.4	18.7	24.9	29.8
28	12.5	30.7	35.1	36.7	44.1	25.5	17.3	9.6	7.2	18.7	24.3	30.6
29	13.4	29.9	35.5	37.3	43.0	25.5	17.0	9.2	8.2	18.6	22.9	30.9
30	14.9		36.1	38.3	41.7	25.5	16.7	8.8	8.3	18.4	21.9	31.0
31	16.5		36.5		40.1		16.5	8.6		17.8		31.0

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	15.98	21.64	30.95	39.36	43.82	27.45	23.15	13.12	7.45	9.07	22.69	23.50
MAX.	20.0	30.8	36.5	41.3	46.9	38.6	26.7	16.3	8.7	18.7	25.9	31.0
MIN.	12.5	15.5	25.4	36.2	38.8	22.5	16.5	8.6	5.9	4.7	17.2	16.1

HIGHEST STAGE WAS 46.94 ON MAY 21.
LOWEST STAGE WAS 4.72 ON OCT. 5.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	37.8	20.6	21.8	25.8	41.3	47.3	20.6	16.3	6.8	4.4	16.5	26.8
2	38.6	20.2	21.8	25.8	41.0	47.2	20.2	14.8	7.2	5.0	14.8	28.0
3	39.2	20.0	21.6	26.0	40.8	47.1	19.8	13.6	7.3	5.3	13.2	29.8
4	39.9	19.8	21.3	26.6	40.8	46.8	19.6	12.8	7.3	5.7	11.9	31.4
5	40.2	19.8	21.0	27.5	41.0	46.5	20.0	12.1	7.6	5.8	10.9	32.0
6	40.3	20.3	21.1	28.8	41.6	46.0	21.1	11.6	7.7	6.0	9.9	32.7
7	40.4	21.9	21.0	30.0	42.4	45.3	21.9	11.4	7.1	5.9	9.2	33.3
8	40.4	23.0	20.8	31.2	43.3	44.4	22.3	11.2	6.0	5.6	9.1	33.7
9	39.9	24.2	21.5	32.6	44.1	43.0	22.4	11.0	5.1	5.1	9.9	34.2
10	38.8	24.9	22.7	33.8	45.0	41.7	22.2	11.0	4.7	4.7	11.4	34.6
11	37.4	25.3	24.0	35.2	45.7	40.1	22.0	10.8	5.1	4.5	12.8	34.8
12	35.4	25.4	24.9	36.3	46.4	38.3	21.6	10.9	5.7	4.0	13.3	34.8
13	33.2	25.2	25.5	37.4	46.8	36.0	21.1	11.1	6.0	3.5	13.0	34.4
14	30.7	24.7	25.8	38.5	46.9	33.6	20.8	10.3	5.5	3.1	12.4	34.0
15	28.3	24.1	25.7	39.6	47.1	31.0	20.4	9.7	4.7	3.0	11.9	33.5
16	26.6	23.6	25.5	40.2	47.3	28.6	19.8	9.5	4.3	3.0	11.8	33.1
17	24.2	23.2	25.1	40.8	47.4	26.8	19.4	9.1	4.4	3.5	12.4	33.0
18	23.0	22.9	24.6	41.5	47.4	24.6	18.8	8.8	4.9	4.0	13.5	32.9
19	22.0	22.6	24.1	42.2	47.5	23.2	18.2	8.7	4.4	3.8	14.4	32.6
20	21.0	22.3	23.4	42.5	47.6	22.2	17.6	8.7	3.4	4.1	15.0	32.1
21	20.0	21.8	22.7	42.6	47.6	21.6	17.0	8.5	2.9	4.7	15.1	31.5
22	19.0	21.6	22.1	42.7	47.6	21.6	16.8	8.1	3.0	5.0	15.0	31.0
23	18.3	21.9	21.8	42.9	47.4	21.6	16.8	7.5	3.2	5.3	16.0	29.9
24	17.6	22.3	21.9	42.9	47.3	21.9	16.7	7.3	3.4	6.2	18.0	28.3
25	17.2	22.5	22.7	43.0	47.3	22.5	16.4	7.0	3.6	8.5	19.5	27.0
26	17.2	22.2	23.5	42.9	47.3	22.8	16.0	6.9	3.8	11.6	20.6	26.0
27	18.1	22.0	24.8	42.7	47.3	23.0	15.9	7.1	4.4	14.3	22.2	24.5
28	19.5	21.9	25.3	42.5	47.4	22.6	16.1	7.3	4.4	16.2	24.0	23.0
29	20.4		25.5	42.3	47.4	22.2	16.6	7.3	4.2	17.3	25.5	21.6
30	20.8		25.7	41.8	47.4	21.4	17.3	7.3	4.1	17.6	26.1	21.4
31	20.9		25.8		47.4		17.3	7.0		17.4		20.6

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	28.58	22.49	23.38	36.94	45.57	32.68	19.11	9.83	5.06	6.89	14.96	30.21
MAX.	40.4	25.4	25.8	43.0	47.6	47.3	22.4	16.3	7.7	17.6	26.1	34.8
MIN.	17.2	19.8	20.8	25.8	40.8	21.4	15.9	6.9	2.9	3.0	9.1	20.6

HIGHEST STAGE WAS 47.59 ON MAY 22.
LOWEST STAGE WAS 2.90 ON SEP. 21.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET — GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.4	31.4	35.7	38.7	25.1	23.0	17.8	18.3	12.5	10.4	9.3	22.0
2	18.7	31.9	36.0	38.8	24.4	23.5	16.9	17.2	13.5	10.0	9.2	23.1
3	18.5	32.6	36.0	38.7	23.7	24.8	16.8	16.3	14.5	9.6	9.1	24.2
4	17.9	33.5	36.0	38.6	23.3	26.7	16.9	15.8	15.9	9.1	9.2	26.0
5	17.3	34.1	35.7	38.2	22.7	28.4	17.5	15.3	17.4	8.6	9.2	27.9
6	16.8	34.4	35.3	37.5	22.0	29.6	17.9	14.9	19.7	7.9	9.5	29.9
7	17.7	34.4	34.4	36.5	21.4	30.3	18.4	14.4	21.7	7.6	10.1	32.3
8	21.0	34.1	33.2	35.6	21.0	30.5	19.3	13.9	22.4	7.9	11.1	34.0
9	23.6	34.0	31.8	34.8	20.5	30.1	20.4	13.5	21.8	7.8	12.3	35.3
10	25.3	33.8	30.3	34.2	20.3	29.7	21.8	13.3	20.2	7.8	12.7	36.2
11	26.0	33.5	29.3	33.5	20.1	29.5	23.0	13.1	18.5	7.8	12.8	37.3
12	26.3	33.2	27.8	32.7	19.9	29.5	23.3	13.1	16.8	7.6	12.9	37.9
13	26.3	32.9	27.2	31.8	19.6	29.8	23.0	13.8	15.1	7.9	12.6	38.3
14	25.9	32.7	26.5	30.8	19.4	30.2	22.5	14.9	13.6	8.2	11.9	38.5
15	25.0	32.6	26.3	29.6	19.4	30.4	22.1	15.2	12.5	8.9	11.1	38.7
16	23.3	32.4	26.2	28.6	19.4	30.8	21.3	15.4	12.1	9.5	10.4	38.8
17	21.2	31.9	26.7	28.2	19.1	31.2	20.2	15.0	12.2	10.3	10.3	38.6
18	19.0	31.3	27.8	28.1	18.3	31.1	19.4	13.9	12.6	11.5	10.6	38.1
19	17.1	30.5	29.5	27.6	17.5	30.9	18.7	12.7	13.1	11.5	11.4	37.6
20	15.1	29.8	31.1	27.5	16.6	30.5	18.1	12.9	13.6	11.5	13.0	37.1
21	13.8	29.5	32.6	27.6	16.3	30.1	17.8	14.9	14.3	11.3	14.7	36.5
22	13.2	29.8	33.6	27.9	16.7	29.7	17.9	16.5	14.8	11.2	15.5	36.1
23	12.9	30.7	34.6	28.4	17.6	29.2	18.1	16.9	14.8	11.0	16.1	35.5
24	13.1	31.9	35.4	28.8	18.3	28.4	18.5	16.4	14.4	10.6	16.8	35.0
25	14.2	32.8	36.2	29.0	19.5	27.3	19.4	15.2	13.8	10.3	17.3	34.4
26	19.3	33.7	36.8	29.1	20.7	26.1	20.3	13.8	13.4	10.0	17.9	34.4
27	24.1	34.5	37.2	29.0	21.2	24.3	21.0	12.8	13.0	9.7	18.4	34.6
28	26.9	35.2	37.7	28.2	21.4	22.5	21.4	12.3	12.6	9.4	19.2	35.0
29	28.6		38.1	27.1	21.7	21.0	21.5	11.8	12.0	9.1	20.2	35.7
30	29.9		38.4	25.9	22.4	19.3	20.8	11.5	11.0	9.1	21.1	36.4
31	30.7		38.6		22.8		19.6	11.9		9.2		37.0

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	20.87	32.60	32.96	31.69	20.40	27.94	19.75	14.43	15.13	9.43	13.20	34.27
MAX.	30.7	35.2	38.6	38.8	25.1	31.2	23.3	18.3	22.4	11.5	21.1	38.8
MIN.	12.9	29.5	26.2	25.9	16.3	19.3	16.8	11.5	11.0	7.6	9.1	22.0

HIGHEST STAGE WAS 38.81 ON DEC. 15 AND 16.
LOWEST STAGE WAS 7.54 ON OCT. 11.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET — GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.2	2.0	22.0	7.1	24.2	30.8	26.0	23.1	9.9	5.7	10.5	8.1
2	1.8	2.6	23.1	7.4	23.2	29.9	25.8	24.0	9.6	5.9	11.1	8.5
3	1.6	3.9	24.2	8.2	21.9	29.1	25.5	25.1	10.0	6.3	12.2	9.2
4	1.5	5.0	24.8	9.6	20.6	28.6	25.0	25.8	10.8	6.8	13.0	10.2
5	1.5	5.8	25.3	11.2	19.3	28.4	24.3	26.0	12.0	7.0	13.5	11.9
6	1.8	7.3	25.4	12.5	18.2	28.9	23.7	25.4	13.5	7.1	13.5	13.5
7	2.3	9.8	25.2	12.8	17.6	29.8	23.3	24.2	14.8	6.9	13.1	14.3
8	2.2	12.2	25.0	12.2	17.6	30.5	23.2	23.0	15.9	6.6	12.5	14.9
9	1.9	14.3	24.5	11.9	18.0	31.0	23.6	21.3	16.7	6.6	12.7	15.1
10	1.3	15.7	23.7	12.7	18.4	31.6	24.2	20.1	17.0	6.9	14.3	15.5
11	0.7	15.9	22.8	14.2	18.4	32.2	24.9	19.3	17.1	7.1	15.2	15.4
12	0.5	15.3	21.8	15.2	17.8	32.6	25.5	19.0	16.8	7.2	15.0	14.7
13	0.5	14.0	21.0	15.7	17.2	32.5	25.7	18.5	15.9	7.1	14.2	13.5
14	0.4	12.9	20.4	15.7	16.8	32.2	25.2	18.2	14.8	7.1	13.3	12.5
15	0.4	12.0	19.6	15.3	16.8	31.9	24.0	18.0	13.5	7.2	12.4	11.7
16	0.4	11.6	18.4	14.7	17.2	31.6	22.4	17.2	12.6	7.4	11.7	11.0
17	0.3	11.4	17.0	14.6	18.2	31.4	20.8	16.3	12.0	7.4	11.0	10.5
18	0.3	11.4	15.3	15.1	19.2	31.4	19.4	15.6	11.5	7.6	10.3	10.2
19	0.2	11.7	13.7	16.8	19.7	31.3	18.2	15.0	11.0	8.1	9.5	10.0
20	-0.1	12.2	11.9	19.2	20.4	31.3	17.7	14.5	10.5	8.0	8.7	9.5
21	-0.3	12.5	10.5	21.2	22.2	31.1	17.7	14.3	10.3	8.2	7.8	9.2
22	-0.3	12.5	9.7	22.6	25.2	30.8	17.7	13.9	10.0	8.7	7.1	9.1
23	-0.1	13.0	9.3	23.6	28.2	30.5	17.5	13.7	9.5	9.5	6.7	8.9
24	0.	14.9	8.9	24.0	30.2	30.2	18.2	13.7	8.9	9.9	6.6	8.4
25	0.1	17.4	8.5	24.5	31.6	29.6	19.5	13.3	8.2	10.0	6.6	8.0
26	0.2	19.5	8.3	25.2	32.7	29.0	20.4	12.4	7.6	10.2	6.9	8.8
27	0.4	20.6	7.8	25.5	33.1	28.4	21.1	11.7	7.2	10.4	7.4	10.9
28	0.3	21.2	7.1	25.4	33.1	27.7	21.6	11.3	6.7	10.2	7.9	13.4
29	0.5		6.2	25.2	32.7	27.4	22.0	11.0	6.0	10.0	8.2	15.3
30	1.2		6.2	24.9	32.2	26.3	22.3	10.8	5.6	10.1	8.1	16.5
31	1.7		6.7		31.5		22.6	10.3		10.2		17.6

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	0.81	12.09	16.59	16.80	23.00	30.28	22.23	17.62	11.54	7.98	10.70	11.81
MAX.	2.3	21.2	25.4	25.5	33.1	32.6	26.0	26.0	17.1	10.4	15.2	17.6
MIN.	-0.3	2.0	6.2	7.1	16.8	26.3	17.5	10.3	5.6	5.7	6.6	8.0

HIGHEST STAGE WAS 33.20 ON MAY 27.
LOWEST STAGE WAS -0.30 ON JAN. 21.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1, APPROXIMATELY 850 FEET BELOW MOUTH OF HELENA HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY THE NATIONAL WEATHER SERVICE. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	25.5	21.3	19.1	38.2	27.4	20.6	16.0	10.6	17.5	10.3	7.3	9.9
2	25.7	20.4	20.1	38.4	24.9	19.6	15.4	10.2	15.7	9.9	7.8	10.7
3	25.9	19.4	21.5	38.7	22.8	18.5	15.8	9.6	13.7	9.6	7.7	11.1
4	26.0	17.5	21.4	39.0	21.6	17.2	16.1	9.6	11.6	10.0	7.6	11.2
5	26.0	16.3	20.8	39.2	20.8	16.2	16.2	10.2	10.2	10.3	7.7	11.2
6	25.8	15.3	19.5	39.4	20.4	15.2	16.2	10.8	9.6	10.2	7.8	10.9
7	24.7	14.4	18.3	39.4	20.4	15.2	16.4	10.6	10.0	9.9	7.5	9.8
8	23.7	13.8	17.2	39.5	20.3	16.2	16.8	9.6	11.0	9.5	7.2	8.7
9	22.2	12.8	16.6	39.4	20.2	20.0	16.9	9.2	11.8	9.0	7.2	8.0
10	20.7	12.1	16.6	39.2	19.7	22.2	16.4	9.2	12.3	8.9	6.9	8.5
11	19.6	11.9	18.0	38.7	18.8	23.6	15.6	10.0	13.0	8.9	6.5	8.9
12	19.0	10.8	20.1	38.4	17.6	24.4	15.2	10.8	13.6	8.6	6.1	8.9
13	18.8	10.6	23.0	37.9	16.4	24.5	14.0	11.1	13.6	8.4	5.6	8.6
14	18.3	10.6	24.6	37.7	15.0	24.0	14.0	11.3	13.0	7.6	5.2	8.7
15	18.3	10.6	25.9	37.2	13.8	23.6	14.0	11.2	12.0	6.1	5.6	10.5
16	18.8	11.3	26.7	36.8	13.4	22.8	14.2	10.8	11.0	5.1	5.4	13.0
17	19.9	11.3	27.8	36.2	12.7	22.4	14.8	10.8	10.3	4.6	5.1	14.5
18	21.4	11.4	28.5	35.9	12.5	22.0	15.6	11.7	10.0	4.2	6.0	14.7
19	22.4	11.8	28.8	35.9	13.0	21.5	15.8	13.0	9.8	4.0	6.4	14.0
20	22.7	12.6	29.3	35.8	13.7	20.8	15.8	14.5	9.9	4.2	6.5	12.7
21	22.8	13.4	30.5	35.8	15.3	20.2	15.2	15.9	10.3	4.1	6.7	11.1
22	22.8	13.9	31.2	35.6	18.0	20.0	14.8	16.4	10.5	4.0	7.0	9.8
23	22.6	14.8	31.9	35.6	20.6	19.8	14.2	16.6	10.5	5.0	7.5	8.3
24	22.6	15.9	33.1	35.4	21.6	19.8	11.8	17.0	10.5	6.1	8.3	7.2
25	22.7	16.7	33.9	35.1	22.2	20.0	10.2	17.4	10.5	5.3	8.9	6.6
26	22.8	16.6	34.7	34.9	21.8	19.4	9.0	18.1	11.2	4.6	8.7	6.0
27	23.0	16.7	35.3	34.3	21.6	18.7	8.6	18.8	11.4	4.6	8.0	4.8
28	23.2	17.4	36.0	33.4	21.8	18.2	9.6	19.3	11.0	4.9	7.8	3.4
29	22.8	17.9	36.7	31.9	21.8	17.5	10.8	19.4	10.8	4.9	8.3	3.0
30	22.6		37.3	29.8	22.0	16.4	11.6	19.2	10.7	4.9	9.2	3.0
31	22.0		37.8		21.6		11.8	18.7		6.1		2.7

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	22.43	14.46	26.53	36.76	19.15	20.02	14.15	13.28	11.57	6.90	7.10	9.04
MAX.	26.0	21.3	37.8	39.5	27.4	24.5	16.9	19.4	17.5	10.3	9.2	14.7
MIN.	18.3	10.6	16.6	29.8	12.5	15.2	8.6	9.2	9.6	4.0	5.1	2.7

HIGHEST STAGE WAS 39.57 ON APR. 8.
LOWEST STAGE WAS 2.46 ON DEC. 31.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00 LONG. 90-35-03. MILE 663.1 ON GRAIN ELEVATOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

MEAN. NOT COMPUTED FOR PERIOD OF RECORD.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, N.G.V.D. OF 1929

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	25.1	32.4	32.9	40.8	45.5	26.2	20.6	22.7	24.0	26.5	12.2	29.5
2	24.5	32.5	34.2	40.9	44.8	26.5	20.1	24.1	24.3	26.4	12.9	30.5
3	24.0	32.3	35.4	41.0	43.9	27.6	19.3	25.0	24.5	26.0	13.0	31.0
4	24.3	31.7	36.7	41.8	43.2	28.4	18.1	25.3	24.5	24.9	12.8	31.4
5	25.2	30.8	37.6	42.3	42.3	28.7	17.1	25.9	24.6	24.1	12.9	31.6
6	26.4	29.4	38.3	42.7	41.3	28.8	16.7	25.9	24.5	23.7	14.2	31.5
7	27.6	27.4	38.8	43.1	40.4	28.2	16.8	25.3	24.2	23.4	15.8	31.4
8	28.5	24.9	39.6	43.6	39.7	27.5	16.9	24.9	23.3	23.0	17.0	30.8
9	29.1	22.3	40.2	44.1	39.2	26.5	16.7	23.9	22.0	22.4	18.1	30.5
10	29.6	20.2	40.9	44.5	38.9	25.5	16.8	23.3	21.0	21.7	19.7	28.4
11	30.0	18.4	41.7	45.0	38.8	24.6	17.3	22.6	20.0	21.0	20.4	26.3
12	30.4	17.0	42.8	45.4	38.7	24.1	17.4	21.7	19.0	20.3	20.6	24.2
13	30.7	16.0	44.4	45.8	38.8	24.5	17.5	21.0	18.3	19.8	20.7	23.1
14	30.8	15.3	44.8	45.7	38.7	24.4	17.4	20.6	17.7	19.2	21.0	22.5
15	30.8	14.7	44.9	45.9	38.6	24.3	17.6	20.3	17.4	18.7	21.3	21.8
16	30.5	14.1	45.2	46.0	38.3	24.4	17.6	20.0	16.9	18.2	21.7	21.5
17	30.1	13.5	45.2	46.2	36.7	24.1	18.1	20.0	16.8	17.9	22.0	21.6
18	29.5	13.2	45.1	46.5	35.7	23.1	18.4	20.0	17.9	18.1	22.1	22.3
19	28.5	13.2	44.9	46.8	34.5	22.1	18.5	20.0	20.4	18.5	22.0	23.2
20	27.8	13.5	44.8	47.3	33.4	20.9	18.6	19.5	23.0	18.8	22.0	24.5
21	27.0	14.3	44.6	47.5	32.4	19.6	18.5	17.8	24.5	18.8	21.9	25.0
22	26.2	15.6	44.4	47.8	31.6	19.0	18.4	16.7	25.4	18.5	21.4	24.8
23	25.9	17.6	44.3	47.9	31.0	18.0	18.3	16.5	25.2	18.1	21.4	23.9
24	26.4	20.4	44.2	48.2	30.3	17.7	18.3	16.0	24.5	17.3	21.6	23.1
25	27.4	22.5	43.8	48.1	29.1	17.8	18.0	16.0	24.4	16.0	21.0	22.1
26	28.5	25.6	43.4	48.0	28.0	18.4	18.0	17.7	24.1	15.2	20.9	21.2
27	29.4	28.5	43.1	47.6	26.8	19.0	17.5	19.7	24.6	14.2	20.8	20.3
28	30.3	30.9	42.5	47.1	26.0	19.7	17.5	21.3	25.6	13.6	23.3	21.0
29	31.1		41.9	46.7	26.2	20.2	18.3	22.5	26.3	13.3	25.8	22.1
30	31.7		41.5	46.1	25.9	20.5	19.3	23.2	26.5	12.7	27.8	23.5
31	32.1		41.2		25.8		20.5	23.8		12.6		24.9

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE.

MEAN	28.38	21.72	41.72	45.34	35.63	23.34	18.07	21.39	22.52	19.45	19.61	25.47
MAX.	32.1	32.5	45.2	48.2	45.5	28.8	20.6	25.9	26.5	26.5	27.8	31.6
MIN.	24.0	13.2	32.9	40.8	25.8	17.7	16.7	16.0	16.8	12.6	12.2	20.3

HIGHEST STAGE WAS 48.17 ON APR. 24.
LOWEST STAGE WAS 12.10 ON NOV 1.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-00, LONG. 90-35-03. MILE 663.1 ON GRAIN ELEVATOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET — GAGE ZERO, 141.70 FEET, M.S.L. (1929 ADJ.)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	24.4	25.1	10.9	40.6	28.7	30.5	16.2	17.1	10.7	13.8	6.8	15.0
2	24.2	26.7	10.7	40.9	28.5	29.7	16.2	17.0	11.4	13.5	7.9	16.2
3	23.5	27.8	11.3	41.1	28.5	28.6	16.1	16.7	11.9	13.3	8.3	18.2
4	22.7	28.5	12.3	41.0	28.5	27.5	16.7	16.8	12.4	12.7	8.3	19.7
5	21.9	28.9	12.9	41.2	28.5	25.9	17.4	17.4	13.2	11.1	7.7	20.2
6	20.9	29.0	13.0	41.2	28.7	24.0	18.1	17.6	13.8	10.1	6.6	20.3
7	19.9	29.0	13.1	41.2	29.4	22.6	18.5	17.8	14.5	9.5	6.0	21.8
8	19.4	28.2	13.7	41.0	29.8	21.5	18.6	17.4	14.9	8.9	5.4	24.4
9	19.6	27.1	14.2	40.6	29.5	20.9	18.6	16.9	14.3	8.5	4.8	26.5
10	19.8	25.6	14.7	40.0	29.0	20.2	18.7	16.5	12.8	8.1	4.7	28.0
11	19.2	24.3	16.2	39.0	29.0	19.6	18.9	16.0	11.7	7.7	4.9	29.4
12	20.7	21.5	17.4	38.0	29.9	19.1	19.1	15.8	10.9	7.2	5.0	30.8
13	21.5	18.8	18.3	36.5	31.2	18.8	19.3	15.9	10.4	6.8	4.9	31.9
14	22.5	17.3	20.1	34.6	32.7	18.7	19.5	16.0	10.2	6.6	4.7	32.7
15	23.5	16.1	22.4	33.2	33.8	18.6	19.7	16.0	10.5	6.5	4.5	33.3
16	24.6	15.9	24.8	32.0	34.2	18.6	19.6	15.7	10.7	6.6	4.3	33.7
17	25.5	14.9	27.7	31.4	34.8	18.4	19.5	15.4	10.4	7.1	4.6	33.9
18	26.2	14.6	29.3	31.2	35.2	18.0	19.2	15.1	10.4	7.8	5.0	34.1
19	25.2	14.5	31.2	31.0	35.6	17.7	19.4	14.9	10.4	8.5	6.5	34.2
20	25.6	14.4	32.7	30.9	35.8	16.9	19.7	14.5	9.5	9.0	8.1	34.3
21	24.1	14.1	34.0	30.7	36.0	14.5	20.1	14.0	9.1	9.7	9.5	34.4
22	21.5	13.9	35.1	30.3	36.1	14.0	20.5	13.2	9.4	9.8	10.6	34.4
23	20.7	13.5	35.9	29.7	36.0	13.8	20.4	12.5	10.4	9.4	12.0	34.2
24	19.4	13.1	37.0	29.4	35.9	13.9	20.0	12.1	11.8	8.7	13.0	33.7
25	18.9	12.9	37.3	29.0	35.4	14.3	18.4	11.5	13.4	8.0	13.8	33.0
26	19.3	12.7	37.6	29.0	34.8	14.3	17.4	11.1	14.4	7.4	13.9	32.0
27	20.1	12.2	38.0	29.1	34.1	14.3	16.5	10.3	14.8	6.9	13.3	30.7
28	20.3	11.2	39.0	29.3	33.5	14.6	16.0	9.9	14.6	6.3	12.6	29.7
29	20.9		39.2	29.3	33.0	15.1	16.0	9.2	14.4	5.7	12.6	28.0
30	21.9		39.9	29.1	32.2	15.7	16.4	9.3	14.2	5.5	13.9	26.8
31	23.5		40.3		31.3		16.9	10.3		5.8		25.8

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	22.00	19.70	25.16	34.71	32.24	19.33	18.30	14.50	12.04	8.59	8.13	28.42
MAX.	26.2	29.0	40.3	41.2	36.1	30.5	20.5	17.8	14.9	13.8	13.9	34.4
MIN.	18.9	11.2	10.7	29.0	28.5	13.8	16.0	9.2	9.1	5.5	4.3	15.0

HIGHEST STAGE WAS 41.3 ON APR. 4.
LOWEST STAGE WAS 4.3 ON NOV. 16.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.1 ON GRAIN ELEVATOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA (REVISED), 937,700 SQUARE MILES; BANKFULL STAGE, 41 FEET. LOW WATER REFERENCE PLANE, 4.1 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE; STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1); DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, MINUS 0.16); DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET — GAGE ZERO, 141.70 FEET, M.S.L. (1929 ADJ.)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.4	3.9	11.6	24.4	16.5	6.9	12.4	7.7	10.3	17.4	19.9	24.4
2	4.7	3.2	14.4	25.5	16.7	6.1	13.9	7.6	9.8	17.4	20.4	24.7
3	4.7	2.9	17.6	26.5	16.9	5.7	14.8	7.3	8.8	17.4	20.0	25.2
4	4.2	2.5	20.3	26.8	16.7	5.3	15.3	6.7	8.0	17.4	19.4	25.9
5	3.9	2.0	22.9	26.8	16.5	4.9	15.1	5.8	7.8	17.4	18.8	27.1
6	3.9	1.8	23.8	26.7	16.5	4.6	14.4	4.3	8.0	18.0	18.5	28.4
7	3.8	1.5	24.9	26.6	16.6	4.4	14.0	3.9	7.9	18.9	19.4	29.6
8	3.8	1.1	25.9	26.5	16.7	4.2	13.9	3.5	8.0	20.0	21.1	30.6
9	4.0	1.4	26.8	27.4	16.6	4.2	13.4	3.0	8.7	20.6	22.6	31.4
10	4.1	1.5	27.6	28.7	16.5	4.4	12.6	2.5	10.1	20.6	23.4	31.8
11	4.3	1.2	28.1	29.9	17.0	4.4	11.8	2.2	11.4	20.8	23.5	32.0
12	4.5	1.1	28.7	30.8	18.4	4.4	11.1	3.2	12.4	20.6	23.5	32.1
13	4.8	1.4	29.0	31.6	19.5	4.5	10.5	5.0	12.9	20.8	23.5	32.2
14	4.9	1.6	29.1	32.0	19.7	4.5	10.1	7.5	12.8	21.4	23.7	32.1
15	4.9	1.9	29.0	32.2	19.8	4.4	10.0	10.0	12.6	22.0	23.8	32.1
16	5.0	2.5	29.2	32.1	20.0	4.9	10.2	11.1	11.7	22.3	24.3	31.8
17	5.1	3.5	29.5	32.0	19.2	5.9	10.8	11.5	11.0	22.3	24.9	31.2
18	5.5	5.0	29.6	31.6	17.7	6.6	9.6	12.3	10.7	21.7	24.9	30.7
19	6.0	7.3	29.6	30.8	16.0	6.5	9.5	12.9	11.4	21.6	24.3	30.3
20	6.3	9.4	29.6	29.6	14.5	5.1	9.7	13.6	13.8	21.3	23.5	29.6
21	6.4	10.8	29.4	27.6	13.0	4.1	9.9	14.9	16.7	18.7	22.9	29.0
22	6.4	11.6	28.9	24.7	11.7	3.4	9.3	15.1	18.2	17.4	22.6	28.7
23	6.4	11.4	28.2	21.3	10.6	3.8	8.2	15.1	18.5	16.3	22.4	28.6
24	6.4	10.5	27.2	18.5	9.9	4.3	6.7	14.6	18.5	15.4	22.6	28.7
25	6.3	9.6	26.0	16.3	9.2	4.9	6.4	14.1	18.8	14.9	23.0	28.8
26	6.1	9.3	24.8	14.8	8.6	4.9	7.2	13.4	18.7	14.8	23.6	28.7
27	5.9	9.2	24.0	14.7	7.9	5.1	7.8	12.5	18.4	14.6	24.2	28.3
28	5.8	10.0	23.3	15.3	7.4	6.7	7.8	11.6	18.1	14.3	24.4	27.8
29	5.7		22.5	16.0	7.4	8.7	7.8	11.1	17.4	14.3	24.2	27.3
30	5.7		22.1	16.3	7.5	10.6	7.7	10.6	17.3	15.2	24.2	26.7
31	4.8		22.9		7.4		7.8	10.5		17.9		25.3
THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE												
MEAN	5.11	4.96	25.36	25.46	14.46	5.27	10.60	9.19	12.96	18.48	22.57	29.06
MAX.	6.4	11.6	29.6	32.2	20.0	10.6	15.3	15.1	18.8	22.3	24.9	32.2
MIN.	3.8	1.1	11.6	14.7	7.4	3.4	6.4	2.2	7.8	14.3	18.5	24.4

HIGHEST STAGE WAS 32.27 AT 1100 P.M., APRIL 15;
LOWEST STAGE WAS 1.10 ON FEBRUARY 8, 12 AND 14;

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.3, AT RAILROAD FERRY LANDING.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 [STAGE, 54.1]. DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 [STAGE, MINUS 0.16]. DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET — GAGE ZERO, 141.70 FEET, M.S.L. [1929 ADJ.]

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	21.9	27.7	34.6	45.3	34.7	25.0	20.7	14.0	10.7	18.2	18.9	14.9
2	22.9	27.8	35.4	45.7	35.7	24.5	21.1	13.4	11.3	19.3	17.6	15.4
3	23.8	28.1	35.9	46.1	36.7	24.1	21.5	12.7	12.3	19.6	16.4	15.8
4	24.6	29.2	36.3	46.5	37.5	23.4	21.8	12.0	13.0	19.1	15.5	16.3
5	25.9	30.5	36.5	47.0	38.1	22.9	21.7	12.0	13.6	17.9	14.6	17.4
6	27.7	31.6	36.7	47.2	38.5	23.0	21.1	12.3	14.3	16.2	13.7	19.3
7	27.8	32.5	36.8	47.5	38.8	23.2	20.3	12.4	15.1	14.4	13.3	21.0
8	28.3	32.9	36.9	47.7	39.0	23.4	19.8	12.1	15.7	13.0	13.0	22.0
9	28.5	33.2	36.8	47.9	39.2	23.3	19.9	11.6	15.7	12.3	12.6	22.3
10	28.6	33.4	36.7	47.8	39.4	23.0	20.3	11.6	14.8	11.8	12.2	21.9
11	28.7	33.6	36.6	47.7	39.5	22.5	20.5	11.8	13.7	11.2	12.3	20.9
12	28.9	33.7	36.4	47.5	39.4	22.2	20.1	12.0	13.1	11.1	12.6	20.0
13	28.6	33.7	37.2	47.2	39.3	22.0	19.5	12.0	12.8	11.6	12.8	19.4
14	28.5	33.7	37.3	46.7	39.3	22.1	19.1	11.5	12.5	12.1	12.9	19.0
15	29.7	33.7	37.2	46.1	39.2	22.2	18.9	10.8	12.3	12.2	13.3	18.6
16	31.0	33.7	37.3	45.4	39.0	22.1	18.5	10.2	12.4	12.6	13.4	18.3
17	31.6	33.5	37.7	44.5	38.5	21.8	17.8	9.9	12.5	12.9	13.6	18.0
18	32.2	32.8	38.0	42.9	37.7	21.5	17.0	9.7	12.7	13.0	14.3	17.6
19	32.7	32.6	38.9	40.9	36.5	21.6	16.4	10.0	13.4	12.9	15.8	17.6
20	32.5	31.9	39.7	38.0	35.1	21.8	16.1	10.7	13.8	12.8	17.7	18.4
21	32.1	31.1	40.6	34.9	33.7	22.0	15.8	11.5	13.5	13.8	19.1	19.7
22	31.6	30.7	41.3	32.2	32.5	22.4	15.7	12.1	13.1	16.5	19.6	21.0
23	31.1	30.4	41.9	30.3	31.6	22.6	15.8	12.7	12.9	19.7	19.4	21.8
24	30.3	30.7	42.5	28.9	30.8	22.7	15.8	12.9	13.0	21.9	18.5	21.9
25	29.5	30.6	42.9	28.1	30.1	22.5	16.0	12.2	13.7	23.2	17.3	21.6
26	29.0	31.6	43.3	27.8	29.4	22.3	16.3	11.1	14.7	23.6	16.3	21.3
27	28.7	32.5	43.4	28.3	28.8	21.9	16.3	10.2	15.6	23.5	15.5	20.9
28	28.4	33.4	43.8	30.0	27.7	21.5	16.0	9.6	16.2	23.2	15.1	20.2
29	28.5		44.4	31.9	26.6	20.9	15.6	9.1	16.5	22.5	14.8	19.5
30	28.5		44.9	33.6	25.9	20.5	15.3	9.2	17.0	21.5	14.7	19.0
31	28.0		44.9		25.3		14.7	10.0		20.2		19.5

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	28.7	31.8	39.1	40.7	35.0	22.5	18.2	11.4	13.7	16.6	15.2	19.4
MAX	32.7	33.7	44.9	47.9	39.5	23.4	21.8	12.9	17.0	23.6	19.6	22.3
MIN	21.9	27.7	34.6	27.8	25.3	20.5	14.7	9.1	10.7	11.1	12.2	14.9

HIGHEST STAGE WAS 47.94 AT 700 P.M., APR. 9.
LOWEST STAGE WAS 8.97 AT 400 P.M., AUG. 29.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02; MILE 663.0 NEAR THE MOUTH OF HARBOR.

GAGE. AUTOMATIC RECORDER ON GRAIN ELEVATOR.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 C.F.S. OBSERVED ON APR. 23, 1912 [STAGE, 54.1]. DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 C.F.S. COMPUTED FOR AUG. 26, 1936 [STAGE, MINUS 0.16]. DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, M.S.L. [1929-58 ADJ.]

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	31.9	43.1	34.4	35.7	29.1	34.8	28.7	12.8	12.2	11.6	8.2	18.8
2	32.4	43.3	34.4	35.3	28.2	35.1	29.6	12.8	13.8	11.2	8.1	18.8
3	32.9	43.4	34.1	34.4	27.1	35.2	29.9	12.7	15.4	11.6	7.9	18.2
4	33.6	43.6	33.7	33.1	26.3	35.5	29.9	12.5	16.3	12.1	8.1	17.8
5	34.2	43.7	33.2	31.8	25.6	35.8	29.9	12.3	16.8	12.3	8.6	17.6
6	34.7	43.8	32.3	30.9	25.1	36.1	29.9	12.1	17.6	12.3	8.9	17.6
7	34.9	43.9	31.5	31.0	24.8	36.5	29.2	11.9	18.9	12.2	9.7	17.8
8	35.0	44.0	30.4	31.3	24.7	36.9	28.7	11.8	19.7	11.7	11.6	18.2
9	35.4	43.9	29.5	31.9	24.9	37.5	28.0	11.7	20.0	10.9	14.4	19.0
10	35.8	43.8	29.0	32.3	25.2	38.1	27.1	11.6	20.6	10.4	17.1	19.9
11	36.6	43.5	29.4	32.8	25.1	38.5	26.3	11.5	20.9	10.8	18.9	20.4
12	37.3	43.3	30.3	33.5	25.0	38.7	25.4	11.5	20.8	9.3	18.9	20.8
13	37.7	42.8	31.0	33.5	24.8	38.9	23.2	11.8	20.5	8.9	18.2	20.9
14	38.0	42.4	31.7	34.2	24.7	39.2	23.0	12.3	19.7	8.9	17.6	21.0
15	38.3	42.0	32.2	35.0	24.7	39.3	21.8	13.3	18.7	8.7	17.5	21.4
16	38.5	41.0	33.0	35.3	24.6	39.4	21.2	14.4	18.0	8.3	17.2	21.9
17	38.8	39.8	33.6	35.5	24.6	39.2	20.2	15.5	17.8	8.3	17.8	22.1
18	39.1	38.1	34.0	35.7	25.0	38.9	19.7	16.2	18.0	8.5	17.6	22.3
19	39.5	36.2	34.6	35.9	25.6	38.6	18.2	16.2	18.2	9.0	18.0	22.5
20	39.9	34.6	35.2	35.7	26.7	37.8	17.0	15.3	18.2	9.7	18.2	22.6
21	40.3	33.1	35.6	35.5	28.2	36.9	17.0	14.4	18.0	10.3	18.4	22.3
22	40.8	32.4	36.2	35.5	29.6	35.4	17.1	14.0	17.3	10.6	17.8	21.8
23	41.1	32.3	36.5	35.5	30.6	33.6	16.5	13.7	16.4	10.6	17.8	21.6
24	41.3	32.6	36.6	35.0	31.3	32.4	15.8	13.3	15.0	10.6	17.8	21.4
25	41.6	33.1	36.8	34.1	31.8	30.6	15.6	12.7	13.7	10.5	17.7	21.3
26	41.9	33.5	37.1	33.1	32.5	29.6	15.3	12.2	12.7	9.9	17.7	21.3
27	42.2	34.0	36.8	32.4	33.1	28.6	14.7	11.9	12.4	9.3	17.8	21.2
28	42.5	34.2	36.7	31.5	33.5	28.0	14.0	11.7	12.6	8.8	18.1	21.2
29	42.7		36.5	30.6	33.9	27.8	13.3	11.5	12.8	8.6	18.4	21.1
30	43.0		36.2	29.7	34.1	28.2	13.1	11.4	12.6	8.5	18.5	21.2
31	43.0		36.0		34.3		12.8	11.6		8.4		21.3

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	38.2	39.5	33.8	33.6	27.9	35.4	21.7	12.9	16.9	10.1	15.4	20.5
MAX	43.0	44.0	37.1	35.9	34.3	39.4	29.9	16.2	20.9	12.3	18.9	22.6
MIN	31.9	32.3	29.0	29.7	24.6	27.8	12.8	11.4	12.2	8.3	7.9	17.6

HIGHEST STAGE WAS 44.00 FROM 300 P.M. FEB. 7 TO 1100 A.M., FEB. 8.
LOWEST STAGE WAS 7.90 AT 900 A.M., NOV. 4.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.3, AT RAILROAD FERRY LANDING.

GAGE. STAFF TYPE IN SEVERAL SECTIONS.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 [STAGE, 54.1]. DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 [STAGE, MINUS 0.16]. DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, M.S.L. [1929-58 ADJ.]

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	37.9	34.7	23.9	47.9	48.5	38.7	27.8	25.8	14.8	12.2	17.9	31.5
2	37.7	34.6	22.9	48.0	48.6	38.6	27.0	25.0	14.5	13.8	17.4	32.9
3	37.5	34.3	22.1	48.1	49.0	38.8	26.6	24.3	14.2	16.2	17.7	34.4
4	37.5	34.1	21.6	48.3	49.1	38.9	26.5	23.4	14.1	18.2	18.5	35.1
5	37.5	33.9	21.5	48.4	49.3	38.9	26.5	22.3	13.9	19.9	19.5	36.0
6	37.6	33.7	21.6	48.5	49.5	39.1	26.0	21.4	13.2	21.6	20.0	36.5
7	37.7	33.7	22.0	48.6	49.9	39.1	25.3	20.4	12.9	22.8	20.2	37.1
8	37.6	34.2	22.5	48.6	50.0	39.2	24.5	19.2	13.1	23.7	20.2	37.5
9	37.6	34.8	23.1	48.6	50.1	39.2	23.9	18.4	13.3	24.1	19.9	37.8
10	37.3	35.3	24.7	48.5	50.2	39.3	23.9	17.7	13.2	24.2	19.5	38.0
11	37.1	35.8	27.9	48.4	50.1	39.1	24.4	17.1	13.1	24.4	18.8	38.2
12	36.8	36.2	30.5	48.2	50.1	39.0	24.7	16.3	12.8	24.2	18.1	38.4
13	36.4	36.6	32.4	48.0	49.9	38.9	24.1	15.8	12.5	24.0	17.5	38.2
14	35.6	37.0	34.1	48.0	49.7	38.7	23.1	15.8	12.5	22.3	17.0	37.7
15	34.5	37.2	35.5	47.7	49.5	38.5	22.0	16.3	12.9	21.5	16.8	36.7
16	33.0	37.1	37.0	47.6	49.2	38.3	21.5	16.8	12.9	20.2	16.5	35.1
17	31.1	36.9	38.0	47.4	48.8	37.8	21.1	17.6	12.5	19.3	16.2	32.0
18	28.9	36.5	38.8	47.2	48.4	36.9	20.7	18.7	12.3	19.5	15.7	30.2
19	26.8	36.3	39.6	47.0	48.0	35.7	20.1	19.1	12.2	20.7	15.3	27.7
20	24.9	36.1	40.4	47.3	47.5	34.5	19.4	19.1	11.9	21.2	15.4	26.5
21	24.1	35.9	41.2	47.4	47.1	33.5	19.0	19.0	11.7	21.6	15.4	24.0
22	24.8	35.5	42.0	47.3	46.6	32.6	18.4	18.9	11.7	21.7	15.6	22.9
23	25.9	34.9	42.8	47.5	45.9	32.0	17.9	18.4	11.4	22.0	15.9	22.3
24	28.1	33.9	43.9	47.6	45.2	31.5	17.7	17.8	11.1	22.2	16.1	22.1
25	30.3	32.3	44.8	47.8	44.4	31.5	17.7	17.4	11.0	22.3	16.6	21.9
26	31.9	30.3	45.6	47.9	43.4	31.6	18.4	17.1	11.2	22.1	17.3	22.1
27	33.1	27.9	46.2	48.0	42.2	31.5	20.3	16.8	11.2	21.8	19.3	22.6
28	34.0	25.6	46.6	48.0	41.1	31.1	22.9	16.5	11.2	21.2	24.8	24.0
29	34.6		47.1	48.1	39.9	30.4	24.7	16.1	11.2	20.5	27.0	25.8
30	34.8		47.4	48.3	39.2	29.1	25.8	15.5	11.5	19.4	29.1	27.5
31	34.8		47.6		38.8		26.0	15.1		18.6		29.8

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	33.5	34.5	34.7	47.9	47.1	36.1	22.8	18.7	12.5	20.9	18.5	31.0
MAX	37.7	37.2	47.6	48.6	50.2	39.3	26.0	19.1	13.3	24.4	29.1	38.4
MIN	24.1	25.6	21.5	47.0	38.8	29.1	17.7	15.1	11.0	12.2	15.3	21.9

HIGHEST STAGE WAS 50.18 AT 700 A.M., MAY 10.
LOWEST STAGE WAS 11.00 FROM 200 P.M., SEP. 24 TO 1200 NOON SEP. 25.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.3, AT RAILROAD FERRY LANDING.

GAGE. STAFF TYPE IN SEVERAL SECTIONS.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 [STAGE, 54.1]. DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 [STAGE, MINUS 0.16]. DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, M.S.L. [1929-58 ADJ.]

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.0	23.0	23.7	28.9	39.6	20.9	18.4	16.5	13.5	15.5	17.5	31.0
2	18.2	23.3	24.9	28.6	40.2	19.8	19.8	17.2	13.3	15.6	18.3	30.6
3	17.6	23.5	26.4	28.1	40.2	18.6	21.4	17.5	13.1	15.9	19.0	30.1
4	17.2	23.6	27.8	27.5	40.4	17.7	22.7	17.7	13.1	16.7	19.7	29.7
5	17.3	23.6	29.1	26.9	40.3	17.2	22.2	18.1	13.1	17.2	20.8	29.4
6	18.7	23.5	30.2	26.2	40.4	17.0	21.8	18.3	12.8	17.7	22.4	29.3
7	21.2	23.2	31.2	25.4	40.4	16.8	21.4	18.5	12.5	18.2	24.8	29.1
8	23.2	22.8	32.0	24.5	40.2	16.3	21.0	18.7	12.2	18.8	26.7	28.8
9	24.4	22.2	32.8	23.7	40.2	15.9	20.6	18.6	12.1	19.2	27.7	29.3
10	25.3	21.6	33.2	23.0	39.9	15.5	20.2	18.6	12.0	19.5	28.4	29.7
11	26.0	21.2	33.5	22.5	39.6	14.9	19.8	18.6	12.0	19.2	28.7	30.0
12	26.6	20.6	33.6	22.3	39.0	14.4	19.4	19.3	12.0	18.8	28.5	30.8
13	27.3	20.1	33.6	22.7	38.5	14.0	19.0	19.6	11.9	18.5	28.4	32.0
14	27.8	19.4	33.6	23.5	37.8	13.8	18.4	19.1	11.7	18.5	28.5	33.2
15	28.2	18.6	33.4	24.7	37.2	13.5	18.1	18.4	11.6	18.4	28.5	34.3
16	28.4	17.7	33.4	26.0	36.6	13.1	17.8	17.8	11.7	17.9	28.8	35.0
17	28.4	16.9	33.4	27.4	35.9	13.0	17.6	17.4	11.9	17.1	29.5	35.6
18	28.2	16.4	33.1	29.0	35.2	13.2	17.6	17.2	12.1	16.5	30.4	36.3
19	28.0	16.6	32.9	30.7	34.5	13.6	17.5	17.2	12.5	16.1	31.4	36.9
20	27.6	17.5	32.5	32.0	33.7	14.2	17.3	17.0	13.1	15.7	32.0	37.3
21	27.3	19.2	32.2	33.0	33.1	15.2	17.3	16.8	14.1	15.6	32.3	37.7
22	26.8	20.9	31.7	33.8	32.3	16.4	17.4	16.7	15.4	15.6	32.4	38.0
23	25.9	22.1	31.4	34.3	31.5	17.4	17.5	16.7	16.3	15.8	32.5	38.2
24	24.7	22.7	31.0	35.0	30.6	17.9	17.3	16.7	16.8	15.9	32.5	38.4
25	23.5	22.8	30.6	35.8	29.5	17.9	17.0	16.6	16.8	16.1	32.4	38.5
26	22.3	22.5	30.0	36.5	28.2	18.0	16.8	16.6	16.3	16.3	32.3	38.5
27	21.5	22.5	29.5	37.1	26.8	17.7	16.9	16.7	15.9	16.3	32.2	38.6
28	21.3	22.6	29.1	38.1	25.4	17.5	16.5	16.7	15.2	16.2	32.0	38.6
29	21.6	22.9	28.9	38.7	24.0	17.5	15.9	15.7	14.8	16.2	31.8	38.5
30	22.2		28.9	39.1	22.9	17.8	15.6	14.6	15.2	16.4	31.4	38.3
31	22.6		29.0		21.8		15.8	13.8		16.9		38.1

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	23.8	21.2	30.9	29.5	34.7	16.2	18.6	17.4	13.5	17.1	28.1	34.2
MAX	28.4	23.6	33.6	39.1	40.4	18.0	22.7	19.6	16.8	19.5	32.5	38.6
MIN	17.2	16.4	23.7	22.3	21.8	13.0	15.6	13.8	11.6	15.5	17.5	28.8

HIGHEST STAGE WAS 40.56 AT 500 A.M., MAY 4.
LOWEST STAGE WAS 11.55 AT 700 A.M., SEP. 15.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.3, AT RAILROAD FERRY LANDING.

GAGE. STAFF TYPE IN SEVERAL SECTIONS.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 [STAGE, 54.1]. DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 [STAGE, -0.16]. DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, M.S.L. [1929-58 ADJ.]

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	26.5	17.5	36.3	26.5	17.4	19.8	14.7	13.0	12.0	9.6	10.6	10.2
2	26.5	17.5	37.0	26.2	17.7	19.0	14.6	12.8	11.8	9.7	10.7	10.0
3	26.4	17.7	37.5	25.9	17.8	18.4	14.6	13.0	10.8	9.9	10.3	10.2
4	26.1	17.8	37.8	25.4	17.9	18.0	14.5	13.6	9.8	10.2	9.7	10.7
5	25.2	17.4	38.1	24.7	18.0	18.0	14.1	14.1	9.0	10.4	9.0	11.2
6	23.7	16.7	38.6	24.0	18.0	18.0	13.5	14.5	8.6	10.1	8.7	11.8
7	22.1	15.9	38.9	23.7	18.2	18.1	12.9	15.0	8.5	9.6	8.9	13.0
8	20.8	15.4	38.9	23.6	18.2	18.2	12.3	15.3	8.2	9.0	9.4	14.0
9	20.2	15.6	39.0	23.4	18.2	18.3	11.6	15.5	7.7	8.6	10.0	14.6
10	20.6	16.6	39.2	23.3	18.3	18.0	11.1	15.7	7.7	8.5	10.8	15.8
11	21.4	18.9	39.2	23.2	18.8	17.8	10.5	16.1	8.5	8.6	11.6	16.6
12	22.2	21.8	38.9	22.8	19.3	17.9	10.0	16.6	9.2	8.6	12.1	17.4
13	22.8	24.6	38.6	22.3	20.6	18.2	9.9	16.8	9.1	8.2	12.2	18.9
14	23.2	26.3	38.2	21.7	22.6	18.1	10.4	16.5	8.8	7.9	12.0	21.0
15	23.4	27.4	37.6	21.2	24.6	17.4	11.4	15.7	8.5	7.7	11.7	22.7
16	23.6	28.0	37.0	20.8	26.3	16.7	12.5	14.2	8.5	7.3	11.3	24.0
17	23.8	28.1	36.1	20.5	28.0	16.5	13.4	12.8	8.7	7.1	10.9	24.6
18	23.6	27.9	35.4	20.3	29.2	16.9	14.4	11.9	8.9	7.2	10.5	25.0
19	22.8	27.5	34.6	20.0	29.9	17.7	15.4	11.3	9.4	7.6	10.5	25.2
20	22.0	27.3	33.7	19.6	30.3	18.7	15.8	10.6	10.7	7.4	10.4	25.6
21	21.5	27.3	33.2	19.1	30.4	19.5	15.8	9.8	12.3	7.1	10.3	25.9
22	21.2	27.6	32.8	18.5	30.3	20.0	15.5	9.2	13.2	7.0	10.2	26.2
23	21.0	28.3	32.4	18.1	29.8	20.0	15.4	8.6	13.5	6.9	10.1	26.3
24	20.9	29.1	31.8	18.1	29.0	19.6	15.5	8.6	13.4	6.8	9.8	25.7
25	20.6	30.9	31.0	17.4	27.9	19.0	15.6	9.0	13.2	6.8	9.7	24.7
26	20.0	32.8	30.2	16.8	26.4	17.9	15.8	10.0	13.0	6.9	9.8	23.6
27	19.3	34.1	29.3	16.4	25.0	16.7	16.2	11.0	12.6	7.3	10.0	22.5
28	18.7	35.4	28.2	16.4	23.9	16.0	16.1	11.3	11.9	7.3	10.2	21.7
29	18.4		27.5	16.7	22.8	15.5	15.0	10.9	11.0	7.8	10.5	20.8
30	18.2		27.1	17.2	21.7	15.1	13.9	10.8	10.0	8.8	10.5	20.2
31	17.8		26.7		20.6		13.2	11.4		9.9		19.7

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	22.07	23.97	34.85	21.12	23.12	17.96	13.72	12.75	10.27	8.24	10.40	19.34
MAX.	26.5	35.4	39.2	26.5	30.4	20.0	16.2	16.8	13.5	10.4	12.2	26.3
MIN.	17.8	15.4	26.7	16.4	17.4	15.1	9.9	8.6	7.7	6.8	8.7	10.0

HIGHEST STAGE WAS 39.22 AT 215 P.M., MAR. 10.
LOWEST STAGE WAS 6.80 AT 200 P.M., OCT. 24

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.3, AT RAILROAD FERRY LANDING.

GAGE. STAFF TYPE IN SEVERAL SECTIONS.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, -0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, M.S.L. (1929-58 ADJ.)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12.6	9.6	24.3	24.3	35.9	23.4	21.5	9.0	E 9.6	23.5	13.9	19.0
2	14.9	11.2	23.1	24.6	36.4	22.7	20.1	9.0	8.8	24.4	14.2	18.0
3	18.5	13.2	21.8	24.6	36.9	22.3	18.7	9.0	8.0	24.9	15.2	16.8
4	22.2	15.3	21.3	24.6	37.2	22.1	17.6	9.2	7.7	24.9	16.5	15.5
5	24.5	17.5	20.5	24.5	37.6	21.9	16.6	9.6	7.6	24.0	17.2	14.3
6	26.3	19.8	19.8	25.1	38.1	21.9	15.8	9.9	7.5	22.3	17.4	13.3
7	27.7	21.3	20.1	26.5	38.7	22.9	15.2	10.6	7.6	20.1	17.6	12.9
8	28.7	22.3	20.8	28.5	39.3	24.3	14.7	11.3	8.0	18.0	18.2	12.8
9	29.4	23.2	21.7	30.4	39.8	25.4	14.2	11.9	8.7	16.3	19.1	12.8
10	29.6	23.9	22.8	31.8	40.3	26.4	13.5	12.6	8.9	14.8	19.6	13.0
11	29.0	24.4	23.9	32.8	40.6	27.1	12.8	13.2	8.4	13.3	19.7	13.2
12	27.7	24.6	24.8	33.3	40.8	27.4	12.4	14.2	7.8	12.4	19.7	13.4
13	26.0	24.5	25.6	33.6	40.7	27.2	12.1	15.3	7.7	12.2	19.7	13.4
14	24.0	24.4	26.1	33.8	40.4	26.5	11.8	16.2	7.6	12.2	19.8	13.4
15	21.7	24.4	26.3	33.8	39.7	25.6	11.6	16.7	7.3	12.4	20.1	13.4
16	19.2	24.8	26.2	33.7	38.8	25.0	11.5	17.0	7.0	14.2	20.3	13.4
17	16.7	25.1	25.6	33.5	37.6	24.5	11.6	16.6	7.2	17.3	20.2	13.4
18	14.5	25.4	24.9	32.8	36.1	24.6	11.6	15.6	8.0	19.5	19.7	14.0
19	13.0	25.9	24.0	31.8	34.7	25.3	11.0	14.0	9.1	20.1	19.0	15.2
20	12.5	26.3	23.3	30.6	33.7	26.2	10.3	12.1	10.0	19.9	18.7	16.6
21	12.3	26.5	22.9	28.7	33.4	26.6	10.0	10.6	11.0	18.9	18.4	17.3
22	12.0	26.6	22.7	27.3	33.4	26.6	10.2	10.1	12.3	18.0	18.3	17.8
23	11.8	26.4	22.7	26.9	33.4	26.1	10.3	10.3	13.8	17.0	18.4	18.6
24	11.6	26.2	22.9	27.6	33.3	25.7	10.7	10.4	15.5	15.8	18.7	19.9
25	11.2	26.1	23.0	29.0	33.1	25.6	10.6	10.5	16.6	15.0	18.9	21.2
26	10.9	26.1	22.9	31.3	32.6	25.4	10.5	10.9	16.8	14.7	19.0	22.6
27	10.7	25.9	23.0	32.8	31.5	25.2	10.3	11.2	16.7	14.3	19.6	24.0
28	10.5	25.3	23.1	33.9	30.0	24.8	10.0	11.4	17.7	14.0	20.1	25.1
29	10.4		23.6	34.8	28.0	24.1	9.4	11.1	20.0	14.0	20.0	26.0
30	9.9		24.0	35.4	28.4	22.8	8.6	10.7	22.1	14.1	19.7	26.3
31	9.3		24.1		24.6		8.7	10.3		14.1		26.3

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	18.04	22.71	23.28	30.07	35.64	24.84	12.70	11.94	10.83	17.30	18.55	17.18
MAX.	29.6	26.6	26.3	35.4	40.8	27.4	21.5	17.0	22.1	24.9	20.3	26.3
MIN.	9.3	9.6	19.8	24.3	24.6	21.9	8.6	9.0	7.0	12.2	13.9	12.8

E- ESTIMATED
HIGHEST STAGE WAS 40.79 AT 400 P.M., MAY 12.
LOWEST STAGE WAS 6.90 AT 100 P.M., SEP. 16.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.3, AT RAILROAD FERRY LANDING.

GAGE. STAFF TYPE IN SEVERAL SECTIONS.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, -0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, M.S.L. (1929-58 ADJ.)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.0	30.9	21.5	26.4	37.2	24.4	25.3	24.2	11.8	8.3	13.1	14.6
2	20.5	32.3	20.7	26.9	36.9	23.2	25.8	23.1	10.6	8.6	12.4	14.0
3	22.8	33.8	20.2	27.0	36.4	21.6	26.0	22.0	9.6	8.7	11.8	13.0
4	24.0	34.9	19.8	26.8	35.7	19.7	26.5	21.0	9.1	8.4	11.4	12.4
5	24.2	35.7	20.1	26.5	34.9	18.3	26.9	20.2	8.8	8.1	11.0	12.1
6	23.9	36.4	20.5	26.2	34.2	17.6	27.2	19.3	8.9	8.1	10.8	11.7
7	23.5	36.9	20.6	25.8	33.4	17.6	27.2	18.0	9.2	8.3	11.1	11.2
8	23.2	37.4	20.4	25.5	32.6	17.9	27.2	16.8	9.6	8.1	11.6	10.9
9	22.7	37.8	19.6	25.2	31.6	18.0	27.2	15.9	9.8	7.9	11.9	10.8
10	21.8	38.0	19.3	25.9	30.2	17.7	27.3	14.9	10.2	7.8	12.0	10.8
11	20.7	38.2	19.1	27.3	28.7	17.0	27.7	14.0	10.5	7.6	11.8	11.2
12	19.2	38.4	18.8	28.7	27.2	16.2	28.3	13.7	10.9	7.6	11.4	12.0
13	17.4	38.6	18.2	30.2	26.1	15.7	28.8	13.6	10.8	7.7	11.0	12.7
14	15.3	38.8	17.9	31.6	25.6	15.3	29.2	13.6	10.5	7.6	10.4	12.9
15	13.1	39.1	17.9	32.6	25.4	15.2	29.8	13.8	10.6	7.6	10.0	12.5
16	11.6	39.3	17.5	33.3	25.3	15.6	30.4	14.4	10.8	8.8	9.8	12.2
17	10.8	39.3	16.8	33.7	25.4	16.4	31.0	15.2	10.6	13.0	9.9	12.3
18	10.3	39.2	16.3	34.1	25.7	17.0	31.4	15.7	9.8	17.8	10.2	12.3
19	10.1	38.8	15.8	34.4	26.0	17.3	31.8	15.8	8.8	20.8	10.6	12.5
20	10.6	38.1	15.0	34.6	26.2	17.2	32.0	14.7	8.5	22.7	10.6	12.9
21	12.2	37.0	14.0	34.8	26.3	17.4	32.2	13.4	8.4	23.7	10.4	13.8
22	15.1	35.6	13.3	35.1	26.4	17.7	32.0	13.6	9.0	24.0	10.7	14.4
23	18.8	33.5	13.1	35.5	26.6	17.6	31.4	13.9	10.0	23.2	11.8	14.7
24	22.1	30.9	13.9	35.8	26.6	17.1	30.5	14.2	10.8	21.5	13.2	14.3
25	24.2	28.3	14.6	36.2	26.6	16.6	29.2	14.5	11.6	19.6	14.4	13.6
26	25.8	25.9	14.9	36.5	26.4	17.2	28.3	14.7	11.4	18.1	15.1	13.0
27	27.1	24.0	16.3	36.8	26.2	19.4	27.6	15.1	11.3	17.0	15.5	12.6
28	28.0	22.6	18.7	37.0	26.0	21.7	27.3	15.6	10.6	16.0	15.6	11.8
29	28.8		21.1	37.2	25.9	23.3	26.8	15.9	9.6	15.2	15.4	11.1
30	29.2		23.4	37.3	25.7	24.5	26.0	15.4	8.6	14.5	15.0	11.3
31	29.9		25.2		25.2		25.2	13.6		13.8		11.8

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	20.15	34.98	18.20	31.49	28.78	18.37	28.49	16.11	10.02	13.22	11.99	12.49
MAX.	29.9	39.3	25.2	37.3	37.2	24.5	32.2	24.2	11.8	24.0	15.6	14.7
MIN.	10.1	22.6	13.1	25.2	25.2	15.2	25.2	13.4	8.4	7.6	9.8	10.8

HIGHEST STAGE WAS 39.32 AT 100 A.M., FEB. 17.
LOWEST STAGE WAS 7.50 AT 900 P.M., OCT. 14.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.3, AT RAILROAD FERRY LANDING.

GAGE. STAFF TYPE IN SEVERAL SECTIONS.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, -0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, M.S.L. (1929-58 ADJ.)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	32.8	21.9	11.4	33.0	21.1	31.3	15.6	14.2	8.9	8.0	9.8	16.0
2	32.2	22.8	10.8	33.2	21.4	32.5	16.2	14.9	8.0	8.2	9.6	16.9
3	31.4	23.7	10.3	33.0	21.2	33.5	16.4	15.6	7.2	8.3	9.5	17.7
4	30.5	24.5	9.9	33.3	20.4	34.2	16.2	15.8	6.8	8.1	9.6	18.6
5	29.1	25.8	9.7	33.5	19.4	34.7	16.0	15.7	6.6	7.7	9.8	19.8
6	27.6	27.4	9.5	33.7	18.2	35.0	16.0	15.5	6.3	7.7	9.9	20.3
7	26.4	29.2	9.0	33.9	17.3	35.4	15.9	15.3	6.2	7.8	10.3	20.0
8	25.4	30.6	8.6	34.4	17.0	35.7	15.9	15.0	6.1	7.6	10.4	19.5
9	25.0	31.5	8.2	34.9	17.0	35.8	15.8	15.5	5.9	7.6	10.2	18.9
10	24.7	32.1	7.8	35.2	17.0	35.9	15.6	16.5	5.6	7.8	10.2	18.4
11	24.7	32.4	7.5	35.4	16.5	36.0	15.6	17.5	5.6	7.9	10.3	17.9
12	24.4	32.5	7.5	35.4	16.3	35.9	15.4	17.8	5.4	7.8	10.6	17.5
13	24.2	32.5	7.8	35.4	16.3	35.8	15.2	17.4	5.4	7.6	10.8	17.4
14	24.0	32.3	8.1	35.3	17.1	35.4	15.1	16.6	5.7	7.6	11.1	17.2
15	23.9	31.7	9.0	35.0	18.0	34.6	15.1	16.2	5.9	7.6	11.4	16.8
16	23.9	31.0	11.0	34.5	18.5	33.0	14.9	16.3	6.3	7.3	11.6	16.1
17	23.8	30.0	13.6	33.9	19.5	30.4	14.8	16.6	6.6	6.9	11.4	15.3
18	23.7	28.7	16.2	33.0	20.8	29.0	15.0	17.3	6.7	7.4	11.1	14.0
19	23.6	27.3	18.6	31.5	21.8	23.5	14.8	18.1	6.8	8.2	10.8	12.2
20	23.5	25.5	21.4	29.9	22.7	20.8	14.6	18.3	6.6	9.0	10.6	11.0
21	23.1	23.6	24.0	28.3	23.3	19.2	14.4	17.8	6.5	9.6	10.9	10.4
22	22.5	21.6	26.0	26.8	23.8	18.1	14.0	17.0	6.4	9.8	12.3	9.6
23	21.7	19.5	27.8	25.6	24.0	16.9	13.7	16.5	6.6	10.0	13.8	9.5
24	20.4	17.9	28.8	24.6	23.9	16.0	13.3	15.8	6.5	10.0	14.7	9.4
25	19.3	16.6	29.7	23.6	23.5	15.4	12.9	14.6	6.4	10.2	15.0	9.6
26	18.3	15.3	30.4	22.8	23.3	15.2	12.8	13.6	6.4	10.4	14.8	10.6
27	17.8	14.0	31.3	22.0	23.0	14.8	12.9	13.1	6.4	11.0	14.9	11.9
28	18.1	12.8	31.8	21.5	23.2	14.6	13.0	12.6	6.6	11.4	14.9	13.2
29	18.8	12.0	32.2	21.1	24.5	14.6	13.1	11.9	6.9	11.1	15.4	14.4
30	20.0		32.5	20.9	27.0	14.9	13.2	11.1	7.6	10.5	15.7	15.0
31	20.9		32.8		29.5		13.7	10.0		9.9		16.2

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	24.05	25.05	17.52	30.48	20.85	27.26	14.74	15.48	6.49	8.70	11.70	15.20
MAX.	32.8	32.5	32.8	35.4	29.5	36.0	16.4	18.3	8.9	11.4	15.7	20.3
MIN.	17.8	12.0	7.5	20.9	16.3	14.6	12.8	10.0	5.4	6.9	9.5	9.4

HIGHEST STAGE WAS 36.02 AT 215 P.M., JUNE 11.
LOWEST STAGE WAS 5.28 AT 800 P.M., SEP. 12.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.3, AT RAILROAD FERRY LANDING.

GAGE. STAFF TYPE IN SEVERAL SECTIONS.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 [STAGE, 54.1]. DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 [STAGE, -0.16]. DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, M.S.L. [1929-58 ADJ.]

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.3	11.2	16.8	33.3	25.3	34.8	26.0	15.3	10.2	8.0	10.9	12.6
2	17.7	12.6	17.1	32.5	26.4	32.7	26.3	16.3	9.9	8.1	10.8	13.1
3	18.4	13.7	17.5	31.7	27.0	30.1	26.5	17.6	9.7	8.5	10.9	13.5
4	19.0	14.6	17.7	30.4	27.3	26.2	26.7	18.7	9.5	8.7	11.2	15.0
5	19.0	15.7	17.8	29.0	27.4	23.6	27.0	18.9	9.3	9.0	12.1	17.0
6	19.0	16.9	17.8	27.7	27.7	21.3	27.1	19.1	9.1	9.1	14.6	19.0
7	19.0	18.2	16.8	26.7	28.0	20.0	27.2	19.1	9.3	9.5	17.4	21.7
8	18.6	18.7	16.6	25.9	28.0	20.1	27.2	18.8	9.1	9.5	19.2	23.9
9	17.8	18.8	16.5	26.4	27.9	20.2	27.5	18.1	8.9	8.8	20.2	25.4
10	16.5	18.9	18.0	26.9	27.5	20.0	27.5	17.1	7.8	8.4	20.5	26.0
11	15.1	19.0	21.7	26.7	27.3	19.6	27.5	16.3	7.0	8.3	20.2	26.4
12	14.0	19.1	25.0	26.2	27.5	19.1	26.9	15.8	7.0	8.1	19.4	26.5
13	13.0	19.1	27.7	24.8	28.0	18.6	26.4	15.6	8.2	8.4	18.2	26.3
14	12.0	18.9	29.4	24.4	29.2	18.0	26.4	15.7	8.5	8.8	16.7	26.2
15	10.8	18.4	30.8	23.5	31.0	17.5	26.4	15.7	8.0	9.3	15.8	26.5
16	10.7	17.8	31.5	23.2	31.8	17.2	26.5	15.0	7.5	10.0	15.5	26.7
17	10.7	16.5	32.1	23.0	32.7	17.8	26.5	14.3	7.1	10.4	14.9	26.9
18	10.9	15.2	32.3	23.0	33.6	18.7	26.3	13.5	7.0	10.8	14.5	27.3
19	10.0	14.0	32.7	22.9	34.5	19.7	25.8	12.8	7.0	10.2	14.0	27.7
20	9.5	13.1	32.9	23.2	35.3	21.0	24.8	11.7	7.0	10.0	13.5	28.0
21	9.1	12.3	33.2	23.8	35.7	22.4	23.3	10.8	7.3	10.5	13.2	28.3
22	9.0	12.1	33.5	24.5	36.2	23.0	21.3	10.0	8.0	10.8	12.7	28.7
23	9.0	12.5	33.8	24.9	36.9	23.7	19.1	9.5	8.6	11.0	12.0	29.2
24	8.5	13.3	34.0	25.1	37.0	24.3	17.0	9.0	8.8	11.6	11.5	29.6
25	8.0	14.0	34.0	25.0	37.0	24.7	15.9	9.6	8.9	11.8	11.4	30.6
26	7.8	14.9	34.2	24.8	37.0	25.0	15.2	10.2	8.8	11.7	11.3	31.6
27	7.0	15.9	34.3	24.5	37.0	25.3	14.9	10.4	8.1	11.7	11.9	32.3
28	7.7	16.5	34.4	24.3	36.9	25.4	14.4	10.0	8.0	11.5	12.4	32.8
29	8.0		34.4	24.3	36.9	25.6	13.9	9.5	7.9	11.2	12.7	33.0
30	8.4		34.1	24.7	36.1	25.7	14.4	9.7	7.8	11.1	12.6	33.2
31	9.5		33.6		35.9		14.8	10.1		11.0		33.1

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	12.60	15.77	27.16	25.90	31.80	22.70	23.11	14.00	8.30	9.85	14.40	25.74
MAX.	19.0	19.1	34.4	33.3	37.0	34.8	27.5	19.1	10.2	11.8	20.5	33.2
MIN.	7.0	11.2	16.5	22.9	25.3	17.2	13.9	9.0	7.0	8.0	10.8	12.6

HIGHEST STAGE WAS 37.0 FROM 800 A.M., MAY 24 TO 400 P.M., MAY 27.
LOWEST STAGE WAS 7.0 FROM 800 A.M., SEPT. 18 TO 400 P.M., SEPT. 20.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.3, AT RAILROAD FERRY LANDING.

GAGE. STAFF TYPE IN SEVERAL SECTIONS.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 65.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,941,000 CFS OBSERVED ON APR. 23, 1912 [STAGE, 54.1]. DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 [STAGE, -0.16]. DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, M.S.L. [1929-58 ADJ.]

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11.2	8.6	33.3	15.8	29.6	24.6	10.0	5.9	7.1	6.0	6.0	7.6
2	12.5	8.0	32.3	15.8	30.1	22.8	10.0	6.4	7.0	5.9	5.5	7.9
3	13.8	6.8	30.9	15.8	30.5	21.0	9.7	7.3	6.9	6.3	5.1	8.3
4	15.1	6.8	29.1	15.8	31.3	19.7	9.4	7.9	6.8	7.0	4.8	9.0
5	18.0	7.0	26.8	15.7	32.0	18.2	9.2	7.9	6.7	7.5	4.8	9.9
6	20.6	7.2	24.4	15.6	32.5	17.0	9.2	8.0	6.7	7.6	5.3	11.2
7	22.0	7.4	22.0	15.2	33.5	16.0	9.6	8.0	6.0	7.5	6.0	12.0
8	23.4	7.5	21.1	15.0	34.2	15.1	10.0	7.9	5.5	7.7	6.5	12.4
9	24.8	7.0	21.3	15.0	34.4	14.3	10.4	7.8	5.5	8.0	7.0	12.5
10	26.0	7.4	21.9	15.2	34.6	13.7	9.9	7.5	6.0	8.4	7.7	12.6
11	26.7	8.6	22.5	15.5	35.0	13.3	9.5	7.0	6.2	8.1	8.5	12.7
12	27.0	9.6	22.7	15.6	35.1	13.2	9.0	6.7	6.5	7.8	9.3	13.0
13	26.8	11.4	22.6	15.8	35.3	13.2	8.7	6.5	6.0	5.7	9.8	14.3
14	26.0	16.0	22.4	15.8	35.3	13.2	8.4	6.9	5.7	5.4	10.4	16.9
15	25.0	21.4	22.1	15.9	35.2	13.2	8.4	7.8	5.1	5.5	11.0	20.6
16	23.9	26.6	21.3	16.6	34.9	13.6	8.4	7.8	4.9	5.6	11.5	23.5
17	23.1	30.0	20.6	17.4	33.9	14.2	8.7	8.0	5.0	5.7	12.1	25.2
18	21.8	31.8	20.2	18.5	32.8	14.8	9.2	8.5	5.0	5.7	12.8	25.8
19	20.5	32.9	19.6	19.4	32.3	15.8	9.6	9.8	5.1	5.4	13.8	26.5
20	18.9	33.7	19.4	20.3	31.5	17.1	10.1	10.0	5.8	5.4	14.2	26.8
21	17.4	34.0	19.2	21.6	31.2	18.5	10.1	9.8	6.2	5.6	13.9	27.0
22	15.1	34.3	18.7	22.4	31.2	19.1	10.0	9.7	5.7	5.8	13.7	27.0
23	13.2	34.5	18.5	22.7	31.5	19.2	9.7	9.4	5.8	6.1	12.6	27.0
24	12.0	34.5	18.1	23.3	31.6	18.0	9.3	9.4	6.5	6.5	11.0	26.6
25	11.3	34.5	17.5	23.6	32.0	16.8	8.9	9.7	6.6	7.1	9.7	25.8
26	10.5	34.4	16.8	24.8	32.0	15.5	8.4	9.8	6.7	7.9	8.7	24.4
27	10.0	34.2	16.1	26.5	31.8	14.3	7.8	9.5	7.1	8.3	8.3	23.3
28	9.8	33.9	15.5	27.2	31.2	13.0	7.5	9.0	7.1	7.9	8.1	22.3
29	9.8		15.1	28.0	30.0	11.8	7.1	8.5	6.5	7.1	8.0	21.0
30	9.3		15.1	28.7	28.3	10.7	6.7	7.9	6.4	6.5	8.0	19.5
31	8.9		15.8		26.5		6.2	7.4		6.1		17.9

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	17.67	20.35	21.37	19.14	32.29	16.02	8.99	8.17	6.13	6.67	9.13	18.39
MAX.	27.0	34.5	33.3	28.7	35.3	24.6	10.4	10.0	7.1	8.4	14.2	27.0
MIN.	8.9	6.8	15.1	15.0	26.5	10.7	6.2	5.9	4.9	5.4	4.8	7.6

HIGHEST STAGE WAS 35.3 FROM 800 A.M., MAY 13 TO 400 P.M., MAY 14.
LOWEST STAGE WAS 4.8 FROM 800 A.M., NOV. 4 TO 800 A.M., NOV. 5.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.3, AT RAILROAD FERRY LANDING.

GAGE. STAFF TYPE IN SEVERAL SECTIONS. GAGE IS READ AND MAINTAINED BY MEMPHIS DISTRICT, CORPS OF ENGINEERS.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,041,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, -0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET GAGE ZERO, 141.70 FEET, M.S.L. (1929-58 ADJ.)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14.4	18.6	22.4	31.9	36.4	18.2	15.0	17.2	7.2	24.7	12.6	10.0
2	15.5	19.5	21.8	33.1	35.4	18.6	14.4	16.0	8.0	25.1	12.0	10.2
3	16.4	19.9	20.4	34.3	34.5	18.4	13.7	14.1	8.3	25.2	11.6	10.4
4	17.0	20.3	21.8	35.5	34.0	18.1	13.5	12.0	8.5	25.0	11.4	10.7
5	17.3	20.8	22.0	36.2	33.8	18.1	13.3	10.3	10.4	24.7	11.4	11.0
6	17.4	20.0	23.3	37.1	33.8	18.1	14.0	9.4	12.1	24.1	11.0	11.2
7	17.9	18.9	24.6	37.8	34.0	18.3	16.2	8.5	13.0	22.3	10.7	11.0
8	18.9	18.2	26.0	38.4	33.9	18.5	18.1	8.2	14.3	20.5	10.0	10.6
9	20.2	17.8	27.5	38.8	33.4	19.0	19.5	8.0	14.0	19.1	9.8	9.6
10	21.9	16.0	28.6	39.3	32.7	20.1	19.8	8.2	12.8	18.4	9.8	9.0
11	24.5	14.7	29.4	39.7	31.7	21.3	19.5	8.7	11.9	17.8	9.7	8.8
12	24.8	15.5	29.8	40.0	30.5	22.3	19.1	8.8	13.7	17.7	9.4	8.7
13	25.1	17.9	29.9	40.4	29.0	22.5	18.1	8.4	14.5	17.7	9.1	8.6
14	25.4	20.8	29.9	40.6	27.8	22.8	17.8	8.2	15.4	17.4	8.7	8.5
15	25.8	25.3	29.9	40.6	27.0	22.2	17.2	8.2	16.9	16.5	8.3	8.2
16	25.3	28.7	29.7	40.5	26.2	21.8	16.6	8.0	17.9	16.0	8.5	8.4
17	25.5	30.8	29.5	40.5	25.6	20.7	16.1	7.9	18.6	15.4	9.0	8.6
18	25.7	32.2	29.4	40.5	25.1	19.8	15.6	7.9	18.0	14.5	8.7	8.6
19	25.3	33.0	29.1	40.6	24.5	19.1	15.3	7.8	17.3	14.0	8.9	8.6
20	25.1	33.6	28.5	40.5	24.0	18.7	15.0	7.7	16.6	13.6	9.0	8.7
21	24.7	33.4	27.6	40.5	23.4	18.5	14.8	7.1	16.3	13.3	9.3	9.1
22	23.9	33.0	27.4	40.5	22.8	18.1	14.6	7.0	17.1	13.4	9.7	9.6
23	22.7	32.4	27.7	40.4	21.8	17.7	14.3	6.8	18.0	13.8	9.9	9.8
24	21.4	31.3	28.5	40.3	21.2	17.5	13.7	6.7	18.0	13.8	10.2	9.9
25	19.8	30.4	29.3	40.2	20.5	17.2	13.2	6.9	17.7	13.7	10.5	9.7
26	18.0	28.7	30.0	40.1	19.9	17.0	12.7	7.0	18.3	13.6	10.7	9.5
27	16.2	26.7	30.1	40.0	19.4	16.6	13.6	7.1	19.2	13.5	11.0	9.1
28	15.2	24.5	29.9	39.3	19.3	16.3	15.5	7.0	21.0	13.4	10.8	9.0
29	15.0		29.4	38.5	19.2	16.0	17.2	6.8	22.6	13.4	10.4	9.0
30	15.1		30.2	37.5	18.7	15.6	18.0	6.3	23.7	13.4	10.1	9.2
31	17.9		30.9		18.0		18.0	6.2		13.4		10.0

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	20.69	24.39	27.51	38.79	27.02	18.90	15.92	8.66	15.38	17.37	10.07	9.46
MAX.	25.3	33.6	30.9	40.6	36.4	22.8	19.8	17.2	23.7	25.2	12.6	11.2
MIN.	14.4	14.7	20.4	31.9	18.0	15.6	12.7	6.2	7.2	13.3	8.3	8.2

HIGHEST STAGE WAS 40.64 AT 1000 A.M., APR. 15.
LOWEST STAGE WAS 6.2 AT 800 A.M., AUG. 31.

MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION. LAT. 34-31-26, LONG. 90-35-02. MILE 663.3, AT RAILROAD FERRY LANDING.

GAGE. STAFF TYPE IN SEVERAL SECTIONS.

GENERAL INFORMATION. DRAINAGE AREA, 941,700 SQUARE MILES. BANKFULL STAGE, 41 FEET. AVERAGE LOW WATER PLANE, 4.7 FEET ON GAGE.

RECORDS AVAILABLE. STAGE, NOV. 23, 1871, TO DATE. STAGES ARE PUBLISHED ALSO BY U. S. WEATHER BUREAU. DISCHARGE, 1879 INTERMITTENTLY TO DATE. COMPUTED DAILY, 1928 TO DATE.

EXTREMES. HIGHEST, 60.21 FEET FROM FEB. 12 TO 14, 1937. LOWEST, MINUS 3.0 FEET ON NOV. 8 AND 9, 1895. MAXIMUM, 2,641,000 CFS OBSERVED ON APR. 23, 1912 (STAGE, 54.1). DISCHARGE WAS AFFECTED AFTER APR. 6 BY NUMEROUS LEVEE CREVASSES DOWNSTREAM. MINIMUM, 81,000 CFS COMPUTED FOR AUG. 26, 1936 (STAGE, -0.16). DISCHARGE NOT DETERMINED FOR RECORD LOW STAGE.

DAILY EIGHT A.M. STAGE IN FEET FOR 1964 GAGE ZERO, 141.70 FEET, M.S.L. (1929-58 ADJ.)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.6	13.2	11.7	39.4	33.4	12.6	18.6	6.5	5.65	5.6	3.5	9.0
2	0.1	13.6	11.2	39.2	34.0	13.1	18.35	6.5	5.35	6.4	3.7	10.2
3	-0.3	13.7	8.1	38.8	34.4	14.0	17.8	6.3	5.25	7.3	4.2	11.5
4	-0.4	13.8	7.2	38.4	34.8	15.0	16.2	6.1	5.1	8.6	4.5	13.0
5	-0.2	13.4	8.2	37.3	34.9	15.4	14.5	6.0	4.85	9.6	4.0	13.5
6	-0.2	12.7	8.9	36.2	35.03	14.8	13.0	5.7	4.55	9.7	3.8	13.7
7	0.0	12.0	10.5	34.3	35.1	13.6	11.7	5.3	4.45	9.7	3.7	13.8
8	0.4	11.3	14.1	32.1	34.9	12.2	10.5	5.2	4.2	9.65	3.8	14.7
9	1.1	10.1	18.5	30.6	34.65	11.1	9.4	5.4	3.85	9.25	3.9	16.0
10	2.0	8.8	23.4	30.4	34.15	10.4	8.5	5.9	3.55	8.65	4.0	17.4
11	2.95	7.4	27.1	31.5	33.3	10.0	8.2	5.9	3.5	8.2	4.5	17.9
12	4.6	6.5	30.0	32.8	32.0	9.75	8.9	5.6	4.15	7.95	4.6	18.4
13	7.4	6.8	32.3	33.7	30.15	9.75	9.1	5.5	4.5	7.65	4.5	18.1
14	9.6	7.3	33.7	34.4	28.0	9.7	8.9	5.1	4.5	6.9	4.3	17.9
15	10.8	7.9	34.7	34.3	25.8	9.55	9.0	4.4	4.5	6.1	4.3	18.0
16	11.5	8.6	35.3	34.0	23.7	9.5	9.2	4.35	4.55	5.45	4.3	18.1
17	11.7	8.7	35.95	33.7	21.7	9.4	9.4	4.9	5.2	4.8	4.1	18.6
18	11.6	8.5	36.45	33.6	20.2	9.1	9.55	4.65	6.0	4.4	4.1	19.0
19	11.4	8.7	36.9	33.4	18.7	8.8	9.95	4.0	6.4	4.5	4.1	19.4
20	11.3	9.6	37.35	33.0	17.7	9.4	10.05	3.7	6.3	4.5	4.0	19.8
21	11.0	10.3	37.8	32.3	16.9	11.7	9.95	4.7	6.1	4.6	4.9	20.1
22	10.2	12.9	38.2	31.5	16.4	14.4	9.7	5.1	5.55	4.3	5.5	20.0
23	8.2	13.9	38.5	30.2	16.1	16.2	9.5	5.1	5.05	4.1	6.0	19.9
24	5.9	14.35	38.8	28.9	15.8	17.1	9.3	4.7	5.0	4.25	7.1	18.7
25	5.0	14.6	39.2	27.7	15.3	17.3	8.7	4.5	5.2	4.35	7.9	17.4
26	5.8	14.6	39.45	27.3	14.6	17.3	8.1	4.7	5.2	4.3	8.4	16.5
27	6.5	14.4	39.6	28.5	13.9	17.75	7.7	5.6	5.4	4.4	8.5	14.9
28	7.7	13.8	39.7	30.2	13.2	18.2	7.3	5.6	5.6	4.65	8.4	13.2
29	9.4	12.9	39.72	31.55	12.6	18.6	7.15	5.4	5.5	4.9	8.4	12.5
30	11.1		39.72	32.6	12.2	18.7	7.0	5.8	5.4	4.4	8.4	12.9
31	12.3		39.6		12.2		6.7	5.95		3.8		13.5

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

MEAN	6.10	11.18	28.77	33.06	24.38	13.15	10.38	5.30	5.01	6.22	5.18	16.05
MAX.	12.3	14.6	39.72	39.4	35.1	18.7	18.6	6.5	6.4	9.7	8.5	20.1
MIN.	-0.4	6.5	7.2	27.3	12.2	8.8	6.7	3.7	3.5	3.8	3.5	9.0

HIGHEST STAGE WAS 39.73 AT 400 P.M. ON MAR. 28.
LOWEST STAGE WAS MINUS 0.4 AT 800 A.M. ON JAN. 4.

1963

MISSISSIPPI RIVER
Helena, Ark.

*Zero of gage: 141.70 m.s.l. (141.81 m.g.l.) (Bankfull 41') 669.9 R Miles A.H.P.
Lat.: 34° 31' 26" - Long.: 90° 38' 02"
Memphis District, CE gage.

Vertical staff gage located back of the railroad transfer incline.

Highest: 42.70 on 1 April.
Lowest: 0.70 on 28-29 December.
Period of record: 23 November 1871 to date.
Highest for period of record: 60.21 on 12-14 February 1937.
Lowest for period of record: -3.00 on 8-9 November 1895.

*Zero of gage changed from 141.88 to 141.70 m.s.l. by 1958 level adjustment.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.2	7.0	9.8	42.70	14.8	18.3	9.8	9.1	5.5	2.8	1.7	2.9
2	14.9	6.7	10.9	42.65	15.2	18.8	9.4	8.8	6.0	2.6	2.0	3.1
3	15.0	6.6	11.3	42.60	16.0	18.7	8.9	8.4	6.5	2.4	1.9	3.9
4	14.7	6.6	11.2	42.5	18.0	18.2	8.7	8.2	6.4	2.4	1.8	5.0
5	14.1	6.5	10.7	42.3	20.2	17.7	8.9	8.2	6.1	2.3	1.8	5.0
6	13.6	6.4	10.7	42.0	21.4	17.2	9.5	8.0	5.5	2.2	2.1	4.5
7	13.5	6.7	11.5	41.6	21.4	16.3	9.7	7.8	5.0	2.4	2.2	4.8
8	13.6	8.0	13.3	41.2	20.4	15.0	9.4	8.1	5.1	2.5	2.2	5.3
9	13.6	9.2	17.6	40.4	19.4	13.8	9.1	8.2	5.3	2.4	1.8	5.4
10	13.2	10.5	23.6	39.5	18.3	13.2	8.6	8.4	5.2	2.2	2.1	5.0
11	12.3	11.5	27.8	38.0	17.5	12.4	8.1	8.5	4.8	2.3	2.9	4.8
12	10.8	12.4	30.7	36.4	16.5	12.5	7.5	8.2	4.2	2.4	3.6	4.8
13	8.9	13.1	32.2	33.9	15.4	13.0	7.5	7.6	4.1	2.4	3.3	4.4
14	8.2	13.5	33.2	31.3	14.6	13.9	7.6	7.4	4.4	2.4	3.4	3.7
15	8.3	13.7	33.8	28.1	14.2	14.6	7.3	7.6	4.5	2.3	3.3	3.8
16	8.4	13.7	34.4	25.5	13.6	15.2	6.9	7.8	4.6	2.0	3.2	4.2
17	8.9	13.6	35.2	23.3	13.1	15.7	7.0	7.9	4.9	1.8	3.2	4.4
18	9.5	13.5	35.8	21.3	12.9	15.6	7.5	7.7	4.8	1.9	2.8	4.4
19	10.3	13.4	36.6	19.4	13.0	15.2	7.8	6.9	4.6	2.0	2.6	4.5
20	10.9	12.9	37.4	17.4	13.3	15.2	7.6	6.2	4.4	2.1	2.6	4.4
21	11.5	12.4	38.2	15.4	14.1	15.2	7.8	5.9	4.1	2.1	2.3	4.1
22	12.5	12.0	38.9	14.3	15.5	14.6	7.9	5.4	3.8	2.0	2.0	3.5
23	13.4	11.4	39.6	13.4	17.0	12.7	8.3	5.6	3.6	2.0	1.9	2.9
24	13.7	10.4	40.2	12.8	18.5	11.7	8.6	6.0	3.6	1.9	2.2	2.0
25	13.5	9.3	40.8	12.4	18.9	11.1	9.2	5.8	3.2	1.8	2.3	1.4
26	12.8	8.9	41.2	12.2	18.9	10.8	9.8	5.7	2.6	1.8	2.2	1.1
27	11.5	9.0	41.6	12.3	19.2	10.7	10.0	5.6	2.5	1.7	2.3	0.8
28	10.2	9.3	42.0	12.8	19.2	10.6	10.2	5.6	2.8	1.8	2.6	0.70
29	8.7		42.2	13.3	18.3	10.3	10.0	5.6	3.0	1.9	2.9	0.70
30	7.8		42.4	14.0	17.8	10.1	9.5	5.5	2.9	1.6	2.9	0.8
31	7.2		42.6		17.9		9.1	5.3		1.5		0.9

8:00 a.m. readings.

1962

MISSISSIPPI RIVER
Helena, Ark.

*Zero of gage: 141.70 m.s.l. (141.81 m.g.l.) (Bankfull 41') 659.9 R Miles A.H.P.
Lat.: 34° 31' 26" - Long.: 90° 38' 02"
Memphis District, CE gage

Vertical staff gage located back of the railroad transfer incline

Highest: 44.70 on 7-10 April
Lowest: 4.90 on at 8:00 a.m. on 21 December
Period of record: 23 November 1871 to date
Highest for period of record: 60.21 on 12-14 February 1937
Lowest for period of record: -3.00 on 8-9 November 1895

*Zero of gage changed from 141.88 to 141.70 m.s.l. by 1958 level adjustment

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.6	34.0	33.1	44.2	36.1	16.8	16.2	16.2	7.7	8.8	8.4	13.1
2	27.9	34.8	35.0	44.3	34.1	17.2	15.8	15.7	7.8	9.0	8.6	13.5
3	25.8	35.3	36.6	44.4	32.2	17.7	15.5	14.8	8.3	9.2	8.7	13.9
4	23.8	35.7	37.6	44.5	30.8	18.0	15.1	14.0	8.6	9.5	8.3	13.9
5	22.0	36.0	38.8	44.6	29.8	18.9	14.5	13.8	8.8	9.6	8.2	13.2
6	20.7	36.3	39.7	44.6	29.3	20.5	14.1	13.1	8.8	9.9	8.4	11.2
7	19.6	36.5	40.7	44.70	28.7	21.7	13.6	12.6	9.1	10.5	8.6	9.3
8	18.5	36.4	41.3	44.70	28.0	22.1	13.6	12.3	9.6	11.4	8.8	8.3
9	17.9	36.3	42.0	44.70	27.2	22.0	14.1	12.0	10.3	11.9	9.0	8.0
10	18.3	36.1	42.6	44.70	26.3	21.6	15.4	11.6	10.7	12.0	9.3	8.2
11	20.1	36.0	43.0	44.5	25.3	21.3	16.4	11.3	10.8	11.8	8.6	8.5
12	22.0	35.5	43.3	44.4	24.4	21.5	16.7	11.6	10.8	11.4	7.9	8.8
13	23.0	34.8	43.5	44.2	23.4	21.7	16.2	11.4	10.9	11.2	7.7	9.0
14	23.7	34.0	43.5	44.0	22.5	21.7	15.6	11.1	11.0	10.8	8.1	8.8
15	24.1	33.0	43.7	43.8	21.7	21.8	15.2	10.8	11.1	10.1	9.3	8.6
16	24.3	32.0	43.9	43.6	21.4	22.2	14.9	10.3	11.2	10.0	10.6	8.2
17	24.4	30.9	44.0	43.5	21.4	22.6	14.6	9.9	11.9	10.2	11.7	7.2
18	24.8	29.8	44.1	43.4	21.6	22.8	14.3	9.5	12.4	10.4	12.7	6.2
19	25.5	28.8	44.1	43.3	21.4	23.0	14.3	9.0	12.4	10.2	13.6	5.6
20	25.8	28.0	44.1	43.3	21.0	23.1	14.6	8.6	11.9	10.1	14.5	5.0
21	25.6	27.6	44.2	43.2	20.4	22.8	15.3	8.6	11.3	10.3	15.0	4.90
22	24.8	27.3	44.3	43.2	19.6	22.0	16.4	8.6	11.3	11.0	15.2	5.2
23	25.0	27.2	44.2	43.1	18.5	20.7	17.3	8.3	11.5	11.1	15.0	5.8
24	24.8	27.3	44.0	42.9	17.8	19.5	16.7	8.0	11.2	10.8	14.4	6.3
25	25.0	27.4	43.8	42.6	17.4	18.6	16.0	7.9	10.6	9.8	13.8	6.8
26	26.4	27.5	43.8	42.3	17.0	18.0	15.6	7.7	10.0	9.7	13.4	7.5
27	28.1	29.0	43.7	41.8	16.6	17.4	15.2	7.5	9.5	9.6	13.2	8.3
28	29.8	31.1	43.7	41.0	16.1	17.0	15.0	7.5	9.1	9.6	13.2	9.3
29	31.1		43.7	39.7	15.8	16.7	15.2	7.6	9.0	9.4	13.2	10.3
30	32.3		43.8	37.9	16.0	16.5	15.9	7.8	8.8	9.2	13.1	11.3
31	33.3		44.1		16.4		16.2	8.1		8.9		12.8

8:00 a.m. readings
DMS 21
June 62

1961
MISSISSIPPI RIVER
HELENA, ARK.

*Zero of gage: 141.70 m.s.l. (141.81 m.g.l.) (Bankfull 41') 659.9 R Miles A.H.P.
Lat.: 34° 31' 26" - Long.: 90° 35' 02"
Memphis District, CE Gage

Vertical staff gage located back of the railroad transfer incline.

Highest: 48.00 on 23-25 May.
Lowest: 5.20 on 7 February.
Period of record: 23 November 1871 to date.
Highest for period of record: 60.21 on 12-14 February 1937.
Lowest for period of record: -3.00 on 8-9 November 1895.

*Zero of gage changed from 141.88 to 141.70 m.s.l. by 1958 level adjustment.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.0	7.7	28.8	42.0	35.0	39.5	20.1	21.3	9.6	18.5	10.0	22.5
2	7.8	6.5	29.8	41.5	35.2	36.1	18.0	21.0	10.0	19.0	9.3	21.7
3	8.3	6.5	30.7	41.0	35.2	32.4	16.2	20.3	10.1	18.4	9.3	21.0
4	9.7	6.7	31.6	40.3	35.0	29.0	15.0	19.3	9.9	17.2	9.6	20.4
5	11.4	6.0	32.6	39.8	35.0	26.6	14.5	18.3	9.5	16.3	9.8	20.1
6	12.8	5.3	33.3	39.4	34.9	24.7	14.6	17.8	9.6	15.3	11.0	19.6
7	13.7	5.20	34.0	38.7	35.0	23.3	14.9	17.5	9.8	14.6	13.7	18.9
8	14.1	5.5	34.7	37.8	35.1	22.5	15.1	17.3	9.7	14.6	16.3	17.8
9	14.2	6.0	35.2	37.0	35.5	21.9	15.1	17.3	9.4	15.2	18.2	16.2
10	13.7	6.6	35.8	36.1	36.3	21.6	14.5	17.7	9.6	15.6	20.3	15.7
11	13.2	7.0	36.4	35.3	37.0	21.2	13.8	18.3	10.0	15.3	21.2	15.5
12	12.6	7.7	37.0	34.5	38.0	21.4	13.1	18.4	10.5	14.6	21.7	16.0
13	11.3	8.1	37.8	34.3	38.9	22.1	12.7	18.3	11.0	14.0	21.5	17.2
14	10.0	8.7	38.7	33.8	40.0	22.8	13.3	18.0	10.8	13.4	20.6	19.3
15	9.2	9.9	39.5	33.6	41.0	23.0	13.7	17.8	10.4	12.4	19.3	21.1
16	8.7	10.9	40.3	34.2	42.0	23.3	13.7	17.4	10.1	11.4	18.1	22.3
17	8.4	11.5	41.0	34.7	43.3	23.8	13.1	17.0	9.8	10.9	17.2	24.0
18	7.8	11.8	41.6	35.1	44.4	24.7	12.4	16.8	9.7	10.6	16.3	25.1
19	7.9	12.1	42.0	35.5	45.4	25.9	12.6	16.7	11.5	11.3	15.7	25.5
20	8.8	12.2	42.4	35.8	46.3	26.8	13.0	16.6	15.5	13.0	15.6	26.1
21	9.9	13.1	42.8	36.0	47.0	27.3	13.3	16.1	19.0	14.1	15.9	27.1
22	10.5	14.3	43.0	36.2	47.6	27.7	14.0	15.1	21.3	14.3	17.1	28.0
23	11.2	16.0	43.2	36.0	48.00	28.0	14.6	13.6	22.5	14.0	20.2	29.0
24	12.2	17.6	43.3	35.8	48.00	28.2	15.4	11.9	22.3	13.2	22.5	29.7
25	13.2	20.3	43.2	35.4	48.00	28.1	16.4	10.6	21.3	12.4	24.0	30.3
26	14.0	23.8	43.1	35.2	47.9	27.7	17.2	10.0	19.9	11.8	24.8	30.8
27	14.5	25.9	43.0	34.9	47.3	26.9	17.6	10.0	18.5	11.4	25.2	31.2
28	14.5	27.5	43.0	34.5	46.7	25.5	18.3	10.2	17.4	11.2	25.0	31.8
29	13.9		42.8	34.5	45.8	23.9	19.9	10.0	17.1	11.2	24.4	32.0
30	12.7		42.6	34.6	44.4	22.0	21.0	9.7	17.6	11.1	23.6	31.8
31	10.4		42.5		42.3		21.4	9.5		10.8		30.9

8:00 a.m. readings.

1960

MISSISSIPPI RIVER
HELENA, ARK.

*Zero of gage: 141.70 m.s.l. (141.81 m.g.l.) (Bankfull 41') 659.9 R Miles A.H.P.
Lat.: 34° 31' 26" - Long.: 90° 35' 02"
Memphis District, CE Gage

Vertical staff gage located back of the railroad transfer incline.

Highest: 40.60 on 19-21 April.
Lowest: 5.75 on 3 November.
Period of record: 23 November 1871 to date.
Highest for period of record: 60.21 on 12-14 February 1937.
Lowest for period of record: -3.00 on 8-9 November 1895.

*Zero of gage changed from 141.88 to 141.70 m.s.l. by 1958 level adjustment.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.3	24.9	25.0	24.9	28.4	27.0	26.7	10.8	10.2	8.0	6.2	8.0
2	23.7	23.4	24.3	26.1	26.7	26.9	27.6	10.6	9.6	8.0	6.0	7.7
3	23.7	22.4	23.7	28.2	25.3	26.9	28.2	10.5	8.9	8.2	5.75	7.8
4	24.0	21.8	23.2	30.3	24.4	26.8	28.6	10.3	8.4	8.2	6.0	8.3
5	24.3	21.3	22.9	32.0	24.0	26.6	28.8	9.8	8.6	8.2	6.3	8.6
6	24.5	20.8	22.9	33.5	24.2	26.2	28.8	9.3	9.3	8.0	6.5	8.6
7	24.3	20.4	23.6	34.7	25.0	25.7	28.9	9.1	10.4	7.8	6.6	8.5
8	24.1	20.0	24.5	35.6	25.3	25.1	29.3	8.9	11.3	7.8	7.5	8.4
9	23.7	19.9	25.2	36.5	25.2	24.3	29.8	9.0	11.6	7.8	8.7	8.2
10	23.3	20.3	25.6	37.2	25.0	23.6	30.2	9.7	11.5	7.8	10.0	8.1
11	23.0	21.4	25.5	37.7	25.1	22.8	30.1	10.4	11.3	8.0	10.1	7.8
12	22.6	22.7	24.9	38.2	25.5	21.4	29.7	10.8	10.7	7.9	9.9	7.4
13	22.4	23.8	24.1	38.8	26.1	20.1	28.8	11.0	10.1	7.6	9.9	7.5
14	22.6	24.7	22.9	39.3	26.9	19.3	27.4	11.2	9.8	7.4	10.0	8.1
15	22.8	25.5	21.7	39.6	27.7	18.8	24.8	11.0	9.9	7.1	10.3	9.0
16	23.0	26.0	20.4	39.8	28.4	18.5	22.1	11.0	9.8	6.8	10.8	9.2
17	23.2	26.6	19.6	40.1	28.8	18.3	20.3	10.7	9.8	6.6	11.0	9.3
18	23.8	27.3	19.0	40.4	29.1	18.2	19.4	10.6	9.8	6.2	10.9	9.3
19	24.9	27.9	18.7	40.60	29.2	18.8	19.2	10.5	9.8	6.1	10.4	9.2
20	26.3	28.4	18.8	40.60	29.2	19.9	19.0	10.1	9.6	6.4	10.0	9.0
21	28.1	28.5	19.2	40.60	29.0	21.2	18.0	9.6	9.6	6.4	9.8	8.8
22	29.8	28.8	20.0	40.3	28.9	22.2	16.6	9.7	10.0	6.4	9.6	8.2
23	31.0	29.0	20.9	39.7	28.8	22.6	15.6	9.6	10.4	6.6	9.6	7.6
24	32.0	29.1	21.7	38.9	28.8	22.1	14.8	9.7	10.3	7.0	9.0	7.2
25	32.5	29.1	22.5	38.0	28.8	21.3	14.2	9.8	10.0	7.0	8.8	7.0
26	32.5	28.8	23.0	36.8	28.8	20.4	13.5	9.7	9.6	6.8	8.9	7.3
27	32.0	28.2	23.3	35.4	28.4	20.4	12.8	9.6	9.4	6.6	9.0	7.5
28	31.0	27.3	23.5	33.8	28.0	21.0	12.1	9.9	9.2	6.4	9.2	7.5
29	29.7	26.3	23.8	32.0	27.5	22.5	11.8	10.4	9.0	6.4	9.0	7.1
30	28.2		24.0	30.3	27.2	24.9	11.5	10.6	8.5	6.3	8.6	6.6
31	26.6		24.4		27.2		11.2	10.4		6.4		6.5

8:00 a.m. readings.

MISSISSIPPI RIVER
HELENA, ARK.

*Zero of gage: 141.70 m.s.l. (141.81 m.g.l.)(Bankful 41') 659.9 R Miles A.H.P.
Lat.: 34° 31' 26" - Long.: 90° 35' 02"
Memphis District, CE Gage

Vertical staff gage located back of the railroad transfer incline.

Highest: 35.70 on 27, 28 February.
Lowest: 3.43 on 26 September.
Period of record: 23 November 1871 to date.
Highest for period of record: 60.21 on 12-14 February 1937.
Lowest for period of record: -3.00 on 8-9 November 1895.

*Zero of gage changed from 141.88 to 141.70 m.s.l. by 1958 level adjustment.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.7	31.0	35.6	25.3	23.8	22.7	9.3	10.4	7.2	5.9	10.7	12.0
2	5.4	31.4	35.2	25.0	22.7	22.1	9.1	10.2	7.6	7.5	11.3	13.0
3	6.6	31.6	34.7	24.9	21.5	21.4	9.2	10.0	7.6	9.2	11.9	14.3
4	7.2	32.0	34.0	25.0	20.6	20.8	9.6	9.4	7.9	11.0	12.3	15.7
5	7.4	32.2	33.1	25.3	20.1	20.6	10.0	8.8	8.4	12.2	12.6	16.6
6	7.7	32.3	32.2	25.5	20.1	21.0	10.2	8.2	8.7	12.8	12.3	17.3
7	8.0	32.4	31.0	25.8	20.2	22.3	10.2	7.9	8.8	13.0	12.0	17.5
8	8.8	32.3	29.8	26.1	20.4	23.4	10.5	8.0	8.8	13.0	12.0	17.6
9	9.9	31.8	28.7	26.5	20.4	24.1	11.4	8.2	8.7	13.0	12.4	17.6
10	10.8	31.1	27.9	26.8	20.3	24.0	12.7	9.0	8.7	13.3	13.0	17.6
11	11.0	30.1	27.3	26.9	20.3	23.3	13.2	10.8	8.7	14.1	13.5	17.5
12	11.2	28.4	27.0	26.8	20.4	22.8	12.9	12.1	8.3	15.5	13.6	17.7
13	11.0	26.5	26.8	26.6	20.6	22.0	12.2	13.1	8.0	17.8	13.8	17.5
14	10.3	25.0	26.6	26.7	21.0	21.2	11.2	13.4	7.7	19.5	13.8	17.2
15	9.2	25.4	26.3	27.0	21.7	19.8	10.4	12.7	7.7	20.4	13.7	17.0
16	8.4	26.7	26.0	27.4	22.0	17.7	9.8	11.4	7.4	21.0	13.3	17.6
17	7.8	28.4	26.2	27.5	22.2	16.0	9.6	10.3	6.9	21.2	13.1	19.0
18	7.4	30.3	26.4	27.4	22.0	15.0	9.4	9.3	6.2	20.1	12.7	20.6
19	8.0	31.8	26.6	27.0	21.5	14.1	9.1	8.6	5.7	18.8	11.9	21.9
20	9.3	32.9	26.6	26.4	20.9	13.5	8.7	8.6	5.5	17.2	11.3	22.9
21	11.2	33.8	26.6	25.6	20.5	13.0	8.6	9.8	5.1	15.7	11.3	23.8
22	13.3	34.4	26.7	25.2	20.4	12.1	9.1	10.5	4.6	14.5	11.4	24.9
23	14.8	35.0	26.7	25.3	21.0	11.4	9.4	10.0	4.3	13.7	11.4	26.2
24	17.3	35.2	26.6	25.5	21.4	10.9	9.6	9.6	3.9	13.1	11.2	27.6
25	20.9	35.5	26.3	25.6	21.7	10.0	9.7	9.4	3.53	12.5	10.7	28.6
26	24.0	35.6	26.0	25.6	21.8	9.2	9.6	9.0	3.43	11.8	10.0	29.0
27	26.5	35.7	25.8	25.4	22.0	8.9	9.6	8.2	3.7	10.9	9.8	29.0
28	28.2	35.7	25.8	25.3	22.5	9.0	9.9	7.7	3.7	10.1	9.8	28.5
29	29.3		25.6	25.2	23.0	9.2	10.4	7.3	3.9	9.6	10.3	27.6
30	30.2		25.5	24.7	23.1	9.3	10.7	7.0	4.6	9.8	11.2	26.6
31	30.8		25.4		23.0		10.6	6.6		10.2		25.3

8:00 a.m. readings.

1958
MISSISSIPPI RIVER
HELENA, ARK.

*Zero of gage: 141.70 m.s.l. (141.81 m.g.l.)(Bankful 41') 659.9 R Miles A.H.P.
Lat.: 34° 31' 26" - Long.: 90° 35' 02"
Memphis District, CE Gage

Vertical staff gage located back of the railroad transfer incline.

Highest: 39.02 on 19 May
Lowest: 4.70 on 30, 31 December
Period of record: 23 November 1871 to date
Highest for period of record: 60.21 on 12-14 February 1937
Lowest for period of record: -3.00 on 8-9 November 1895

*Zero of gage changed from 141.88 to 141.70 m.s.l. by 1958 level adjustment.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.7	25.0	10.7	27.6	25.9	20.8	23.3	37.7	15.3	14.0	6.5	12.3
2	34.8	25.6	10.9	27.9	27.8	19.0	22.8	37.7	15.0	14.0	6.8	11.7
3	34.9	26.0	12.2	27.9	29.8	17.8	22.3	37.6	14.4	13.8	6.7	11.6
4	34.9	26.3	14.3	27.7	31.4	16.7	21.8	37.4	13.8	13.4	6.5	11.6
5	34.8	26.2	16.8	27.5	32.8	15.2	21.2	37.2	13.2	12.9	6.2	12.0
6	34.8	26.0	19.2	27.2	33.9	14.2	20.2	37.1	12.2	12.0	6.1	12.5
7	34.5	25.4	21.0	26.8	34.7	13.9	18.7	37.1	11.0	11.4	6.4	12.5
8	34.0	24.9	22.3	26.8	35.3	13.9	17.0	37.2	10.2	10.5	6.6	12.3
9	33.2	24.0	23.7	26.8	35.8	14.1	16.0	37.3	10.1	9.4	6.5	11.9
10	32.0	23.3	24.6	26.9	36.8	14.7	15.9	37.3	10.4	9.1	6.2	11.8
11	30.7	23.1	25.2	27.0	37.4	14.3	16.8	37.2	10.3	9.2	6.3	12.2
12	28.7	23.4	25.5	27.5	38.0	13.5	18.1	37.1	10.4	9.1	6.2	12.9
13	26.6	23.5	25.9	27.7	38.5	12.9	19.1	36.7	10.7	8.8	6.0	13.4
14	23.6	23.4	26.3	27.8	38.7	12.9	19.8	36.0	11.2	8.6	6.0	13.6
15	20.7	22.9	26.6	28.2	38.9	14.4	20.1	35.0	11.6	8.5	6.2	13.6
16	18.2	22.3	26.8	28.6	39.0	16.2	20.1	33.6	12.2	9.1	6.3	13.2
17	16.5	21.8	26.7	28.8	39.0	18.0	20.3	32.0	12.6	10.0	6.2	12.6
18	15.5	21.5	26.6	28.7	39.0	19.5	21.1	30.3	12.7	10.6	6.3	11.6
19	15.0	20.8	26.1	28.6	39.02	21.1	23.0	28.5	12.7	10.3	7.0	9.6
20	14.8	19.7	25.2	28.5	39.0	22.6	25.3	26.8	13.0	9.9	7.3	8.0
21	15.2	18.3	24.2	28.3	38.97	24.0	27.7	25.2	13.1	9.3	8.2	7.0
22	15.6	16.7	23.4	27.9	38.9	25.0	29.6	23.7	13.0	8.6	9.5	6.4
23	16.1	15.1	22.7	27.2	38.8	25.3	31.3	22.4	12.9	7.8	10.9	5.9
24	17.0	14.0	22.4	26.4	38.6	25.3	32.5	21.3	13.3	7.3	12.2	5.6
25	18.2	13.4	22.4	25.5	38.6	25.1	33.5	20.2	14.1	7.0	13.6	5.4
26	19.8	12.9	22.3	25.2	37.6	25.0	34.6	19.5	15.2	7.0	14.5	5.4
27	20.7	11.9	22.9	24.6	36.2	24.4	35.6	18.8	15.6	7.0	14.6	5.1
28	21.5	11.3	24.3	24.2	33.2	24.1	36.4	17.7	15.1	6.7	14.4	5.0
29	22.3		25.6	24.0	30.5	24.0	36.8	16.4	14.5	6.3	14.0	5.0
30	23.2		26.5	24.6	27.0	23.7	37.2	15.8	14.0	6.0	13.3	4.70
31	24.1		27.2		23.5		37.5	15.5		6.1		4.70

8:00 a. m. readings

1957
MISSISSIPPI RIVER
HELENA, ARK.

Zero of gage: 141.88 m.s.l. (141.81 m.g.l.)(Bankfull 41') 659.9 R Miles A.H.P.
Lat.: 34°31'26" - Long.: 90°35'02"
Memphis District, CE Gage

Vertical staff gage located back of the railroad transfer incline.

Highest: 39.05 on 19 February
Lowest: 5.55 at 4:00 p.m. on 15 October
Period of record: 23 November 1871 to date
Highest for period of record: 60.21 on 12-14 February 1937
Lowest for period of record: -3.00 on 8-9 November 1895

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.6	24.2	32.1	18.1	35.4	38.3	23.1	16.0	6.7	8.2	11.1	35.4
2	17.2	27.0	30.0	18.0	34.2	38.5	22.8	16.2	6.4	8.5	11.5	34.6
3	16.7	29.4	28.4	17.6	33.0	38.6	23.0	17.0	6.4	8.1	11.6	33.7
4	16.2	31.0	27.4	17.5	32.1	38.3	23.9	17.2	6.2	7.5	11.0	32.4
5	15.7	32.4	26.8	18.2	31.0	37.6	25.2	16.8	6.2	7.0	10.2	31.0
6	15.1	33.3	26.4	18.7	29.8	36.5	26.9	15.5	6.2	7.0	9.5	29.2
7	14.4	34.2	25.8	20.8	28.5	35.0	28.2	14.4	6.4	7.0	8.9	27.4
8	13.5	35.0	25.0	24.4	27.3	33.2	28.8	13.6	6.5	6.8	8.8	25.8
9	13.0	35.7	24.1	28.0	26.2	31.6	29.0	13.1	6.5	6.4	9.4	24.3
10	12.7	36.4	23.4	30.6	25.2	30.2	28.6	12.8	6.3	6.3	9.5	23.2
11	12.4	37.0	22.8	32.5	24.3	28.9	28.4	12.2	6.1	6.0	9.9	23.0
12	11.7	37.4	22.9	34.0	23.1	28.0	28.0	11.4	6.1	5.8	11.0	23.8
13	10.6	37.8	23.1	35.2	21.6	27.6	27.8	10.6	6.3	5.8	11.6	25.2
14	9.4	38.2	23.2	36.0	19.7	27.5	27.2	10.0	6.4	5.8	12.3	26.8
15	8.8	38.4	23.0	36.8	18.5	27.0	26.1	10.4	6.6	5.55	13.0	28.1
16	9.3	38.7	22.4	37.2	17.9	26.2	24.9	11.2	6.7	5.6	13.3	28.9
17	10.1	38.9	21.6	37.4	17.5	25.3	23.7	11.0	7.0	6.0	16.2	29.4
18	11.1	39.0	21.2	37.6	17.1	24.7	22.8	10.4	7.5	6.2	19.7	29.5
19	12.6	39.05	20.8	37.9	16.9	25.0	21.9	9.8	7.5	6.1	22.9	29.4
20	14.1	38.9	20.4	38.0	16.8	26.0	21.3	9.2	7.7	6.4	24.8	29.3
21	15.2	38.7	19.8	38.0	17.4	26.7	20.7	8.8	8.3	6.5	26.8	29.4
22	15.7	38.4	19.3	38.2	19.0	26.8	20.0	8.6	8.8	6.4	29.2	29.5
23	15.8	38.1	18.5	38.4	21.8	26.5	19.0	8.4	9.0	6.3	31.2	29.6
24	15.4	37.6	17.7	38.5	24.7	25.8	18.2	8.4	8.8	6.9	32.7	30.2
25	14.6	37.6	16.9	38.5	27.8	25.0	17.3	8.4	8.7	7.5	33.8	31.2
26	14.3	36.7	16.5	38.4	30.8	24.3	16.7	8.4	8.4	7.6	34.7	32.0
27	15.1	35.7	16.1	38.2	33.3	24.0	16.5	8.0	8.0	7.9	35.4	32.8
28	16.9	34.1	15.9	37.8	35.2	23.9	16.4	7.6	7.9	8.2	35.8	33.5
29	19.1		16.2	37.3	36.5	23.8	16.3	7.6	8.0	8.6	36.0	34.1
30	21.0		16.8	36.5	37.4	23.4	16.0	7.4	8.0	9.4	35.9	34.4
31	22.2		17.6		37.9		16.0	7.0		10.5		34.6

8:00 a.m. readings

1956
MISSISSIPPI RIVER
HELENA, ARK.

Zero of gage: 141.88 m. s. l. (141.81 m. g. l.) (Bankful 41') 659.8 miles A.H.P.
Lat.: 34°31'26" - Long.: 90°35'02"
Memphis District, CE gage.

Vertical staff gage located back of the railroad transfer incline.

Highest: 38.10 on 2 March
Lowest: 0.20 on 25 January
Period of record: 23 November 1871 to date
Highest for period of record: 60.21 on 12-14 February 1937
Lowest for period of record: -3.00 on 8-9 November 1895

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.4	4.1	38.05	31.7	27.0	16.4	15.8	12.3	8.2	4.8	3.0	4.8
2	3.6	5.9	38.10	30.6	25.3	15.8	16.3	12.4	7.5	4.6	3.2	4.6
3	3.6	11.3	38.05	29.0	23.8	15.2	16.4	12.3	6.9	4.2	3.3	4.6
4	3.2	17.1	37.95	27.2	22.6	15.2	16.1	12.2	6.8	4.3	3.2	4.4
5	3.0	21.7	37.8	25.4	22.1	16.0	15.8	12.2	6.8	4.6	3.2	4.1
6	2.9	25.3	37.5	24.0	22.0	17.2	15.6	12.3	7.2	4.9	3.4	3.7
7	2.8	27.8	37.1	23.5	22.0	18.7	15.2	12.8	7.8	4.8	3.8	3.5
8	2.6	29.6	36.6	23.5	21.8	19.9	14.9	13.5	8.0	4.6	4.0	3.4
9	2.3	31.2	36.1	24.1	21.6	20.8	14.6	13.9	8.0	4.4	4.2	3.1
10	2.2	32.4	35.4	25.6	21.5	21.0	14.4	14.2	7.7	4.2	4.5	2.8
11	2.2	33.3	34.8	27.2	21.8	21.0	14.3	13.6	7.4	4.2	4.3	2.7
12	2.0	34.2	34.2	28.7	22.3	20.8	14.2	12.6	7.3	4.3	4.1	3.1
13	2.2	34.5	33.6	29.7	22.8	20.5	14.0	12.1	7.3	4.2	3.6	4.3
14	2.1	34.7	33.1	30.4	23.2	20.0	13.6	11.8	7.2	4.1	3.1	5.5
15	1.8	34.6	32.7	30.9	23.4	19.2	13.7	11.9	7.1	4.0	2.8	6.6
16	1.6	34.4	32.3	31.1	23.3	18.3	13.7	12.2	6.9	3.8	3.1	7.8
17	1.4	34.1	32.0	31.1	22.8	17.2	13.5	13.2	6.8	3.5	3.2	9.8
18	1.3	33.9	32.0	31.1	22.1	16.1	13.0	14.2	6.6	3.4	3.0	12.6
19	1.3	33.8	32.3	31.2	21.3	15.0	12.2	15.0	6.3	3.1	3.7	15.2
20	1.2	33.9	32.7	31.5	20.8	13.6	11.5	15.6	6.4	2.9	2.7	16.8
21	1.0	34.4	33.2	31.7	20.4	11.6	11.0	15.7	6.8	2.6	2.8	17.6
22	0.8	35.2	33.6	31.8	19.8	9.9	11.0	15.3	7.4	2.2	3.0	18.0
23	0.5	35.8	34.0	31.7	19.3	9.6	11.5	14.6	7.8	2.0	3.0	18.4
24	0.3	36.4	34.3	31.2	19.0	10.0	12.2	13.3	7.8	1.8	3.4	18.8
25	0.20	36.9	34.4	30.7	19.1	10.8	12.8	12.3	7.4	1.6	3.9	18.9
26	0.25	37.2	34.4	30.1	19.2	11.6	12.8	11.3	6.5	1.6	4.4	19.1
27	0.45	37.5	34.2	29.6	19.0	12.8	12.6	10.3	5.7	2.1	4.8	19.3
28	0.8	37.7	33.9	29.1	18.7	13.8	12.4	10.0	5.5	2.4	4.7	19.4
29	1.2	37.95	33.6	28.5	18.2	14.6	12.3	9.6	5.3	2.6	4.7	19.3
30	2.0		33.2	27.9	17.6	15.2	12.2	9.2	5.0	2.5	4.8	18.8
31	3.8		32.6		17.0		12.2	8.7		2.8		18.2

8:00 A. M. readings

1955
MISSISSIPPI RIVER
HELENA, ARK.

Zero of gage: 141.88 m. s. l. (141.81 m. g. l.) (bankfull 41') 659.9 R miles A. H. P.
Lat.: 34°31'26" - Long.: 90°35'02"
Memphis District, CE gage.

Vertical staff gage located back of the railroad transfer incline.

Highest: 44.10 at 4:00 p. m. on 3-4 April.
Lowest: 1.90 at 4:00 p. m. on 29 December.
Period of record: 23 November 1871 to date.
Highest for period of record: 60.21 on 12-14 February 1937
Lowest for period of record: -3.00 on 8-9 November 1895

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.4	10.3	32.4	43.4	28.4	15.4	12.0	9.8	4.8	3.7	3.9	12.0
2	13.7	9.8	33.2	43.8	28.5	15.7	12.0	9.6	4.4	3.5	4.2	12.0
3	15.5	8.8	33.4	44.0	28.4	16.6	12.2	9.3	4.3	3.4	4.9	11.6
4	17.1	7.8	33.6	44.1	28.2	17.6	12.7	9.0	4.2	4.3	5.3	11.1
5	17.9	7.4	33.6	44.0	27.8	18.0	12.5	8.5	4.6	5.3	5.4	10.3
6	18.2	7.9	33.8	43.8	27.3	17.9	12.2	7.8	5.1	5.8	6.0	9.0
7	18.7	8.4	34.0	43.5	26.6	17.2	11.4	7.0	5.5	6.3	6.8	7.8
8	19.6	9.1	34.4	42.8	25.6	16.1	10.7	6.5	5.6	6.7	7.4	7.4
9	20.6	10.0	34.5	41.7	24.5	15.5	10.3	6.4	5.4	6.3	7.7	8.0
10	21.4	11.1	34.7	40.1	23.2	15.0	10.2	6.1	5.0	6.3	7.6	9.1
11	22.6	13.3	34.8	38.2	21.7	14.8	10.1	6.0	4.4	7.9	7.0	9.8
12	23.9	16.1	35.0	36.1	20.0	14.8	10.3	6.4	4.0	10.8	6.6	10.0
13	24.9	18.5	35.4	34.5	18.1	15.0	11.2	7.0	3.7	12.8	6.5	9.9
14	25.2	20.4	35.7	32.6	16.0	15.5	12.2	7.5	3.4	13.2	6.5	9.7
15	24.8	21.7	36.0	31.0	14.1	16.5	12.9	7.7	3.1	12.4	6.5	9.2
16	24.1	22.5	36.3	29.9	13.5	17.3	13.2	8.0	3.0	11.3	6.3	8.8
17	23.3	23.2	36.5	29.2	13.8	17.8	13.4	8.4	2.8	10.4	6.0	8.0
18	22.5	23.5	36.7	28.9	14.7	18.0	13.5	8.4	2.8	9.6	5.4	6.8
19	21.8	23.4	37.0	28.5	16.1	18.1	13.3	8.1	2.6	8.8	5.1	6.2
20	21.0	23.1	37.3	28.0	17.4	18.1	13.0	8.0	2.4	8.0	6.0	5.8
21	20.0	22.5	37.8	27.5	18.4	18.0	12.9	7.7	2.3	7.5	7.5	5.8
22	18.9	21.8	38.4	27.4	18.5	17.4	13.0	7.2	2.2	7.8	8.5	5.6
23	17.8	21.1	38.8	27.0	18.2	16.6	13.1	6.8	2.4	7.6	9.5	5.0
24	16.6	20.7	39.3	27.0	17.9	15.4	13.0	6.6	2.4	7.0	10.5	4.3
25	15.6	22.2	39.9	27.0	17.6	14.2	12.6	6.4	2.4	6.3	11.6	3.4
26	14.4	25.8	40.5	27.0	17.2	13.5	12.1	6.4	2.6	5.7	12.1	3.3
27	13.0	29.0	41.0	27.2	16.8	13.0	11.3	6.6	3.0	5.2	12.2	3.0
28	11.8	31.0	41.5	27.4	16.5	12.7	10.6	6.4	3.2	5.0	12.0	2.4
29	11.0		42.0	27.9	16.1	12.4	10.3	6.3	3.4	4.9	12.0	2.2
30	10.8		42.5	28.3	15.7	12.2	10.1	5.9	3.6	4.5	12.2	2.0
31	10.6		42.9		15.4		10.0	5.4		4.1		2.7

8:00 a. m. readings

1954
MISSISSIPPI RIVER
HELENA, ARK.

Zero of gage: 141.88 m. s. l. (141.81 m. g. l.) (bankfull 41') 659.9 R miles A. H. P.
Lat.: 34° 31' 26" - Long.: 90° 35' 02"
Memphis District, CE gage.
Vertical staff gage located back of the railroad transfer incline.

Highest: 26.25 on 31 January.
Lowest: 2.15 on 20 September.
Period of record: 23 November 1871 to date.
Highest for period of record: 60.21 on 13 February 1937.
Lowest for period of record: -3.00 on 8-9 November 1895.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.4	26.0	12.8	14.6	22.2	13.0	13.2	10.8	6.8	5.0	17.6	5.4
2	3.3	25.7	12.0	14.8	21.8	12.0	13.9	9.2	8.4	4.4	16.6	5.0
3	3.0	25.1	11.4	14.8	21.7	11.2	14.0	6.8	9.8	4.4	15.1	4.7
4	3.1	24.0	11.8	15.0	21.6	10.6	13.9	5.0	10.4	4.0	12.9	4.8
5	3.0	22.1	12.6	14.8	21.2	10.4	13.5	4.4	10.2	3.8	11.6	5.6
6	2.5	19.6	13.6	14.8	21.0	11.1	13.3	4.4	9.4	4.2	11.2	6.0
7	2.3	16.8	14.2	14.6	20.8	12.6	13.3	4.8	8.0	4.5	10.9	6.2
8	2.3	13.8	14.2	14.6	20.6	14.1	13.5	4.8	7.4	4.5	10.4	6.3
9	2.4	11.6	14.2	15.0	20.6	15.3	13.6	5.0	7.0	4.2	9.6	6.9
10	2.5	9.7	14.0	15.6	21.3	16.4	13.6	5.6	6.6	5.0	8.9	8.0
11	2.8	8.3	14.2	16.2	22.2	17.3	13.1	6.4	6.0	5.8	8.6	8.7
12	3.0	7.2	15.0	16.8	22.8	17.5	12.3	7.0	5.4	6.5	8.6	8.6
13	2.8	6.5	15.8	16.8	23.0	17.3	11.6	7.2	4.6	7.5	7.6	8.0
14	2.6	6.0	16.6	16.6	22.9	16.9	10.8	7.4	3.8	8.0	6.9	7.6
15	2.9	5.3	17.2	15.8	22.5	16.3	10.0	7.6	3.2	8.0	6.3	7.2
16	4.8	5.0	17.0	15.2	22.0	15.4	9.8	7.2	2.8	8.2	6.0	7.0
17	6.2	5.7	16.4	14.6	21.6	14.9	9.6	6.6	2.8	9.0	5.8	7.2
18	6.5	6.0	15.6	14.4	21.4	14.4	9.6	6.2	2.6	10.2	5.4	7.2
19	7.2	6.1	14.6	14.2	21.2	14.0	9.5	6.0	2.25	11.4	5.0	7.2
20	9.4	6.9	13.4	14.6	21.0	13.7	9.4	5.8	2.15	12.6	4.6	7.3
21	13.2	8.2	12.2	15.6	20.7	13.4	9.2	5.6	2.4	13.1	4.4	7.2
22	16.4	9.1	11.6	16.6	20.3	13.6	9.2	5.8	2.4	13.2	4.0	7.4
23	18.3	10.4	11.4	17.8	19.8	14.0	9.2	6.0	2.8	13.4	3.6	7.6
24	19.8	11.4	11.8	18.8	19.3	14.4	9.4	6.2	4.4	13.6	3.2	8.2
25	21.2	12.2	12.2	19.3	18.9	14.4	9.8	6.4	6.2	13.9	3.4	8.8
26	22.4	13.0	12.4	19.7	18.2	14.4	10.2	6.6	7.4	14.9	3.6	9.0
27	23.8	13.2	12.4	20.5	17.2	13.9	10.6	6.8	7.8	16.1	3.8	9.1
28	24.9	13.0	12.4	21.5	16.4	13.3	10.6	7.0	7.0	17.6	4.0	9.6
29	25.6		12.8	22.2	15.6	12.8	10.8	6.6	6.4	18.5	4.4	10.3
30	26.15		13.4	22.4	14.8	12.7	11.0	6.0	5.6	18.7	5.2	10.8
31	26.25		14.0		14.0		11.2	6.0		18.4		11.4

8:00 a. m. readings

1953
MISSISSIPPI RIVER
HELENA, ARK.

Zero of gage: 141.88 m. s. l. (141.81 m. g. l.) (bankfull 41') 659.9 R. miles A. H. P.
Lat.: 34° 31' 26" - Long.: 90° 35' 02"
Memphis District, CE gage
Vertical staff gage located back of the railroad transfer incline.
Highest: 34.97 on 25 May.
Lowest: 1.10 on 21 November.
Period of record: 23 November 1871 to date.
Highest for period of record: 60.21 on 13 February 1937.
Lowest for period of record: -3.00 on 8-9 November 1895.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.2	20.8	27.4	30.4	27.0	30.1	14.0	10.8	7.5	3.0	1.5	1.2
2	6.6	20.9	27.9	29.8	26.7	29.4	14.3	10.3	7.4	3.0	1.6	1.3
3	6.2	21.1	28.0	29.4	26.5	28.4	14.4	10.0	7.3	2.8	1.7	1.4
4	6.4	21.2	27.9	29.2	26.9	27.3	14.6	9.8	7.2	2.5	1.6	1.4
5	6.8	21.2	27.5	29.3	27.5	25.9	14.9	10.0	6.9	2.2	1.5	1.5
6	7.0	21.0	27.5	30.1	27.8	24.5	15.3	10.0	6.5	2.0	1.5	1.8
7	7.4	20.3	28.4	31.0	27.5	22.6	15.6	10.0	6.1	1.9	1.5	2.3
8	7.7	19.8	29.7	31.6	27.3	21.3	15.7	9.8	5.8	1.8	1.4	2.5
9	8.0	19.2	30.8	31.8	27.4	20.2	15.9	9.8	5.6	1.9	1.4	2.7
10	8.3	18.9	31.7	31.6	27.2	19.3	16.3	10.0	5.6	2.2	1.4	2.8
11	8.9	18.7	32.2	31.2	26.9	18.7	16.5	10.1	5.5	2.2	1.4	3.0
12	10.0	19.4	32.5	30.4	27.1	18.3	16.7	10.3	5.3	2.0	1.4	2.9
13	10.9	19.4	32.5	29.6	27.2	18.3	17.0	10.6	4.9	2.0	1.3	3.2
14	11.9	19.0	32.2	28.8	27.4	18.2	17.0	11.2	4.5	2.0	1.4	3.9
15	13.6	19.4	31.6	28.0	27.8	18.2	16.5	11.6	4.1	1.8	1.5	4.4
16	15.9	20.4	31.0	27.3	28.2	18.2	16.0	11.6	3.8	1.6	1.6	4.2
17	18.0	22.0	30.3	26.7	28.8	18.0	15.4	11.6	3.7	1.4	1.5	4.0
18	19.4	23.2	30.0	26.2	29.5	18.0	14.4	11.6	3.7	1.4	1.4	4.5
19	20.2	23.8	30.0	25.8	30.4	18.4	13.7	11.4	3.8	1.6	1.3	5.0
20	20.4	24.2	30.0	25.5	31.4	18.9	13.1	10.9	3.9	1.6	1.2	4.7
21	19.7	24.2	30.0	25.3	32.5	18.8	12.6	10.7	3.8	1.6	1.1	4.5
22	18.8	23.9	30.2	25.4	33.6	18.6	12.6	10.6	3.5	1.6	1.2	4.5
23	18.4	23.4	30.8	25.6	34.4	18.3	13.4	10.3	3.2	1.6	1.4	4.6
24	18.5	22.9	31.1	25.7	34.8	18.0	12.8	9.7	3.2	1.5	1.3	4.2
25	18.9	23.0	31.2	25.9	34.97	17.5	12.6	9.2	3.4	1.5	1.2	4.2
26	19.5	23.8	31.5	26.0	34.7	16.8	12.7	8.9	3.2	1.4	1.4	4.3
27	20.1	25.1	31.8	25.9	34.0	15.8	12.7	8.3	3.2	1.4	1.7	4.2
28	20.6	26.5	32.0	25.8	33.0	14.8	12.7	8.0	3.2	1.4	1.8	3.8
29	20.9		32.0	25.9	32.1	13.9	12.3	7.9	3.2	1.4	1.5	3.6
30	21.0		31.6	26.6	31.4	13.7	11.7	7.9	3.1	1.4	1.3	3.5
31	20.8		30.9		30.8		11.3	7.9		1.4		3.6

8:00 a. m. readings

ARMY, CE MEMPHIS (CLASS A)

1952
MISSISSIPPI RIVER
HELENA, ARK.

Zero of gage: 141.88 m.s.l. (141.81 m.g.l.) (bankfull 41') 659.9 R. miles A.D.P.
Lat. 34° 31' 26" - Long. 90° 35' 02"
Memphis District, CE gage.

Vertical staff gage located back of the railroad transfer incline.

Highest: 45.46 on 3 April.
Lowest: 2.40 at 4:00 p. m. on 9 November.
Period of record: 23 November 1871 to date.
Highest for period of record: 60.21 on 13 February 1937.
Lowest for period of record: -3.00 on 8-9 November 1895.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35.8	34.4	30.0	45.2	38.1	26.2	22.2	11.7	11.5	4.8	3.0	6.8
2	36.0	35.2	28.4	45.40	38.1	26.8	22.1	11.5	10.0	4.6	3.2	6.4
3	36.2	35.6	27.2	45.46	38.1	26.8	21.0	11.1	9.5	4.4	3.4	6.1
4	36.4	36.4	26.0	45.40	38.2	26.4	19.8	10.9	8.8	4.4	3.2	6.1
5	36.6	37.0	24.8	45.3	38.3	25.7	18.9	10.6	8.6	4.3	3.0	6.1
6	36.8	37.6	24.0	45.0	38.5	25.0	18.6	10.4	8.9	4.2	2.8	6.3
7	36.6	38.0	23.9	44.7	38.7	24.3	18.6	10.1	9.0	4.0	2.8	6.6
8	36.4	38.5	24.6	44.4	38.9	23.9	18.4	10.2	8.8	3.9	2.7	7.4
9	36.2	39.0	25.6	44.0	39.0	23.6	17.9	10.4	8.8	4.1	2.5	8.1
10	36.0	39.6	26.4	43.7	39.1	23.2	17.4	10.5	8.8	4.0	2.6	8.8
11	35.8	40.2	27.2	43.3	38.9	22.2	16.6	10.5	8.8	3.8	2.7	9.3
12	35.8	40.6	27.6	42.9	38.2	20.7	15.7	10.4	8.6	3.4	2.7	9.2
13	35.8	41.2	28.2	42.4	37.1	18.3	15.1	10.7	8.3	3.3	2.7	9.2
14	36.0	41.5	30.2	41.9	35.5	17.1	14.8	12.0	7.8	3.2	2.9	9.7
15	36.2	41.8	32.4	41.0	33.5	17.1	14.7	12.9	7.2	3.3	3.1	10.8
16	36.6	42.0	34.4	40.4	31.4	17.3	14.5	13.1	6.6	3.4	3.2	11.7
17	37.0	42.0	36.2	39.8	29.7	17.2	14.3	12.8	6.4	3.6	2.8	11.9
18	37.2	41.9	37.4	39.3	28.4	16.6	14.6	12.3	6.5	4.0	2.6	11.8
19	37.4	41.7	38.6	39.0	27.0	16.3	14.7	12.0	6.6	4.0	3.0	11.7
20	37.0	41.5	39.3	38.8	26.2	16.4	14.9	11.8	7.0	3.9	3.2	11.8
21	36.4	41.3	40.2	38.6	25.5	16.6	15.0	12.0	6.9	3.7	3.2	11.9
22	35.4	40.8	40.8	38.4	25.2	16.8	14.7	12.4	6.6	3.4	3.2	12.1
23	34.0	40.2	41.4	38.2	25.1	16.8	14.2	12.5	6.5	3.4	3.5	12.5
24	32.4	39.2	41.9	38.0	25.2	16.7	13.9	12.3	6.7	3.4	4.4	12.3
25	31.2	38.0	42.2	37.9	25.1	16.7	13.8	12.0	6.3	3.4	5.0	11.1
26	30.6	36.6	42.6	37.8	24.9	17.0	13.7	11.8	5.8	3.4	5.5	9.4
27	31.2	34.8	43.0	37.8	24.6	17.6	13.7	12.1	5.8	3.3	6.1	8.2
28	31.8	33.0	43.3	37.9	24.4	18.4	13.2	12.7	5.8	3.3	6.9	7.5
29	32.5	31.6	43.8	38.0	24.6	20.1	12.7	13.2	5.6	3.1	7.3	7.4
30	33.2		44.3	38.1	25.0	21.4	12.3	13.1	5.2	2.8	7.2	7.5
31	33.9		44.7		25.6		11.9	12.4		2.8		7.6

8:00 a. m. readings.

1951
MISSISSIPPI RIVER
HELENA, ARK.

ZERO OF GAGE: 141.88 M.S.L. (141.81 M.G.L.) (BANKFULL 41')
659.9 R. MILES A.H.P.
LAT. 34° 31' 26" - LONG. 90° 35' 02"
MEMPHIS DISTRICT, CE GAGE

VERTICAL STAFF GAGE LOCATED BACK OF THE RAILROAD TRANSFER INCLINE.

HIGHEST: 42.35 ON 6 MARCH
LOWEST: 10.75 AT 4:00 P.M. ON 24 OCT.
PERIOD OF RECORD: 23 NOV. 1871 TO DATE.
HIGHEST FOR PERIOD OF RECORD: 60.21 ON 13 FEB. 1937.
LOWEST FOR PERIOD OF RECORD: - 3.00 ON 8-9 NOV. 1895.

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	14.0	32.8	41.2	36.0	41.0	22.8	28.1	36.4	17.0	17.6	16.0	27.9
2	13.1	31.8	41.6	36.1	40.8	22.1	28.8	36.0	18.1	16.8	16.4	28.1
3	12.9	30.8	42.0	36.5	40.4	21.8	29.8	35.2	19.0	15.9	16.2	28.2
4	13.3	29.8	42.2	37.1	39.8	21.7	30.8	34.0	19.6	15.2	15.9	28.1
5	13.8	29.2	42.30	37.9	38.8	21.6	31.8	32.1	20.0	14.8	15.6	28.2
6	14.3	29.2	42.35	38.8	37.8	21.3	32.4	29.5	19.7	14.5	15.5	28.0
7	16.0	29.8	42.30	39.5	36.8	21.2	33.1	26.5	18.7	14.0	15.7	28.0
8	18.4	30.5	42.2	40.1	35.8	21.2	33.7	23.2	17.8	13.4	16.0	28.3
9	21.3	31.2	42.2	40.6	35.4	21.2	34.1	20.1	17.1	12.8	16.1	29.0
10	23.8	32.0	42.1	40.8	35.2	21.4	34.5	17.8	16.9	12.2	15.9	29.5
11	25.8	33.0	42.0	40.9	35.0	22.6	34.9	16.4	17.4	12.1	15.7	29.8
12	27.3	34.0	41.7	40.8	35.1	23.8	35.1	15.4	17.8	12.4	15.7	30.8
13	28.1	34.8	41.4	40.6	35.2	24.6	35.3	14.9	18.9	12.9	16.0	31.8
14	29.0	35.3	41.0	40.4	35.2	25.0	35.5	14.7	19.4	13.5	16.2	32.6
15	30.4	35.6	40.5	40.2	34.9	25.3	35.6	14.6	19.8	14.1	16.4	33.6
16	31.6	35.8	40.2	40.0	34.5	25.6	35.7	14.8	20.2	14.2	16.7	34.4
17	32.8	35.9	39.7	39.8	33.8	25.9	35.5	15.1	20.7	13.8	18.2	34.9
18	34.2	35.6	39.3	39.8	33.2	26.0	35.5	15.5	21.2	13.3	20.1	35.5
19	35.4	35.5	38.9	39.8	32.6	26.0	35.6	15.2	21.4	13.0	22.5	36.1
20	35.9	35.4	38.6	39.8	32.1	25.9	35.8	14.7	21.4	12.6	24.7	36.4
21	36.3	35.7	38.1	39.8	31.6	25.8	36.0	14.1	21.6	12.3	26.0	36.7
22	36.5	36.0	37.8	40.0	31.1	25.6	36.2	14.0	21.6	12.0	26.7	36.7
23	36.5	36.4	37.8	40.1	30.6	25.6	36.4	14.5	21.7	11.4	26.8	36.5
24	36.3	37.2	37.8	40.2	29.8	25.8	36.5	15.3	21.6	10.9	26.8	36.2
25	36.0	38.2	38.0	40.3	28.8	26.0	36.6	16.2	21.5	10.8	26.3	36.0
26	35.6	39.0	37.8	40.5	28.0	26.0	36.7	16.9	21.0	11.1	26.0	35.8
27	35.2	39.8	37.5	40.6	26.8	26.1	36.7	16.9	20.2	12.1	26.0	35.6
28	34.8	40.5	37.1	40.8	25.8	26.4	36.7	16.3	19.6	13.6	26.2	35.5
29	34.6		36.8	41.0	25.0	26.9	36.7	15.6	19.3	14.6	26.8	35.4
30	34.2		36.4	41.1	24.3	27.4	36.7	15.2	18.6	15.1	27.3	35.4
31	33.5		36.0		23.6		36.7	15.8		15.5		35.6

8:00 A.M. READINGS

1950
MISSISSIPPI RIVER
HELENA, ARK.

ZERO OF GAGE: 141.88 M.S.L. (141.81 M.G.L.) (BANKFULL 41')
659.9 R. MILES A.H.P.
LAT. 34° 31' 26" - LONG. 90° 35' 02"
GAGE IN CHARGE OF MEMPHIS DISTRICT, CE, MEMPHIS, TENN.

VERTICAL STAFF GAGE LOCATED BACK OF THE RAILROAD TRANSFER INCLINE.

HIGHEST: 50.28 ON 22-23 FEB.
LOWEST: 8.10 ON 6-7 NOV.
PERIOD OF RECORD: 23 NOV. 1871 TO DATE.
HIGHEST FOR PERIOD OF RECORD: 60.21 ON 13 FEB. 1937.
LOWEST FOR PERIOD OF RECORD: - 3.00 ON 8-9 NOV. 1895.

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	28.5	49.0	49.7	34.5	25.1	26.8	32.6	24.5	13.0	20.3	9.0	25.0
2	28.1	49.3	49.5	34.5	25.9	26.2	32.0	24.1	13.4	21.2	8.8	24.8
3	27.9	49.4	49.2	34.4	27.4	26.1	30.8	23.8	14.7	21.6	8.8	24.3
4	27.6	49.4	48.8	34.6	28.8	26.5	29.1	23.8	17.4	21.3	8.6	23.4
5	27.6	49.3	48.1	34.8	30.2	26.9	27.2	23.8	20.4	20.0	8.3	22.5
6	28.4	49.2	47.4	35.6	31.4	27.3	25.3	23.7	22.2	17.9	8.1	21.9
7	30.7	49.1	46.4	36.3	32.4	27.9	23.8	23.3	23.6	14.8	8.1	21.6
8	33.5	49.0	45.6	37.1	33.4	28.5	22.1	22.5	24.8	12.6	8.5	21.7
9	35.7	48.9	44.6	38.0	33.9	29.2	20.6	21.6	25.3	11.6	9.6	22.8
10	37.1	48.8	43.4	38.5	34.2	29.8	19.0	19.9	25.2	11.3	10.4	24.5
11	38.3	48.7	41.9	39.1	34.3	30.1	18.4	17.9	24.8	11.4	11.2	26.5
12	39.2	48.6	40.4	39.5	34.5	30.0	18.1	15.9	24.8	12.0	12.2	28.0
13	40.2	48.8	38.8	40.0	34.7	29.7	18.1	14.7	25.0	12.8	13.4	29.0
14	41.2	48.9	37.4	40.4	34.9	29.0	18.2	13.9	24.7	13.3	14.7	29.8
15	42.0	49.1	36.3	40.6	35.4	28.2	18.4	13.6	24.1	13.4	16.1	30.4
16	42.9	49.2	35.7	40.8	35.8	27.5	18.4	13.5	23.0	13.3	17.6	30.8
17	43.8	49.5	35.8	40.8	36.2	27.2	18.2	13.8	21.8	13.2	18.3	31.1
18	44.8	49.8	36.0	40.7	36.6	26.8	17.4	14.3	20.4	12.7	18.8	31.3
19	45.8	49.9	36.4	40.4	36.9	26.4	16.8	15.1	19.0	12.1	18.8	31.6
20	46.7	50.1	36.8	39.8	37.0	25.8	17.2	15.8	17.9	11.8	18.6	31.8
21	47.1	50.20	37.2	38.8	36.8	25.2	18.2	17.0	17.3	11.8	18.1	31.9
22	47.6	50.28	37.6	37.8	36.2	24.9	18.8	18.4	16.2	11.8	17.3	32.0
23	47.9	50.28	37.8	36.0	35.4	24.9	19.0	19.2	14.6	11.5	16.6	31.8
24	48.1	50.20	38.0	33.8	34.3	25.0	19.7	19.0	13.6	10.7	17.0	31.2
25	48.2	50.1	38.1	31.3	33.3	25.7	21.7	18.3	13.3	9.8	18.3	30.0
26	48.4	50.0	37.7	28.9	32.5	27.2	23.4	17.2	13.6	9.3	20.4	28.4
27	48.6	49.9	36.8	27.0	31.8	28.8	24.8	16.4	14.2	9.5	22.5	26.2
28	48.7	49.8	35.8	25.8	30.9	30.5	25.6	15.4	15.4	9.5	23.8	23.5
29	48.6		34.8	25.1	30.0	31.7	25.9	14.6	17.1	9.3	24.7	20.6
30	48.6		34.3	24.9	29.0	32.4	25.7	13.6	18.8	8.9	25.0	17.9
31	48.8		34.3		27.8		25.2	13.0		8.8		15.7

8:00 A. M. READINGS.

1949
MISSISSIPPI RIVER
HELENA, ARK.

ZERO OF GAGE: 141.88 M.S.L. (141.81 M.G.L.) (BANKFULL 41')
659.9 R. MILES A.H.P.
LAT. 34° 31' 26" - LONG. 90° 35' 02"
GAGE IN CHARGE OF MEMPHIS DISTRICT, CE, MEMPHIS, TENN.

VERTICAL STAFF GAGE LOCATED BACK OF THE RAILROAD TRANSFER INCLINE.

HIGHEST: 43.90 ON 8 FEB.
LOWEST: 6.30 ON 5 OCT.
PERIOD OF RECORD: 23 NOV. 1871 TO DATE.
HIGHEST FOR PERIOD OF RECORD: 60.21 ON 13 FEB. 1937.
LOWEST FOR PERIOD OF RECORD: -3.00 ON 8-9 NOV. 1895.

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	30.4	41.4	42.7	37.6	24.6	19.0	20.8	17.2	8.4	7.5	16.7	6.9
2	30.0	42.1	43.0	38.3	24.0	19.2	21.5	15.4	8.6	7.2	15.6	7.0
3	29.2	42.7	43.2	39.1	23.5	19.4	22.4	13.8	9.1	6.8	14.3	7.5
4	28.5	43.2	43.3	39.7	23.1	19.4	22.9	12.7	9.3	6.5	13.9	8.1
5	27.6	43.6	43.3	40.2	23.0	19.4	22.7	12.3	9.3	6.3	14.3	8.9
6	26.9	43.8	43.2	40.7	23.2	19.2	22.3	12.3	9.2	6.5	14.8	9.3
7	26.5	43.8	42.8	41.2	23.7	18.4	21.7	12.3	9.1	7.2	14.9	9.1
8	27.4	43.9	42.6	41.5	24.2	17.5	20.9	12.2	9.0	7.8	14.7	9.0
9	29.0	43.8	42.2	41.6	24.2	17.7	19.5	11.8	8.9	9.1	14.7	9.0
10	30.8	43.7	41.5	41.4	23.8	18.8	18.0	11.4	8.6	10.6	14.8	9.1
11	32.2	43.7	40.5	40.9	23.0	19.7	16.4	11.2	7.9	11.5	14.6	9.3
12	33.4	43.5	39.4	40.4	22.2	20.0	15.3	11.0	7.5	12.0	14.4	9.7
13	34.4	43.4	38.2	39.8	21.5	19.7	14.6	10.6	7.2	12.3	13.4	10.2
14	35.0	43.0	37.4	38.6	21.2	19.0	14.9	9.8	7.1	12.3	11.8	10.6
15	35.6	42.8	37.0	37.2	20.7	18.5	16.1	9.3	7.0	11.9	10.2	12.3
16	36.1	42.5	37.0	35.8	20.0	18.5	17.7	9.2	7.1	12.2	9.4	15.4
17	36.8	42.1	36.9	34.6	19.2	18.3	19.0	9.4	8.2	12.9	9.1	19.0
18	37.3	41.8	36.9	33.8	18.4	18.5	20.1	10.1	10.4	13.1	9.0	21.9
19	37.7	41.3	36.7	33.3	17.4	20.1	20.8	10.9	12.1	13.2	8.4	23.5
20	37.8	41.2	36.5	32.9	16.4	22.7	21.4	11.4	13.4	13.0	7.8	25.1
21	38.0	41.0	36.2	32.4	15.8	25.1	21.9	11.6	13.9	12.9	7.6	26.2
22	37.9	41.0	36.0	32.0	15.1	27.0	22.3	12.0	13.9	12.9	7.5	27.0
23	37.9	41.0	35.7	31.6	14.8	27.9	22.4	12.4	13.5	12.9	7.3	27.5
24	37.8	41.3	35.4	31.3	14.6	28.0	22.5	12.2	12.9	12.7	7.2	27.8
25	37.6	41.5	35.0	30.9	14.5	27.4	22.8	11.8	12.2	13.0	7.2	28.0
26	37.5	41.7	34.7	30.3	14.7	26.1	22.9	11.7	11.4	14.5	7.2	28.5
27	37.8	42.0	34.4	29.4	15.1	24.6	22.4	11.7	10.2	17.0	7.1	29.2
28	38.6	42.4	34.5	28.2	15.8	23.2	21.6	11.2	9.2	18.8	7.0	29.7
29	39.6		34.8	26.6	16.6	21.8	20.6	10.4	8.3	19.2	6.8	29.9
30	40.3		35.6	25.4	18.0	20.9	19.6	9.4	7.8	18.7	6.8	29.5
31	40.9		36.6		18.8		18.6	8.8		17.9		29.0

8:00 A.M. READINGS

1948
MISSISSIPPI RIVER
HELENA, ARK.

ZERO OF GAGE: 141.88 M.S.L.(141.81 M.G.L.) (BANKFULL 41')
659.9 R. MILES A.H.P.
LAT. 34° 31' 26" – LONG. 90° 35' 02"
GAGE IN CHARGE OF MEMPHIS DISTRICT, CE, MEMPHIS, TENN.

VERTICAL STAFF GAGE LOCATED BACK OF THE RAILROAD TRANSFER INCLINE.

HIGHEST: 45.30 AT 4:00 P.M. ON 10 APRIL.
LOWEST: 3.10 ON 6 OCTOBER.
PERIOD OF RECORD: 23 NOVEMBER 1871 TO DATE.
HIGHEST FOR PERIOD OF RECORD: 60.21 ON 13 FEBRUARY 1937.
LOWEST FOR PERIOD OF RECORD: -3.00 ON 6-9 NOVEMBER 1895.

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	6.3	7.8	39.0	40.9	42.6	17.2	22.0	24.6	6.5	5.3	3.6	18.0
2	6.4	8.0	39.1	41.6	42.5	15.8	22.6	25.0	6.4	4.9	3.6	18.8
3	7.2	7.7	39.2	42.3	42.2	14.2	22.7	24.6	6.5	4.4	3.6	20.0
4	7.6	7.1	39.2	42.9	41.9	13.2	22.5	23.8	6.6	3.6	3.4	21.4
5	10.1	6.8	39.0	43.5	40.9	12.4	21.8	22.4	6.4	3.2	3.5	22.6
6	14.1	7.1	39.0	44.0	39.3	12.0	21.5	20.3	6.2	3.1	4.1	23.6
7	16.6	7.4	39.0	44.4	36.4	11.6	21.2	18.9	5.9	3.3	5.0	24.8
8	18.0	8.1	39.2	44.8	33.3	11.4	20.8	18.3	5.8	3.8	5.8	25.6
9	18.7	8.2	39.4	45.1	29.9	11.2	19.9	17.9	5.9	3.9	7.9	26.6
10	19.2	9.2	39.6	45.2	27.3	10.9	19.1	17.3	5.8	3.7	10.5	27.0
11	19.3	10.8	39.6	45.2	25.9	10.4	18.4	16.6	5.8	3.4	12.2	26.9
12	19.4	12.4	39.6	45.0	25.3	10.2	17.6	16.2	5.9	3.4	13.0	26.0
13	19.5	14.4	39.5	44.9	25.0	10.2	16.5	15.6	6.0	3.3	13.3	25.0
14	19.3	16.5	39.1	44.7	25.2	10.7	15.6	15.1	5.9	3.2	13.6	23.5
15	18.9	18.0	38.6	44.4	25.6	11.0	14.7	14.6	5.2	3.6	13.7	21.9
16	18.4	20.5	37.8	44.0	26.1	11.0	13.7	13.8	4.9	4.2	13.4	20.4
17	17.6	23.6	36.2	43.7	26.4	10.9	12.8	12.9	5.0	4.4	12.4	19.4
18	16.6	26.9	34.2	43.4	26.6	11.0	12.2	11.8	5.1	4.1	11.6	18.3
19	15.7	29.7	31.8	43.2	27.2	11.3	11.5	10.9	5.1	3.6	11.5	18.0
20	14.7	31.9	30.7	43.1	27.8	11.9	12.0	10.6	4.6	3.3	11.7	19.2
21	14.2	33.6	30.4	43.0	28.0	12.1	12.6	10.5	4.4	3.8	11.2	21.5
22	13.9	34.8	30.8	42.9	27.7	11.9	13.1	10.2	4.0	4.3	11.4	24.2
23	13.8	35.5	32.0	42.8	27.1	11.8	13.6	9.5	3.9	4.9	13.1	26.5
24	13.7	36.2	33.2	42.7	26.1	12.3	14.3	8.9	3.9	5.1	15.2	27.8
25	12.8	36.7	34.2	42.7	25.0	13.1	15.1	8.7	4.1	4.7	16.5	28.8
26	11.2	37.2	35.4	42.8	23.8	14.0	16.1	8.6	4.6	4.4	17.0	29.5
27	9.4	38.1	36.4	42.8	22.7	15.2	17.2	8.5	4.9	4.3	17.0	29.4
28	7.7	38.6	37.5	42.9	21.4	17.0	18.4	8.3	5.1	4.2	16.7	29.3
29	7.1	38.8	38.3	42.9	20.4	19.2	19.8	8.0	5.2	4.1	16.8	29.8
30	6.8		39.0	42.8	19.4	20.9	21.3	7.6	5.2	3.8	17.1	30.3
31	7.2		39.9		18.2		23.3	6.9		3.6		30.5

8:00 A.M. READINGS.

1947
MISSISSIPPI RIVER
HELENA, ARK.

ZERO OF GAGE: 141.88 M.S.L. (141.81 M.G.L.) (BANKFULL 41')
659.9R. MILES A.H.P.
LAT. 34° 31' 26" - LONG. 90° 35' 02"
GAGE IN CHARGE OF MEMPHIS DISTRICT, CE, MEMPHIS, TENNESSEE

VERTICAL STAFF GAGE LOCATED BACK OF THE RAILROAD TRANSFER INCLINE.

HIGHEST: 40.38 ON 25-26 APRIL.
LOWEST: 3.55 ON 22-23 OCTOBER
PERIOD OF RECORD: 23 NOVEMBER 1871 TO DATE
HIGHEST FOR PERIOD OF RECORD: 60.21 ON 13 FEBRUARY 1937.
LOWEST FOR PERIOD OF RECORD: -3.00 ON 6-9 NOVEMBER 1895.

DAY.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	12.2	33.9	14.0	21.2	39.8	33.8	37.3	14.3	10.4	7.0	6.2	8.2
2	13.2	33.8	12.8	21.5	39.9	34.2	37.0	14.1	10.4	6.5	6.2	8.3
3	15.0	33.4	12.2	22.0	40.0	34.3	36.8	13.9	9.8	6.2	6.2	8.5
4	16.7	33.0	11.8	22.8	40.0	34.3	36.7	13.8	9.0	6.0	6.4	8.6
5	18.6	32.5	11.5	23.6	40.1	34.4	36.5	13.6	8.5	5.6	6.6	8.4
6	21.2	31.9	11.4	24.8	40.2	34.5	36.6	13.2	8.4	5.2	7.2	7.6
7	23.6	31.3	11.5	25.6	40.2	34.7	36.8	12.8	8.4	4.7	7.7	6.8
8	25.8	30.8	11.5	26.3	40.1	34.8	37.1	12.5	8.4	4.4	7.7	6.1
9	27.2	30.3	11.5	26.8	40.0	34.8	37.3	12.2	8.4	4.5	7.6	5.4
10	28.2	29.4	11.8	27.8	39.7	34.9	37.5	11.9	7.8	4.6	7.8	5.2
11	29.0	28.6	12.6	29.5	39.3	34.9	37.6	11.7	7.6	4.6	8.2	6.2
12	29.4	27.5	13.6	31.4	38.8	34.8	37.5	11.5	8.2	4.8	8.6	8.2
13	29.1	26.4	14.4	32.8	38.0	34.8	37.4	11.3	8.8	4.8	8.6	9.6
14	28.4	25.0	15.2	34.0	37.0	34.9	37.1	11.3	9.2	4.6	8.4	11.0
15	27.5	23.4	16.0	34.9	35.8	34.9	36.7	11.6	9.4	4.2	8.4	11.9
16	26.7	21.5	16.6	35.8	34.6	35.1	36.3	11.3	8.9	4.0	8.7	12.1
17	25.4	19.6	17.0	36.5	33.0	35.5	35.4	10.5	7.9	4.2	8.4	11.8
18	24.4	17.4	17.2	37.1	31.4	36.0	34.4	9.8	7.0	4.6	8.3	11.2
19	23.6	15.2	17.8	37.7	29.8	36.5	33.0	9.8	7.0	4.6	8.7	11.0
20	23.6	13.2	19.2	38.3	28.4	37.0	31.2	10.0	7.2	4.2	9.2	11.1
21	24.4	12.4	20.8	38.8	27.0	37.5	28.9	9.6	7.3	3.8	9.6	11.2
22	26.0	12.7	21.8	39.3	26.3	38.0	26.7	9.3	7.2	3.55	9.7	11.2
23	27.6	13.0	22.4	39.7	25.8	38.5	24.9	9.4	7.2	3.55	9.4	10.8
24	29.3	13.2	23.1	40.1	26.0	38.8	23.4	9.6	6.8	3.8	9.2	10.4
25	30.7	14.4	23.5	40.3	27.1	38.9	22.2	9.6	6.3	4.3	8.8	10.0
26	31.6	15.0	23.5	40.38	28.5	38.8	20.8	9.6	6.1	4.7	8.6	10.0
27	32.2	15.3	23.1	40.3	29.7	38.5	19.7	9.4	6.3	4.7	8.6	9.6
28	32.6	15.0	22.7	40.1	30.8	38.2	18.4	9.4	7.2	4.6	8.6	8.8
29	33.0		22.2	39.9	31.8	38.0	17.4	9.4	7.8	4.5	8.4	7.7
30	33.5		21.7	39.8	32.8	37.7	16.4	9.8	7.6	5.0	8.2	6.3
31	33.8		21.3		33.4		14.9	10.0		5.7		6.2

8:00 A.M. READINGS.

1947

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1946

Zero elevation 141.81 feet above M.G.L.
" " 141.88 " " M.S.L.
Bank full stage ..... feet on gauge AHP Miles 659.9 R

M.R.C.5M.f-9-37

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	18.75	32.05	37.45	36.20	14.75	30.00	27.80	11.20	9.85	7.20	9.00	15.65	1
2	20.40	28.20	36.70	36.40	14.85	29.05	27.50	10.80	8.95	7.20	9.00	16.15	2
3	21.40	24.80	35.50	36.50	15.05	27.95	26.95	10.40	8.50	7.30	9.10	16.35	3
4	21.55	22.15	34.20	36.60	15.75	26.80	25.80	10.40	8.00	7.50	9.20	15.65	4
5	21.55	20.25	32.80	36.50	17.30	25.80	24.70	10.50	7.35	7.60	9.60	14.50	5
6	21.60	19.20	31.35	36.15	18.55	25.25	23.25	10.20	7.10	7.40	11.85	13.80	6
7	21.75	19.20	29.95	35.65	19.35	24.95	21.85	10.00	7.20	7.00	15.75	12.95	7
8	21.85	20.15	28.55	34.85	19.85	25.35	20.80	9.90	7.00	6.80	18.50	11.95	8
9	23.05	21.90	27.45	33.85	20.55	26.10	19.90	10.45	6.60	6.70	19.80	10.85	9
10	25.45	24.15	27.10	32.55	21.45	27.05	19.25	11.30	6.00	6.55	20.20	9.85	10
11	29.80	26.25	27.55	31.15	22.20	27.75	18.85	11.90	5.50	6.30	20.20	9.00	11
12	33.25	28.10	28.75	29.55	22.45	28.00	18.75	11.60	5.20	5.90	19.50	8.65	12
13	35.60	29.85	29.85	28.15	22.45	28.10	18.55	11.10	5.40	5.20	18.60	8.50	13
14	37.10	31.25	30.75	26.95	22.45	27.55	18.55	10.70	6.45	4.70	18.00	8.50	14
15	38.15	32.25	31.25	25.65	22.75	26.70	18.35	10.10	8.10	4.60	17.90	8.95	15
16	39.35	33.34	31.70	24.05	23.25	25.45	17.90	9.70	8.80	5.05	18.40	10.75	16
17	40.35	34.60	31.90	22.70	23.65	23.75	17.50	9.40	8.70	5.40	18.80	13.00	17
18	41.25	35.75	31.80	21.30	23.75	22.00	16.90	9.10	8.40	5.50	18.40	14.80	18
19	42.00	36.65	31.45	20.10	23.65	20.40	16.30	9.65	8.40	5.30	17.70	16.30	19
20	42.70	37.15	31.10	19.20	24.00	19.20	16.00	12.70	8.65	5.75	17.00	17.50	20
21	43.30	37.65	31.00	18.65	24.75	18.45	15.50	17.10	8.50	6.55	16.90	18.10	21
22	43.70	37.85	31.20	18.45	25.80	18.25	15.00	19.80	7.80	7.65	17.50	18.20	22
23	44.00	38.25	31.55	18.35	27.15	18.80	14.50	20.55	7.40	8.65	17.45	17.90	23
24	44.20	38.60	31.90	18.25	28.75	20.10	14.50	20.65	7.20	9.30	16.85	17.15	24
25	43.95	38.70	32.30	17.95	29.40	22.05	15.05	20.30	6.80	9.85	16.05	15.80	25
26	43.65	38.65	33.25	17.45	29.80	23.85	15.90	19.30	6.80	10.60	15.75	14.20	26
27	43.20	38.45	34.15	16.85	30.10	25.40	16.05	17.75	7.10	10.85	15.25	12.65	27
28	42.30	38.10	34.70	16.25	30.40	26.75	15.60	15.90	7.20	11.00	14.70	11.90	28
29	40.90		35.25	15.35	30.70	27.50	14.75	14.35	7.30	10.95	14.30	11.85	29
30	38.55		35.75	14.85	30.70	27.80	13.60	12.75	7.30	10.30	14.70	12.00	30
31	35.55		36.00		30.50		12.15	11.15		9.45		12.10	31
Sum													
Mean													
High													
Low													

Remarks: 8:00 a.m. readings:
Highest: 44.20 on 24 Jan.
Lowest: 4.60 on 15 Oct.
Period of record: 23 Nov. 1871 to date.
Highest for period of record: 60.21 on 13 Feb. 1937.
Lowest for period of record: -3.00 on 6-9 Nov. 1895.

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1945

Zero elevation 141.81 feet above MGL
" " 141.88 " " MSL

Bank full stage ..... feet on gauge AHP Miles 659.9 R

M.R.C.5M.6-8-37

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	14.85	15.20	35.10	48.25	42.90	38.30	40.60	14.75	11.20	19.10	11.55	23.55	1
2	17.90	13.45	35.95	48.50	42.50	38.10	40.40	14.15	10.85	21.05	11.45	23.45	2
3	20.45	12.00	36.85	48.70	42.00	37.55	39.70	13.95	10.05	22.40	11.35	22.95	3
4	23.35	10.80	37.55	48.90	41.50	36.90	38.30	14.10	9.10	24.05	11.45	22.30	4
5	25.65	9.90	38.10	49.10	40.75	35.80	36.60	14.25	8.30	25.30	10.80	21.40	5
6	27.35	9.65	38.70	49.15	40.20	34.60	34.65	14.65	7.95	25.85	10.20	20.20	6
7	28.85	9.15	39.10	49.25	39.55	33.30	32.95	15.05	7.85	26.05	10.05	19.20	7
8	29.95	8.65	39.70	49.27	38.75	32.15	31.65	15.15	8.15	25.85	10.45	18.20	8
9	30.55	8.15	40.20	49.27	37.65	30.80	30.80	14.85	8.25	25.55	10.70	17.85	9
10	30.80	7.65	40.95	49.27	36.35	29.80	29.80	14.75	8.30	24.95	11.15	18.10	10
11	30.90	7.45	41.65	49.10	34.85	29.55	28.35	15.15	8.05	23.90	12.10	18.90	11
12	30.80	7.70	42.55	48.90	33.80	30.20	26.65	15.35	7.85	22.50	12.70	19.80	12
13	30.60	8.15	43.35	48.60	32.95	31.45	25.05	14.60	8.15	21.30	13.40	20.25	13
14	30.30	8.70	43.80	48.20	32.75	32.80	23.75	14.00	8.65	20.40	14.25	20.25	14
15	29.80	9.10	44.40	47.70	32.80	34.10	22.95	14.25	8.95	19.70	14.55	20.20	15
16	29.30	9.90	44.90	47.00	33.05	35.10	21.90	14.45	9.05	19.05	14.65	20.35	16
17	28.35	11.65	45.20	46.30	32.95	35.95	20.80	14.60	9.15	18.30	15.20	20.15	17
18	27.35	13.75	45.40	45.90	32.75	37.00	19.70	14.65	9.25	17.45	15.95	19.55	18
19	26.25	15.75	45.60	45.30	32.65	37.60	18.90	14.65	9.60	16.20	16.70	19.70	19
20	25.20	17.65	45.85	44.90	33.10	38.20	18.25	14.35	8.75	14.45	17.70	20.45	20
21	24.15	20.75	46.20	44.50	33.55	38.60	17.75	14.00	9.95	12.65	18.05	20.60	21
22	23.20	24.15	46.45	44.30	34.20	39.00	17.55	13.95	10.15	11.80	18.05	20.25	22
23	22.45	26.75	46.60	44.20	34.85	39.30	17.35	14.05	10.05	11.25	17.85	19.30	23
24	21.85	28.90	46.80	44.10	35.45	39.60	16.95	13.85	9.95	10.75	17.85	18.10	24
25	21.45	30.70	47.10	43.90	36.10	39.90	16.35	13.35	10.05	10.65	18.25	16.60	25
26	21.05	31.95	47.40	43.80	36.75	40.20	15.60	12.80	10.40	10.95	19.30	15.10	26
27	20.55	33.05	47.70	43.70	37.35	40.30	15.40	12.25	11.05	11.15	20.90	13.75	27
28	19.80	34.35	47.80	43.60	37.70	40.40	15.35	11.95	12.85	10.95	22.00	13.65	28
29	18.80		47.90	43.50	38.10	40.60	15.55	12.05	15.30	10.75	22.65	14.20	29
30	17.50		47.98	43.25	38.30	40.60	15.55	12.15	17.35	10.85	23.20	15.20	30
31	16.20		48.10		38.50		15.25	11.65		11.35		16.85	31
Sum													
Mean													
High													
Low													

Note: Time basis Central War Time during the interim 2:00 a.m., 9 February 1942 to 2:00 a.m., 30 September 1945. To convert War Time to Standard Time, subtract one hour.

Remarks: 8:00 a.m. readings
Highest: 49.27 on 8-10 April
Lowest: 7.85 on 7 & 12 Sept.
Period of record: 23 Nov. 1871 to date
Highest for period of record: 60.21 on 13 Feb. 1937
Lowest for period of record: -3.00 on 6-9 Nov. 1895

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1944

Zero Elevation 141.81 feet above M.G.L.
141.88 " " M.S.L.

Bank full stage ..... feet on gauge. A.H.P. Miles 659.9 R

M.R.C.3M.11-28-41.

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	3.90	4.50	24.40	36.80	44.60	26.70	24.20	12.55	9.70	6.80	7.55	7.55	1
2	5.10	4.55	25.50	37.05	45.00	27.00	24.65	12.00	10.15	7.45	6.40	7.40	2
3	5.40	4.90	27.50	37.30	45.25	27.45	24.95	11.55	11.15	7.75	5.15	7.80	3
4	5.55	5.30	29.10	37.60	45.45	28.00	25.10	11.45	12.95	8.00	4.70	8.15	4
5	5.95	5.95	30.45	37.90	45.75	28.50	24.80	11.75	14.90	9.15	4.60	8.20	5
6	6.45	6.75	31.05	38.10	45.85	29.00	24.25	11.75	16.45	10.60	4.50	8.35	6
7	7.00	7.30	31.90	38.30	45.95	29.20	23.55	11.35	16.75	11.70	4.30	8.55	7
8	8.05	7.55	32.40	38.70	45.95	29.20	22.85	10.40	16.05	12.25	4.25	8.75	8
9	9.80	8.10	33.00	38.95	45.95	28.80	22.25	9.35	15.35	12.55	4.35	8.35	9
10	10.95	9.00	33.30	39.20	45.85	28.25	21.95	8.70	14.95	12.75	4.65	7.85	10
11	11.70	8.30	33.60	39.25	45.85	27.40	21.55	8.45	14.15	13.05	4.80	7.45	11
12	11.60	7.30	33.90	39.10	45.85	26.30	21.05	8.75	13.25	13.15	5.15	7.30	12
13	11.60	7.00	34.20	38.45	45.75	25.40	20.75	8.95	11.95	12.85	5.85	8.00	13
14	11.70	7.85	34.30	37.70	45.65	24.45	20.40	9.35	10.70	12.25	6.30	9.85	14
15	11.90	9.85	34.30	37.10	45.45	23.65	19.95	9.85	10.05	11.55	6.30	11.30	15
16	11.85	11.40	34.30	36.90	45.00	22.85	19.55	9.65	9.55	10.90	6.10	11.90	16
17	10.90	12.05	34.00	37.20	44.60	22.00	19.15	9.15	8.95	10.00	5.90	12.00	17
18	8.80	12.45	33.80	37.75	43.90	21.80	18.60	8.65	8.15	9.10	5.75	11.50	18
19	6.70	12.65	33.40	38.22	43.35	21.80	17.70	8.35	7.25	8.55	5.50	10.70	19
20	5.60	12.45	32.80	39.10	42.50	21.95	16.80	7.95	6.55	8.35	5.35	10.15	20
21	5.40	12.80	32.40	39.70	41.40	22.00	16.35	7.85	5.90	7.60	5.15	9.30	21
22	5.50	13.80	32.10	40.45	39.75	22.05	15.75	8.30	5.70	6.80	5.20	8.00	22
23	5.60	15.75	32.30	41.25	37.60	22.10	15.25	8.80	5.60	6.05	5.85	6.95	23
24	5.50	17.60	33.05	41.94	35.05	22.15	14.85	8.85	5.30	5.20	6.20	6.65	24
25	5.50	19.00	33.95	42.47	32.55	22.10	14.55	8.75	4.90	4.90	6.55	7.10	25
26	5.60	20.00	34.70	42.95	30.20	21.90	14.15	8.70	4.85	5.55	6.95	8.10	26
27	5.80	21.00	35.45	43.47	28.65	22.30	13.85	9.15	5.20	6.35	7.25	9.05	27
28	5.80	21.95	36.00	43.80	27.45	22.90	13.95	9.55	5.60	6.75	7.45	9.45	28
29	5.45	23.45	36.60	44.15	26.70	23.40	13.65	9.25	6.15	7.25	7.80	10.30	29
30	5.00		36.70	44.35	26.35	23.90	13.25	8.85	6.50	7.95	7.90	11.20	30
31	4.65		36.80		26.35		13.05	9.10		8.10		12.60	31
Sum													
Mean													
High													
Low													

Remarks: 8:00 a.m. readings (Central War Time)
Highest: 45.95 on 7-9 May.
Lowest: 4.25 on 8 Nov.
Period of record: 23 Nov. 1871 to date.
Highest for period of record: 60.21 on 13 Feb. 1937.
Lowest for period of record: -3.00 on 6-9 Nov. 1895.

RIVER STAGES

MISSISSIPPI River Gauge at HELENA, ARK. for the calendar year 1943

Zero elevation 141.81 feet above M. G. L.
141.88 " " M. S. L.

Bank full stage ..... feet on gauge A. H. P. MILES 659.9 R

\1.P.C.5M.6-8-37

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	24.70	20.10	19.80	41.00	34.85	44.15	31.55	15.05	8.00	5.80	5.50	5.05	1
2	29.25	20.30	18.50	41.60	35.25	44.95	31.45	15.00	8.20	5.00	5.00	5.00	2
3	32.05	20.30	17.80	42.00	35.70	45.65	31.45	15.15	8.50	4.60	4.50	4.65	3
4	34.05	20.30	17.60	42.30	36.00	46.20	31.35	15.55	8.80	4.20	4.50	4.30	4
5	35.30	20.55	17.75	42.60	36.05	46.55	31.20	16.20	9.00	4.00	4.80	4.00	5
6	36.30	21.15	18.25	42.80	35.95	46.80	30.70	16.55	8.80	3.80	4.90	3.90	6
7	37.20	22.30	18.70	42.80	35.30	46.89	29.90	16.75	8.40	3.50	5.40	3.70	7
8	37.85	23.40	18.90	42.70	34.05	46.80	28.70	16.90	8.15	3.50	5.30	3.70	8
9	38.20	24.80	18.70	42.30	32.30	46.45	27.45	16.95	8.10	3.40	4.90	3.80	9
10	38.70	26.45	18.20	41.60	29.90	45.75	26.10	16.75	8.40	3.40	4.90	3.90	10
11	38.90	27.90	17.80	40.20	27.60	44.95	25.20	16.35	8.50	3.40	5.55	3.90	11
12	39.30	29.20	17.50	38.35	26.00	43.85	24.50	16.35	8.10	3.50	5.90	3.70	12
13	39.50	30.15	17.50	35.95	25.30	42.65	24.25	16.95	7.90	3.50	6.00	3.60	13
14	39.70	30.75	18.15	33.25	26.55	41.35	24.25	17.85	7.80	3.30	6.65	3.60	14
15	39.90	31.15	19.15	30.65	28.30	40.15	24.20	18.15	7.50	3.20	7.10	3.60	15
16	40.10	31.35	21.25	28.55	29.95	38.95	24.05	17.55	7.50	3.20	7.80	3.95	16
17	40.15	31.25	23.90	27.30	31.20	38.00	23.75	15.65	8.05	3.10	8.20	4.30	17
18	40.00	31.05	26.25	26.95	32.25	37.10	23.45	13.45	8.30	3.20	8.40	4.60	18
19	39.65	30.75	27.95	26.95	33.20	36.30	23.05	12.85	8.05	3.00	8.25	4.75	19
20	38.90	30.10	29.75	27.15	34.20	35.60	22.65	12.95	7.80	2.95	7.55	4.70	20
21	37.35	29.65	31.15	27.35	35.10	35.05	22.05	13.25	7.60	3.60	7.15	4.50	21
22	35.05	28.90	32.60	27.45	35.90	34.45	21.65	13.55	7.30	4.15	7.15	3.90	22
23	31.75	28.00	34.05	27.75	36.70	34.00	21.35	13.65	7.00	3.90	7.15	3.20	23
24	27.90	26.90	35.30	28.35	37.50	33.60	21.05	13.55	6.80	3.40	7.00	2.80	24
25	24.30	25.55	36.20	29.25	38.35	33.35	20.30	12.95	6.90	3.10	6.70	2.65	25
26	21.45	24.05	37.10	30.20	39.30	33.15	19.20	12.10	7.40	3.10	6.20	2.30	26
27	19.70	22.65	38.00	31.40	40.05	32.95	18.00	11.10	7.50	3.65	6.00	1.95	27
28	19.00	21.20	38.65	32.50	40.85	32.75	17.00	10.10	7.30	4.20	5.80	1.80	28
29	19.00		39.20	33.50	41.65	32.35	16.20	9.15	6.90	4.50	5.60	1.80	29
30	19.30		39.90	34.25	42.45	31.95	15.80	8.50	6.40	4.75	5.20	2.00	30
31	19.75		40.50		43.35		15.35	8.20		5.35		2.60	31
Sum													
Mean													
High													
Low													

Remarks: 8:00 A.M. READINGS. (CENTRAL WAR TIME)
HIGHEST: 46.89 ON 7 JUNE.
LOWEST: 1.75 AT 4:00 P.M. ON 28 DEC.
PERIOD OF RECORD: 23 NOV.1871 TO DATE.
HIGHEST FOR PERIOD OF RECORD: 60.21 ON 13 FEB.1937.
LOWEST FOR PERIOD OF RECORD: -3.00 ON 6-9 NOV.1895.

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1942

Zero elevation 141.81 feet above M.G.L.

Bank full stage ..... feet on gauge A.H.P. Miles 659.9 R

M.R.C.5M.6-8-37

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	18.10	14.85	30.05	37.85	24.20	24.15	31.50	13.85	16.00	11.95	8.00	22.70	1
2	19.35	15.15	30.05	37.35	20.90	25.05	32.05	12.85	16.40	11.85	8.10	23.25	2
3	20.10	14.95	29.90	36.65	18.00	25.80	32.45	11.75	16.60	11.90	8.60	23.50	3
4	20.55	15.05	29.30	35.60	16.10	26.10	32.85	10.95	16.50	12.10	9.10	23.15	4
5	20.75	15.50	28.25	34.40	15.00	25.85	33.15	10.85	15.65	12.45	9.85	22.60	5
6	20.85	16.10	26.75	32.95	14.45	25.00	33.15	10.85	13.60	12.80	10.95	21.95	6
7	20.85	16.20	24.95	31.35	14.45	23.75	33.05	11.15	11.80	13.20	11.75	21.50	7
8	20.45	16.10	23.15	29.80	14.75	21.50	32.75	12.15	10.65	13.70	12.20	21.10	8
9	19.70	16.00	21.90	28.70	14.90	18.90	32.25	12.75	9.95	13.80	12.40	20.90	9
10	18.60	17.00	21.00	28.05	15.30	17.30	31.50	13.55	9.75	13.30	12.70	21.00	10
11	17.35	19.50	20.40	27.90	16.05	16.50	30.60	14.75	9.80	12.80	13.15	21.60	11
12	15.85	22.35	20.55	28.95	17.20	16.55	29.75	16.00	10.00	12.60	13.65	22.30	12
13	14.55	24.75	21.35	30.75	18.55	17.15	29.05	16.85	10.25	12.70	14.00	22.80	13
14	13.15	26.75	22.45	32.75	19.55	18.05	28.45	17.30	11.10	13.00	14.20	22.90	14
15	11.75	27.85	23.40	34.45	20.10	18.85	28.05	17.65	12.35	13.10	14.40	22.35	15
16	10.40	28.35	24.10	35.75	20.10	19.80	27.55	17.90	13.45	12.70	14.75	21.70	16
17	8.55	28.45	25.60	36.80	19.70	21.00	27.05	17.95	14.05	11.85	15.00	20.70	17
18	6.50	28.25	27.40	37.45	19.40	22.05	26.55	17.95	14.25	11.10	15.20	19.60	18
19	5.00	28.05	30.10	37.95	19.55	23.05	25.80	17.85	13.95	10.40	15.40	18.30	19
20	4.70	28.00	31.50	38.10	20.50	23.90	25.30	17.70	13.30	10.30	15.10	17.00	20
21	5.55	28.45	32.80	38.22	21.80	24.70	24.90	17.30	12.40	10.40	15.15	15.70	21
22	6.50	28.85	33.90	38.05	22.85	25.25	24.40	16.40	11.75	10.65	15.15	14.70	22
23	7.20	29.55	34.90	37.75	23.50	25.60	23.30	15.05	11.80	10.80	15.15	14.10	23
24	8.10	30.15	35.70	37.35	24.15	25.95	21.20	13.55	12.15	11.05	15.15	13.80	24
25	9.00	30.35	36.50	36.75	24.75	26.60	19.10	12.95	12.35	11.10	15.35	13.80	25
26	9.70	30.15	37.05	35.80	25.15	27.55	17.70	13.75	12.55	10.90	15.95	14.00	26
27	10.75	29.90	37.55	34.45	25.30	28.55	17.00	15.00	12.75	10.60	17.10	14.20	27
28	12.25	30.05	37.95	32.55	25.05	29.50	16.50	15.45	13.00	10.35	18.60	14.85	28
29	13.25		38.15	30.10	24.70	30.20	16.10	15.55	12.65	10.00	20.30	15.75	29
30	13.55		38.22	27.30	24.20	30.85	15.65	15.55	12.25	9.45	21.80	17.00	30
31	14.05		38.10		23.90		14.90	15.75		8.55		19.80	31
Sum													
Mean		Time Basis: Standard Time prior to 2:00 a.m., Feb.9,1942; War Time thereafter.											
High		To convert War Time to Standard Time, subtract one hour.											
Low													

Remarks: 8:00 a.m. readings.
Highest: 38.20 on Mar.30 and Apr.20-21.
Lowest: 4.68 on Jan.20.
Period of record: Nov.23,1871 to date.
Highest for period of record: 60.21 on Feb.13,1937.
Lowest for period of record: -3.00 on Nov.6-9,1895.

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1941

Zero elevation 141.81 feet above M.G.L.

Bank full stage 41 feet on gauge

M.R.C.5M.6-8-37

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	12.15	15.85	8.80	13.25	26.35	5.45	15.70	7.90	3.55	10.35	20.05	14.90	1
2	11.35	16.85	8.05	13.40	25.40	5.30	13.80	7.10	4.90	10.10	20.45	14.95	2
3	10.30	18.05	7.95	13.70	24.30	5.10	12.65	6.55	5.60	9.80	20.65	14.75	3
4	10.05	19.00	7.75	14.10	23.05	4.90	12.00	6.15	5.75	9.25	21.05	14.45	4
5	10.60	19.45	7.35	14.35	21.50	5.10	11.50	6.35	5.50	8.50	22.00	13.85	5
6	11.30	19.35	6.85	14.25	20.00	5.60	11.05	6.85	5.20	7.90	23.15	13.00	6
7	12.20	19.00	6.40	14.10	18.60	6.55	11.55	6.90	5.10	7.85	24.20	12.25	7
8	13.75	18.45	6.10	14.05	17.40	7.95	12.85	6.10	4.90	8.40	24.85	11.55	8
9	15.75	17.55	5.90	14.25	16.35	9.50	14.25	5.20	5.25	9.35	25.25	10.95	9
10	17.65	16.60	5.95	15.00	15.55	11.05	15.45	4.70	6.30	11.65	25.65	10.55	10
11	18.55	15.55	6.10	16.35	14.90	12.55	16.30	4.15	7.05	15.10	26.25	10.25	11
12	18.85	14.50	6.45	18.15	14.25	13.90	16.70	3.20	7.45	17.95	26.85	9.95	12
13	18.45	13.10	7.15	19.85	13.75	14.95	16.80	2.60	7.35	19.85	27.15	9.65	13
14	17.80	11.50	7.90	21.10	13.45	16.15	16.95	2.30	7.05	20.65	27.35	9.40	14
15	16.85	10.20	8.90	21.95	13.25	18.05	17.15	2.00	7.05	21.05	27.05	9.35	15
16	15.85	9.20	10.10	22.40	12.85	20.25	17.50	1.60	7.25	21.15	26.20	9.25	16
17	14.80	8.65	10.95	22.60	12.35	22.45	17.80	1.65	8.10	21.45	24.95	8.85	17
18	13.70	8.05	11.80	22.75	11.80	24.20	18.05	2.00	9.80	21.80	23.55	8.45	18
19	12.05	7.65	12.75	22.65	11.10	25.25	18.10	2.20	11.00	22.35	21.75	8.65	19
20	10.00	8.00	13.70	22.45	10.20	25.65	17.55	2.85	11.25	22.55	20.15	9.10	20
21	8.30	8.65	14.70	22.10	9.70	25.35	16.00	3.85	11.15	22.45	18.80	9.45	21
22	7.90	8.95	15.70	21.85	9.70	24.95	13.85	4.35	10.75	22.05	17.60	9.75	22
23	8.35	9.30	16.40	22.25	10.15	24.45	12.90	4.90	10.40	21.25	16.40	9.85	23
24	9.40	10.10	16.75	23.20	10.45	24.15	12.70	5.20	10.25	20.45	15.25	9.65	24
25	10.55	10.85	16.75	24.30	10.50	23.85	12.50	4.80	10.25	19.55	14.40	9.05	25
26	11.90	11.40	16.35	25.30	9.95	23.45	12.40	4.40	10.45	18.65	13.75	8.95	26
27	12.55	11.20	15.75	26.10	8.80	22.70	12.55	4.10	10.90	18.05	13.55	9.50	27
28	13.05	10.10	15.05	26.75	7.55	21.70	12.90	3.75	11.15	18.00	13.85	10.30	28
29	13.80		14.10	26.95	6.85	20.40	12.90	3.05	11.05	18.35	14.35	11.35	29
30	14.55		13.35	26.85	6.45	18.10	11.60	2.60	10.75	18.85	14.80	13.45	30
31	15.15		13.05		5.95		9.50	2.80		19.55		15.85	31
Sum													
Mean													
High													
Low													

Remarks: 8:00 a.m. readings.

Highest: 26.98 on April 29 at 4:00 p.m., and 27.35 on Nov. 14.

Lowest: 1.53 on Aug. 16 at 4:00 p.m.

Period of record: Nov. 23, 1871 to date.

Highest for period of record: 60.21 on Feb. 13, 1937.

Lowest for period of record: -3.00 on Nov. 6-9, 1895.

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1940

Zero elevation 141.81 feet above M.G.L.

Bank full stage ..... feet on gauge

M.P.C.5M.6-8-37

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	4.40	4.70	26.50	18.30	37.95	14.55	16.25	6.70	8.60	2.65	-0.10	4.80	1
2	3.80	2.35	25.65	18.25	38.40	14.90	17.15	6.40	8.65	2.80	0.10	5.35	2
3	2.70	1.75	24.50	18.40	38.80	15.05	17.65	6.00	8.95	3.15	-0.10	6.05	3
4	2.00	3.15	23.25	18.95	39.20	15.40	17.60	5.55	9.45	3.50	-0.2	6.95	4
5	1.90	2.40	21.95	19.55	39.60	15.95	17.20	5.30	10.30	3.40	0.30	7.65	5
6	1.65	2.70	21.10	20.15	39.90	16.50	16.75	5.20	11.35	2.80	0.85	8.00	6
7	1.05	2.90	20.80	21.15	40.20	16.85	16.60	5.10	12.60	2.15	1.55	8.10	7
8	0.40	3.45	21.15	22.65	40.40	17.30	16.60	4.90	13.55	1.80	2.55	8.25	8
9	-0.35	3.25	22.40	24.30	40.51	17.70	16.75	5.05	13.70	1.30	3.55	8.40	9
10	-0.83	2.90	24.50	26.05	40.40	18.10	16.60	5.80	13.05	0.75	4.10	8.30	10
11	-0.35	3.35	26.75	27.45	39.85	18.50	16.05	6.35	12.25	0.80	4.20	7.60	11
12	0.45	3.40	28.15	28.75	38.60	18.80	15.40	6.70	11.00	0.70	3.90	6.35	12
13	1.15	3.15	29.10	29.40	36.40	18.85	14.90	6.90	9.45	0.50	3.35	5.70	13
14	1.60	3.30	29.50	29.65	33.15	18.65	14.65	6.80	8.25	0.50	2.90	5.55	14
15	1.80	4.10	29.70	29.75	29.45	18.10	14.70	6.20	7.50	0.50	3.10	5.60	15
16	1.85	6.30	29.95	29.60	25.75	17.50	14.40	5.50	6.85	0.40	3.50	6.10	16
17	1.45	8.90	30.35	29.25	22.65	17.30	13.20	5.10	6.10	0.30	3.60	7.25	17
18	1.20	11.50	30.75	29.00	20.10	17.60	11.75	5.00	5.40	0.27	3.40	7.90	18
19	1.70	14.10	30.85	28.95	17.80	18.00	11.05	4.90	5.30	0.20	3.20	8.30	19
20	2.20	16.10	30.65	28.95	15.85	18.10	11.05	5.70	5.00	0.15	3.35	8.60	20
21	3.00	18.10	30.00	29.20	14.50	17.90	11.30	7.50	4.40	0.10	3.70	8.90	21
22	3.80	20.10	28.85	29.80	13.60	17.70	11.60	9.40	3.70	0.20	3.80	9.55	22
23	4.60	22.10	27.50	31.00	12.90	17.60	11.85	10.95	3.00	0.10	3.80	10.45	23
24	4.90	23.80	26.00	32.60	12.60	17.50	11.70	12.50	2.50	0.00	3.55	10.80	24
25	4.80	25.25	24.55	34.00	12.40	17.30	11.05	13.95	2.45	0.00	3.35	10.95	25
26	4.70	26.25	23.30	35.05	12.30	17.10	10.05	14.70	2.45	0.00	3.20	11.20	26
27	4.25	26.80	22.00	35.90	12.30	16.75	9.00	14.10	2.10	-0.30	3.00	11.90	27
28	5.00	27.10	20.85	36.50	12.70	16.30	8.00	12.55	1.80	-0.49	3.25	12.40	28
29	3.10	27.00	19.65	37.05	13.30	15.95	7.30	10.80	2.00	-0.40	4.20	12.70	29
30	2.75	-	18.90	37.50	13.70	15.80	6.70	9.70	2.40	-0.20	4.55	12.70	30
31	3.95	-	18.45	-	14.00	-	6.70	9.05	-	-0.30		12.50	31
Sum													
Mean													
High													
Low													

Remarks: 8:00 A.M. Readings

Highest 40.51, May 9.
Lowest -0.87 @ 10:30 A.M., Jan. 10.
" -0.49 - Oct. 28.
Gage affected by ice floes and jams from Jan. 19 to Feb. 14, 1940.

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1939

Zero elevation 141.81 feet above M.G.L.

Bank full stage ..... feet on gauge

M.R.C.5M.5-8-37

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	7.50	16.35	47.50	46.05	47.10	15.90	26.90	13.75	9.45	1.20	0.30	1.10	1
2	8.80	17.55	47.60	44.70	47.40	15.70	26.60	13.65	8.55	1.00	1.05	1.00	2
3	10.15	20.90	47.70	43.05	47.50	15.80	26.25	13.65	7.60	0.80	1.95	0.80	3
4	11.45	24.75	47.70	41.45	47.50	16.00	26.00	13.65	6.95	0.70	2.60	0.60	4
5	12.70	28.10	47.55	40.00	47.40	16.20	25.50	13.35	6.15	0.55	2.85	0.45	5
6	13.15	30.80	47.40	39.10	47.20	16.10	24.65	12.95	5.50	0.90	3.00	0.35	6
7	12.00	32.80	47.30	38.35	46.80	16.10	23.70	12.85	5.00	1.10	3.20	0.30	7
8	10.65	34.05	47.00	37.90	46.25	16.35	22.70	12.95	4.65	0.70	2.75	0.40	8
9	10.55	35.25	46.90	37.70	45.20	16.80	21.90	13.25	4.40	0.20	1.95	0.60	9
10	11.80	36.60	46.70	37.60	43.40	17.25	21.25	13.00	4.10	-0.10	1.40	0.70	10
11	13.00	37.40	46.70	38.20	40.85	17.40	20.80	11.85	3.60	-0.30	1.05	0.75	11
12	13.80	38.10	46.70	38.60	37.60	17.55	20.50	10.70	3.10	-0.40	0.95	0.75	12
13	14.55	38.70	46.60	39.10	33.70	17.70	20.20	9.95	2.80	-0.40	0.85	1.05	13
14	15.00	39.35	46.60	39.50	29.75	17.70	20.15	9.70	2.70	-0.42	0.70	1.70	14
15	15.10	40.20	46.60	39.70	27.20	17.85	20.60	9.90	2.55	-0.30	0.55	2.00	15
16	15.05	40.85	46.50	39.95	25.50	18.10	21.10	9.95	2.40	0.00	0.40	2.00	16
17	15.15	41.60	46.55	40.40	23.90	18.45	21.30	10.15	2.30	0.30	0.30	1.90	17
18	15.80	42.30	46.65	40.60	22.35	18.60	21.00	11.35	2.10	0.45	0.35	1.80	18
19	17.25	42.95	46.75	40.90	21.05	18.70	19.85	12.35	2.10	0.20	0.75	1.90	19
20	18.95	43.70	47.00	41.30	20.05	18.90	17.50	12.70	1.95	-0.10	0.90	2.05	20
21	19.95	44.40	47.30	41.65	19.15	18.80	14.80	12.25	1.95	-0.30	0.80	2.20	21
22	20.50	44.90	47.60	42.05	18.40	18.40	13.10	11.25	2.30	-0.38	0.80	2.30	22
23	20.70	45.40	47.80	42.50	18.10	19.10	12.35	11.25	2.60	-0.45	0.90	2.40	23
24	20.80	45.80	48.05	43.00	17.70	20.70	12.00	12.70	2.50	-0.48	0.95	2.50	24
25	20.50	46.20	48.20	43.50	17.35	22.50	12.00	13.70	2.30	-0.55	1.00	2.60	25
26	19.75	46.60	48.20	44.10	17.30	24.00	12.15	13.60	2.20	-0.60	1.00	2.60	26
27	18.65	46.90	48.20	44.90	17.00	25.20	12.45	12.70	1.90	-0.63	1.00	3.05	27
28	17.55	47.20	48.05	45.60	16.70	26.05	12.85	11.30	1.60	-0.70	1.05	3.85	28
29	16.55		47.90	46.25	16.35	26.70	13.20	10.35	1.40	-0.72	1.10	4.10	29
30	16.25		47.60	46.75	16.20	27.00	13.40	10.05	1.40	-0.70	1.15	4.23	30
31	16.25		47.00		16.10		13.60	9.90		-0.30		4.40	31
Sum													
Mean													
High													
Low													

Remarks: 8:00 A.M. Readings.

Inspected June 19 & Sept. 25, 1939.

Highest reading, 48.20 on Mar. 25, 26 & 27, 1939.

Lowest reading, -0.72 on Oct. 29, 1939.

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1938

Zero elevation 141.81 feet above M.G.L.

Bank full stage ..... feet on gauge

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	25.40	26.45	34.90	39.00	39.10	34.60	25.45	24.45	11.90	16.10	4.20	15.55	1
2	25.80	27.80	34.55	39.40	37.70	35.90	25.70	24.30	11.50	16.40	4.15	14.45	2
3	25.95	28.90	34.20	39.60	36.00	36.80	25.75	24.60	11.05	16.55	4.30	12.60	3
4	25.60	29.70	33.80	40.00	33.80	37.40	25.50	25.10	10.70	16.50	4.70	10.70	4
5	24.80	30.10	33.25	40.50	31.50	37.80	25.20	25.70	10.50	16.50	4.70	9.55	5
6	23.95	30.40	32.90	41.00	29.10	38.00	24.80	25.90	10.60	16.60	4.20	8.95	6
7	22.75	30.80	32.25	41.50	26.90	38.05	24.60	25.80	10.70	16.50	3.80	8.00	7
8	21.65	30.85	31.45	42.00	25.05	37.90	24.45	25.75	10.40	16.30	3.70	8.40	8
9	20.60	30.60	30.65	42.40	23.35	37.50	24.40	25.80	9.85	15.90	3.75	8.40	9
10	19.85	29.85	30.25	42.55	21.55	36.85	24.30	25.95	8.95	15.30	3.70	8.85	10
11	19.00	28.65	30.00	42.55	19.90	35.80	24.20	26.15	8.40	14.60	4.25	9.60	11
12	18.40	27.05	30.20	42.20	18.95	34.40	24.10	26.30	7.90	13.75	5.05	10.00	12
13	17.70	25.40	30.65	42.00	18.60	32.65	24.25	26.45	7.40	12.95	5.80	10.20	13
14	17.10	23.80	31.40	41.85	19.15	30.95	24.40	26.45	7.15	12.05	6.75	10.30	14
15	16.50	22.50	32.40	41.90	19.70	29.85	24.30	26.30	7.85	11.05	7.50	10.10	15
16	15.90	21.90	33.45	42.05	19.80	29.60	24.10	25.90	9.40	9.75	7.95	9.95	16
17	15.00	22.00	34.55	42.35	19.40	29.95	23.85	25.05	10.75	8.50	8.20	9.90	17
18	13.65	23.00	35.55	42.70	19.20	30.25	23.70	23.95	11.60	7.60	8.85	9.90	18
19	11.55	24.95	36.50	42.85	18.90	30.35	23.70	22.75	12.40	7.00	9.50	9.75	19
20	9.70	26.80	37.25	43.10	18.90	30.05	23.85	21.35	13.35	6.65	9.40	9.50	20
21	9.10	28.65	37.80	43.40	19.10	29.30	24.00	20.05	14.10	6.40	9.30	9.20	21
22	9.85	30.60	38.20	43.50	19.30	28.55	24.45	19.00	14.75	6.20	9.80	8.60	22
23	10.95	32.15	38.55	43.55	19.25	27.90	25.20	17.75	15.30	5.90	10.80	8.20	23
24	11.50	33.30	38.70	43.50	19.60	27.50	26.15	16.10	15.70	5.70	12.05	7.50	24
25	12.40	34.20	38.70	43.30	20.35	27.20	26.70	14.55	15.60	5.50	13.75	6.90	25
26	14.20	34.80	38.50	42.90	21.35	26.80	26.80	13.80	15.60	5.50	15.10	6.40	26
27	16.70	35.10	38.50	42.40	22.95	26.40	26.15	13.40	15.90	5.40	15.85	5.75	27
28	19.30	35.10	38.40	41.90	25.30	25.90	25.30	13.15	15.80	5.05	16.20	5.10	28
29	21.50	—	38.45	41.10	28.20	25.50	24.70	12.95	15.75	4.80	16.30	5.20	29
30	23.30	—	38.70	40.30	30.95	25.30	24.60	12.60	15.80	4.70	16.10	5.75	30
31	24.95	—	38.90	—	33.10	—	24.65	12.20	—	4.45	—	6.45	31
Sum	—												
Mean													
High													
Low													

Remarks: 8:00 A.M. Readings.

Gage inspected: May 27, Aug. 18, and Oct. 24, 1938

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1937

Zero elevation 141.81 feet above M.G.L.

Bank full stage ..... feet on gauge

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	12.50	56.50	50.80	26.60	29.85	24.55	21.80	12.80	10.20	2.60	11.30	4.90	1
2	13.50	57.15	49.70	26.80	30.30	23.75	22.00	12.25	10.70	2.50	11.35	4.50	2
3	15.00	57.60	48.50	26.85	30.95	22.95	22.70	12.05	10.95	2.60	11.35	4.65	3
4	16.80	58.00	47.10	26.75	32.15	22.15	23.50	11.65	11.10	2.75	11.45	5.35	4
5	18.80	58.35	45.55	26.45	33.80	21.55	24.25	11.05	11.20	2.40	11.60	6.15	5
6	21.15	58.70	43.95	25.90	35.45	21.20	24.70	10.50	10.95	2.40	11.80	6.85	6
7	24.15	59.15	42.15	25.00	37.05	21.05	24.50	10.10	9.65	2.70	12.55	7.15	7
8	27.20	59.45	40.30	24.10	38.25	21.05	24.05	9.75	7.80	3.20	13.85	6.90	8
9	29.60	59.85	38.10	23.40	39.20	21.35	23.20	9.50	7.40	4.10	15.50	6.45	9
10	31.70	60.10	35.80	22.70	40.20	21.85	21.65	9.40	8.25	4.80	16.65	5.95	10
11	33.55	60.20	33.40	22.00	41.20	22.60	19.60	9.45	8.75	5.00	17.25	5.50	11
12	35.00	60.15	31.65	21.30	42.10	22.90	18.00	9.45	9.00	5.30	17.00	4.90	12
13	36.05	60.20	30.65	20.70	43.05	22.50	17.30	10.15	9.00	5.75	16.20	4.10	13
14	37.20	60.15	30.30	20.40	43.90	22.00	16.70	10.80	9.20	6.15	14.60	3.70	14
15	38.00	60.00	30.40	20.40	44.50	22.50	15.90	10.80	9.30	6.05	11.85	3.80	15
16	38.60	59.85	30.60	20.65	45.00	23.60	15.20	10.60	9.25	5.30	8.50	3.05	16
17	39.40	59.55	30.70	21.00	45.20	24.50	14.60	10.45	9.20	4.60	6.60	1.85	17
18	40.20	59.10	30.60	21.30	45.20	25.00	14.70	10.30	9.00	4.05	6.15	1.05	18
19	41.10	58.60	30.50	21.60	44.80	24.90	14.80	10.30	7.90	3.85	6.15	1.50	19
20	42.10	58.10	30.20	21.85	44.05	24.65	15.15	10.40	6.40	4.10	6.40	3.15	20
21	43.15	57.45	29.70	22.05	43.25	24.40	15.70	10.45	5.60	4.45	6.70	5.70	21
22	44.55	56.90	29.20	22.20	42.10	24.20	16.70	10.40	5.00	5.15	6.85	9.00	22
23	46.05	56.20	28.70	22.20	40.70	24.10	17.50	9.65	4.80	6.10	6.75	11.55	23
24	48.00	55.45	28.55	22.30	38.80	24.25	18.00	8.60	4.85	6.90	6.45	13.90	24
25	49.75	54.70	28.50	23.05	36.60	24.30	18.10	8.25	4.90	7.90	6.20	16.00	25
26	51.35	53.80	28.50	24.10	34.00	24.25	18.00	8.10	4.25	8.60	6.35	18.10	26
27	52.85	52.90	28.45	25.40	31.50	24.00	17.50	8.10	3.40	9.20	6.35	19.90	27
28	53.90	51.90	28.10	26.70	29.30	23.40	17.10	8.00	2.75	9.90	6.00	21.65	28
29	54.65		27.60	28.10	27.45	22.85	16.60	8.05	2.70	10.80	5.50	23.05	29
30	55.20		27.10	29.10	26.15	22.20	15.70	8.80	2.65	11.20	5.20	24.00	30
31	55.80		26.75		25.30		14.10	9.75		11.30		24.70	31
Sum													
Mean													
High													
Low													

Remarks: 8:00 A.M. Readings corrected

Inspected: April 23, Aug. 13, Oct. 7, 1937.

Highest - 60.21, Feb. 13.
Lowest - 1.09, Dec. 18.

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1936

Zero elevation 141.81 feet above M.G.L.

Bank full stage ..... feet on gauge

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	14.90	21.05	27.20	39.25	43.40	14.30	7.20	3.65	1.15	5.60	6.00	6.10	1
2	13.20	20.60	28.50	39.90	40.00	13.95	7.05	3.55	1.15	5.40	6.00	5.80	2
3	11.40	19.70	29.35	40.50	36.20	13.30	7.40	4.00	1.35	5.35	6.50	5.70	3
4	9.70	18.35	30.40	41.20	32.30	12.75	7.70	4.15	2.45	6.00	7.20	5.70	4
5	8.25	16.70	31.70	41.90	28.90	12.50	7.75	3.40	3.20	8.15	7.75	5.35	5
6	7.30	14.90	32.60	42.70	26.30	12.30	7.80	2.50	3.60	10.30	8.30	4.95	6
7	6.90	13.60	33.10	43.65	24.40	12.30	7.50	2.05	3.60	11.20	10.10	4.80	7
8	7.40	12.30	33.45	44.45	23.00	12.40	6.90	2.20	3.55	11.00	12.70	5.20	8
9	8.80	11.90	33.65	45.35	22.25	12.20	7.10	2.05	3.65	10.45	15.95	5.45	9
10	10.90	12.80	33.85	46.20	22.10	12.10	8.25	1.80	3.25	9.70	18.90	6.00	10
11	13.50	14.20	34.00	47.00	22.35	12.05	9.85	2.10	2.90	8.95	20.60	6.90	11
12	17.20	15.85	34.25	47.90	22.60	11.80	11.00	2.10	2.80	8.60	21.65	8.50	12
13	21.75	16.90	34.40	48.20	22.60	11.30	11.35	1.80	3.20	8.60	22.05	11.00	13
14	25.45	18.00	34.50	48.70	22.20	10.70	10.60	1.80	3.45	8.65	22.20	12.70	14
15	27.90	19.20	34.50	49.05	21.50	10.35	9.40	2.30	3.05	9.00	22.15	14.00	15
16	29.55	20.15	34.40	49.35	20.65	10.40	8.25	2.20	2.45	9.25	22.05	15.20	16
17	30.65	21.20	34.10	49.65	19.65	10.80	7.55	1.50	2.00	9.35	21.85	15.60	17
18	31.45	22.00	33.35	49.90	18.55	10.60	6.90	1.05	1.80	9.45	21.50	16.00	18
19	32.10	21.90	32.50	50.10	17.50	10.30	6.15	0.90	1.65	9.35	21.00	16.15	19
20	32.40	21.35	31.70	50.25	16.80	10.15	5.30	1.15	1.70	9.10	20.20	15.80	20
21	32.40	20.50	31.20	50.40	16.80	9.90	5.10	1.45	2.25	9.25	19.00	15.30	21
22	32.05	19.50	31.20	50.60	16.90	9.60	5.30	1.30	2.50	9.60	17.20	14.40	22
23	31.30	18.60	31.70	50.65	16.85	9.15	5.40	0.95	2.50	10.15	14.60	13.40	23
24	29.95	18.10	32.70	50.65	16.65	8.80	5.35	0.40	2.75	10.45	11.80	12.35	24
25	28.30	18.00	33.70	50.50	16.40	8.50	5.65	-0.05	3.35	10.50	9.90	11.60	25
26	26.50	18.50	34.70	50.25	16.10	8.65	5.80	-0.20	4.05	10.35	8.90	10.60	26
27	24.85	19.30	35.80	49.90	15.90	8.70	5.50	-0.15	4.70	9.85	8.20	9.50	27
28	23.50	21.40	36.55	49.20	15.80	8.40	5.00	-0.10	5.40	9.10	7.65	9.20	28
29	22.55	24.80	37.20	48.00	15.55	8.00	4.75	0.15	5.80	8.20	7.20	10.20	29
30	21.85	—	37.95	46.20	15.30	7.60	4.80	0.25	5.85	7.50	6.70	11.10	30
31	21.40	—	38.60	—	14.80	—	4.40	0.60		6.70		11.85	31
Sum													
Mean													
High													
Low													

Remarks: 8:00 A.M. Readings Corrected

RIVER STAGES

Mississippi River Gauge at Helena for the calendar year 1935

Zero elevation 141.81 feet above Mean Gulf Level

Bank full stage ..... feet on gauge

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	12.65	37.90	25.40	48.90	39.10	44.65	41.30	22.60	13.25	5.70	5.30	11.60	1
2	13.40	37.95	24.94	48.80	36.60	44.80	41.60	23.00	12.50	5.35	5.60	10.85	2
3	13.90	37.85	24.40	48.60	33.95	45.00	41.80	22.70	12.20	5.10	5.70	10.65	3
4	14.35	37.60	24.60	48.35	31.30	44.95	41.80	22.40	11.95	4.90	5.70	10.95	4
5	15.00	37.10	25.40	48.15	28.90	44.80	41.70	22.10	11.40	4.75	6.05	11.55	5
6	15.70	36.10	26.30	48.10	27.20	44.40	41.40	21.80	10.30	4.70	6.20	12.00	6
7	16.30	34.65	26.90	48.10	26.70	43.80	40.90	21.45	9.55	4.70	6.10	12.30	7
8	17.00	32.75	27.35	48.05	27.65	43.15	40.20	20.95	9.75	4.45	5.60	12.65	8
9	17.40	30.30	27.60	48.00	29.60	42.70	39.25	20.10	10.60	4.10	5.60	12.80	9
10	17.25	27.60	27.70	48.00	31.85	42.10	38.10	18.95	11.65	3.90	6.00	12.45	10
11	16.85	24.80	28.20	48.10	33.75	41.65	37.35	17.85	12.40	4.30	6.40	12.00	11
12	16.45	22.50	29.00	48.10	35.05	41.40	36.35	17.30	13.80	4.35	7.50	11.75	12
13	16.00	20.85	30.35	48.20	36.10	41.30	35.30	16.90	15.55	4.10	9.50	11.80	13
14	15.30	19.80	32.60	48.20	36.90	41.30	34.20	16.65	17.25	3.75	11.30	12.10	14
15	14.70	19.30	35.15	48.30	37.50	41.50	33.20	16.80	18.25	3.70	12.90	12.50	15
16	15.05	19.40	37.00	48.30	38.10	41.65	32.10	17.50	18.45	3.65	14.15	13.30	16
17	16.15	19.85	38.25	48.30	38.65	41.80	31.00	18.40	18.00	3.45	15.50	14.15	17
18	17.15	20.50	39.40	48.30	39.00	42.00	29.70	19.70	16.85	3.40	17.05	14.90	18
19	18.10	21.30	40.45	48.30	39.60	42.10	28.30	20.85	15.45	3.45	18.10	15.75	19
20	20.10	22.30	41.45	48.30	40.20	42.05	26.30	21.75	13.15	3.50	18.75	16.40	20
21	23.10	23.30	42.40	48.30	40.70	41.90	23.60	22.30	10.85	3.45	19.40	17.00	21
22	26.90	24.50	43.40	48.20	41.15	41.60	21.40	22.50	9.25	3.10	19.95	17.50	22
23	29.70	25.55	44.40	48.00	41.60	41.20	19.70	22.40	8.40	3.90	20.30	18.10	23
24	31.85	26.30	45.35	47.75	41.95	40.80	18.80	22.25	7.65	5.20	20.35	18.80	24
25	33.90	26.80	46.20	47.35	42.40	40.50	18.10	22.10	7.10	5.20	20.10	19.30	25
26	35.15	26.90	46.95	46.80	42.70	40.45	18.10	21.90	6.70	5.20	19.40	19.50	26
27	36.05	26.50	47.55	46.05	43.00	40.45	18.55	21.60	6.80	5.00	18.60	19.30	27
28	36.70	26.00	48.15	44.85	43.45	40.55	19.00	20.90	6.80	5.00	17.25	18.85	28
29	37.20	—	48.45	43.35	43.80	40.70	19.30	19.60	6.55	5.20	15.20	18.20	29
30	37.55	—	48.70	41.55	44.20	41.00	20.15	17.70	6.20	5.20	13.10	17.40	30
31	37.80	—	48.85	—	44.45	—	21.50	15.35	—	5.10		16.30	31
Sum													
Mean													
High													
Low													

Remarks: 8 A.M. Readings. Corrected to Correspond with New Benchmark Elevations as of letter from Pres. M.R.C. dated Oct. 10, 1935. See inspections ~~Gage inspected Jan. 7, 1935, May 16, 1935, Sept. 23, 1935.~~ dated Jan. 7, May 16, and Sept. 23, 1935

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1934

Zero elevation 141.81 feet above Mean Gulf Level.

Bank full stage ..... feet on gauge

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	20.9	7.5	5.0	32.0	21.8	6.8	8.3	4.0	7.5	4.6	4.0	15.5	1
2	19.7	7.6	7.5	33.2	21.6	6.6	7.3	3.6	7.1	4.3	4.5	16.8	2
3	18.4	7.8	10.8	34.2	21.1	6.4	6.9	3.9	6.8	4.8	4.8	17.6	3
4	17.2	8.0	12.9	35.0	20.1	6.3	7.0	4.4	6.5	5.8	5.2	17.9	4
5	15.9	8.0	14.3	35.7	19.1	6.1	6.8	5.1	6.2	6.8	5.5	17.9	5
6	15.0	8.2	16.0	36.3	17.9	5.4	6.8	6.3	5.4	7.8	5.4	17.8	6
7	14.3	8.4	18.3	36.7	16.5	5.0	6.5	7.0	4.6	9.4	5.3	18.3	7
8	13.8	8.1	21.1	36.9	14.7	4.7	6.0	6.6	4.1	10.9	5.7	19.2	8
9	13.2	7.6	23.7	36.9	13.3	4.2	5.7	6.1	3.8	11.6	6.2	20.0	9
10	12.7	7.2	26.1	36.4	12.6	4.6	5.7	5.9	3.2	11.3	7.0	20.4	10
11	12.5	7.0	28.2	35.4	12.1	5.5	5.8	5.9	2.8	10.4	7.6	20.5	11
12	13.3	6.9	30.0	33.6	11.6	5.9	5.7	5.5	2.8	9.1	8.1	20.8	12
13	15.7	7.0	31.4	31.3	10.8	6.3	5.9	4.9	2.8	7.7	9.0	21.1	13
14	18.6	7.0	32.9	29.0	10.2	7.1	5.7	3.9	2.8	7.0	9.4	20.9	14
15	21.1	6.8	33.9	26.7	9.7	8.1	5.1	3.6	3.0	6.6	9.5	19.8	15
16	23.3	6.8	34.9	25.0	9.5	8.5	4.8	4.6	3.8	6.3	9.3	18.0	16
17	24.8	6.7	35.6	23.7	9.3	8.7	5.1	5.4	4.6	6.1	8.8	15.8	17
18	25.2	6.3	36.2	27.8	9.2	8.9	5.9	6.2	4.9	6.2	7.9	13.9	18
19	25.1	5.6	36.7	22.4	9.2	9.0	6.8	7.0	4.9	6.5	7.2	12.4	19
20	24.3	5.1	37.0	22.2	9.4	8.9	7.5	7.6	5.5	6.6	6.6	11.3	20
21	22.9	4.5	37.0	22.2	9.6	8.8	7.8	7.8	6.8	6.3	6.3	10.6	21
22	21.4	4.0	36.4	22.1	9.5	9.5	7.9	7.8	7.9	5.9	7.5	10.0	22
23	19.7	3.7	35.0	21.9	9.3	10.9	7.6	7.7	8.6	5.6	8.3	9.9	23
24	18.0	3.6	32.8	21.7	9.2	11.7	7.2	8.4	8.8	5.0	8.4	10.0	24
25	16.3	3.7	30.1	21.5	9.2	11.6	6.8	9.6	8.7	4.5	9.3	10.2	25
26	14.1	3.8	27.8	21.4	9.3	11.1	6.6	10.6	8.3	4.2	11.3	10.2	26
27	11.8	3.9	26.7	21.4	9.3	10.4	6.9	11.4	7.6	3.7	12.3	10.0	27
28	9.2	4.1	26.3	21.4	9.0	10.0	7.2	[illegible]	6.5	3.2	13.0	10.1	28
29	8.0		27.0	21.6	8.3	9.9	6.8	[illegible]	5.6	3.2	13.5	10.6	29
30	7.9		28.6	21.8	7.5	9.3	5.9	[illegible]	5.0	3.4	14.2	11.5	30
31	7.7		30.4		7.0		5.0	[illegible]		3.6		12.2	31
Sum													
Mean													
High													
Low													

Remarks: 8:00 A.M. Readings corrected

Readings are from .1 to .3 high due to no correction being made for level tie of this year.

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1933

Zero elevation 141.81 feet above Mean Gulf level.

Bank full stage ..... feet on gauge

U. S. GOVERNMENT PRINTING OFFICE: 1934 — 15824

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	26.90	38.00	37.70	42.20	45.60	50.55	13.6	14.1	6.2	8.0	4.5	4.7	1
2	29.40	38.50	38.40	43.20	45.40	50.60	13.6	14.6	6.7	8.8	4.2	4.8	2
3	31.80	38.90	38.80	44.20	45.00	50.65	13.3	14.5	6.9	9.0	4.0	4.85	3
4	33.60	39.20	39.20	45.20	44.50	50.40	12.7	14.3	6.6	8.85	3.9	4.4	4
5	35.00	39.50	39.60	46.00	44.10	50.20	12.5	14.2	6.6	8.5	3.8	3.9	5
6	36.00	39.60	39.80	46.90	43.20	49.80	13.2	14.1	6.9	7.95	3.4	3.8	6
7	36.70	39.70	39.90	47.70	42.00	49.30	14.6	13.9	7.7	7.6	3.5	4.3	7
8	37.50	39.70	39.60	48.40	40.60	48.50	16.2	13.5	8.5	7.6	3.6	4.4	8
9	38.10	39.50	38.70	49.10	39.00	47.40	17.1	13.1	9.7	7.9	3.7	4.2	9
10	38.70	39.00	37.00	49.60	37.90	45.90	17.3	12.8	11.0	7.9	4.4	4.5	10
11	39.10	38.30	34.60	50.10	37.10	44.00	16.3	12.5	11.6	7.3	5.9	5.1	11
12	39.50	37.20	32.00	50.40	36.80	41.80	15.3	12.5	11.7	6.6	6.6	6.5	12
13	39.80	35.90	29.70	50.50	36.80	39.30	14.8	12.5	11.3	6.1	6.2	7.7	13
14	39.90	34.60	28.10	50.40	37.00	36.00	14.5	11.8	10.6	5.6	5.3	8.3	14
15	39.80	33.40	27.20	50.30	38.00	32.60	14.0	11.0	9.7	5.1	4.6	8.4	15
16	39.70	32.00	26.40	50.10	38.80	29.30	13.5	10.4	8.75	5.0	4.1	8.3	16
17	39.10	30.80	25.70	49.70	39.60	26.30	13.2	10.4	8.1	4.7	3.8	8.2	17
18	38.20	29.90	25.10	49.30	40.40	23.8	12.8	10.7	7.7	4.4	3.55	8.4	18
19	36.80	29.60	24.90	48.80	41.30	22.0	12.2	11.3	7.7	4.1	3.2	9.1	19
20	35.10	30.20	25.20	48.40	42.10	20.9	11.9	12.0	7.9	4.1	3.0	9.8	20
21	33.00	31.10	26.10	48.00	43.10	20.0	11.8	12.1	8.25	4.0	3.4	12.3	21
22	31.00	32.10	28.00	47.60	44.10	18.9	11.9	11.4	8.2	4.1	3.5	14.7	22
23	29.30	33.20	30.20	47.30	45.20	17.6	11.6	10.0	7.7	3.6	3.3	16.1	23
24	28.20	34.20	32.50	47.00	46.30	16.7	10.8	9.0	7.3	3.1	3.2	17.6	24
25	28.40	35.00	34.50	46.70	47.30	16.1	10.3	8.3	7.0	2.6	2.9	19.3	25
26	30.00	35.80	35.90	46.50	48.20	15.7	10.0	7.7	6.9	3.0	2.9	20.4	26
27	32.20	36.40	37.10	46.40	48.90	15.1	10.2	7.0	6.8	4.2	3.4	21.5	27
28	34.10	37.10	38.20	46.20	49.40	14.7	10.5	6.7	6.9	5.2	3.8	22.0	28
29	35.50		39.10	46.00	49.80	14.3	11.2	6.5	7.5	5.7	4.0	22.05	29
30	36.50		40.00	45.90	50.15	14.0	12.1	6.1	7.55	5.7	4.2	21.9	30
31	37.30		41.20		50.40		13.1	5.8		5.1		21.5	31
Sum													
Mean													
High													
Low													

Remarks: 8:00 a.m readings Corrected

RIVER STAGES

Mississippi River Gauge at Helena, Ark. for the calendar year 1932

Zero elevation 141.81 feet above Mean Gulf Level

Bank full stage ..... feet on gauge

U. S. GOVERNMENT PRINTING OFFICE: 1928 J5824

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	35.7	44.0	45.7	30.6	26.50	14.20	18.0	10.30	10.90	5.0	7.70	14.70	1
2	35.3	44.3	44.5	31.9	27.30	13.30	19.40	9.70	9.90	5.90	8.20	15.00	2
3	34.8	44.6	43.1	33.0	28.30	13.0	20.40	9.10	9.10	6.90	8.30	15.3	3
4	34.3	44.8	41.4	34.1	29.30	12.80	21.40	9.0	8.50	7.80	8.50	15.20	4
5	33.8	45.0	39.2	35.2	30.50	12.30	22.50	9.10	8.0	7.70	9.20	14.20	5
6	33.4	45.3	36.7	36.2	31.50	12.30	23.60	9.40	8.10	6.90	10.0	12.60	6
7	32.9	45.5	33.9	37.1	32.20	12.70	24.70	10.40	9.20	6.30	10.50	11.30	7
8	33.0	46.0	30.8	37.9	32.50	13.30	25.70	11.70	9.80	6.30	10.60	10.50	8
9	33.2	46.3	28.6	38.7	32.30	13.90	26.20	12.50	9.30	6.60	10.30	9.40	9
10	33.5	46.6	27.2	39.4	31.60	14.40	26.40	13.00	8.60	6.60	9.70	8.50	10
11	34.0	46.8	26.4	40.0	30.50	14.80	27.0	12.20	8.40	6.30	9.40	8.30	11
12	35.0	47.1	25.9	40.4	29.20	15.10	28.20	10.80	8.10	6.20	9.20	8.50	12
13	36.0	47.4	25.6	40.7	27.90	15.70	30.0	10.20	7.50	5.60	8.90	8.90	13
14	36.8	47.6	25.6	41.0	26.70	16.00	31.50	10.0	7.10	5.10	8.70	9.60	14
15	37.3	47.9	25.6	41.0	25.60	16.20	32.70	10.0	6.40	5.0	8.60	10.40	15
16	38.1	48.2	25.4	40.9	24.70	16.0	33.30	10.50	5.80	4.95	9.0	11.60	16
17	38.7	48.5	25.1	40.5	24.0	15.30	33.50	11.20	5.40	4.30	9.40	13.30	17
18	39.3	48.7	24.4	40.0	23.40	14.60	33.10	11.90	4.90	4.20	9.70	14.60	18
19	39.9	48.9	23.4	39.2	22.90	14.20	32.10	12.50	4.50	4.0	10.10	15.60	19
20	40.3	49.0	22.4	38.2	21.90	14.40	30.60	13.10	4.40	3.70	10.90	16.20	20
21	41.0	49.1	21.6	36.8	21.40	14.60	28.50	14.10	4.30	4.50	11.50	16.60	21
22	41.5	49.2	21.0	35.3	21.20	15.00	25.80	15.0	4.20	7.50	11.80	16.90	22
23	42.0	49.1	20.6	33.7	21.60	15.30	22.10	15.80	4.20	10.80	11.70	17.00	23
24	42.4	49.0	20.6	31.8	22.30	15.60	18.70	16.30	5.20	12.40	11.75	17.00	24
25	42.8	48.7	21.0	30.3	22.70	15.80	15.90	16.40	5.90	12.80	12.10	16.80	25
26	43.1	48.4	21.8	29.0	22.80	16.0	14.40	16.10	5.40	12.60	12.50	16.80	26
27	43.3	47.9	22.9	27.8	22.50	16.20	13.20		4.90	12.0	12.80	17.30	27
28	43.4	47.3	24.7	27.0	21.90	16.30	12.20	15.60	4.70	10.90	13.40	18.50	28
29	43.6	46.6	26.4	26.3	20.90	16.70	11.30	14.60	4.70	9.70	14.00	19.60	29
30	43.8	~~45.7~~	27.8	26.1	19.30	17.10	10.90	13.50	4.50	8.60	14.30	21.30	30
31	43.8	~~F~~	29.2		16.80		10.80	12.10		7.80		24.10	31
Sum													
Mean													
High													
Low									4.5	3.7			

Remarks: 8:00 - A.M. Readings.

Mississippi River.—Helena, Ark., 1931.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	2.0	3.8	14.8	11.6	21.4	17.4	7.9	11.1	8.1	3.2	4.3	20.4
2	2.0	3.5	15.1	12.2	23.5	16.6	8.1	10.6	8.9	4.0	3.9	21.5
3	1.8	3.2	15.7	14.2	25.0	16.0	8.6	9.6	9.7	5.3	3.4	22.6
4	1.6	3.2	15.9	17.3	25.8	15.5	8.7	7.8	10.2	6.9	2.8	24.1
5	1.5	3.4	15.5	20.3	25.8	15.2	8.6	6.3	9.9	8.1	2.5	25.0
6	1.5	3.5	14.7	22.8	25.4	14.8	8.2	5.6	9.1	8.4	2.6	25.6
7	1.9	3.4	14.3	24.4	24.6	14.7	7.9	5.3	8.9	8.1	2.6	25.7
8	2.2	3.2	14.4	25.5	23.5	14.5	8.1	5.5	9.5	7.6	2.3	25.4
9	2.3	3.1	14.7	26.2	22.3	14.2	8.4	6.1	10.5	7.1	2.2	24.9
10	2.5	2.8	14.5	26.9	21.2	13.5	8.3	6.3	11.4	6.7	2.1	24.0
11	2.9	2.8	14.7	27.6	20.1	12.4	8.0	6.1	11.8	6.1	2.0	23.1
12	3.8	3.6	15.3	28.3	19.0	11.1	8.0	5.9	11.9	5.2	1.8	22.3
13	4.4	4.7	16.0	29.0	17.8	10.4	8.3	5.8	11.6	4.6	1.7	21.6
14	4.7	5.2	16.6	29.6	16.7	10.7	8.4	5.7	11.0	4.5	1.5	21.5
15	5.7	6.1	16.8	30.1	15.6	11.6	8.1	5.6	10.0	4.4	1.4	21.6
16	6.6	7.1	16.6	30.3	14.6	12.7	7.8	5.8	8.6	4.2	**1.20**	21.8
17	6.6	8.2	16.1	30.3	13.9	13.4	7.4	5.9	7.4	3.9	1.3	23.1
18	6.4	9.2	15.6	30.0	13.8	13.9	7.3	6.1	6.2	4.4	1.7	25.3
19	6.1	10.3	15.2	29.2	14.1	14.7	7.3	6.4	5.1	4.9	1.8	27.9
20	5.6	11.7	14.6	28.2	14.6	15.5	6.9	6.8	4.2	5.9	2.4	30.3
21	5.3	12.3	13.9	27.0	15.2	16.0	6.5	6.9	3.5	7.1	3.0	32.2
22	5.0	12.7	13.4	25.6	15.5	15.8	6.3	6.5	2.7	8.5	4.1	33.6
23	4.6	13.1	12.8	24.1	15.7	14.7	6.3	5.7	2.6	9.5	5.4	34.6
24	4.4	13.6	12.4	22.6	15.8	12.9	6.7	5.4	3.3	9.8	7.4	35.5
25	4.2	14.2	12.0	21.4	16.1	11.1	7.5	5.9	4.1	9.7	10.2	35.9
26	3.9	14.7	11.8	20.3	17.2	9.9	8.3	6.7	4.6	9.1	13.0	**36.24**
27	3.6	14.8	11.9	19.3	18.8	9.1	9.1	7.4	4.6	8.2	15.4	**36.24**
28	3.7	14.9	12.1	18.5	19.6	8.8	9.9	7.8	4.0	7.1	17.0	36.1
29	4.0		12.2	18.4	19.6	8.6	10.7	7.9	3.3	6.1	18.3	35.9
30	4.0		12.1	19.4	19.0	8.3	11.1	7.8	3.0	5.3	19.3	35.7
31	3.9		11.8		18.2		11.3	7.8		4.6		35.8

Mississippi River.—Sunflower Landing, Miss., 1931.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	0.8	2.5	14.4	11.3	20.0	16.9	6.5	9.5	6.0	0.8	2.4	18.8
2	1.0	2.3	14.6	11.5	22.3	16.1	6.4	9.2	6.6	1.4	1.9	20.0
3	0.8	2.0	15.0	12.7	23.7	15.5	6.7	8.4	7.4	2.4	1.4	21.0
4	0.6	1.9	15.5	15.2	24.6	14.9	7.0	7.2	8.0	3.7	0.9	22.4
5	0.5	1.8	15.4	18.3	24.9	14.5	7.0	5.4	8.2	5.1	0.4	23.6
6	0.4	2.0	14.7	21.1	24.8	14.2	6.8	4.3	7.5	6.0	0.2	24.4
7	0.5	2.1	14.2	23.0	24.3	13.9	6.3	3.6	7.0	6.0	0.3	24.7
8	1.0	1.9	14.0	24.4	23.4	13.7	6.3	3.6	7.2	5.7	0.2	24.5
9	1.2	1.7	14.1	25.0	22.4	13.3	6.6	3.9	8.0	5.2	0.0	24.0
10	1.3	1.6	14.0	25.8	21.3	12.6	6.6	4.4	9.0	4.7	—0.2	23.3
11	1.5	1.6	14.1	26.4	20.3	11.8	6.4	4.4	9.7	4.3	—0.3	22.4
12	2.3	2.2	14.6	26.9	19.2	10.7	6.3	4.3	9.9	3.5	—0.5	21.6
13	3.0	3.6	15.3	27.5	18.0	9.6	6.4	4.2	9.8	2.7	—0.6	20.9
14	3.5	4.6	15.9	28.2	16.9	9.2	6.5	4.1	9.4	2.3	—0.7	20.5
15	4.1	5.4	16.3	28.7	15.8	9.8	6.5	4.0	8.6	2.2	—0.9	20.5
16	5.1	6.4	16.3	29.1	14.7	10.8	6.2	3.9	7.3	2.1	—1.0	20.6
17	5.5	7.4	15.8	29.3	13.8	11.5	5.8	4.1	6.2	1.9	**—1.18**	21.4
18	5.4	8.5	15.4	29.1	13.3	12.2	5.6	4.2	4.9	1.9	—0.6	23.2
19	5.2	9.3	14.8	28.6	13.1	12.9	5.5	4.5	3.7	2.3	—0.5	25.5
20	4.9	10.5	14.3	27.9	13.4	13.7	5.3	4.8	2.7	3.0	—0.1	27.8
21	4.5	11.4	13.7	26.8	13.9	14.5	4.8	5.0	1.8	4.0	0.4	29.8
22	4.2	12.0	13.2	25.6	14.3	14.8	4.7	4.8	1.0	5.5	1.1	31.3
23	3.8	12.3	12.6	24.3	14.5	14.3	4.4	4.3	0.5	6.7	2.2	32.3
24	3.5	12.9	12.1	22.9	14.6	13.0	4.6	3.7	0.8	7.3	3.8	33.2
25	3.2	13.3	11.7	21.6	14.7	11.0	5.2	3.8	1.5	7.4	6.3	33.8
26	3.0	13.8	11.3	20.5	15.4	9.5	6.0	4.3	2.2	7.3	9.7	34.1
27	2.7	14.1	11.3	19.4	16.8	8.3	6.8	5.0	2.5	6.6	12.3	34.3
28	2.5	14.3	11.5	18.4	18.0	7.7	7.6	5.6	2.2	5.6	14.5	**34.44**
29	2.5		11.7	17.9	18.4	7.3	8.4	5.9	1.5	4.6	16.2	34.3
30	2.7		11.6	18.5	18.3	7.0	9.2	5.9	1.1	3.7	17.5	34.2
31	2.6		11.4		17.7		9.5	5.8		3.0		34.3

RIVER STAGES

Mississippi River Gauge at Helena, Arkansas for the calendar year 1930

Zero elevation 141.81 feet above M.S.L.

Flood stage = 44.0 feet on gage.

U. S. GOVERNMENT PRINTING OFFICE: 1927 J59426

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	26.9	40.6	31.9	31.5	18.2	22.4	15.3	4.0	2.3	2.9	1.8	2.9	1
2	26.5	39.0	32.1	30.6	18.4	20.4	14.1	4.2	2.3	2.4	1.7	2.7	2
3	26.3	39.3	32.5	29.6	18.7	19.1	13.5	3.9	2.2	2.1	1.6	2.9	3
4	25.8	35.3	33.2	28.6	18.9	17.9	13.2	3.4	2.1	1.9	1.4	3.1	4
5	25.3	33.4	34.0	27.6	18.8	16.7	13.2	3.1	2.0	1.8	1.2	3.4	5
6	25.2	31.5	34.7	26.6	18.5	15.6	13.2	2.9	2.0	1.8	1.0	3.4	6
7	25.5	30.4	35.3	25.9	17.5	14.6	13.2	2.8	2.0	1.8	0.8	3.4	7
8	27.5	30.2	35.7	25.6	15.8	13.6	13.1	2.6	2.2	1.4	0.7	3.4	8
9	30.2	30.4	36.0	25.6	15.0	12.8	12.8	2.5	2.1	1.3	0.7	3.3	9
10	32.4	30.9	36.2	25.6	15.5	12.1	12.5	2.4	2.0	1.3	0.7	3.5	10
11	34.6	31.5	36.4	25.6	16.5	11.6	12.1	2.2	2.0	1.3	0.9	3.8	11
12	36.3	32.4	36.8	25.3	17.3	11.3	11.6	2.1	2.5	1.3	0.9	3.9	12
13	37.6	33.6	37.3	24.9	17.4	10.6	10.9	1.9	2.8	1.3	0.8	3.4	13
14	38.4	34.7	37.6	24.5	17.3	10.4	10.2	1.9	2.7	1.3	0.6	3.5	14
15	39.1	35.6	37.8	24.1	17.0	11.0	9.5	2.0	2.7	1.2	0.6	4.3	15
16	39.7	36.2	37.9	23.6	17.1	12.0	9.0	1.9	3.1	1.2	1.0	5.1	16
17	40.4	36.6	38.0	23.1	18.2	13.0	8.7	1.9	3.4	1.2	1.4	5.6	17
18	41.1	37.2	38.0	22.7	19.2	13.7	8.4	2.0	3.5	1.3	1.2	5.6	18
19	41.8	37.6	38.2	22.1	20.8	13.7	8.0	2.1	3.6	1.3	0.9	5.3	19
20	42.4	37.8	38.2	21.5	22.1	13.3	7.5	2.1	4.1	1.2	1.1	4.8	20
21	42.9	37.9	37.9	21.1	22.6	12.8	7.0	2.2	4.5	1.1	1.3	4.3	21
22	43.3	37.7	37.5	21.0	23.3	12.5	6.4	2.5	4.6	1.1	1.4	3.9	22
23	43.6	37.4	37.0	20.8	24.5	13.8	6.1	2.3	4.4	1.1	1.5	3.4	23
24	43.8	36.8	36.5	20.4	25.5	15.9	5.8	2.3	4.2	1.1	1.8	2.9	24
25	43.9	36.0	35.9	20.1	26.3	17.8	5.5	2.2	4.2	1.0	2.5	2.4	25
26	43.8	34.8	35.3	19.8	26.8	18.9	5.5	2.1	4.5	1.0	2.7	2.4	26
27	43.6	33.5	34.7	19.4	26.9	18.8	5.3	1.9	4.5	1.1	2.9	2.3	27
28	43.5	32.3	34.1	18.9	26.8	18.0	4.9	1.8	4.3	1.6	2.9	2.0	28
29	43.2	—	33.6	18.4	26.4	17.2	4.5	1.8	3.9	1.9	2.6	1.6	29
30	42.5	—	33.1	18.2	25.6	16.4	4.2	1.9	3.4	2.0	2.9	1.3	30
31	41.7	—	32.4	—	24.4	—	4.1	2.3	—	1.9	—	1.6	31
Sum	1138.8	980.7	1105.8	712.7	637.3	447.9	289.3	75.2	94.1	46.2	43.5	105.4	Year
Mean	36.7	35.0	35.7	23.8	20.6	14.9	9.3	2.4	3.1	1.5	1.5	3.4	—
High	43.9	40.6	38.2	31.5	26.9	22.4	15.3	4.2	4.6	2.9	2.9	5.6	43.9
Low	25.2	30.2	31.9	18.2	15.0	10.4	4.1	1.8	2.0	1.0	0.6	1.3	0.6

Remarks: Aug 9; Gage 2.5; Discharge 145,000 c.f.s.

— = Highest Aug 14; " 1.9; " 135,215 c.f.s.

— = Lowest

No 6-ft navigation over bar at mouth of White after July 2, 1930.

RIVER STAGES

Mississippi River Gauge at Helena, Arkansas for the calendar year 1929.

Zero elevation 141.81 feet above M.S.L.

Flood Stage = 44.0 feet on gage.

U. S. GOVERNMENT PRINTING OFFICE: 1927 159426

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	23.5	36.9	23.2	49.7	45.9	52.3	27.4	16.7	8.0	6.4	11.9	31.8	1
2	21.7	37.7	27.5 (@26.5)	49.5	45.9	52.0	27.7	16.3	7.1	6.2	12.7	31.1	2
3	19.9	38.5	30.4	49.5	45.9	51.7	27.6	16.0	7.4	6.3	13.5	29.8	3
4	18.0	39.1	32.5	49.5	45.9	51.2	27.1	15.6	6.2	6.7	14.5	27.9	4
5	16.6	39.7	34.6	49.5	46.0	50.6	26.5	15.2	6.1	7.0	15.2	25.9	5
6	15.7	40.2	36.3	49.7	46.1	49.8	26.0	15.0	5.8	7.5	16.0	23.1	6
7	15.3	40.6	37.9	49.9	46.3	48.9	25.5	14.5	5.7	8.0	17.0	20.6	7
8	15.2	40.7	39.0	50.1	46.6	48.0	25.2	14.3	5.8	8.9	18.4	18.3	8
9	15.2	40.4	40.0	50.6	47.0	46.9	25.3	14.8	5.9	9.8	20.2	16.3	9
10	15.3	39.6	41.1	50.8	47.4	45.7	25.3	15.0	6.1	10.1	21.7	14.7	10
11	15.5	38.0	42.0	51.0	47.8	44.8	25.2	15.2	6.6	10.2	22.9	13.6	11
12	15.6	35.4	42.9	51.1	48.3	43.9	25.1	15.3	7.2	10.8	23.1	12.7	12
13	15.9	31.9	43.7	51.2	48.7	43.2	25.3	15.3	8.1	12.2	23.4	12.1	13
14	16.4	28.0	44.4	51.1	49.2	42.5	26.1	15.3	8.1	13.8	23.2	11.6	14
15	17.0	25.2	45.1	50.9	49.6	41.9	27.1	15.0	7.8	15.0	22.8	11.6	15
16	17.9	23.0	45.8	50.7	50.0	41.1	27.7	14.6	8.0	15.8	22.1	11.9	16
17	18.7	21.6	46.4	50.3	50.3	40.4	27.9	14.3	8.6	16.1	21.2	12.3	17
18	19.4	20.6	46.8	50.0	50.5	39.5	28.4	14.0	8.4	15.9	20.5	13.0	18
19	20.0	20.0	47.4	49.7	50.8	38.5	28.4	13.5	8.4	15.0	20.2	14.0	19
20	20.7	19.5	47.8	49.4	51.1	37.5	28.5	12.8	9.0	13.2	20.9	15.1	20
21	21.1	19.1	48.3	49.2	51.3	36.3	28.8	12.2	9.9	11.1	22.9	16.7	21
22	22.0	18.6	48.7	49.0	51.6	35.0	29.0	11.5	10.2	9.3	25.1	18.6	22
23	23.4	18.0	49.2	48.7	51.8	33.7	29.1	10.7	10.1	8.1	26.9	20.6	23
24	25.1	17.5	49.6	48.4	52.0	32.5	28.9	9.9	9.7	7.1	28.0	22.6	24
25	27.1	17.0	50.0	48.1	52.1	31.4	28.3	9.3	8.9	6.2	28.9	24.5	25
26	28.8	17.1	50.2	47.8	52.4	30.1	27.1	8.8	8.1	6.6	29.8	25.9	26
27	30.5	18.3	50.4	47.3	52.5	28.8	25.5	8.6	8.2	7.7	30.7	26.8	27
28	32.4	20.4	50.3	46.9	52.6	27.6	23.5	8.6	8.1	8.9	31.5	27.3	28
29	34.0	—	50.2	46.5	52.6	26.8	21.4	8.5	7.3	9.8	32.0	27.4	29
30	35.2	—	50.0	46.1	52.6	26.8	19.4	8.0	6.9	10.6	32.1	27.3	30
31	36.3	—	49.9	—	52.5	—	17.7	8.4	—	11.2	—	27.1	31
Sum	669.4	802.6	1341.6	1482.2	1533.3	1219.4	812.0	403.2	231.7	311.5	669.3	632.2	Year
Mean	21.6	28.7	43.3	49.4	49.5	40.6	26.2	13.0	7.7	10.0	22.3	20.4	—
High	36.3	40.7	50.4	51.2	52.6	52.3	29.1	16.7	10.2	16.1	32.1	31.8	52.6
Low	15.2	17.0	23.2	46.1	45.9	26.8	17.7	8.0	5.7	6.2	11.9	11.6	5.7

Remarks: March 7, 2 pm. Cody gage 31.0 ft.

@26.5 is U.S.W.B. report, while 27.5 is M.R.C. reading.

— : Highest — : Lowest

RIVER STAGES

Miss River Gauge at Helena for the calendar year 1928

Zero elevation 141.81 feet above M.L.L.

Flood stage = 44.0 ft on gage.

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	35.8	28.5	32.3	31.3	40.3	27.4	44.4	26.4	18.6	13.8	15.9	34.3	1
2	34.9	28.3	31.4	30.4	41.7	27.4	44.5	26.1	18.3	13.0	16.3	33.5	2
3	33.4	27.8	30.5	29.7	41.9	26.7	44.6	25.7	17.5	12.4	16.1	32.4	3
4	31.5	27.2	29.5	29.4	42.2	26.0	44.7	25.1	16.7	11.9	15.7	30.8	4
5	29.6	26.4	28.4	29.6	42.2	25.4	44.9	24.4	16.5	11.7	15.3	29.0	5
6	27.8	25.3	27.6	30.9	42.1	25.3	45.0	23.5	16.7	11.6	15.1	27.2	6
7	26.7	24.2	26.8	32.2	41.8	26.0	45.2	22.7	17.4	11.7	14.8	26.1	7
8	25.4	23.3	26.0	33.4	41.4	26.5	45.4	21.9	18.1	11.8	14.7	25.3	8
9	24.8	22.5	25.7	34.4	40.9	27.5	45.5	21.1	18.6	11.9	14.8	24.9	9
10	24.9	22.1	25.1	35.7	40.5	28.5	45.6	20.2	19.0	11.9	14.9	24.9	10
11	24.8	22.2	24.3	36.8	39.5	30.3	45.6	19.9	19.2	11.9	15.3	25.0	11
12	24.4	23.0	23.5	37.9	38.6	32.3	45.7	20.0	19.5	11.8	15.8	25.0	12
13	23.8	24.8	22.9	38.2	37.6	34.1	45.7	20.7	19.7	11.5	16.3	25.0	13
14	23.6	27.3	22.7	38.7	36.4	35.8	45.6	21.2	19.4	11.3	16.5	24.5	14
15	24.0	29.4	23.0	39.0	34.7	37.0	45.4	21.3	18.8	11.3	16.4	23.7	15
16	24.3	31.4	24.0	38.9	32.9	37.9	45.0	20.7	18.1	11.2	16.1	22.5	16
17	24.4	32.7	24.4	38.5	30.9	38.9	44.3	20.0	17.3	11.2	15.6	21.3	17
18	24.4	33.7	24.7	37.8	28.8	39.9	43.2	19.2	16.5	10.8	14.9	20.4	18
19	24.4	34.4	25.0	37.0	26.9	40.5	41.9	18.7	16.7	10.4	14.3	19.4	19
20	24.3	34.8	25.8	36.5	25.1	41.1	40.4	17.8	17.9	10.4	13.6	18.4	20
21	24.0	35.1	27.1	36.4	23.5	41.6	38.8	17.1	19.1	10.8	13.2	18.8	21
22	23.9	35.4	28.4	37.1	22.5	42.1	37.2	16.8	19.3	11.4	13.6	20.2	22
23	24.3	35.6	29.7	37.7	22.1	42.5	35.6	16.5	18.9	12.0	16.6	22.2	23
24	25.0	35.6	30.9	38.0	22.4	42.9	34.1	16.1	18.0	12.9	22.4	24.4	24
25	25.7	35.2	31.8	38.5	23.5	43.2	32.7	16.3	17.1	13.7	26.5	27.0	25
26	26.4	34.6	32.5	39.0	24.6	43.5	31.3	17.1	16.3	14.4	29.3	28.1	26
27	26.8	34.1	33.1	39.5	25.7	43.8	30.0	18.1	15.7	14.7	31.5	28.5	27
28	27.3	33.5	33.4	40.0	26.2	44.1	28.8	18.8	15.4	14.9	33.0	28.2	28
29	27.8	33.0	33.4	40.4	26.6	44.3	28.0	19.1	15.1	15.4	34.0	27.4	29
30	28.1	—	32.9	40.8	26.9	44.9	27.3	19.1	14.5	15.8	34.5	26.4	30
31	28.4	—	32.2	—	27.2	—	26.8	18.8	—	15.8	—	25.1	31
Sum	824.9	861.4	869.0	1083.4	1017.2	1066.9	1243.2	630.4	529.9	385.3	563.0	789.9	Year
Mean	26.6	29.7	28.0	36.1	32.8	35.6	40.1	20.3	17.7	12.4	18.8	25.5	—
High	35.8	35.6	33.4	40.8	42.2	44.4	45.7	26.4	19.7	15.8	34.5	34.3	45.7
Low	23.6	22.1	22.7	29.4	22.1	25.3	26.8	16.1	14.5	10.4	13.2	18.4	10.4

Remarks: Nov. 1, Helena gage = 15.9; Clarendon gage = 11.5. Channel 6.0 ft at mouth of White

— = Highest — = Lowest

RIVER STAGES

Mississippi ~~Miss. near Mouth of~~ ~~St Francis~~ River Gauge at Helena for the calendar year 1927

Zero elevation 141.81 feet above M. L. R.

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	38.8	40.1	40.6	51.0	55.8	41.1	39.9	18.1	17.2	7.8	14.6	22.9	1
2	s 39.6	40.8	40.1	51.0	55.3	41.5	39.1	18.2	16.7	8.1	14.7	22.3	2
3	40.4	41.5	39.8	50.9	54.9	41.8	38.0	17.8	16.0	8.8	14.8	21.5	3
4	41.0	42.1	39.6	50.7	54.5	42.2	36.7	17.3	15.0	9.9	14.7	20.9	4
5	41.8	42.6	39.5	50.6	54.0	42.6	34.8	16.7	13.8	11.2	14.1	21.4	5
6	42.5	s 43.2	39.5	50.5	53.5	43.1	33.0	16.1	12.7	12.4	13.0	23.0	6
7	45.0	43.8	39.8	50.5	53.2	43.6	31.4	15.8	11.7	13.6	11.8	24.4	7
8	43.7	44.5	40.4	50.5	52.7	44.0	29.4	15.9	11.0	16.7	10.7	25.2	8
9	s 44.3	45.0	40.9	50.8	52.1	44.8	27.8	16.2	10.6	21.1	9.8	25.8	9
10	44.8	45.6	41.1	51.0	51.6	45.3	26.4	16.6	10.4	22.2	9.2	26.0	10
11	45.2	46.0	41.3	51.4	50.9	45.7	25.3	17.0	10.1	23.3	9.0	26.5	11
12	45.7	46.5	41.9	51.8	50.1	46.3	24.5	17.2	9.8	24.1	9.6	27.2	12
13	46.0	s 46.9	42.3	52.2	49.3	46.8	23.7	17.4	9.4	24.2	10.7	28.0	13
14	46.2	47.1	42.4	52.5	48.6	47.4	22.9	17.6	9.1	24.0	11.9	28.7	14
15	46.3	47.3	42.6	53.0	48.0	47.8	22.1	17.8	8.9	23.9	13.0	29.3	15
16	s 46.1	47.0	42.7	53.6	47.4	48.0	21.5	18.0	8.8	24.0	14.3	29.8	16
17	45.6	47.0	42.8	53.7	46.9	48.0	21.2	18.7	8.9	24.2	14.9	30.4	17
18	44.6	47.0	43.0	53.9	46.5	48.0	20.9	20.0	9.3	24.3	15.1	31.4	18
19	42.9	46.6	43.4	54.2	46.2	47.8	20.6	21.2	9.8	24.2	15.1	32.0	19
20	39.9	s 46.3	43.9	54.5	45.9	47.5	20.3	22.1	10.2	23.9	15.4	32.7	20
21	36.4	45.7	44.5	55.2	45.3	47.1	19.9	22.6	10.3	23.4	15.9	33.5	21
22	33.3	45.1	45.2	55.9	44.8	46.6	19.3	22.6	10.2	22.7	17.1	34.2	22
23	s 31.5	44.5	45.8	56.2	44.2	46.0	18.6	22.3	9.9	21.8	18.6	34.9	23
24	31.0	43.9	46.5	56.4	43.6	45.2	18.0	22.0	9.5	20.6	19.9	35.5	24
25	32.1	43.2	47.1	56.6	42.9	44.4	17.7	21.5	8.9	19.2	21.2	35.8	25
26	34.0	42.5	47.8	56.7	42.8	43.6	17.5	21.1	8.5	17.8	22.4	36.2	26
27	36.6	s 41.8	48.6	56.7	41.7	42.8	17.2	20.6	8.2	16.7	23.1	36.3	27
28	36.8	41.1	49.3	56.7	41.2	42.0	17.0	19.9	8.0	15.8	23.5	36.4	28
29	38.0	—	49.9	56.6	40.9	41.3	16.9	19.1	7.8	15.2	23.5	36.5	29
30	s 38.6	—	50.5	56.2	40.9	40.7	17.0	18.4	7.8	14.9	23.3	36.5	30
31	39.4	—	50.8	—	40.9	—	17.6	17.8	—	14.6	—	36.3	31
Sum	1258.1	1244.7	1353.6	1601.5	1486.6	1343.0	756.2	583.6	318.5	574.6	464.9	921.7	Year
Mean	40.6	44.5	43.7	53.4	48.0	44.8	24.4	18.8	10.6	18.5	15.5	29.7	—
High	46.3	47.3	50.8	56.7	55.8	48.0	39.9	22.6	17.2	24.3	23.5	36.5	56.7
Low	31.0	40.1	39.5	50.5	40.9	40.7	16.9	15.8	7.8	7.8	9.0	20.9	7.8

Remarks: Sept 27 = 3.0 feet at mouth of White

— = Highest — = Lowest

RIVER STAGES

Mississippi River Gauge at Helena, Ark for the calendar year 1926

Zero elevation 141.81 feet above mean ~~Gulf~~ Low Level (Dec. M.S.W.E. Basis)

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	7.6	33.0	32.7	26.0	30.1	14.2	18.4	5.4	25.4	28.4	24.2	31.7	1
2	6.0	33.4	33.4	27.0	28.0	13.4	17.8	5.3	25.3	28.3	24.5	31.7	2
3	4.8	33.7	34.0	27.8	26.4	12.8	16.8	5.3	24.9	28.2	25.0	31.7	3
4	4.0	33.6	34.2	28.7	24.7	12.6	15.6	5.6	24.4	28.5	25.6	31.7	4
5	3.5	33.1	34.4	29.4	23.3	12.3	14.6	6.3	23.7	29.0	26.2	31.6	5
6	3.7	32.4	34.3	30.3	22.1	12.1	13.5	7.2	22.8	30.0	27.0	31.5	6
7	4.7	31.0	34.5	30.9	21.1	12.0	12.5	7.7	21.7	31.0	27.5	31.4	7
8	6.3	29.5	34.4	31.4	20.2	11.8	11.5	8.0	20.4	32.0	27.9	31.0	8
9	7.2	28.0	34.0	31.6	19.5	12.0	10.8	8.5	19.5	33.0	28.1	30.5	9
10	7.2	26.9	33.7	31.7	18.8	12.6	10.1	9.4	20.1	34.0	28.1	29.6	10
11	6.9	26.7	33.4	32.1	18.1	13.6	9.4	10.1	22.3	34.8	27.8	28.5	11
12	6.9	26.9	33.1	33.0	17.5	13.6	8.9	10.4	24.4	35.5	27.3	27.4	12
13	7.5	27.4	32.7	34.1	16.7	13.8	8.6	10.4	26.0	36.2	26.7	26.6	13
14	8.6	27.8	32.0	34.9	16.1	14.0	8.6	10.3	27.0	36.7	25.9	26.0	14
15	8.5	28.0	31.0	35.7	15.5	14.0	9.2	10.5	27.7	37.2	25.3	26.4	15
16	9.9	28.0	29.8	36.3	15.1	13.5	10.4	10.5	28.3	37.6	24.5	26.8	16
17	10.1	27.5	28.7	36.8	14.9	12.5	11.8	10.0	29.0	37.9	23.6	27.0	17
18	9.9	26.7	27.7	37.3	14.7	11.5	12.7	9.3	29.7	38.2	22.8	27.5	18
19	9.6	25.6	27.0	37.6	14.4	10.7	12.9	8.9	30.1	38.4	22.3	28.0	19
20	9.1	24.7	26.4	37.8	14.1	10.4	12.6	8.9	30.3	38.5	22.5	28.6	20
21	9.3	24.3	25.7	38.0	13.9	11.1	11.8	9.5	30.3	38.3	23.8	29.4	21
22	10.5	24.7	25.1	38.2	13.5	13.4	10.6	10.4	30.2	38.0	25.5	30.8	22
23	12.7	25.6	24.2	38.3	13.3	15.9	9.5	11.3	30.1	37.1	26.6	31.6	23
24	14.9	26.7	23.5	38.3	13.3	17.7	8.4	13.1	30.0	35.9	27.6	32.1	24
25	18.6	28.2	22.8	38.2	14.0	18.7	7.7	15.1	29.9	34.0	28.5	32.9	25
26	22.6	29.8	22.4	37.7	14.9	19.1	7.2	17.2	29.8	31.9	29.5	33.8	26
27	25.8	30.9	22.2	37.0	15.5	19.2	7.0	19.4	29.4	29.6	30.4	34.6	27
28	28.1	31.9	22.4	35.8	16.0	19.0	6.9	21.5	29.0	27.5	31.0	35.4	28
29	30.0	—	22.8	34.2	16.0	18.7	6.4	23.3	28.8	25.9	31.4	36.2	29
30	31.3	—	23.7	32.2	15.6	18.6	6.0	24.5	28.6	24.7	31.6	37.0	30
31	32.3	—	24.8	—	15.0	—	5.6	25.2	—	24.3	—	38.0	31
Sum	378.1	806.0	901.0	1018.3	552.3	424.8	333.8	358.5	799.1	1020.6	798.7	957.0	Year
Mean	12.2	28.8	29.1	33.9	17.8	14.2	10.8	11.6	26.6	32.9	26.6	30.9	—
High	32.3	33.7	34.5	38.3	30.1	19.2	18.4	25.2	30.3	38.5	31.6	38.0	38.5
Low	3.5	24.3	22.2	26.0	13.3	10.4	5.6	5.3	19.5	24.3	22.3	26.0	3.5

Remarks: Flood stage 44.0

— = Highest — = Lowest

RIVER STAGES

Mississippi River Gauge at Helena Ark. for the calendar year 1925

Zero elevation 146.81 feet above Mean ~~Gulf~~ Sea Level

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	11.8	19.9	34.2	31.6	15.1	12.7	18.2	11.0	4.8	3.0	15.7	25.5	1
2	11.8	19.4	34.6	31.2	15.8	11.6	17.7	10.8	4.2	3.8	15.4	24.7	2
3	11.8	18.9	35.0	30.5	17.3	10.6	17.2	10.5	3.5	4.8	15.0	24.2	3
4	12.4	18.2	35.1	29.7	18.9	9.8	17.0	10.2	2.4	5.4	14.6	23.8	4
5	12.7	17.4	35.0	28.4	19.8	9.3	17.0	9.8	2.4	5.7	14.6	23.3	5
6	12.6	16.7	34.5	27.1	20.3	9.0	17.4	9.0	1.9	5.6	14.7	22.8	6
7	12.3	16.5	33.6	25.5	20.1	8.8	17.6	8.0	1.6	5.3	15.1	22.3	7
8	11.8	16.9	32.4	23.8	19.7	8.6	17.3	7.0	1.1	5.4	15.6	21.9	8
9	11.6	17.8	31.0	22.1	19.1	8.4	16.5	6.4	0.7	6.2	15.7	22.1	9
10	12.0	18.7	29.4	20.8	18.8	8.4	15.4	5.7	0.3	7.8	16.1	22.3	10
11	12.7	19.4	27.7	19.8	18.6	9.3	14.4	5.2	0.2	9.3	16.6	22.5	11
12	13.4	20.2	26.3	19.6	18.5	10.7	13.9	4.8	-0.1	9.8	17.6	22.6	12
13	13.8	21.0	24.8	20.4	18.4	12.0	13.8	4.5	-0.1	9.6	19.1	22.6	13
14	13.9	21.7	23.6	21.5	18.2	12.8	14.0	4.4	-0.2	9.3	21.3	22.1	14
15	13.7	22.5	22.4	22.3	18.0	12.7	14.2	4.3	-0.2	8.9	23.8	21.4	15
16	13.4	22.8	21.4	22.6	17.7	12.5	14.2	4.3	-0.2	8.9	26.0	20.6	16
17	13.7	22.9	21.0	22.6	17.4	12.3	13.7	4.5	-0.2	9.1	27.7	19.9	17
18	14.5	22.6	21.3	22.4	17.1	12.2	13.0	4.8	-0.2	9.2	29.0	19.3	18
19	15.4	22.4	21.8	22.0	16.9	12.0	12.5	5.1	-0.1	8.9	30.2	18.7	19
20	16.2	22.6	22.6	21.4	17.2	12.1	12.3	5.3	0.0	9.0	31.1	18.1	20
21	16.9	23.4	23.5	20.6	18.1	12.5	12.5	5.4	0.5	9.7	31.7	17.3	21
22	17.6	24.8	24.6	19.8	19.4	13.3	12.7	5.6	1.2	10.5	32.0	16.5	22
23	18.1	26.8	25.8	18.9	20.6	14.3	12.9	6.0	2.0	11.3	32.1	15.6	23
24	18.2	28.5	27.4	18.2	21.3	15.6	12.6	6.2	2.7	12.6	31.8	14.8	24
25	18.1	30.0	28.7	17.5	21.4	16.6	12.4	6.1	3.0	14.0	31.2	13.9	25
26	18.0	31.3	29.8	16.8	20.9	17.2	12.1	5.6	3.0	15.2	30.4	12.9	26
27	18.0	32.6	30.6	16.1	20.0	17.6	11.5	5.1	3.0	15.9	29.5	12.1	27
28	18.5	33.5	31.1	15.5	18.7	18.0	10.7	5.1	2.8	16.4	28.4	11.3	28
29	19.3	—	31.5	15.3	17.2	18.4	10.5	5.4	2.7	16.4	27.3	10.5	29
30	19.8	—	31.7	15.1	15.6	18.5	10.7	5.4	2.8	16.2	26.4	9.7	30
31	20.0	—	31.8	—	14.1	—	10.9	5.0	—	16.0	—	8.7	31
Sum	464.0	629.0	884.2	659.1	270.2	377.8	436.8	196.5	45.5	299.2	695.7	584.0	Year
Mean	15.0	22.5	28.5	22.0	18.4	12.6	14.1	6.3	1.5	9.7	23.2	18.8	—
High	20.0	33.5	35.1	31.6	21.4	18.5	18.2	11.0	4.8	16.4	32.1	25.5	35.1
Low	11.6	16.5	21.0	15.1	14.1	8.4	10.5	4.3	-0.2	3.0	14.6	8.7	-0.2

Remarks: — = Highest — = Lowest

RIVER STAGES

Mile at Mouth of St Francis River River Gauge at Helena Ark. for the calendar year 1924

Zero elevation 141.81 feet above Mean ~~Gulf~~ Sea Level

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	35.9	36.0	31.6	27.6	30.4	34.3	31.8	20.8	16.6	10.3	4.7	4.3	1
2	35.8	34.3	32.5	28.4	29.7	34.7	31.2	19.9	17.5	10.8	4.4	4.3	2
3	35.8	32.2	33.1	29.5	29.1	35.1	31.1	18.8	18.2	11.2	4.2	4.4	3
4	35.8	30.3	33.5	30.7	28.9	35.6	31.3	18.0	18.5	11.4	3.9	4.6	4
5	35.8	28.5	33.6	31.9	29.3	36.1	31.7	17.3	18.5	11.2	3.7	4.9	5
6	35.8	26.7	33.3	33.0	30.0	36.6	31.7	16.6	18.3	10.7	3.7	5.0	6
7	36.1	25.0	32.6	34.0	30.9	36.9	32.7	16.0	17.7	10.1	3.6	5.0	7
8	36.5	23.8	31.4	34.9	31.7	37.0	33.0	15.5	16.9	9.6	3.6	5.3	8
9	36.9	23.1	29.9	35.6	32.2	36.9	33.2	14.7	16.0	9.8	3.7	5.8	9
10	37.4	22.8	28.4	36.3	32.5	36.7	33.1	14.1	15.0	11.4	3.7	6.1	10
11	38.0	22.8	27.4	36.8	32.5	36.1	32.7	13.7	14.0	13.9	3.8	6.5	11
12	38.5	22.7	27.5	37.2	32.3	35.1	32.0	13.2	13.2	16.0	3.8	8.4	12
13	39.0	22.5	28.4	37.6	31.7	33.9	30.6	12.8	12.7	17.3	3.9	10.8	13
14	39.6	22.2	29.0	37.9	30.9	32.4	29.1	12.7	12.2	18.0	3.9	13.0	14
15	40.1	21.9	30.4	38.2	30.0	31.2	27.5	13.1	11.7	18.1	4.0	15.6	15
16	40.7	21.6	31.0	38.3	29.1	30.8	25.8	14.0	11.2	17.5	4.1	18.4	16
17	41.0	21.4	31.3	38.3	28.2	31.6	24.5	15.2	10.7	16.4	4.1	20.8	17
18	41.5	21.2	31.4	37.8	27.5	32.8	23.8	16.2	10.4	15.4	4.1	22.8	18
19	41.8	21.1	31.2	37.1	26.8	33.9		16.7	10.1	14.1	4.1	24.1	19
20	42.1	21.2	30.9	36.0	26.5	34.8	24.0	16.9	9.8	12.7	4.2	24.6	20
21	42.2	21.4	30.1	34.9	26.7	35.3	23.7	16.7	9.5	11.2	4.2	24.1	21
22	42.2	21.7	29.1	33.8	27.4	35.6	24.4	15.7	9.2	9.7	4.2	22.8	22
23	42.1	22.2	28.0	32.9	28.5	35.9	25.2	15.0	9.2	8.3	4.2	21.0	23
24	41.8	22.9	26.9	32.3	29.6	36.2	25.7	14.1	9.6	7.2	4.3	19.2	24
25	41.6	24.2	26.1	31.9	30.6	36.4	25.8	14.4	10.2	6.3	4.3	17.4	25
26	41.4	25.6	25.7	31.8	31.2	36.3	25.6	13.1	10.6	5.7	4.3	15.8	26
27	40.9	27.3	25.4	31.7	32.0	35.8	24.0	13.1	10.6	5.4	4.3	14.2	27
28	40.4	28.8	25.5	31.6	32.6	35.0	24.8	13.3	10.4	5.2	4.3	13.2	28
29	39.7	30.3	25.9	31.3	33.2	33.9	24.0	13.9	10.1	5.1	4.3	12.4	29
30	38.9	—	26.4	31.0	33.7	32.7	23.1	14.7	10.1	5.0	4.3	12.0	30
31	37.7	—	27.1	—	34.0	—	21.9	—	—	4.8	—	11.8	31
Sum	1213.0	725.7	914.6	1020.3	939.7	1046.6	839.0	460.2	388.7	339.8	121.9	398.6	Year
Mean	39.1	25.0	29.5	34.0	30.3	34.9	28.0	15.3	13.0	11.0	4.1	12.9	—
High	42.2	36.0	33.6	38.3	34.0	37.0	33.2	20.8	18.5	18.1	4.7	24.6	42.2
Low	35.8	21.1	25.4	27.6	26.5	30.8	21.9	12.7	9.2	4.8	3.6	4.3	3.6

Remarks; — = Highest — = Lowest

RIVER STAGES

Miss. River Gauge at Helena Ark. for the calendar year 1923

Zero elevation ..... feet above .....

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	17.8	30.8	31.4	45.4	32.8	32.3	24.1	13.4	12.3	6.0	9.1	6.6	1
2	16.5	31.9	28.5	45.2	31.4	32.0	22.3	13.0	11.2	6.1	8.7	6.7	2
3	15.4	33.3	25.5	45.2	29.8	31.7	20.7	12.7	10.5	6.5	8.3	7.1	3
4	14.5	34.4	23.1	45.2	28.3	31.6	19.7	12.3	10.1	7.1	8.0	8.0	4
5	14.1	35.5	20.9	45.1	27.2	31.5	19.3	11.9	10.0	7.7	7.7	9.3	5
6	13.9	36.4	19.4	44.7	26.3	31.3	19.4	11.5	10.1	8.1	7.6	10.4	6
7	13.8	37.2	18.8	44.2	25.6	30.9	19.9	11.3	10.4	8.2	7.6	11.0	7
8	13.8	37.9	18.7	43.2	25.1	30.1	20.3	11.5	10.7	8.4	7.8	11.3	8
9	13.8	38.6	18.6	42.0	25.1	29.3	20.6	12.2	10.8	9.4	8.1	11.5	9
10	14.0	39.4	19.3	40.5	25.0	28.3	21.1	13.0	10.9	10.3	8.3	12.0	10
11	14.3	40.0	21.0	39.0	25.0	27.8	21.6	13.7	11.0	10.6	8.5	13.2	11
12	14.8	40.5	23.3	37.3	24.9	27.1	21.9	14.4	11.0	10.4	8.8	15.0	12
13	15.2	41.0	25.5	36.1	24.7	26.2	21.6	15.2	10.9	9.9	8.9	17.4	13
14	15.5	41.3	27.8	35.2	24.1	25.4	21.4	16.0	10.8	9.3	8.9	20.1	14
15	15.6	41.7	30.3	34.4	23.8	25.1	21.1	16.6	10.5	9.0	8.9	22.3	15
16	15.5	42.0	32.7	33.8	23.7	25.7	20.7	17.0	10.3	9.1	9.0	24.4	16
17	15.3	42.2	34.8	33.5	23.8	27.0	20.3	17.4	10.0	9.6	9.1	26.5	17
18	14.9	42.3	36.4	33.8	24.7	28.5	19.8	18.1	9.5	9.6	9.2	28.4	18
19	14.5	42.4	37.6	34.4	26.7	29.9	19.0	18.9	8.9	9.6	9.3	30.0	19
20	14.2	42.3	38.8	34.7	28.6	31.0	18.4	19.5	8.5	10.1	9.2	31.2	20
21	14.0	42.0	40.0	35.3	30.0	31.8	18.0	20.4	8.0	10.6	8.8	32.0	21
22	14.0	41.6	41.1	35.7	31.2	32.3	18.0	21.3	7.7	10.9	8.3	32.8	22
23	14.7	41.0	42.1	36.0	32.0	32.4	18.1	21.8	7.7	11.0	7.6	33.4	23
24	15.6	40.2	42.9	36.2	32.8	32.3	18.1	22.1	7.8	11.1	7.1	33.7	24
25	17.5	39.2	43.6	36.3	33.4	31.7	17.8	22.0	7.8	11.2	6.8	33.9	25
26	19.5	38.0	44.2	36.1	33.8	30.8	17.3	21.5	7.5	11.1	6.6	34.3	26
27	21.6	36.3	44.7	35.7	33.9	29.6	16.6	20.4	7.2	10.9	6.5	34.6	27
28	23.9	34.1	45.0	35.3	34.0	28.4	15.8	18.8	6.9	10.7	6.5	35.1	28
29	25.9	—	45.2	34.8	33.8	27.1	15.0	17.0	6.5	10.4	6.5	35.4	29
30	27.9	—	45.4	34.0	33.3	25.7	14.3	15.2	6.3	10.1	6.5	35.7	30
31	29.4	—	45.4	—	32.8	—	13.8	13.6	—	9.7	—	35.9	31
Sum	521.4	1083.5	1012.0	1148.3	887.6	884.8	596.0	503.7	281.8	292.7	242.2	699.2	Year
Mean	16.8	38.7	32.6	38.3	28.6	29.5	19.2	16.2	9.4	9.4	8.1	22.6	—
High	29.4	42.4	45.4	45.4	34.0	32.4	24.1	22.1	12.3	11.2	9.3	35.9	45.4
Low	13.8	30.8	18.6	33.5	23.7	25.1	13.8	11.3	6.3	6.0	6.5	6.6	6.0

Remarks: — = Highest — = Lowest

Zero = 141.81

Mississippi River.—Helena, Ark., 1922.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	31.0	24.1	29.4	51.8	53.0	25.8	19.1	17.0	6.7	3.8	1.5	4.7
2	32.4	24.7	30.2	52.0	53.0	26.4	18.5	16.4	7.3	3.5	1.6	4.2
3	33.2	25.1	31.1	52.3	**53.10**	26.8	17.9	15.6	8.3	3.2	1.6	3.9
4	34.0	25.5	32.2	52.3	53.0	27.0	17.7	14.8	9.1	3.0	1.5	3.7
5	34.6	25.9	33.2	52.3	52.9	26.8	17.6	13.8	9.8	2.9	1.4	3.5
6	35.1	25.6	34.0	52.3	52.7	26.3	17.7	12.9	10.0	2.8	1.2	3.5
7	35.4	24.5	34.8	52.1	52.4	25.6	17.9	12.1	9.9	2.7	1.1	3.5
8	35.6	23.2	35.3	52.0	52.0	24.9	18.0	11.8	9.5	2.5	1.0	3.8
9	35.6	21.6	35.9	51.9	51.6	24.3	18.3	11.9	8.8	2.4	0.9	4.0
10	35.2	20.3	36.7	51.8	51.0	23.7	18.7	12.1	8.0	2.2	**0.80**	4.5
11	34.7	19.3	37.2	51.7	50.3	23.4	18.9	12.1	7.4	2.1	**0.80**	5.0
12	33.7	18.5	37.9	51.7	49.5	22.9	19.1	11.7	7.4	2.1	**0.80**	5.7
13	32.0	17.8	38.5	51.5	48.5	22.3	19.5	11.0	8.1	2.3	**0.80**	6.6
14	30.1	17.1	39.2	51.4	47.5	21.8	19.9	10.3	8.7	2.5	1.0	8.0
15	28.1	16.5	39.8	51.4	46.2	21.6	20.1	9.6	8.7	2.7	1.4	9.6
16	26.8	16.0	40.3	51.3	44.9	21.6	19.8	9.1	8.3	2.6	1.6	11.0
17	26.0	15.6	40.8	51.4	43.6	21.4	19.3	8.9	7.7	2.3	1.8	11.7
18	25.7	15.1	41.2	51.6	42.1	21.0	19.1	8.9	7.2	2.1	1.8	12.1
19	25.6	14.8	42.1	51.7	40.5	20.6	20.2	9.0	6.6	2.1	1.9	12.4
20	25.5	14.8	42.7	51.7	38.4	20.2	21.4	9.0	6.1	2.1	2.0	12.6
21	25.4	15.5	43.4	51.8	36.2	19.8	21.8	8.7	5.8	2.2	2.7	13.2
22	25.2	16.8	44.3	51.9	33.9	19.5	21.5	8.3	5.5	2.0	3.9	14.0
23	24.7	19.0	45.4	52.0	31.8	19.8	20.9	8.0	5.3	2.0	5.6	14.9
24	24.0	21.0	46.5	52.0	29.9	20.2	20.5	7.8	4.9	1.9	6.4	16.0
25	23.4	23.2	47.4	52.0	28.4	20.4	20.3	7.5	4.6	1.9	6.8	17.1
26	23.0	25.0	48.1	52.2	27.2	20.5	20.1	7.4	4.4	1.9	6.9	18.5
27	22.8	26.9	49.1	52.4	26.0	20.5	19.7	7.2	4.3	1.9	6.7	20.1
28	22.8	28.3	49.8	52.7	25.2	20.3	19.2	6.9	4.2	1.9	6.4	21.1
29	22.9		50.3	52.8	24.4	20.1	18.5	6.7	4.2	1.8	5.8	21.2
30	23.1		50.9	52.9	24.4	19.7	18.0	6.6	4.0	1.8	5.3	20.5
31	23.4		51.4		25.1		17.5	6.4		1.6		19.1

Mississippi River.—Sunflower Landing, Miss., 1922.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	29.3	22.9	27.9	49.4	50.8	26.9	18.6	16.9	6.0	3.3	0.9	3.9
2	30.4	23.6	28.9	49.7	*50.95	27.2	18.0	16.1	6.4	3.0	0.9	3.4
3	31.3	24.1	29.9	50.0	50.9	27.4	17.4	15.4	7.2	2.7	0.8	3.1
4	32.2	24.4	30.7	50.2	50.9	27.5	17.1	14.5	8.2	2.5	0.8	2.9
5	32.9	24.8	31.6	50.4	50.8	27.2	16.9	13.5	8.8	2.3	0.7	2.7
6	33.4	24.8	32.4	50.4	50.7	26.7	16.9	12.5	9.0	2.2	0.6	2.6
7	33.8	24.1	33.2	50.3	50.5	26.0	17.0	11.8	9.0	2.1	0.5	2.4
8	34.2	23.0	33.8	50.2	50.4	25.3	17.2	11.2	8.7	1.9	0.4	2.6
9	34.2	21.6	34.5	50.2	49.9	24.7	17.4	11.1	8.2	1.8	0.3	2.9
10	34.1	20.4	35.2	50.1	49.4	24.1	17.8	11.2	7.5	1.6	0.2	3.3
11	33.8	19.2	35.8	50.0	48.9	23.5	18.1	11.3	6.8	1.5	0.2	3.8
12	33.1	18.4	36.3	50.0	48.3	22.9	18.4	11.1	6.5	1.5	**0.10**	4.4
13	31.9	17.5	36.9	49.9	47.7	22.3	18.8	10.6	6.9	1.5	0.2	5.0
14	30.4	16.7	37.6	49.8	47.0	21.7	19.2	9.8	7.4	1.6	0.3	6.2
15	28.8	16.3	38.1	49.8	46.0	21.3	19.4	9.2	7.7	1.8	0.6	7.7
16	27.4	15.7	38.6	49.9	45.2	21.1	19.2	8.6	7.5	1.8	0.8	9.2
				49.9	44.1	21.0	18.8	8.3	7.1	1.7	0.9	10.4
									6.5	1.5	1.0	11.0
												11.4

RIVER STAGES

Mississippi River Gauge at Helena Ark. for the calendar year 1924

Zero elevation ..... feet above .....

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DAY
1	19.0	17.3	30.0	33.3	37.9	16.7	18.9	12.4	14.4	19.8	5.4	29.4	1
2	18.9	17.4	28.9	34.4	37.7	16.2	19.5	12.1	13.3	20.3	5.2	29.5	2
3	18.5	18.0	28.0	35.4	37.4	16.0	20.3	11.5	12.4	20.6	5.1	29.7	3
4	18.1	19.3	27.0	36.2	37.1	15.8	21.2	10.8	11.3	20.7	5.1	30.0	4
5	18.0	20.8	26.4	36.9	36.7	16.0	22.0	10.1	10.2	20.5	5.1	30.4	5
6	17.9	22.2	25.7	37.4	36.1	16.7	22.5	9.4	9.2	20.0	5.4	30.9	6
7	17.8	23.0	25.2	37.8	35.5	17.2	22.4	9.1	8.5	19.2	6.0	31.5	7
8	17.7	23.8	24.9	38.5	34.9	18.0	22.2	8.9	8.0	18.1	7.0	32.1	8
9	17.4	24.2	24.1	38.7	33.9	18.4	21.9	8.9	7.6	17.0	8.3	32.7	9
10	16.9	24.8	23.8	38.7	33.0	18.6	21.7	9.5	7.7	15.9	9.6	33.2	10
11	16.3	25.8	23.8	38.6	31.9	18.7	21.0	10.6	9.0	15.0	10.7	33.6	11
12	15.6	26.7	24.5	38.4	30.8	19.1	20.1	11.5	10.9	14.2	11.5	34.0	12
13	14.8	27.8	25.9	38.1	29.8	19.6	19.0	12.1	12.2	13.4	12.4	34.2	13
14	14.3	29.1	28.0	37.9	29.5	19.9	18.0	12.4	12.7	12.6	13.1	34.3	14
15	13.9	30.3	30.2	37.3	30.2	20.0	17.0	12.5	12.7	11.8	13.4	34.0	15
16	14.0	31.4	32.0	36.7	31.5	20.1	15.9	12.7	13.3	11.2	13.5	33.4	16
17	14.7	32.2	33.4	35.8	32.7	20.0	14.9	12.9	11.8	10.7	13.6	32.3	17
18	15.7	33.0	34.3	34.6	33.6	19.4	13.7	13.3	11.2	10.3	13.3	30.4	18
19	16.9	33.6	34.9	33.4	33.9	18.5	12.7	13.8	11.0	9.9	13.0	28.0	19
20	18.1	34.2	35.1	32.5	33.8	17.5	11.9	14.4	11.4	9.4	12.5	25.5	20
21	19.0	34.5	35.2	32.2	33.1	16.9	11.3	15.0	12.8	8.8	12.4	23.2	21
22	19.6	34.7	35.1	33.1	31.8	16.5	10.9	15.4	14.5	8.2	13.7	21.1	22
23	19.9	34.5	34.8	34.4	30.2	16.0	10.8	15.5	15.4	7.7	17.0	19.5	23
24	20.1	34.1	34.2	35.4	28.3	15.5	10.8	15.4	15.5	7.2	20.6	18.3	24
25	20.2	33.5	33.4	36.1	26.4	15.2	10.9	15.3	15.3	6.9	23.8	17.8	25
26	20.0	32.9	32.4	36.7	24.6	15.3	11.2	15.4	15.4	6.5	26.3	17.9	26
27	19.6	32.0	31.5	37.2	22.9	15.9	11.5	15.5	16.7	6.3	27.7	19.1	27
28	19.0	31.2	31.1	37.6	21.2	16.6	11.8	15.6	17.0	6.2	28.3	21.7	28
29	18.4	—	31.1	37.8	19.7	17.5	12.1	15.6	18.0	6.0	28.7	24.7	29
30	17.9	—	31.3	37.9	18.3	18.2	12.3	15.5	19.0	5.7	29.1	27.4	30
31	17.5	—	32.1	—	17.4	—	12.4	15.0	—	5.6	—	29.6	31
Sum	545.7	782.3	928.3	1089.0	951.8	526.0	502.8	398.1	378.4	385.7	416.8	869.4	Year
Mean	19.6	27.9	29.9	36.3	30.7	17.5	16.2	12.8	12.6	12.4	13.9	28.0	—
High	20.2	34.7	35.2	38.7	37.9	20.1	22.5	15.6	19.0	20.7	29.1	34.3	38.7
Low	13.9	17.3	23.8	32.2	17.4	15.2	10.8	8.9	7.6	5.6	5.1	17.8	5.1

Remarks: — = Highest — = Lowest

Mississippi River.—Helena, Ark., 1920. Zero = 141.81

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	31.7	36.0	25.8	46.6	45.9	41.2	23.2	20.4	19.1	11.1	6.4	7.3
2	28.2	36.6	27.3	47.4	46.1	40.2	24.2	19.5	18.4	10.1	6.5	8.2
3	24.5	37.2	28.3	48.1	46.5	39.0	24.7	18.6	17.9	9.5	6.7	9.0
4	21.1	37.8	28.9	48.9	47.0	37.6	24.9	17.6	17.3	9.3	6.9	9.9
5	18.6	38.4	29.1	49.4	47.5	36.2	24.9	16.9	16.7	9.6	7.0	10.6
6	16.9	38.8	28.5	49.7	48.0	35.1	24.9	16.3	16.2	10.0	6.9	11.1
7	15.3	39.0	27.5	50.0	48.4	34.6	24.9	15.8	16.0	10.1	6.8	11.5
8	14.3	39.2	26.4	**50.10**	48.7	34.0	24.9	15.5	15.9	9.8	6.6	11.9
9	14.6	38.7	25.2	**50.10**	48.8	33.9	24.7	15.1	15.8	9.1	6.5	12.3
10	15.4	37.7	24.1	50.0	48.8	33.9	24.4	14.6	15.9	8.5	6.3	12.8
11	16.3	36.2	23.4	49.9	48.7	34.2	24.0	14.0	15.6	8.0	6.2	13.0
12	18.8	33.9	23.2	49.7	48.4	34.2	23.8	13.6	15.1	7.6	6.1	13.0
13	22.0	32.0	23.2	49.5	48.0	34.1	23.8	13.2	14.9	7.3	6.0	13.0
14	24.8	30.2	23.5	49.3	47.2	33.9	24.1	13.0	14.9	7.0	5.9	13.0
15	27.4	28.5	24.6	49.1	46.0	33.4	24.6	12.8	15.1	6.8	5.9	13.0
16	29.4	27.0	26.6	49.0	44.4	32.7	24.7	12.8	15.3	6.7	5.9	13.3
17	30.8	25.7	29.3	48.8	43.0	31.8	24.6	13.6	15.4	6.7	6.1	13.7
18	31.7	24.5	32.9	48.6	42.0	30.8	24.3	15.2	15.7	6.7	6.2	14.1
19	32.3	23.5	34.3	48.4	41.0	29.2	23.9	16.8	16.6	6.5	6.2	14.8
20	32.5	22.6	35.8	48.2	40.5	27.8	23.6	18.4	17.7	6.2	6.3	15.3
21	32.5	21.6	37.0	47.9	40.3	26.1	23.5	19.8	19.1	6.0	6.3	15.8
22	32.4	20.6	38.2	47.5	40.5	24.4	23.7	20.9	20.8	5.5	6.3	16.6
23	31.9	19.7	39.3	47.1	40.8	23.0	24.0	21.8	21.6	5.4	6.3	17.4
24	31.3	19.0	40.3	46.6	41.1	21.5	24.3	22.4	21.4	**5.30**	6.3	18.1
25	30.8	18.7	41.1	46.3	41.5	20.4	24.2	22.7	20.4	**5.30**	6.1	18.7
26	31.0	18.9	42.0	46.1	41.8	19.5	24.3	22.7	18.8	5.5	6.0	19.4
27	31.8	19.8	42.8	45.9	42.1	18.9	23.9	22.5	17.1	5.8	5.9	20.2
28	32.8	21.6	43.4	45.7	42.3	19.0	23.6	22.3	15.4	6.0	5.8	20.4
29	33.8	23.7	44.2	45.7	42.3	20.1	22.8	21.7	13.8	6.1	6.1	20.2
30	34.5		44.9	45.7	42.2	21.6	22.2	20.9	12.3	6.1	6.5	19.9
31	35.4		45.6		41.8		21.8	20.0		6.3		19.5

Mississippi River.—Sunflower Landing, Miss., 1920.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	34.2	35.3	24.4	44.2	44.3	40.7	22.2	20.2	18.8	11.1	5.0	5.4
2	31.2	35.8	26.0	45.0	44.4	40.2	23.3	19.4	18.1	9.9	5.2	6.3
3	28.2	36.4	27.1	45.8	44.6	39.4	24.1	18.6	17.6	8.8	5.4	7.3
4	25.0	36.8	28.0	46.5	44.9	38.6	24.4	17.6	17.0	8.4	5.6	8.5
5	22.4	37.3	28.3	47.1	45.3	37.6	24.4	16.7	16.4	8.4	5.6	9.4
6	19.6	37.7	28.1	47.5	45.7	36.7	24.4	16.1	15.8	8.7	5.6	10.0
7	17.6	38.0	27.6	47.8	46.0	35.8	24.4	15.6	15.5	9.0	5.6	10.4
8	16.6	38.2	26.8	48.1	46.2	35.3	24.4	15.1	15.4	8.8	5.4	10.9
9	15.5	38.2	25.7	48.2	46.4	34.9	24.2	14.7	15.4	8.2	5.2	11.2
10	15.7	37.8	24.6	**48.25**	46.5	34.7	24.0	14.3	15.4	7.5	5.0	11.7
11	16.4	36.8	23.8	48.2	46.4	34.6	23.7	13.8	15.3	6.8	4.8	12.2
12	18.0	35.6	23.4	48.1	46.3	34.6	23.3	13.2	14.9	6.4	4.8	12.3
13	20.8	34.0	23.2	47.9	46.2	34.4	23.3	12.8	14.7	6.0	4.6	12.3
14	23.6	32.2	23.3	47.8	45.6	34.1	23.4	12.6	14.6	5.6	4.6	12.3
15	26.1	30.8	23.9	47.5	45.0	33.6	24.0	12.4	14.7	5.4	4.5	12.4
16	28.1	29.3	25.4	47.5	44.0	33.1	24.1	12.2	15.0	5.2	4.4	12.7
17	29.6	27.9	27.6	47.3	43.1	32.4	24.0	12.6	15.1	5.2	4.5	13.0
18	30.5	26.6	30.0	47.1	42.1	31.4	23.8	13.8	15.4	5.2	4.6	13.4
19	31.1	25.8	32.0	46.9	41.2	30.4	23.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RIVER STAGES

River Gauge at Helena Ark. for the calendar year 1919

Zero elevation ..... feet above .....

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	28.7	23.2	17.8	46.2	30.8	38.0	23.4	16.0	7.2	4.5	21.4	
2	29.7	23.7	19.0	46.0	30.5	37.7	23.6	15.6	7.1	4.5	24.4	
3	30.3	24.2	24.4	45.8	30.0	38.2	23.8	15.0	7.2	4.8	27.4	
4	31.0	24.3	21.6	45.6	29.9	38.4	24.0	14.4	7.6	5.2	28.6	
5	32.0	24.3	22.6	45.0	29.9	38.7	24.0	13.6	8.0	5.8	31.6	
6	33.0	23.8	23.0	44.3	29.9	38.2	24.1	13.0	8.5	6.0	32.6	
7	33.8	23.4	23.6	43.4	29.9	37.5	24.4	12.6	9.2	6.3	33.2	
8	34.5	21.4	23.4	42.3	29.9	36.8	24.8	12.0	9.3	6.0	34.2	
9	35.1	21.0	23.4	40.8	30.0	36.0	24.6	11.6	9.0	5.8	35.0	
10	35.5	20.0	23.8	39.4	31.0	35.6	23.0	10.6	8.4	5.7	35.8	
11	36.4	18.8	24.1	37.3	31.8	35.4	22.0	9.9	7.4	5.6	36.0	
12	36.7	16.8	25.0	35.0	32.8	35.0	21.0	9.0	6.6	6.6	36.6	
13	37.2	16.6	26.5	32.5	33.4	34.5	21.0	8.8	6.0	7.3	37.0	
14	37.7	15.6	27.8	31.0	35.3	33.4	20.0	8.6	5.8	7.9	37.3	
15	38.1	14.6	29.5	30.0	36.5	32.5	19.0	8.4	5.6	9.0	37.4	
16	38.5	13.6	31.3	29.5	37.8	31.4	18.0	8.4	5.5	9.6	37.6	
17	38.9	13.0	32.8	29.5	38.6	30.2	17.6	8.7	5.0	10.3	37.5	
18	39.0	12.4	34.2	30.0	38.8	29.0	16.8	8.7	4.0	10.7	37.0	
19	38.8	11.8	36.0	31.0	39.6	27.8	16.3	8.9	3.8	10.9	36.6	
20	37.8	11.6	37.0	31.8	39.9	27.0	15.8	9.0	3.7	11.6	35.6	
21	36.0	11.6	38.0	32.5	40.0	26.4	15.4	9.0	3.2	13.0	33.5	
22	33.2	12.0	39.3	32.8	40.1	25.4	15.0	9.3	3.0	14.6	31.6	
23	30.0	12.6	40.5	33.0	40.0	25.0	14.5	9.6	3.1	15.6	29.7	
24	26.8	13.0	41.5	33.0	40.0	24.1	14.0	9.0	3.2	16.6	27.0	
25	24.7	13.4	42.6	33.0	39.9	23.6	13.8	8.6	3.4	17.5	24.6	
26	23.0	14.1	43.5	33.0	39.8	22.7	13.8	8.2	3.4	18.4	22.0	
27	22.4	15.0	44.3	32.8	39.4	22.1	14.5	7.9	4.0	18.8	21.4	
28	22.0	16.8	44.8	32.5	39.4	21.6	15.6	7.8	4.3	19.0	20.0	
29	21.8	—	45.6	32.0	39.0	21.9	16.0	7.6	4.5	20.0	19.0	
30	22.1	—	46.0	31.6	38.5	22.5	16.3	7.3	4.3	20.6	20.0	
31	22.7	—	46.0	—	38.2	—	16.1	7.2	—	20.1	—	
High	39.0	24.3	46.0	46.2	40.1	38.7	24.8	16.0	9.3	20.6	37.6	Year
Low	21.8	11.6	17.8	29.5	29.9	21.6	13.8	7.2	3.0	4.5	19.0	—
Mean	31.9	17.2	32.2	36.1	35.5	30.9	19.1	10.1	5.7	10.9	30.7	46.2
SUM	987.7	482.6	999.3	1082.6	1100.8	926.6	592.2	314.3	171.3	338.3	921.6	3.0

Missing

Remarks:

— = Highest — = Lowest

RIVER STAGES

Mississippi River Gauge at Helena for the calendar year 1917

Zero elevation ..... feet above .....

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	8.9	32.3	22.5	47.2	33.9	19.8	35.4	24.9	10.3	4.4	6.6	4.4
2	12.7	33.0	24.4	47.9	32.8	20.4	33.5	24.5	9.9	4.2	7.6	4.5
3	17.0	33.5	26.5	48.0	31.4	22.5	29.7	24.0	9.5	3.9	8.2	4.4
4	20.3	34.0	28.1	48.2	31.3	26.0	27.5	23.2	9.1	4.0	8.7	4.6
5	22.8	34.1	29.4	48.6	31.3	28.9	25.8	22.3	8.7	4.7	8.8	4.5
6	24.2	34.1	30.6	48.7	31.6	31.5	25.1	21.3	8.5	5.5	9.2	4.3
7	26.2	33.5	31.6	48.9	31.8	33.4	24.8	20.2	8.2	5.7	10.1	4.1
8	28.0	32.9	32.4	49.3	32.3	34.7	24.6	19.1	8.2	5.6	11.1	4.0
9	29.7	31.7	33.1	49.5	32.6	35.9	24.4	19.0	8.1	5.4	12.3	3.9
10	31.0	30.2	34.1	49.6	32.8	36.5	24.6	17.0	7.9	5.2	13.3	3.4
11	32.0	27.8	35.0	49.7	32.7	37.4	24.5	16.0	7.8	5.0	13.9	3.4
12	32.5	26.4	35.7	49.8	32.6	38.1	24.3	-15.0	7.8	4.7	14.2	3.4
13	33.2	24.4	36.4	49.9	32.3	38.8	24.0	14.2	8.1	4.4	14.2	3.5
14	34.0	22.5	37.1	49.8	31.8	39.5	23.6	13.3	8.2	4.0	13.9	3.5
15	34.5	20.8	37.7	49.7	31.1	40.0	22.8	12.9	8.2	3.7	13.2	3.1
16	35.0	19.0	38.3	49.5	30.2	40.6	22.0	12.5	8.3	3.4	12.6	2.1
17	35.4	17.5	39.0	49.3	29.0	41.2	22.2	12.2	8.6	3.3	11.7	1.1
18	35.5	16.0	39.7	48.9	27.8	41.7	21.7	12.3	8.9	3.3	10.8	-1.1 ⊗
19	35.5	15.1	40.1	48.5	26.6	42.2	21.3	12.3	9.1	3.2	9.9	-1.7 ⊗
20	35.1	14.8	40.7	48.1	25.4	42.6	20.9	12.3	8.9	3.2	9.2	-1.7 ⊗
21	34.0	14.9	41.5	47.6	24.4	43.0	20.5	11.9	8.3	3.0	8.2	-1.8 ⊗
22	33.0	14.8	42.2	46.7	23.8	43.2	20.3	11.6	8.2	2.8	7.4	-1.9 ⊗
23	31.0	14.5	43.0	46.1	23.0	43.4	20.2	11.6	7.8	2.6	6.5	1.3
24	27.9	14.5	43.7	44.8	22.3	43.5	20.9	11.4	7.6	2.5	5.9	1.4
25	26.9	15.4	44.3	43.5	21.6	43.4	21.7	11.3	7.2	2.4	5.3	1.9
26	25.9	16.8	44.9	42.2	21.0	43.1	22.8	11.3	6.6	2.4	5.0	2.6
27	25.8	18.7	45.6	40.5	20.5	42.4	23.7	11.2	6.1	2.4	4.6	3.5
28	26.8	19.6	46.0	38.7	20.1	41.4	24.4	10.9	5.6	3.2	4.5	3.6
29	28.5	—	46.4	36.8	19.7	39.8	24.6	10.8	5.1	3.7	4.4	3.9
30	30.0	—	46.9	35.4	19.4	37.7	24.8	10.8	4.7	4.1	4.4	3.9
31	31.3	—	47.2	—	19.4	—	24.9	10.6	—	5.2	—	3.9
High	35.5	34.1	47.2	49.9	33.9	43.5	35.4	24.9	10.3	5.7	14.2	4.6
Low	8.9	14.5	22.5	35.4	19.4	19.8	20.2	10.6	4.7	2.4	4.4	-1.9
Mean	28.5	23.7	37.6	46.7	27.6	37.1	24.2	15.2	8.0	3.9	9.2	2.6
SUM	884.6	662.8	1164.1	1401.4	856.5	1112.6	751.5	471.9	239.5	121.1	275.7	80.2

Remarks: ⊗ Below zero on account of frozen upper river. -J.R. Van Frank.

— = Highest — = Lowest

RIVER STAGES

Mississippi River Gauge at Helena for the calendar year 1938

Zero elevation 141.81 feet above Mean ~~Gulf~~ Sea Level

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	2.8	12.5	37.4	29.4	32.5	29.1	16.3	7.8	7.5	6.1	4.1	10.9
2	1.9	15.6	37.4	28.3	32.7	28.2	16.8	7.8	7.7	5.9	4.6	11.0
3	0.8	16.8	37.5	27.3	33.0	27.3	17.8	7.9	7.6	5.8	5.0	11.6
4	-0.1	18.1	37.5	26.1	33.2	26.7	19.0	8.4	7.4	5.7	5.4	12.0
5	-0.7	19.2	37.3	26.7	33.3	26.5	20.2	8.9	7.0	5.7	5.7	12.2
6	-1.1	23.4	36.9	27.4	33.1	26.9	20.5	9.0	6.8	5.4	5.4	12.6
7	-0.6	29.2	36.4	26.3	32.5	27.4	21.0	9.1	6.6	5.1	10.0	12.7
8	-0.6	30.8	35.6	26.2	31.7	27.9	21.4	9.2	6.9	4.7	12.8	12.7
9	0.7	30.0	34.8	26.2	30.7	28.0	21.6	9.3	7.4	4.9	15.0	12.2
10	1.1	29.4	33.9	26.3	29.3	27.6	21.5	8.8	10.2	4.2	16.5	12.0
11	1.2	29.4	33.1	26.2	27.9	27.0	20.6	8.5	11.9	3.7	17.5	11.5
12	0.6	30.6	32.1	26.2	26.5	26.5	19.8	8.0	12.7	3.7	18.0	10.5
13	-0.6	32.1	31.4	26.1	25.2	25.5	19.8	7.4	13.0	3.1	18.2	8.7
14		33.1	30.4	26.4	24.0	24.7	18.5	6.8	12.5	3.0	17.0	8.6
15	-0.4	33.3	29.7	26.6	23.7	24.3	17.8	6.4	12.0	2.6	16.0	9.0
16	-0.4	34.6	28.9	27.3	26.1	24.3	17.4	6.2	11.8	2.3	15.2	9.2
17	0.2	35.1	28.2	27.8	27.6	24.3	17.0	6.0	11.0	2.1	14.5	10.0
18	0.9	35.5	27.5	27.9	28.8	24.0	16.5	5.9	10.1	1.7	14.0	11.5
19	1.7	35.5	27.1	28.4	30.1	23.7	15.8	5.9	9.0	1.7	13.0	13.6
20	3.0	35.5	26.9	28.7	31.2	23.2	15.0	5.8	8.0	1.7	12.5	15.6
21	5.4	35.5	27.5	29.0	32.2	22.7	14.0	5.5	8.0	1.7	12.0	19.3
22	7.2	35.5	27.5	29.2	32.8	22.3	13.0	5.3	7.5	1.8	10.6	21.5
23		35.8	28.4	29.4	33.1	21.5	12.6	5.0	7.0	2.0	10.0	23.0
24	9.2	36.0	29.1	30.2	33.2	20.1	11.7	4.9	6.7	2.4	10.2	24.5
25	9.8	36.4	29.9	31.1	33.1	20.4	10.7	4.8	6.6	2.8	10.6	25.5
26	10.2	36.6	30.5	31.5	33.1	20.4	10.1	4.7	6.4	2.8	10.8	26.5
27	10.9	36.9	30.9	31.5	32.1	18.2	9.5	5.4	6.3	3.6	10.8	27.0
28	11.5	37.1	31.2	31.7	31.5	18.2	9.1	5.6	7.0	3.9	10.8	27.3
29	11.4	—	31.3	31.8	31.0	17.7	8.8	6.0	6.6	4.0	10.8	27.6
30	11.2	—	31.0	32.1	30.5	16.9	8.5	6.7	6.7	4.0	10.7	27.7
31	—	—	30.0	—	29.9	—	8.2	7.3	—	3.8	—	28.0
High	11.5	37.1	37.5	32.1	33.3	29.1	21.6	9.3	13.0	6.1	18.2	28.0
Low	-1.1	12.5	26.9	26.1	23.7	16.9	8.2	4.7	6.3	1.7	4.1	8.6
Mean	3.3	30.3	31.8	28.3	30.5	24.3	15.8	6.9	8.5	3.6	11.6	16.3
SUM	95.3	849.5	987.3	849.3	945.6	729.3	490.5	214.3	255.9	111.9	347.7	506.0

Remarks:

"Elevation 146.00 at mouth of St. Francis River, approximately water line corresponding to zero of Helena gage." J. R. Van Frank.

— = Highest — = Lowest

Mississippi River.—Helena, Ark., 1916.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	38.8	49.6	41.1	27.9	36.2	27.3	35.3	27.3	15.3	6.0	6.0	5.0
2	39.4	50.0	40.2	30.3	35.5	28.0	35.0	26.2	14.0	6.1	6.7	5.0
3	40.0	50.3	39.0	32.6	34.6	29.5	34.5	24.8	12.9	6.2	7.4	5.0
4	40.6	50.8	38.2	34.5	33.7	30.7	33.8	23.5	11.9	6.2	7.9	5.0
5	41.0	51.3	37.2	36.2	32.7	31.7	32.5	22.3	11.2	6.1	8.0	5.0
6	41.6	51.8	36.8	37.3	31.8	32.5	31.2	21.2	10.7	6.0	7.8	5.1
7	42.1	52.3	36.3	38.2	31.5	32.8	29.8	20.0	10.2	5.8	7.3	5.2
8	42.5	52.6	35.9	39.1	31.4	32.9	28.7	19.1	9.8	5.7	6.8	5.3
9	43.0	53.0	35.7	39.8	31.7	32.8	27.8	18.0	9.4	5.6	6.4	5.4
10	43.7	53.2	35.6	40.5	32.0	32.5	26.8	17.2	9.1	5.5	6.0	5.7
11	44.2	**53.40**	35.3	41.0	32.2	32.3	25.9	16.4	8.8	5.3	5.7	6.0
12	44.8	**53.40**	35.0	41.5	32.2	32.4	25.3	15.9	8.6	5.1	5.5	6.5
13	45.4	53.2	34.7	42.0	31.9	33.0	25.2	15.5	8.3	5.1	5.2	7.0
14	45.8	53.0	34.4	42.4	31.5	33.5	25.6	15.3	8.0	5.0	5.0	7.4
15	46.2	52.5	34.0	42.6	30.9	34.1	26.5	15.0	7.8	5.0	4.8	7.8
16	46.5	52.2	33.5	42.7	30.4	34.6	27.4	15.0	7.8	5.0	4.6	8.0
17	46.8	51.9	33.1	42.6	30.0	35.0	28.5	15.4	7.7	5.0	4.6	8.2
18	47.1	51.2	32.5	42.4	29.7	35.2	29.2	16.2	7.4	4.9	4.6	8.1
19	47.4	50.7	32.3	42.0	29.7	35.3	30.1	17.6	7.0	4.8	4.6	7.7
20	47.8	50.0	32.1	41.4	29.7	35.3	30.8	19.5	6.8	4.8	4.7	7.2
21	48.1	49.3	32.3	40.8	30.2	35.0	31.1	21.0	6.6	4.6	4.7	6.5
22	48.6	48.8	32.3	40.0	30.5	34.6	31.1	22.0	6.6	4.5	4.7	5.9
23	48.9	48.0	32.0	39.3	30.8	34.1	31.1	22.3	6.5	4.4	4.8	5.1
24	48.9	47.1	31.5	38.4	30.9	33.7	30.7	22.4	6.4	4.3	4.8	4.7
25	48.9	46.1	31.2	37.8	30.9	33.5	30.0	22.0	6.3	4.2	4.8	4.1
26	48.8	45.0	30.8	37.4	30.6	33.6	29.3	21.4	6.1	4.4	4.7	3.7
27	48.8	44.0	30.0	37.3	30.1	34.0	28.8	20.8	6.0	4.4	4.7	*3.10
28	48.9	43.0	29.2	37.2	29.4	34.6	28.5	20.0	5.8	4.4	4.8	3.4
29	49.0	42.1	28.2	37.0	28.5	35.0	28.6	19.0	5.8	4.4	4.9	3.9
30	49.1		27.5	36.7	27.7	35.3	28.6	17.7	5.9	4.6	5.0	4.5
31	49.4		27.2		27.3		28.1	16.5		5.2		6.2

* 4 p. m.

Mississippi River.—Sunflower Landing, Miss., 1916.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	37.4	48.5	41.8	28.0	36.6	27.4	35.1	27.3	16.4	7.3	6.5	5.7
2	38.2	48.8	41.0	29.6	36.2	27.6	35.0	26.4	15.4	7.3	7.2	5.7
3	38.8	49.0	40.2	31.8	35.5	28.6	34.8	25.3	14.5	7.5	8.0	5.7
4	39.4	49.3	39.5	33.5	34.7	29.6	34.3	24.1	13.6	7.5	8.5	5.7
5	39.9	49.7	38.7	34.6	33.8	30.5	33.5	22.9	12.7	7.5	8.7	5.7
6	40.4	50.2	38.0	35.6	33.0	31.4	32.5	21.8	12.1	7.3	8.7	5.7
7	40.9	50.7	37.4	36.6	32.4	31.7	31.4	20.6	11.6	7.2	8.4	5.8
8	41.4	51.0	37.0	37.4	32.1	31.9	30.4	19.6	11.4	7.1	7.9	5.9
9	41.8	51.4	36.6	38.3	32.1	31.9	29.3	18.8	11.0	6.9	7.5	6.1
10	42.3	**51.60**	36.4	39.0	32.3	31.9	28.3	18.0	10.7	6.9	7.0	6.2
11	42.8	51.4	36.1	39.6	32.4	31.8	27.3	17.3	10.4	6.7	6.7	6.4
12	43.2	51.4	35.8	40.1	32.4	31.8	26.4	16.7	10.1	6.6	6.4	6.8
13	43.8	51.3	35.4	40.6	32.2	32.2	26.0	16.4	9.9	6.4	6.2	7.3
14	44.2	51.1	35.0	41.0	31.9	32.6	26.0	16.0	9.7	6.2	6.0	7.8
15	44.4	50.8	34.6	41.2	31.4	33.4	26.4	15.8	9.5	6.2	5.8	8.2
16	44.8	50.4	34.2	41.4	31.0	33.8	27.1	15.8	9.3	6.2	5.5	8.5
17	45.1	50.0	33.7	41.5	30.5	34.2	27.8	15.8	9.1	6.2	5.4	8.7
18	45.5	49.6	33.3	41.4	30.0	34.5	28.4	16.4	8.9	6.2	5.4	8.8
19	45.8	49.2	32.8	41.2	29.8	34.7	29.0	17.4	8.6	6.2	5.4	8.5
20	46.1	48.6	32.6	40.9	29.8	34.8	29.6	18.8	8.3	6.1	5.4	8.1

Mississippi River.—Helena, Ark., 1915.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	18.6	29.8	35.2	20.0	16.9	25.0	36.1	35.4	37.4	23.1	15.8	28.1
2	20.7	29.8	34.8	19.8	16.4	27.4	36.2	34.8	36.6	22.4	15.5	27.4
3	22.1	30.0	34.5	19.4	15.7	29.6	36.2	34.0	35.6	21.8	15.1	26.6
4	23.0	31.2	34.4	19.1	15.1	31.6	36.0	33.3	34.5	21.5	14.6	25.7
5	23.7	33.0	34.2	19.1	14.5	33.1	35.7	32.4	33.1	21.4	14.2	24.7
6	24.0	34.2	33.8	19.1	13.7	34.3	35.3	31.4	31.0	21.8	13.6	23.7
7	24.5	35.5	33.2	19.1	14.1	35.3	34.8	30.6	29.3	22.7	13.0	22.4
8	24.8	36.6	32.3	19.1	14.3	36.1	34.1	30.1	27.4	23.9	12.5	21.2
9	24.7	37.6	31.6	18.9	14.7	36.7	33.4	30.0	25.6	25.0	11.8	20.0
10	24.2	38.4	31.1	18.8	15.1	37.1	32.9	30.1	23.9	26.3	11.2	18.7
11	23.4	39.2	30.6	18.5	15.5	37.4	32.4	30.4	22.4	27.7	10.7	17.8
12	22.0	40.0	30.3	18.2	16.1	37.7	32.1	30.4	21.5	28.8	10.3	17.0
13	20.5	40.6	30.0	17.8	16.5	37.9	31.8	30.4	20.6	29.3	10.0	16.3
14	19.3	41.4	29.7	17.4	16.9	38.0	31.6	30.4	20.2	29.4	**9.83**	15.8
15	18.5	42.0	29.4	17.1	17.4	38.0	31.6	30.4	20.5	28.8	9.9	15.5
16	18.4	42.4	28.9	17.2	17.7	37.6	32.0	30.4	21.5	27.7	10.0	15.3
17	18.9	42.9	28.2	18.0	17.7	37.2	32.6	30.6	23.3	26.3	9.9	15.2
18	20.3	43.2	27.3	19.0	17.5	36.8	33.2	30.6	24.8	24.8	10.0	15.6
19	22.0	43.4	26.2	20.0	17.1	36.2	33.9	30.6	25.4	22.9	11.0	16.1
20	23.8	**43.55**	25.1	20.8	16.3	35.6	34.5	30.6	25.6	20.9	13.1	17.8
21	25.1	43.4	23.9	21.3	15.6	35.0	35.1	30.1	25.6	19.5	15.4	21.0
22	26.0	43.1	22.8	21.6	14.8	34.5	35.5	29.6	25.6	18.3	18.1	24.6
23	26.9	42.6	21.9	21.6	14.3	33.9	35.8	29.6	25.6	17.4	20.5	28.0
24	27.4	41.6	21.3	21.3	13.8	33.4	36.0	30.9	25.4	16.6	23.0	30.7
25	27.9	40.3	20.9	20.7	13.6	33.4	36.1	32.4	25.1	16.0	25.2	32.4
26	28.2	38.9	20.5	19.9	13.8	33.6	36.1	33.8	24.9	15.5	26.9	33.7
27	28.6	37.4	20.2	19.1	14.7	34.2	36.1	35.3	24.8	15.4	28.0	34.7
28	29.0	36.0	20.1	18.4	16.6	34.9	36.0	36.4	24.6	15.8	28.6	35.7
29	29.4		20.2	17.9	18.8	35.5	35.9	37.1	24.2	16.1	28.8	36.7
30	29.5		20.0	17.5	20.8	35.8	35.8	37.6	23.7	16.3	28.6	37.4
31	29.6		20.1		22.8		35.6	37.7		16.1		38.0

Mississippi River.—Sunflower Landing, Miss., 1915.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	18.1	29.2	36.7	21.2	19.0	25.1	36.2	35.2	37.4	25.1	17.1	28.3
2	20.4	29.4	36.1	21.0	18.7	27.4	36.4	35.0	37.2	24.4	16.8	27.9
3	21.8	29.5	35.7	20.8	18.2	29.5	36.6	34.5	36.6	23.8	16.4	27.2
4	22.8	30.2	35.5	20.4	17.7	31.5	36.6	33.9	35.8	23.3	16.0	26.4
5	23.5	31.8	35.4	20.2	17.1	33.0	36.5	32.9	34.8	23.1	15.5	25.6
6	23.9	33.2	35.0	20.2	16.6	34.3	36.2	32.0	33.5	23.1	15.0	24.7
7	24.4	34.3	34.6	20.2	16.4	35.2	35.9	31.2	32.1	23.5	14.5	23.6
8	24.6	35.2	34.2	20.0	16.4	36.0	35.4	30.6	30.6	24.3	13.9	22.4
9	24.6	36.0	33.7	19.9	16.6	36.6	35.0	30.3	29.0	25.1	13.3	21.2
10	24.5	36.6	33.3	19.8	16.8	37.0	34.5	30.2	27.5	26.1	12.8	20.2
11	24.0	37.4	33.0	19.6	17.0	37.4	34.1	30.2	25.9	27.2	12.2	19.2
12	23.0	38.1	32.6	19.3	17.6	37.8	33.8	30.2	24.5	28.2	11.9	18.3
13	21.6	38.8	32.4	19.0	18.0	38.0	33.3	30.2	23.4	29.0	11.6	17.6
14	20.4	39.6	32.1	18.6	18.4	38.2	33.0	30.2	22.7	29.2	**11.36**	17.0
15	19.4	40.2	31.8	18.4	18.8	38.4	32.8	30.2	22.4	29.0	**11.36**	16.6
16	19.0	40.8	31.4	18.4	19.0	38.2	32.9	30.2	22.8	28.2	**11.36**	16.2
17	19.3	41.2	30.9	18.9	19.0	38.0	33.1	30.3	24.1	27.1	**11.36**	16.2
18	20.2	41.5	30.2	19.8	18.9	37.6	33.5	30.4	25.4	25.8	11.36	16.3

RIVER STAGES

Mississippi River Gauge at HELENA for the calendar year 1914

Zero elevation ..... feet above .....

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	7.8	7.1	29.4	26.9	30.2	18.1	16.5	10.5	3.8	12.0	10.6	1.1
2	7.8	7.4	29.4	27.1	29.8	17.5	16.3	10.5	3.9	10.3	9.8	1.1
3	7.8	8.0	29.4	27.8	29.9	15.5	16.0	9.4	4.1	9.8	8.3	1.2
4	8.7	9.1	28.9	28.9	29.8	14.5	15.5	8.8	4.7	9.3	7.4	1.3
5	9.7	10.5	28.4	30.2	28.6	13.5	14.8	7.9	5.4	8.8	6.7	1.4
6	10.6	12.1	27.6	31.6	27.9	13.0	14.4	7.3	6.3	8.3	6.1	1.5
7	11.6	14.3	26.7	33.3	27.0	12.7	13.8	7.3	6.4	7.6	5.0	1.6
8	11.7	17.0	26.6	34.9	27.5	12.6	13.3	6.8	6.9	6.9	4.9	1.7
9	13.1	19.3	24.8	35.9	26.5	12.6	13.0	6.5	7.2	7.0	4.4	2.0
10	12.9	21.0	23.5	36.8	26.9	12.5	13.0	6.1	7.7	5.6	4.2	2.3
11	12.3	22.0	23.4	37.4	27.4	12.8	13.2	5.9	7.9	5.1	4.0	3.7
12	11.6	22.7	21.5	37.9	27.5	13.0	13.4	5.8	7.8	4.8	3.3	3.5
13	10.7	23.2	21.0	38.4	27.3	13.1	13.6	5.6	7.8	4.8	3.0	5.6
14	10.0	23.4	20.6	38.9	27.0	13.1	13.8	5.3	7.3	5.2	3.3	8.1
15	8.8	23.3	20.6	39.2	26.7	13.1	14.9	5.0	7.3	6.5	3.3	10.3
16	8.5	22.8	20.9	39.4	26.3	13.0	14.1	4.9	8.2	8.3	3.3	12.1
17	8.1	21.9	21.6	39.5	26.0	12.9	14.1	4.8	9.0	10.5	3.1	13.1
18	7.8	20.6	22.3	39.4	25.6	12.8	14.0	4.5	9.6	12.2	3.0	13.7
19	7.6	19.5	23.1	39.4	26.0	12.6	13.7	4.1	9.7	13.8	2.7	13.7
20	7.6	18.2	23.8	39.2	25.5	12.5	13.0	3.9	9.6	14.4	2.5	13.1
21	7.8	17.2	24.6	38.9	25.2	12.9	12.4	3.9	9.1	14.7	2.3	12.3
22	8.6	17.3	25.1	38.6	24.7	13.3	12.0	3.8	8.9	15.0	1.9	11.3
23	9.1	18.0	25.6	38.2	24.6	14.0	12.0	3.7	9.5	15.3	1.9	10.4
24	9.6	20.9	26.7	37.8	23.5	15.0	12.2	3.0	10.9	15.8	1.8	9.9
25	9.8	23.4	25.5	37.3	23.2	16.1	12.4	2.9	12.4	16.3	1.7	9.1
26	9.5	25.8	25.4	36.5	23.0	17.0	12.4	2.7	13.4	16.4	1.4	8.9
27	9.0	27.5	25.4	36.5	22.4	17.3	12.7	2.7	13.4	16.4	1.4	9.3
28	8.4	28.7	25.8	34.5	21.9	17.0	12.7	2.7	13.4	15.5	1.4	9.7
29	7.8	—	26.0	33.5	21.3	16.9	12.2	2.8	12.6	14.5	1.3	10.9
30	7.3	—	26.4	32.7	20.5	16.6	11.8	3.0	12.8	13.2	1.2	13.0
31	7.2	—	26.6	—	19.0	—	11.1	3.7	—	12.8	—	16.0
High	13.1	28.7	29.4	39.5	30.2	18.1	16.5	10.5	13.4	16.4	10.6	16.0
Low	7.2	7.1	20.6	26.9	19.0	12.5	11.1	2.7	3.8	4.8	1.2	1.1
Mean	9.3	18.7	25.0	35.6	25.8	14.3	13.5	5.3	8.6	10.9	3.8	7.5
Sum	288.8	522.2	775.6	1066.6	798.7	427.5	418.3	165.8	257.0	337.1	115.2	232.9

Remarks: The missing stages have been filled in but in doing this it is found that in ~~all~~ some cases your stages entered on this form do not correspond with our records as it appears that there has been a mistake in copying the stages for some of the months.

— : Highest — : Lowest

Mississippi RIVER. Helena, ARK., ~~1910~~ 1913.

Zero Elevation ..... feet above mean tide water in the Gulf of Mexico. 1913

JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	INDEX
6.0	48.0	21.3	42.6	48.9	S 22.1	14.0	13.3	5.8 ~~5.7~~	3.0	4.5	20.2	1
6.0	S 48.3	S 21.4	43.6	47.0	23.3	14.0	12.9	5.7	2.7	4.5	21.0	2
5.9	48.5	22.0	44.9	44.7	24.6	14.0	12.5	5.6	2.4	4.5	16.4	3
6.0	48.8	22.4	46.5	S 42.0	25.5	15.2 M ~~14.0~~	12.0	5.4	2.3	4.5	15.3	4
S 6.2	48.9	25.2	47.9	39.8	26.2	14.4	11.5	5.4	2.3	4.7	13.9	5
6.3	49.0	27.0	S 49.3	38.7	26.6	15.2 M ~~14.4~~	10.8	4.9	2.4	4.8	13.6	6
7.0	48.9	28.4	50.4	37.3	26.9	14.0	10.0	4.7 ~~4.6~~	2.5	4.8	12.5	7
9.0	48.9	29.4	51.8	33.2	S 26.9	13.8	9.4	4.7	2.8	5.0	11.6	8
11.5	S 48.8	S 30.2	52.4	30.8	26.9	13.2	8.9	4.7	3.0	5.4	11.2	9
13.5	48.7	30.6	53.4	29.4	26.8	13.2	8.6	4.5	3.2	5.7	11.1	10
19.0	48.4	30.7	53.7	S 28.0	26.6	13.8	8.3	4.4	3.4	7.1	11.1	11
S 24.4	48.0	30.3	53.7	26.7	26.5	13.0	8.0	4.0	3.4	8.0	11.4	12
28.4	47.5	29.4	S 53.8	25.0	25.7	14.0 M ~~13.3~~	7.7	3.8	3.3	7.9	11.3	13
31.5	46.7	28.2	53.8	25.2	25.0	13.6	7.5	3.7	3.1	7.3	11.4	14
34.0	45.3	27.0	53.9	25.4	24.8	13.6	7.2	3.6	3.0	7.0	11.7	15
35.7	S 43.8	S 25.5	54.0	25.2	23.3	13.6	6.9	3.9	2.8	6.4	12.2	16
37.0	41.9	24.7	54.2	24.6	22.7	13.4	6.8	4.3	2.7	6.0	12.7	17
38.0	39.7	24.4	54.4	S 23.6	22.3	13.4	6.6	4.3	2.6	5.5	12.8	18
S 39.0	37.4	25.2	54.7	22.5	21.8	13.2	6.4	3.9	2.5	5.1	12.8	19
39.9	35.2	26.9	S 55.0	21.4	21.4	13.0 ~~13.0~~	6.1	3.6	2.4	4.7	12.7	20
40.7	33.3	29.2	55.1	20.3	20.7	12.9 ~~13.6~~	5.8	3.4	2.6	4.7	12.6	21
41.5	30.8	30.9	55.2	19.4	20.1	12.8 ~~13.6~~	5.5	3.2	2.6	4.4	12.5	22
42.4	S 28.0	S 32.7	55.1	19.6	19.4	12.6 ~~13.6~~	5.5	3.6	3.0	7.6	12.1	23
43.3	26.2	34.1	54.9	19.4	18.8	12.6 ~~13.4~~	5.8	3.0	3.3	7.2	11.9	24
43.9	24.5	35.3	54.4	19.4	18.0	11.5 ~~13.4~~	6.0	3.4	3.4	7.7	11.2	25
S 44.6	22.6	36.4	54.0	19.7	17.2	11.5 ~~13.7~~	6.2	3.5	3.4	8.0	10.8	26
45.3	22.0	37.5	S 53.4	19.8	16.5	13.5 ~~12.0~~	6.2	3.5	3.4	17.0	10.0	27
46.0	21.7	38.5	52.5	19.9	16.4	13.7 ~~11.8~~	6.0	3.5	3.4	14.7	9.5	28
46.6		39.4	51.5	19.9	15.5	13.7 ~~11.6~~	6.0	3.5	4.0	17.2	8.9	29
47.1		S 40.5	50.4	20.0	14.4	13.7	6.0	3.1	4.2	18.9	8.2	30
47.6		41.4		20.8		13.7	5.9		4.3		8.8	31
Observer:						OFFICIAL.						Ave for 12 Mos.
5.9	21.7	21.3	42.6	19.4	14.4	11.5	5.5	3.0	2.3	4.4	8.2	13.3
47.6	49.0	41.4	55.2	48.9	26.9		13.3	5.8	4.3	18.9	20.2	

LITTLE ROCK, ARK

CAPTAIN U. S. CORPS OF ENGINEERS.

Check the above by [illegible] & put in averages from [illegible] & [illegible] month [illegible]

Memphis [illegible]

MISSISSIPPI RIVER. HELENA ARK., ~~189~~ 1912

Zero Elevation ..... feet above mean tide water in the Gulf of Mexico.

JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	INDEX
34.2	27.2	28.8	47.9	50.6	35.0	22.7	19.8	16.5	12.6	8.2	8.0	
34.6	27.3	31.4	48.9	50.0	33.9	22.4	20.0	16.7	12.4	8.0	7.5	
35.1	27.3	33.4	49.8	49.5	32.6	21.9	20.6	16.7	12.8	7.8	7.0	
35.5	27.4	34.8	50.6	49.1	31.0	21.5	21.0	16.5	12.7	7.7	6.6	
36.1	27.4	36.2	51.5	48.8	29.6	21.0	21.7	16.2	12.4	7.9	6.6	
36.6	27.4	37.1	52.2	48.5	28.4	20.6	22.0	15.7	12.0	8.4	6.3	
36.8	27.1	37.9	52.8	48.5	28.0	20.3	21.8	15.4	11.6	9.0	6.2	
37.1	26.7	38.0	52.6	48.6	27.0	20.0	21.4	15.1	11.5	9.5	6.2	
37.2	26.1	39.4	52.2	48.7	26.0	20.2	20.5	14.9	11.4	10.6	6.1	
37.1	25.5	39.5	52.2	48.8	25.0	20.8	19.5	14.7	11.3	11.0	6.0	
36.7	24.5	40.2	52.4	49.0	24.5	22.1	18.3	14.3	11.2	11.5	6.6	
35.9	23.5	39.9	52.7	49.0	23.9	23.0	17.9	13.9	11.0	11.2	7.0	
34.4	21.3	39.9	53.2	49.0	23.4	23.8	15.8	13.5	10.7	11.0	7.3	
31.6	19.5	39.4	53.5	48.9	22.8	24.2	15.3	13.5	10.2	11.3	8.0	
30.5	18.1	39.4	53.7	48.8	22.2	24.3	14.6	14.0	9.8	11.0	10.0	
25.2	16.3	39.0	53.8	48.7	21.6	24.2	14.4	14.6	9.5	10.6	11.0	
22.6	14.8	37.7	54.0	48.4	21.1	23.8	14.4	15.0	8.4	10.2	11.6	
19.8	14.0	38.0	54.1	48.0	20.5	23.4	14.4	15.2	8.0	9.6	11.9	
18.0	13.4	37.4	54.1	47.5	20.0	23.0	14.3	14.9	7.9	9.0	11.5	
16.7	11.9	37.4	54.2	47.1	19.6	22.7	14.0	14.5	7.7	8.7	11.0	
15.9	11.6	37.7	54.3	46.5	21.3	22.5	13.8	14.0	7.6	8.4	10.0	
15.1	11.5	38.2	54.3	45.8	23.0	22.4	13.3	13.9	8.0	8.7	10.2	
15.3	11.7	38.9	54.2	44.9	24.4	22.3	13.7	13.6	8.4	9.1	9.7	
16.0	12.0	39.8	53.8	44.0	25.6	22.0	13.9	13.3	9.0	9.8	9.3	
17.2	13.5	41.0	53.4	43.0	26.2	21.5	13.8	13.0	9.2	9.6	8.8	
19.0	15.2	42.0	53.0	42.1	26.0	21.0	13.7	12.9	9.1	9.6	8.3	
21.0	18.3	42.9	52.8	41.0	25.6	20.4	13.6	12.9	9.0	9.5	7.6	
23.1	21.7	43.0	52.3	40.0	24.2	20.0	13.8	12.6	9.0	9.0	7.7	
25.0		44.8	51.9	38.8	23.2	19.7	14.3		8.7	9.0	6.5	
26.4		45.8	51.3	37.6	22.4	19.7	15.0	12.6	8.6	8.7	6.0	
27.0		46.8		36.4		19.6	16.0		8.4		6.5	
27.5	20.1	38.9	52.6	46.0	25.3	21.8	16.7	14.5	10.0	9.5	8.2	
13.1	11.6	28.8	47.9	36.4	19.6	19.6	13.3	12.6	7.6	7.7	(6.0)	
37.2	27.4	46.8	(54.3)	50.6	35.0	24.3	22.0	16.7	12.8	11.5	11.9	

OFFICIAL

1 = Highest

LITTLE ROCK, ARK

CAPTAIN U. S. CORPS OF ENGINEERS.

Mississippi RIVER. Helena ARK., ~~189~~ 1911

Zero Elevation ..... feet above mean tide water in the Gulf of Mexico.

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	INDEX
1	4.6	21.8	33.2	15.8	44.1	12.0	10.8	7.1	7.3	17.7	22.9	18.7	
2	5.1	21.8	33.0	16.0	43.4	11.8	11.2	6.9	7.1	17.8	22.4	18.6	
3	6.2	21.9	33.3	16.0	42.3	11.2	11.8	6.9	6.8	17.6	21.8	18.4	
4	7.5	22.2	33.0	17.4	41.0	10.7	--	6.9	6.5	17.1	20.9	18.0	
5	9.4	23.1	32.2	17.5	40.0	10.4	11.1	6.9	6.5	16.8	19.8	17.9	
6	12.5	23.9	31.6	18.0	38.2	10.0	11.5	6.7	6.2	16.8	18.7	17.4	
7	15.0	25.2	30.5	18.2	38.5	9.6	11.5	6.7	6.0	17.4	17.6	16.8	
8	19.0	26.6	29.2	18.3	38.2	9.3	11.5	6.8	5.8	18.0	16.6	16.0	
9	21.6	27.7	27.7	20.0	37.9	9.1	11.3	6.8	5.3	19.0	15.7	15.4	
10	23.8	29.0	26.0	23.0	37.7	9.0	10.9	6.8	5.0	20.0	15.0	14.6	
11	25.4	30.0	24.4	26.6	37.4	9.0	10.4	6.8	5.0	20.6	14.5	14.2	
12	26.7	31.1	23.0	29.5	37.0	9.0	10.0	6.5	5.7	21.4	14.0	13.7	
13	27.5	31.8	22.5	31.9	36.3	9.6	9.7	6.5	7.0	22.2	13.8	13.2	
14	28.0	32.0	23.0	33.8	35.1	9.8	9.5	6.5	8.5	22.7	13.7	12.7	
15	27.7	33.5	24.7	35.6	33.0	9.9	9.3	6.5	9.6	23.0	13.9	12.2	
16	27.0	34.0	26.7	37.0	31.6	9.8	8.9	6.5	10.2	23.0	14.1	12.4	
17	25.7	34.5	28.5	37.9	29.5	9.6	8.4	6.2	10.3	22.8	14.5	12.5	
18	24.0	34.7	29.7	38.8	27.1	9.3	8.7	6.0	10.1	22.3	14.7	15.9	
19	22.0	34.7	30.7	39.9	24.3	9.1	8.5	5.7	9.7	21.9	15.8	19.8	
20	20.2	34.4	31.6	40.6	22.1	9.2	8.0	5.5	9.5	21.4	16.0	23.7	
21	19.6	34.0	30.7	41.3	20.0	9.3	8.0	5.4	9.6	21.0	16.8	26.7	
22	17.7	33.0	29.1	42.1	18.0	9.2	8.0	5.4	10.4	20.8	17.5	28.5	
23	17.2	32.1	27.4	42.7	16.4	8.9	7.8	5.7	11.1	20.6	18.0	29.8	
24	17.4	30.9	25.4	43.3	14.9	8.7	7.7	6.0	12.2	20.4	18.5	30.2	
25	18.2	30.7	23.5	43.8	13.9	8.7	7.5	6.6	13.0	20.3	18.6	31.2	
26	19.3	31.0	21.8	44.3	12.9	8.8	7.4	7.2	13.7	20.2	18.7	32.0	
27	20.4	32.1	20.4	42.5	12.3	9.0	7.7	7.6	14.5	20.5	18.7	32.2	
28	21.0	32.8	19.0	44.5	11.9	9.8	7.1	7.7	15.7	21.0	18.8	32.6	
29	21.4		17.8	44.4	11.5	10.0	7.1	7.7	16.7	21.7	18.8	32.9	
30	21.7		17.8	44.3	12.0	10.3	7.1	7.5	17.4	22.4	18.8	33.2	
31	21.8		16.4		12.0		7.1	7.4		22.8		33.6	
Mean	19.2	29.7	26.6	32.2	28.7	9.7	9.2	6.6	9.4	20.4	17.3	21.5	
Observer:					OFFICIAL.								
	(4.6)	21.8	16.4	15.8	11.5	8.7	7.1	5.4	5.0	16.8	13.7	12.2	
	28.0	34.7	33.3	(44.5)	44.1	12.0	11.8	7.7	17.4	23.0	22.9	33.6	

( ) = Lowest for year
[ ] = Highest " "

CAPTAIN U. S. CORPS OF ENGINEERS.

Mississippi RIVER. Helena ARK., ~~1910~~ 1910

Zero Elevation ..... feet above mean tide water in the Gulf of Mexico.

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	INC
1	8.0	37.0	32.2	27.5	24.6	30.2	20.9	19.2	9.1	8.0	6.7	3.4	
2	7.4	37.2	33.4	26.7	23.8	30.2	20.6	18.1	8.8	8.2	6.3	3.6	
3	7.1	37.3	34.4	25.8	23.0	30.2	20.1	17.5	8.3	8.4	6.0	3.7	
4	6.7	37.3	35.4	24.6	22.4	30.0	19.8	17.5	7.8	9.0	5.7	3.7	
5	6.6	37.1	36.0	23.8	22.0	29.8	19.6	17.6	7.2	9.5	5.4	4.1	
6	6.5	36.6	36.5	22.9	21.8	29.2	19.6	17.5	6.8	10.0	5.3	4.8	
7	6.9	35.8	36.9	22.0	21.9	28.4	19.6	17.0	6.5	10.6	5.2	5.7	
8	7.4	34.4	37.3	21.4	22.2	27.5	19.9	16.3	6.2	11.7	5.0	6.4	
9	7.7	32.8	37.6	20.8	22.6	26.6	20.2	15.5	6.4	14.4	4.8	6.8	
10	8.0	30.0	38.0	20.4	23.0	25.8	20.8	14.8	7.4	17.6	4.6	7.0	
11	8.3	27.6	38.3	20.0	23.4	24.9	21.4	14.0	10.2	20.2	4.6	6.8	
12	8.9	25.5	38.6	19.7	24.4	24.1	21.8	13.1	13.3	22.6	4.4	6.8	
13	10.4	23.6	38.8	19.6	26.4	23.7	22.2	12.2	15.6	24.1	4.3	7.0	
14	12.9	22.0	39.2	19.9	28.2	24.4	22.6	11.4	16.9	25.0	4.2	7.6	
15	16.3	20.7	39.4	21.0	29.2	26.6	23.1	10.9	17.4	25.0	4.1	8.6	
16	19.6	19.6	39.8	22.2	29.6	29.2	23.8	10.4	17.1	24.3	4.0	9.4	
17	23.3	18.8	40.0	22.3	29.6	31.3	24.2	9.9	16.4	23.4	3.8	9.8	
18	27.0	18.0	40.3	22.7	29.4	32.8	24.4	9.6	15.2	22.1	3.8	9.7	
19	28.9	17.4	40.6	23.8	29.2	33.6	24.6	9.2	14.1	20.6	3.7	9.2	
20	29.8	16.7	40.6	25.3	29.0	34.0	24.8	8.6	13.0	19.2	3.7	8.4	
21	30.4	16.4	40.7	26.7	28.9	33.8	25.3	8.2	12.0	18.0	3.7	7.8	
22	31.2	16.7	40.5	27.5	28.7	33.2	26.4	7.8	11.0	16.7	3.7	7.0	
23	32.0	18.2	40.0	28.0	28.6	31.8	27.8	7.6	10.3	15.6	3.7	6.3	
24	32.9	20.7	39.0	28.0	28.0	30.1	28.9	7.2	9.6	14.6	3.6	5.8	
25	33.8	23.5	37.5	27.8	27.6	28.2	29.3	7.0	9.0	13.5	3.6	5.3	
26	34.6	26.0	35.5	27.6	27.4	26.2	29.0	6.9	8.4	12.3	3.4	4.8	
27	35.3	28.7	33.3	27.2	27.7	24.7	28.0	7.0	7.8	11.0	3.4	4.5	
28	35.8	30.8	31.8	28.4	23.5	26.5		7.3	7.4	10.0	3.3	4.2	
29	36.1		29.2	26.0	29.0	22.5	24.6	7.9	7.4	9.0	3.23	4.1	
30	36.4		28.3	25.4	29.6	21.5	22.7	8.6	7.7	8.2	3.23	4.1	
31	36.7		28.0		30.0		20.8	9.0		7.4		4.3	
	20.4	26.7	36.5	24.2	26.3	28.4	23.3	11.8	10.5	15.2	4.3	6.1	

Observer: ..... OFFICIAL.

..... CAPTAIN U. S CORPS OF ENGINEERS.

...G CO., LITTLE ROCK, ARK

Miss. RIVER. Helena ARK., ~~189~~ 1909

Zero Elevation ..... feet above mean tide water in the Gulf of Mexico.

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	8.4	16.3	38.0	42.7	39.3	32.9	35.1	33.8	16.6	9.3	6.8	14.8
2	8.8	15.2	38.7	40.9	39.6	33.2	34.6	×	15.9	9.1	6.6	14.6
3	9.1	14.5	38.5	39.1	38.8	33.5	34.2	28.6	15.4	8.8	6.5	14.7
4	9.1	14.1	40.1	37.4	39.9	33.8	34.1	25.5	14.8	8.7	6.4	14.6
5	9.1	14.4	40.9	36.0	39.9	33.9	34.0	23.5	14.1	8.7	6.4	14.5
6	9.1	15.0	41.6	34.9	39.8	34.1	34.1	22.2	12.4	8.7	6.3	14.3
7	9.1	15.6	42.3	34.3	39.6	34.2	34.2	21.4	11.9	8.6	6.3	13.9
8	9.1	15.8	43.0	33.8	39.6	34.0	34.2	21.0	11.5	8.5	6.3	13.0
9	9.1	15.6	43.7	33.4	39.8	33.6	34.2	20.7	11.1	8.2	6.4	14.3
10	9.1	15.1	44.3	32.8	39.8	33.1	33.8	20.5	10.9	8.0	6.5	14.1
11	9.0	15.0	44.9	32.2	39.9	33.0	33.5	20.1	10.8	7.6	6.7	15.7
12	8.8	15.0	45.5	31.6	40.1	33.0	33.3	19.8	10.9	7.5	6.8	18.2
13	8.7	15.6	45.9	31.4	40.2	33.1	33.4	19.7	10.9	7.1	6.8	19.8
14	8.6	16.8	46.2	31.5	40.5	33.1	33.6	19.7	10.9	6.8	7.0	21.7
15	8.6	18.0	46.4	31.6	40.8	33.4	34.5	19.6	10.7	6.7	7.3	20.9
16	8.6	19.6	46.6	32.0	41.1	33.9	35.3	19.5	10.5	6.4	8.1	20.5
17	8.3	21.6	46.7	32.6	41.4	34.6	36.4	18.8	10.8	6.0	9.0	20.9
18	8.0	24.2	46.8	33.0	41.6	35.5	37.4	18.5	11.0	5.8	10.3	19.0
19	7.6	27.0	47.0	33.5	41.8	36.1	38.2	17.8	11.2	5.8	11.2	18.0
20	8.0	29.3	47.1	33.8	41.9	36.5	38.9	17.2	11.0	5.8	11.4	17.0
21	9.0	31.2	47.3	33.9	41.7	35.9	39.7	16.3	11.0	5.8	11.1	16.9
22	9.5	32.3	47.5	33.9	41.3	37.2	40.2	15.7	10.8	5.9	11.0	16.5
23	12.0	33.2	47.6	34.1	40.6	37.2	40.8	15.4	10.7	6.2	12.4	16.3
24	13.9	34.2	47.6	34.6	39.7	37.3	41.2	15.5	10.4	6.7	14.5	15.5
25	15.6	34.9	47.7	35.3	38.5	37.1	41.5	16.1	10.0	7.2	16.0	14.8
26	17.3	35.7	47.5	36.0	37.3	36.9	41.6	17.3	9.9	7.6	16.9	13.6
27	18.5	36.5	47.4	36.8	35.7	36.7	41.5	18.1	9.9	7.7	16.9	11.6
28	19.0	37.3	47.1	37.5	34.2	36.4	41.0	18.7	9.9	7.7	16.3	11.6
29	19.0		45.5	38.3	33.0	36.1	40.1	18.5	9.8	7.5	15.7	10.6
30	18.3		45.6	38.8	32.5	35.6	38.5	18.2	9.6	7.2	15.1	9.6
31	17.3		44.2				36.5	17.4		7.1		8.6
	11.1	22.5	44.8	34.9	39.3	34.8	36.8	18.9	11.5	7.4	9.8	15.5

Observer: ..... OFFICIAL.

× No reading. Gage broken.

..... CAPTAIN U. S. CORPS OF ENGINEERS.

NG CO., LITTLE ROCK, ARK

RIVER. Helena ARK., ~~189~~ 1908 → 19

Zero Elevation ..... feet above mean tide water in the Gulf of Mexico.

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	IN:
1	22.0	18.4	42.7	44.1	40.2	41.9	37.0	22.0	12.9	6.5	3.9	5.7	
2	22.2	17.8	43.1	43.8	39.5	41.2	36.7	21.9	12.9	6.3	4.3	5.7	
3	22.3	16.2	43.5	43.5	38.9	40.7	36.5	21.7	12.9	6.1	5.0	5.7	
4	22.5	15.0	43.9	43.2	38.4	40.2	36.1	21.3	12.6	6.0	5.9	5.9	
5	23.5	14.5	44.2	42.9	38.2	40.0	35.5	21.0	12.5	5.8	7.0	6.5	
6	24.4	14.2	44.2	42.6	38.0	39.8	35.1	20.3	12.2	5.7	7.8	7.4	
7	25.3	14.3	44.1	42.2	37.6	39.8	34.7	19.8	12.1	5.5	8.4	8.1	
8	26.0	15.0	44.0	41.8	37.4	39.7	34.3	19.5	12.0	5.3	8.5	8.5	
9	26.2	16.8	43.9	41.6	37.2	39.6	34.0	19.2	11.7	5.1	8.4	8.8	
10	26.5	18.9	43.5	41.4	37.3	39.4	33.8	19.0	11.4	5.0	8.4	9.4	
11	27.2	21.3	43.2	41.2	37.7	39.2	33.4	18.8	11.1	5.0	8.7	9.6	
12	27.4	23.6	43.0	41.2	38.2	39.0	33.3	18.6	11.0	5.0	8.8	9.7	
13	27.4	24.9	42.8	41.4	38.7	38.9	32.9	18.2	10.8	4.9	8.7	9.5	
14	26.9	27.2	42.8	41.6	39.5	38.8	32.4	17.3	10.6	4.9	8.2	9.5	
15	25.5	28.8	42.8	42.1	40.0	38.6	31.7	17.2	10.3	4.8	7.8	9.9	
16	26.1	30.2	42.9	42.5	40.5	38.5	30.8	16.7	9.8	4.8	7.4	10.4	
17	25.5	31.2	43.1	43.0	41.2	38.3	30.3	16.2	9.5	4.7	7.0	10.8	
18	24.8	32.8	43.3	43.4	41.7	38.2	29.5	16.1	9.2	4.5	6.7	10.8	
19	24.0	34.1	43.6	43.8	42.3	38.0	28.9	15.8	8.9	4.4	6.4	10.5	
20	23.4	35.0	44.0	44.2	42.6	37.9	28.2	15.4	8.7	4.4	6.0	9.6	
21	23.0	36.2	44.1	44.4	43.0	37.8	27.5	15.1	8.5	4.3	5.8	9.1	
22	23.1	37.3	44.5	44.6	43.4	37.7	26.6	14.7	8.2	4.2	5.6	8.6	
23	23.5	38.2	44.8	44.6	43.8	37.8	25.6	14.5	8.0	4.0	5.5	7.8	
24	24.1	38.8	45.0	44.4	44.1	37.8	24.9	14.4	7.7	4.3	5.5	7.4	
25	24.3	39.7	45.1	44.2	44.2	37.8	24.6	14.4	7.5	4.4	5.4	7.1	
26	24.3	40.4	45.2	43.8	44.4	37.6	24.1	14.4	7.2	4.4	5.4	7.0	
27	24.0	41.1	45.2	43.4	44.4	37.6	23.9	14.3	7.0	4.3	5.4	6.9	
28	23.2	41.6	45.0	42.6	44.2	37.5	23.5	13.9	6.7	4.0	5.4	6.8	
29	22.1	42.3	44.9	41.8	44.0	37.4	23.0	13.6	6.6	4.0	5.5	6.8	
30	19.8		44.7	41.0	43.5	37.1	22.6	13.2	6.6	3.9	5.7	7.2	
31	19.5		44.4		42.5		22.2	13.0		3.9		7.7	

Observer: ..... OFFICIAL.

TING CO., LITTLE ROCK, ARK.

..... CAPTAIN U. S. CORPS OF ENGINEERS.

Mississippi River.—Mhoon Landing, Miss., 1907.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	26.5	41.2	22.4	37.9	23.6	19.1	28.4	27.5	14.4	7.3	4.5	9.6
2	25.3	41.7	23.6	37.9	23.7	18.5	27.7	27.3	13.8	7.7	4.2	10.0
3	24.6	42.0	24.7	37.8	23.9	18.4	27.0	26.8	13.6	8.2	4.0	10.6
4	25.1	**42.2**	25.8	37.7	24.5	18.7	26.1	26.2	13.5	8.6	3.8	11.6
5	26.9	**42.2**	27.1	37.5	25.4	19.5	25.1	25.4	13.5	8.9	**3.6**	12.3
6	29.4	41.9	28.5	37.1	27.0	20.4	24.1	24.5	13.4	8.7	**3.6**	12.6
7	31.4	41.6	29.6	36.4	28.3	21.8	23.2	23.7	13.1	8.6	3.7	12.3
8	32.7	41.3	30.4	35.5	29.3	23.4	22.3	22.9	12.6	8.8	3.8	11.6
9	33.6	40.9	30.9	33.7	30.5	25.0	21.4	22.1	12.2	8.9	4.0	10.7
10	34.5	40.3	31.5	31.9	31.3	26.2	20.4	21.4	11.9	9.0	4.4	9.8
11	35.0	39.7	31.9	30.4	32.0	27.5	19.8	20.6	11.6	9.1	4.8	8.7
12	35.5	38.8	32.3	28.9	32.7	28.3	19.3	19.8	11.3	9.3	5.0	7.8
13	35.9	37.5	32.4	27.5	33.3	28.9	19.0	18.9	10.8	9.4	5.7	7.0
14	36.2	36.0	32.5	26.4	33.8	29.4	18.7	18.2	10.3	9.5	6.1	6.3
15	36.4	33.9	32.4	25.7	34.1	29.8	18.4	17.5	9.9	9.7	6.8	5.9
16	36.5	31.5	32.2	25.6	34.2	30.2	18.3	16.8	9.5	9.7	7.5	5.5
17	36.5	29.1	32.5	25.8	34.2	30.7	18.3	16.1	9.2	9.6	8.2	5.3
18	36.5	26.8	32.9	25.9	34.2	31.2	18.6	15.4	8.9	9.5	8.7	5.5
19	36.5	24.6	33.4	26.0	34.1	31.7	19.3	14.8	8.6	9.5	9.2	5.9
20	36.4	22.9	34.0	25.7	34.1	32.1	20.0	14.3	8.6	9.5	10.1	6.4
21	36.4	21.4	34.5	25.3	34.1	32.3	20.7	14.1	8.7	9.5	11.1	7.1
22	36.5	20.3	34.9	24.5	34.0	32.3	21.8	14.1	9.0	9.4	11.8	8.3
23	36.6	19.4	35.4	23.9	33.7	32.3	22.9	14.2	8.9	9.1	12.1	9.7
24	36.8	18.8	35.8	23.5	33.0	32.2	23.8	14.4	8.8	8.4	11.9	11.5
25	37.1	18.4	36.2	23.2	32.0	32.1	24.5	14.7	8.4	8.0	11.4	12.9
26	37.6	18.4	36.6	23.0	30.6	31.9	25.0	14.8	8.1	7.4	10.7	14.1
27	38.2	19.4	36.9	22.9	28.7	31.5	25.6	15.1	7.6	6.9	10.1	15.1
28	38.7	20.8	37.1	22.9	26.2	30.8	26.1	15.2	7.2	6.3	9.8	16.0
29	39.2		37.4	22.9	23.8	30.1	26.5	15.2	7.0	5.7	9.5	16.8
30	39.7		37.6	23.4	21.6	29.2	27.0	15.1	7.1	5.3	9.5	17.5
31	40.3		37.8		20.2		27.3	14.9		4.8		18.1

Mississippi River.—Helena, Ark., 1907.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	32.6	48.7	27.0	45.0	28.9	25.8	34.6	32.2	19.2	12.2	9.9	13.8
2	31.4	49.3	28.4	45.2	28.9	24.8	33.9	32.2	18.8	12.4	9.6	14.0
3	30.6	49.9	29.5	45.3	29.0	24.4	33.1	31.8	18.4	12.8	9.4	14.4
4	30.8	50.2	30.6	45.2	29.4	24.4	32.1	31.4	18.2	13.3	9.2	15.1
5	32.0	50.4	31.8	45.2	30.2	24.8	31.2	30.7	18.2	13.6	9.0	15.9
6	34.1	**50.39**	33.2	44.8	31.5	25.6	30.1	29.8	18.1	13.5	**9.00**	16.4
7	36.2	50.3	34.4	44.3	33.2	26.8	29.3	29.1	17.8	13.4	**9.00**	16.4
8	37.6	50.0	35.3	43.4	34.5	28.4	28.1	28.2	17.4	13.5	9.0	16.0
9	38.7	49.7	36.0	42.0	35.5	29.8	27.2	27.4	17.1	13.6	9.1	15.2
10	39.6	49.2	36.6	40.4	36.5	31.2	26.2	26.6	16.7	13.6	9.4	14.4
11	40.4	48.8	37.2	38.6	37.4	32.4	25.2	25.8	16.6	13.8	9.6	13.4
12	41.2	48.0	37.6	36.6	38.1	33.2	24.6	24.9	16.2	13.8	9.9	12.7
13	41.8	47.0	38.0	34.8	38.8	34.0	24.1	24.0	15.8	14.0	10.3	11.8
14	42.4	45.6	38.2	33.3	39.4	34.6	23.7	23.2	15.3	14.1	10.8	11.3
15	42.7	43.6	38.4	32.4	40.0	35.0	23.4	22.5	14.9	14.2	11.3	10.8
16	43.0	41.5	38.4	31.6	40.4	35.4	23.2	21.8	14.6	14.2	11.8	10.5
17	43.2	38.8	38.4	31.5	40.6	35.8	23.1	21.1	14.2	14.2	12.4	10.2
18	43.4	36.2	38.6	31.5	40.6	36.4	23.2	20.5	14.0	14.2	13.0	10.2
19	43.4	33.6	39.0	31.5	40.7	36.8	23.6	19.8	13.7	14.0	13.4	10.4
20	43.4	31.0	39.6	31.4	40.7	37.3	24.4	19.2	13.6	14.0	14.0	10.8
21	43.4	29.0	40.2	30.8	40.7	37.6	25.1	19.0	13.6	14.1	15.0	11.4
22	43.4	27.2	40.7	30.4	40.7	37.9	26.1	18.8	13.9	14.0	15.7	12.2
23	43.6	26.0	41.2	29.6	40.6	38.0	27.3	18.8	13.8	13.8	16.0	13.4
24	43.8	25.0	41.8	29.0	40.2	38.0	28.2	19.0	13.8	13.4	16.0	14.6
25	44.0	24.3	42.3	28.5	39.6	37.9	29.0	19.2	13.5	13.0	15.6	16.0
26	44.4	24.0	42.7	28.2	38.3	37.8	29.4	19.4	13.1	12.4	15.1	17.4
27	44.9	24.4	43.2	28.1	36.6	37.5	30.0	19.6	12.7	12.0	14.6	18.3
28	45.5	25.4	43.6	28.0	34.4	37.0	30.5	19.7	12.4	11.5	14.2	19.3
29	46.2		44.0	28.0	32.2	36.3	31.0	19.8	12.2	11.0	13.8	20.1
30	46.9		44.4	28.8	29.2	35.4	31.6	19.8	12.2	10.6	13.8	21.0
31	47.8		44.8		27.3		32.0	19.6		10.2		21.6

Mahoon Landing, Miss 1906

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	20.5	30.6	13.0	31.5	29.7	9.9	16.6	15.9	12.6	11.7	7.0	32.4
2	20.4	30.6	15.7	32.6	28.2	9.8	16.0	15.6	12.9	12.5	7.5	32.2
3	20.0	30.5	18.1	33.5	26.8	10.0	15.7	15.1	13.1	13.5	7.8	31.7
4	19.8	30.3	19.8	34.4	25.5	10.2	15.8	14.1	13.0	14.7	7.5	30.7
5	19.6	30.1	21.5	35.1	24.6	10.5	15.8	13.1	12.7	16.3	7.2	29.4
6	19.5	29.7	22.7	35.7	23.7	10.9	15.8	12.4	12.4	17.1	6.9	27.5
7	19.6	28.9	23.9	36.2	22.9	11.3	15.7	11.5	11.9	18.1	6.6	25.4
8	20.0	27.8	24.8	36.7	22.5	12.0	15.8	11.0	11.4	19.0	6.3	23.0
9	21.4	26.3	25.7	37.2	22.2	12.5	15.4	10.6	11.1	19.7	6.0	20.6
10	23.2	24.3	26.5	37.5	22.0	13.0	15.1	10.4	10.6	20.3	5.8	18.8
11	24.7	22.1	27.2	38.0	22.1	13.6	14.6	10.4	10.5	20.5	5.7	16.9
12	25.7	20.0	27.7	38.3	22.3	14.3	14.2	10.4	10.4	20.5	5.4	15.6
13	26.1	17.8	27.9	38.6	22.1	15.0	13.7	10.3	10.2	20.3	5.2	14.9
14	26.0	15.9	27.7	38.9	21.7	15.6	13.3	9.9	10.1	19.6	**5.1**	14.6
15	25.6	14.1	27.3	39.1	21.0	16.0	12.8	9.7	10.1	18.9	5.2	14.6
16	24.9	12.7	26.5	**39.3**	20.4	16.1	12.1	9.7	10.2	17.8	5.3	15.2
17	24.1	11.5	25.7	**39.3**	19.8	15.7	11.8	9.9	10.4	16.5	5.5	16.1
18	23.0	10.7	25.0	**39.3**	19.4	15.5	11.8	10.2	10.5	15.4	7.0	17.8
19	22.0	10.2	24.4	39.0	18.9	15.2	11.8	10.5	10.4	13.6	8.2	19.9
20	21.1	9.7	24.2	38.9	18.3	15.0	11.7	11.0	10.1	12.6	11.0	21.8
21	20.1	9.5	24.1	38.7	17.5	15.0	11.6	11.3	9.3	11.3	13.9	23.8
22	20.6	9.3	24.0	38.2	16.5	15.0	11.8	11.6	8.9	10.3	18.1	25.3
23	21.3	9.1	24.2	37.7	15.4	15.1	12.4	12.0	*8.2	9.7	22.3	26.7
24	22.5	9.0	24.5	37.1	14.5	15.3	12.8	12.6	7.5	9.0	26.2	27.6
25	24.7	9.0	25.2	36.4	13.6	15.9	13.2	13.2	*7.2	8.6	28.3	28.2
26	26.6	9.2	26.0	35.6	12.8	16.5	13.5	13.5	*7.0	8.3	29.8	28.7
27	27.9	9.7	27.0	34.7	12.1	17.1	13.7	13.6	6.9	7.9	30.8	29.0
28	29.0	10.9	27.8	33.7	11.6	17.5	14.0	13.2	8.0	7.7	31.5	29.0
29	29.9		28.6	32.6	10.9	17.6	14.3	12.8	9.3	7.4	32.1	28.8
30	30.4		29.4	31.1	10.5	17.3	15.1	12.5	10.5	7.0	32.3	28.4
31	30.7		30.4		10.1		15.6	12.4		6.9		27.6

* Corrected by hydrographs.

Mississippi River.—Helena, Ark., 1906.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	25.0	35.9	17.0	36.0	38.1	15.2	21.5	20.4	17.0	16.2	11.7	37.2
2	24.9	36.0	19.2	37.1	36.5	15.2	20.9	20.4	17.4	16.9	12.0	37.2
3	24.8	36.0	21.6	38.1	34.9	15.1	20.4	20.0	17.6	17.7	12.2	37.0
4	24.6	36.0	23.4	39.1	33.4	15.2	20.3	19.2	17.6	18.9	12.2	36.4
5	24.4	35.8	25.2	40.0	32.2	15.4	20.3	18.2	17.4	20.2	12.0	35.4
6	24.2	35.6	26.6	40.9	30.8	15.7	20.3	17.4	17.0	21.4	11.6	34.0
7	24.3	35.0	27.6	41.7	29.8	16.0	20.3	16.5	16.6	22.3	11.4	31.9
8	24.6	34.2	28.8	42.4	29.0	16.6	20.2	15.9	16.2	23.2	11.0	29.7
9	25.4	33.0	29.6	43.1	28.6	17.2	20.0	15.5	15.8	24.1	10.8	27.2
10	27.2	30.9	30.5	43.8	28.3	17.7	19.8	15.2	15.5	24.6	10.6	25.2
11	28.9	29.0	31.3	44.2	28.2	18.2	19.4	15.1	15.2	24.9	10.3	23.2
12	29.9	26.7	31.9	44.8	28.2	18.8	19.0	15.1	15.0	25.1	10.2	21.5
13	30.6	24.4	32.2	45.3	28.2	19.6	18.4	15.0	14.9	24.9	10.1	20.4
14	30.7	22.2	32.4	46.0	27.7	20.2	18.1	14.8	14.7	24.4	10.0	19.8
15	30.6	20.3	32.2	46.4	27.0	20.6	17.4	14.4	14.6	23.8	9.9	19.8
16	30.0	18.9	31.6	46.7	26.3	20.8	16.9	14.4	14.6	22.9	* **9.82**	20.0
17	29.2	17.4	31.0	46.8	25.7	20.7	16.6	14.4	14.8	21.3	10.4	21.0
18	28.4	16.5	30.2	47.0	25.0	20.4	16.4	14.7	15.0	20.4	11.6	22.7
19	27.4	15.8	29.7	**47.05**	24.6	20.1	16.4	15.0	14.9	19.0	12.8	24.1
20	26.4	15.4	29.2	47.0	23.9	19.9	16.4	15.4	14.8	17.6	14.6	26.1
21	25.4	15.0	29.0	46.8	23.1	19.8	16.3	15.8	14.4	16.4	18.0	28.0
22	25.9	14.8	28.9	46.5	22.4	19.6	16.4	16.0	13.8	15.4	21.5	29.6
23	26.5	14.5	28.8	46.0	21.2	19.7	16.7	16.4	13.1	14.6	25.4	31.1
24	27.4	14.4	29.0	45.5	20.2	19.9	17.2	16.8	12.4	14.0	29.4	32.2
25	29.1	14.3	29.6	44.8	19.2	20.4	17.6	17.4	11.9	13.6	32.0	33.0
26	31.0	14.3	30.2	44.0	18.2	21.0	18.0	18.0	11.8	13.2	33.8	33.5
27	32.5	14.6	31.4	43.0	17.5	21.5	18.2	18.3	11.7	12.8	35.0	33.9
28	33.6	15.4	32.2	42.2	16.8	22.0	18.5	18.0	12.4	12.6	35.8	34.1
29	34.6		33.0	41.0	16.2	22.2	18.9	17.6	13.6	12.3	36.5	34.1
30	35.3		34.0	39.6	15.8	22.0	19.4	17.2	15.0	11.8	37.0	34.0
31	35.7		35.0		15.3		20.0	17.0		11.7		33.5

* 4:00 p. m.

Mississippi River.—Helena, Ark., 1905.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	5.7	10.3	20.9	31.8	21.2	36.8	27.0	25.0	22.0	25.4	20.0	11.8
2	7.8	9.3	22.3	32.4	21.8	35.8	27.7	24.3	21.4	23.6	20.8	11.9
3	9.4	8.3	23.9	33.2	22.5	34.5	28.5	23.6	20.4	21.6	21.0	12.6
4	10.1	7.3	26.2	33.8	23.4	33.0	‡ 29.4	23.1	19.2	19.6	20.8	13.6
5	10.6	6.6	28.2	34.2	24.5	31.2	‡ 30.2	23.1	17.9	17.9	20.4	15.4
6	11.0	6.2	29.3	34.4	25.5	29.6	‡ 30.6	23.2	16.6	16.4	19.8	18.2
7	10.8	5.4	29.8	34.4	26.4	28.2	31.0	23.4	15.5	15.2	19.1	21.0
8	10.4	4.8	30.0	34.1	27.1	27.3	31.2	23.4	14.8	14.1	18.3	23.2
9	10.2	4.5	30.5	33.6	27.8	26.7	31.4	23.0	14.3	13.3	17.5	24.8
10	10.2	* 4.38	30.9	32.8	28.6	26.3	31.4	22.4	13.9	12.6	17.0	26.0
11	10.4	4.5	31.0	31.5	29.0	25.8	31.4	21.8	13.6	12.0	16.6	26.8
12	10.6	5.0	31.0	30.1	28.9	25.2	31.1	20.7	13.4	11.4	16.4	27.3
13	10.8	6.4	31.4	28.5	28.6	24.5	30.6	19.7	13.0	10.8	16.3	27.7
14	10.6	8.7	32.0	27.0	28.3	23.7	30.2	19.0	12.6	10.2	16.1	27.9
15	10.2	11.5	32.8	25.6	27.4	22.8	29.8	18.6	12.3	9.7	15.8	28.0
16	10.2	14.1	33.7	24.2	26.4	22.2	29.5	18.4	12.1	9.4	15.5	27.6
17	10.8	16.0	34.6	23.6	25.4	21.8	29.4	18.3	12.2	9.2	15.2	26.8
18	11.8	17.2	35.3	22.6	25.3	21.8	29.6	18.1	12.6	9.2	14.8	25.8
19	13.0	18.0	36.0	22.3	26.2	22.1	30.0	17.8	12.8	9.5	14.5	24.7
20	13.8	18.2	36.4	22.1	28.3	22.4	30.2	17.8	12.8	9.7	14.0	23.5
21	14.5	18.2	36.8	22.2	30.6	22.6	30.2	17.7	13.5	9.5	13.6	22.4
22	14.9	17.9	37.0	22.2	32.4	22.8	29.4	17.5	16.4	9.4	13.0	21.3
23	15.0	17.4	37.0	22.3	33.9	22.8	29.0	17.7	20.8	10.7	12.6	20.4
24	15.2	16.9	36.6	22.1	35.0	22.9	28.6	18.0	24.2	12.6	12.4	19.8
25	15.4	16.4	35.9	22.0	35.9	23.0	28.3	18.2	26.2	15.4	12.5	19.5
26	15.4	16.6	34.7	21.8	36.7	23.2	28.0	18.4	27.6	16.6	12.6	19.8
27	[illegible]	17.4	33.2	21.4	37.2	23.6	27.4	18.8	28.2	17.3	12.8	20.4
28	[illegible]	19.2	31.7	21.0	37.6	24.0	26.6	19.6	28.4	17.7	12.6	21.7
29	13.2	[illegible]	30.8	20.8	* 37.7	25.0	26.2	21.1	28.0	18.0	12.2	23.2
30	[illegible]		30.7	20.8	37.8	26.0	25.8	22.0	27.0	18.4	12.0	24.3
31	[illegible]		31.2		37.6		[illegible]	[illegible]		19.1		24.9

Mississippi River.—Sunflower Landing, Miss., 1905.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	6.0	12.0	21.1	31.9	22.2	37.2	26.7	25.6	22.5	26.2	20.1	12.7
			[illegible]	[illegible]	[illegible]	36.7	27.3	25.0	22.0	24.6	21.0	12.5

Mississippi River.—Helena, Ark., 1904.

Day.	January.	February	March.	April.	May.	June.	July	August.	September	October	November.	December.
1	8.4	26.0	19.4	39.4	38.4	22.0	24.8	19.4	11.8	9.3	5.8	4.4
2	8.8	26.6	19.7	40.2	38.8	22.1	24.2	18.4	11.6	9.5	6.0	4.3
3	8.8	27.0	19.9	41.0	39.2	22.6	23.8	17.3	11.0	9.6	6.2	4.2
4	8.8	27.2	20.0	41.8	39.6	23.5	24.1	16.4	10.3	10.0	6.5	4.0
5	9.0	27.4	20.0	42.4	40.0	25.7	24.7	15.6	9.7	10.2	6.8	3.9
6	9.2	27.2	20.2	43.0	40.5	27.2	25.0	14.8	9.2	10.4	6.9	3.8
7	9.3	26.7	20.5	43.8	41.0	28.8	24.9	14.2	8.8	10.5	7.0	3.8
8	9.2	25.6	20.8	44.7	41.3	30.0	24.6	13.6	8.4	10.3	7.1	3.6
9	9.0	24.0	21.0	45.4	41.6	30.9	24.4	13.2	8.2	10.0	7.0	3.6
10	8.7	22.4	21.4	46.2	41.8	31.9	24.3	12.8	8.1	9.6	7.0	3.5
11	8.2	20.6	22.4	46.8	41.9	32.8	24.1	12.4	8.1	9.2	6.8	3.4
12	8.0	19.1	24.0	47.2	41.9	33.4	24.1	12.0	8.0	8.6	6.7	3.4
13	7.7	18.0	26.0	47.4	41.6	34.0	24.4	11.6	7.8	8.1	6.6	3.4
14	7.4	17.8	27.9	47.6	41.2	34.2	25.8	11.2	7.6	7.6	6.5	3.4
15	7.1	18.0	29.5	**47.62**	40.4	34.2	27.3	10.8	7.4	7.4	6.4	3.5
16	6.7	18.8	30.9	47.6	39.7	33.9	28.6	10.5	7.2	7.0	6.3	3.8
17	6.2	19.4	32.1	47.5	38.6	33.3	29.4	10.2	7.1	6.8	6.3	4.0
18	6.0	20.0	33.0	47.3	37.3	32.4	29.8	10.1	7.0	6.5	6.2	4.1
19	5.6	20.8	33.8	47.0	35.6	31.6	29.8	10.0	7.0	6.3	6.2	4.0
20	5.5	21.6	34.3	46.8	33.8	30.6	29.7	10.0	6.8	6.2	6.1	3.8
21	5.4	22.3	34.6	46.2	31.8	29.8	29.2	10.0	6.7	5.9	6.1	3.5
22	6.0	22.6	34.8	45.5	30.1	29.4	28.5	10.0	6.7	5.7	6.0	3.1
23	6.3	22.2	35.0	44.4	28.8	29.0	27.8	10.1	7.0	5.6	5.8	2.7
24	7.0	21.6	34.8	43.4	27.8	28.6	27.0	10.2	8.0	5.5	5.6	2.5
25	7.6	20.8	34.4	42.3	26.8	28.2	26.4	10.6	8.8	5.4	5.4	2.4
26	9.4	20.0	34.4	41.0	26.0	27.8	25.6	11.0	9.6	5.4	5.2	**2.30**
27	12.4	19.4	34.4	39.8	25.2	27.6	24.4	11.4	10.0	5.4	5.0	3.0
28	17.0	19.0	35.0	38.9	24.2	27.2	23.4	11.6	10.0	5.3	4.9	3.7
29	21.2	19.0	36.2	38.4	23.4	26.6	22.3	11.8	9.7	5.4	4.7	3.8
30	23.7		37.4	38.3	22.8	25.7	21.4	11.9	9.4	5.4	4.6	4.2
31	25.0		38.4		22.4		20.4	11.9		5.6		4.6

Mississippi River.—Mhoon Landing, Miss., 1903.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	33.2	13.5	37.6	40.3	37.3	20.3	23.7	15.6	9.6	10.0	9.3	? 3.9
2	32.6	14.7	37.7	39.8	37.2	21.2	22.5	15.0	9.4	9.9	9.2	? 3.9
3	31.7	? 15.7	37.8	39.3	36.9	21.8	21.0	14.5	9.4	9.8	9.1	? 4.1
4	30.3	17.0	37.8	38.8	36.2	22.8	19.7	13.9	9.7	9.9	8.9	? 4.3
5	28.6	18.3	37.9	38.2	35.4	24.8	19.0	13.3	10.1	9.9	8.6	? 4.2
6	27.2	19.4	37.9	37.6	34.0	26.7	18.7	12.8	10.9	10.0	8.5	? 3.8
7	25.8	20.7	37.8	36.9	31.7	28.4	18.4	12.3	11.8	9.9	8.2	? 3.2
8	24.8	23.0	37.8	36.4	29.3	29.9	18.1	11.8	12.5	10.0	8.0	? 2.6
9	24.3	25.9	37.8	35.6	27.7	31.2	17.6	11.5	12.7	9.9	7.7	? 2.0
10	24.2	28.3	38.0	35.0	26.6	32.4	17.0	11.4	12.4	10.1	7.5	? 1.4
11	24.2	30.1	38.2	34.3	23.5	33.3	16.4	11.3	12.0	10.4	7.4	? 0.9
12	24.4	31.1	38.5	33.9	21.8	33.9	16.0	11.6	11.6	10.8	7.6	? 0.4
13	24.6	32.1	38.8	33.7	20.4	34.5	15.7	12.3	11.6	11.4	7.8	?—0.1
14	24.6	32.9	39.0	33.6	19.5	35.0	15.6	13.0	11.7	12.2	7.9	?—0.3
15	24.4	33.5	39.7	33.4	18.8	35.4	15.5	13.4	11.8	13.2	7.7	?—0.7
16	24.1	34.1	40.3	33.5	18.0	35.7	15.1	13.7	12.2	13.9	7.5	?—1.1
17	23.3	34.8	40.8	33.8	17.2	36.0	14.7	13.6	12.9	14.1	7.2	?—1.5
18	22.3	35.3	40.9	34.1	16.5	36.2	14.3	13.4	13.6	14.0	6.8	?—2.0
19	21.0	35.8	41.1	34.6	15.9	36.3	14.1	13.2	14.1	13.9	6.2	?—2.7
20	20.0	36.1	41.4	35.0	15.8	36.3	14.2	12.9	14.4	13.5	5.9	?—2.9
21	18.7	36.5	41.5	35.4	16.3	36.3	14.6	12.8	14.6	13.0	5.5	?—3.2
22	17.9	36.7	41.6	35.7	17.1	36.1	15.4	12.5	14.5	12.6	? 5.3	?—3.6
23	17.6	36.9	41.7	36.1	18.0	35.6	16.1	12.3	14.3	12.0	? 5.0	?—**3.7**
24	17.0	37.0	41.8	36.3	18.5	34.8	16.3	12.3	14.0	11.6	? 4.8	?—3.4
25	16.3	37.0	**41.81**	36.6	18.6	33.4	16.0	12.3	13.8	11.3	? 4.6	?—2.5
26	15.6	37.1	41.8	36.8	18.3	32.0	15.7	12.3	13.2	11.1	? 4.6	?—1.0
27	15.1	37.3	41.6	37.0	17.8	30.2	15.3	12.1	12.5	10.8	? 4.6	? 0.5
28	14.6	37.5	41.5	37.2	17.6	28.3	14.9	11.6	11.9	10.5	? 4.6	? 1.6
29	14.0		41.3	37.2	17.3	26.6	14.9	11.1	11.3	10.2	? 4.6	? 2.2
30	13.7		41.0	37.4	17.9	25.0	15.2	10.6	10.5	9.9	? 4.3	? 2.8
31	13.3		40.7		19.2		15.5	10.0		9.6		3.3

Mississippi River.—Helena, Ark., 1903.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	38.8	16.8	43.8	49.8	44.3	25.8	30.8	20.8	14.9	15.1	14.1	9.0
2	38.6	17.4	44.0	49.4	44.3	26.8	29.1	20.5	14.6	14.8	13.9	8.8
3	37.9	18.9	44.1	48.8	44.2	27.4	27.7	20.0	14.4	14.7	13.8	8.9
4	37.0	20.6	44.2	48.3	43.8	28.2	26.3	19.5	14.6	14.7	13.6	9.1
5	35.8	22.1	44.4	47.7	43.0	29.6	25.2	18.9	14.8	14.7	13.5	9.2
6	34.4	23.1	44.5	47.0	41.8	31.5	24.4	18.4	15.3	14.8	13.3	8.8
7	32.8	24.4	44.5	46.2	40.2	33.0	24.0	17.9	16.0	14.8	13.2	8.6
8	31.4	26.4	44.6	45.4	38.3	34.7	23.7	17.4	16.8	14.8	12.9	8.0
9	30.4	29.0	44.6	44.6	36.2	36.1	23.3	17.0	17.3	14.8	12.7	7.6
10	29.8	31.6	44.9	43.8	34.6	37.3	22.8	16.6	17.3	14.8	12.5	7.0
11	29.7	33.6	45.2	43.2	31.8	38.2	22.2	16.4	17.0	15.0	12.4	6.6
12	29.8	34.9	45.4	42.6	29.2	39.1	21.7	16.4	16.6	15.3	12.4	6.2
13	29.8	36.0	45.7	42.2	27.5	39.9	21.4	16.9	16.4	15.8	12.5	5.8
14	29.8	37.0	46.0	41.7	26.3	40.6	21.0	17.6	16.4	16.4	12.6	5.6
15	29.8	37.8	46.6	41.4	25.4	41.2	21.0	18.1	16.5	17.4	12.6	5.2
16	29.4	38.7	47.2	41.2	24.5	41.6	20.7	18.5	16.7	18.2	12.4	5.0
17	29.0	39.5	47.9	41.2	23.7	42.0	20.2	18.5	17.2	18.6	12.2	4.6
18	28.0	40.7	48.4	41.3	22.8	42.4	19.8	18.4	18.0	18.7	11.8	[illegible]
19	27.0	41.4	48.9	41.6	22.3	42.6	19.5	18.2	18.5	18.5	11.4	[illegible]
20	25.5	41.8	49.4	41.8	22.0	42.8	19.4	18.1	18.8	18.2	11.0	[illegible]
21	24.1	41.9	49.7	42.1	21.8	42.9	19.7	17.9	19.1	17.9	10.6	[illegible]
22	22.9	42.2	50.0	42.4	22.7	42.9	20.3	17.6	19.2	17.4	10.2	3.0
23	21.8	42.5	50.4	42.7	23.4	42.6	21.0	17.5	19.0	16.9	9.9	* **2.80**
24	21.0	42.8	50.7	43.0	24.0	42.0	21.3	17.4	18.8	16.4	9.6	2.9
25	20.2	43.0	50.9	43.3	24.2	41.2	21.4	17.4	18.6	16.0	9.4	3.4
26	19.5	43.2	**51.00**	43.6	24.2	40.0	21.0	17.4	18.2	15.8	9.4	4.0
27	18.8	43.4	**51.00**	43.8	23.8	38.4	20.6	17.3	17.7	15.6	9.4	5.3
28	18.3	43.6	50.9	43.9	23.4	36.4	20.3	17.0	17.0	15.3	9.4	6.4
29	17.8		50.8	44.1	23.2	34.5	20.0	16.5	16.2	15.0	9.4	7.0
30	17.4		50.6	44.2	23.5	32.5	20.3	15.9	15.6	14.7	9.2	7.6
31	17.0		50.2		24.4		20.6	15.4		14.4		8.0

* 4 p. m.

Mississippi River.—Mhoon Landing, Miss., 1902.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	13.9	11.2	6.4	27.4	15.3	14.3	14.2	22.5	13.1	3.3	9.7	8.3
2	12.7	13.9	8.3	27.3	13.7	16.2	14.4	22.2	13.4	4.6	8.7	9.6
3	12.0	17.0	10.3	27.8	13.2	17.2	15.3	21.4	13.8	6.3	7.7	11.3
4	12.6	20.0	12.6	28.7	13.5	17.7	16.6	21.1	14.0	7.9	6.8	12.5
5	14.1	22.5	15.2	29.7	14.2	17.8	18.3	20.5	14.1	9.0	5.9	13.7
6	16.3	24.4	18.0	30.7	14.7	17.7	20.5	19.8	13.7	9.6	5.2	14.8
7	18.6	25.9	20.7	31.4	15.3	17.6	22.2	18.9	13.2	10.3	4.7	15.7
8	20.8	27.0	22.2	32.0	16.0	17.6	23.6	18.0	13.0	10.9	4.1	16.3
9	22.2	27.7	25.3	32.4	16.5	17.4	24.5	17.2	12.8	11.4	3.6	17.1
10	23.2	28.2	26.8	32.7	16.6	17.1	25.0	16.5	13.0	11.9	3.1	18.0
11	23.6	28.5	28.2	32.9	16.1	16.6	25.1	16.3	12.8	12.4	2.9	18.8
12	23.6	28.5	29.3	32.9	15.2	15.9	25.0	16.1	12.4	13.2	3.0	19.2
13	23.2	27.9	30.3	32.8	13.8	15.3	24.8	15.6	11.2	13.7	3.1	19.4
14	22.3	26.7	31.1	32.2	12.5	14.6	24.5	15.4	10.0	14.2	3.4	19.4
15	20.9	24.6	31.8	31.1	11.9	14.5	24.2	15.0	9.1	14.1	3.8	19.6
16	18.8	22.2	32.4	29.5	11.6	14.5	23.8	14.4	8.1	13.6	4.1	20.5
17	16.3	19.3	32.9	27.4	11.5	14.6	23.6	13.9	7.3	13.1	4.2	21.2
18	13.5	16.5	33.3	25.2	11.5	14.8	23.5	13.4	6.7	12.3	4.1	23.7
19	10.8	14.0	33.6	23.4	11.4	15.4	23.5	12.9	6.0	11.5	3.8	26.2
20	8.4	11.3	34.0	22.3	11.2	15.6	23.4	12.3	5.2	10.9	3.6	28.1
21	6.6	9.7	34.2	22.0	11.1	15.6	23.4	11.7	4.6	10.4	3.5	29.5
22	5.5	8.4	**34.3**	21.9	10.9	15.4	23.4	10.9	4.3	10.1	3.4	30.5
23	4.5	7.3	34.1	21.9	10.6	15.0	23.6	10.6	3.9	9.9	3.4	31.2
24	4.0	6.5	33.9	21.8	10.6	14.6	23.6	10.5	3.4	9.8	3.9	31.8
25	3.8	5.8	33.4	21.4	10.4	14.2	23.5	10.8	3.0	9.8	4.9	32.3
26	3.8	5.4	32.9	20.8	10.3	13.7	23.2	11.3	2.6	10.0	6.0	32.7
27	4.6	5.4	32.5	19.6	10.0	13.4	23.0	11.9	2.3	10.3	6.7	33.1
28	5.4	5.6	31.6	18.4	9.8	13.3	22.9	12.4	2.0	10.8	7.0	33.4
29	6.0		30.5	17.3	10.0	13.6	22.7	12.6	**1.9**	10.9	7.3	33.7
30	7.6		29.3	16.1	11.4	14.1	22.5	12.8	2.2	10.8	7.6	33.7
31	9.5		28.2		12.5		22.3	12.9		10.4		33.5

Mississippi River.—Helena, Ark., 1902.

Day.	January.	February.	March.	April.	May.	June.	July.	August	September.	October.	November.	December.
1	18.9	14.8	10.6	34.2	20.2	18.4	19.1	27.6	17.0	7.0	14.6	12.2
2	17.4	17.0	11.9	33.6	19.1	20.1	19.1	27.4	17.2	8.1	13.8	13.4
3	16.4	19.8	13.7	33.7	18.5	21.5	19.6	26.9	17.6	9.4	12.8	14.8
4	16.5	22.7	15.8	34.2	18.4	22.2	20.6	26.3	17.8	11.1	11.8	16.2
5	17.6	25.4	18.2	34.9	18.9	22.5	22.0	25.6	18.0	12.4	11.1	17.4
6	19.4	27.6	20.7	35.8	19.4	22.5	24.1	25.0	17.9	13.2	10.4	18.6
7	21.7	29.4	23.5	36.4	19.9	22.4	26.0	24.1	17.4	13.8	9.6	19.4
8	23.8	30.7	26.2	37.2	20.6	22.4	27.6	23.3	17.1	14.5	9.1	20.0
9	25.7	31.8	28.5	37.7	21.0	22.3	28.7	22.3	17.0	15.0	8.6	20.6
10	26.9	32.4	30.4	38.1	21.3	22.0	29.4	21.6	17.0	15.6	8.1	21.6
11	27.6	32.8	32.0	38.4	21.1	21.6	29.8	20.8	17.0	16.1	7.8	22.3
12	27.8	33.0	33.3	38.6	20.5	21.0	29.8	20.3	16.6	16.8	7.7	22.9
13	27.5	32.8	34.3	38.6	19.4	20.4	29.8	19.8	15.9	17.6	7.8	23.1
14	27.0	32.0	35.2	38.4	18.2	19.8	29.6	19.4	15.0	18.4	8.0	23.2
15	26.0	30.6	36.0	37.8	17.0	19.5	29.3	19.0	14.0	18.5	8.4	23.6
16	24.2	28.4	36.8	36.6	16.3	19.4	29.0	18.6	13.0	18.4	8.7	24.4
17	22.0	25.7	37.4	34.9	15.8	19.5	28.7	18.0	12.2	17.8	8.8	25.4
18	19.4	22.6	37.8	32.8	15.6	19.6	28.6	17.6	11.7	17.2	8.9	27.2
19	16.8	19.6	38.3	30.8	15.4	20.0	28.4	17.1	11.0	16.4	8.6	29.7
20	14.1	17.4	38.8	29.0	15.3	20.2	28.4	16.6	10.3	15.8	8.4	31.8
21	12.1	15.4	39.2	28.0	15.1	20.4	28.4	15.9	9.6	15.2	8.3	33.4
22	10.4	13.9	39.5	27.7	15.0	20.2	28.4	15.3	9.2	14.8	8.2	34.4
23	9.2	12.6	**39.58**	27.5	14.8	19.9	28.4	14.8	9.0	14.6	8.0	35.4
24	8.6	11.6	**39.58**	27.3	14.6	19.6	28.6	14.6	8.4	14.4	8.4	36.2
25	8.1	10.9	39.4	27.0	14.5	19.2	28.6	14.6	8.0	14.3	9.2	36.8
26	8.0	10.4	39.0	26.3	14.4	18.9	28.4	15.0	7.4	14.4	10.0	37.2
27	8.2	10.0	38.8	25.2	14.1	18.4	28.2	15.6	7.0	14.7	10.7	37.8
28	9.2	10.0	38.3	24.0	13.8	18.2	28.0	16.1	6.6	15.0	11.2	38.2
29	10.1		37.5	22.8	13.8	18.4	27.7	16.4	* **6.38**	15.4	11.6	38.6
30	11.1		36.4	21.6	14.6	18.9	27.6	16.6	6.4	15.4	11.8	38.8
31	12.9		35.3		16.4		27.4	16.8		15.2		38.9

* 4 p. m.

Mississippi River.—Helena, Ark., 1901.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	10.5	17.4	10.0	29.2	39.5	24.4	23.8	10.1	22.8	12.6	3.7	1.5
2	10.7	16.6	9.4	29.0	39.9	26.0	24.6	9.8	21.8	11.8	3.5	* **1.45**
3	10.9	16.0	9.0	29.1	40.3	27.1	25.5	9.6	20.6	10.8	3.4	1.5
4	11.0	15.4	8.8	29.6	40.6	27.6	26.3	9.2	19.0	10.0	3.3	1.6
5	11.0	15.2	8.6	30.4	40.9	27.7	26.8	9.0	17.4	9.0	3.2	1.8
6	11.0	15.0	8.5	31.4	41.1	27.6	26.8	8.7	15.7	8.4	3.0	2.0
7	11.0	15.2	8.2	32.4	41.3	27.4	26.3	8.6	14.2	8.0	3.0	2.1
8	11.1	15.8	7.9	33.3	**41.45**	27.4	25.4	8.4	13.0	7.3	2.8	2.2
9	11.4	16.9	7.6	34.1	**41.45**	27.6	24.0	8.3	12.1	6.8	2.7	2.3
10	11.5	17.9	7.7	34.6	41.4	27.9	22.4	8.0	11.6	6.2	2.5	2.8
11	11.7	19.0	8.2	35.1	41.2	27.9	20.9	7.8	11.0	5.8	2.4	3.5
12	11.8	19.6	8.7	35.6	40.4	27.6	19.4	7.5	10.7	5.6	2.3	4.2
13	11.6	20.0	9.5	36.0	39.8	27.2	18.3	7.0	10.4	5.5	2.2	4.7
14	11.2	20.0	11.5	36.5	38.0	26.6	17.3	6.7	10.2	5.4	2.1	5.2
15	11.0	19.6	14.8	37.0	35.5	25.8	16.7	6.4	10.3	5.4	2.0	5.7
16	11.4	19.1	19.4	37.3	32.3	25.0	16.2	6.2	10.0	5.7	1.9	6.0
17	12.8	18.7	24.0	37.6	28.7	24.2	15.7	7.0	9.6	6.0	1.9	6.7
18	15.0	18.0	27.0	38.0	25.4	23.6	15.2	7.8	9.0	6.1	2.0	8.5
19	17.4	17.2	29.0	38.0	23.0	23.0	14.7	8.4	8.7	5.8	2.0	10.2
20	19.4	16.3	30.2	38.0	21.0	22.6	14.2	9.1	8.8	5.5	1.9	12.0
21	21.0	15.5	31.0	38.0	19.7	22.3	13.8	10.0	8.9	5.1	1.8	13.6
22	22.3	14.6	31.4	37.8	18.9	21.8	13.4	11.8	9.2	4.8	1.8	15.6
23	23.5	13.8	31.6	37.8	18.4	21.2	13.0	14.2	9.8	4.8	1.8	18.0
24	24.3	13.1	31.7	37.7	18.1	20.6	12.5	16.7	10.6	4.6	1.8	20.2
25	24.7	12.6	31.7	37.7	18.0	20.0	12.0	18.7	11.4	4.6	1.6	22.2
26	24.2	11.9	31.6	37.8	18.2	19.8	11.8	20.0	12.2	4.7	1.6	23.5
27	23.2	11.2	31.4	38.0	18.2	20.0	11.6	21.3	13.0	4.6	1.6	24.2
28	21.8	10.5	31.0	38.4	18.6	21.0	11.3	22.2	13.5	4.5	1.6	24.0
29	20.5		30.7	38.7	19.2	22.0	11.0	23.0	13.6	4.4	1.6	23.2
30	19.4		30.3	39.1	20.4	23.0	10.6	23.2	13.2	4.1	1.5	22.0
31	18.3		29.7		22.2		10.4	23.2		3.9		20.5

* 4 p. m.

Mississippi River.—Helena, Ark., 1900.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	16.0	23.4	30.0	33.8	31.3	15.6	30.0	16.3	8.6	6.3	9.4	26.1
2	15.8	22.8	29.0	33.7	31.0	15.7	31.0	16.5	8.4	6.4	9.5	27.3
3	15.4	21.8	28.2	33.2	30.3	15.8	31.7	16.8	8.4	6.4	9.6	28.3
4	14.6	20.8	27.4	32.4	29.3	16.1	32.2	17.1	8.4	6.4	10.0	29.3
5	13.4	19.3	26.8	31.3	28.2	16.5	32.3	17.4	8.6	6.6	10.4	30.2
6	11.9	17.7	26.3	30.2	27.0	17.2	32.0	17.6	8.9	7.0	10.6	31.0
7	10.5	15.9	26.1	29.0	25.7	18.0	31.4	17.6	9.2	7.4	10.7	31.6
8	9.0	14.3	25.8	28.0	24.5	18.5	30.4	17.4	9.5	8.2	10.6	31.7
9	8.0	13.2	25.8	26.8	23.6	19.5	29.0	16.9	9.8	8.7	10.5	31.5
10	7.2	12.3	26.3	26.2	22.7	20.6	27.5	16.3	9.6	9.2	10.5	30.8
11	6.8	11.8	28.0	26.0	22.0	21.4	25.7	15.5	9.4	9.4	10.5	29.6
12	6.7	12.4	30.2	26.0	21.4	21.9	23.8	14.7	9.2	9.8	10.7	28.0
13	6.6	15.0	32.2	25.9	21.0	22.2	22.0	13.8	8.9	10.0	11.0	26.2
14	6.5	18.6	33.6	25.8	20.6	22.2	20.3	12.8	8.4	10.3	11.0	24.5
15	6.5	21.9	34.8	25.8	20.1	23.1	19.0	11.8	8.0	10.6	11.0	22.9
16	6.6	24.5	35.8	26.1	19.8	23.8	17.6	10.7	7.5	10.6	10.7	21.7
17	6.9	26.2	36.4	26.7	19.4	23.8	16.6	9.8	6.8	10.3	10.4	21.0
18	7.5	27.4	37.0	27.3	19.2	24.0	15.6	8.9	6.3	10.0	10.2	20.4
19	9.2	28.2	37.6	27.8	19.0	25.0	14.8	8.2	5.8	10.0	10.0	19.6
20	11.1	29.0	38.0	28.0	18.4	26.2	14.0	7.6	5.6	9.9	9.8	19.0
21	13.0	30.0	* **38.25**	27.8	17.8	26.8	13.4	6.9	5.5	9.7	10.1	18.0
22	14.1	30.6	38.2	27.4	17.2	26.7	13.0	6.5	5.2	9.5	10.5	16.8
23	15.2	31.1	38.0	27.4	16.6	26.2	12.6	6.2	5.1	9.0	10.8	15.7
24	16.8	31.5	37.6	27.8	16.3	25.4	12.3	6.2	4.9	8.6	11.2	14.5
25	18.7	31.5	36.9	28.5	16.0	24.7	12.1	6.5	4.8	8.4	12.8	13.3
26	20.5	31.5	36.0	29.2	15.9	24.6	12.0	7.2	**4.76**	8.2	15.3	12.1
27	21.9	31.2	35.0	30.0	15.6	25.3	12.1	7.9	5.0	8.3	18.2	11.4
28	22.9	30.6	34.3	30.6	15.4	26.3	13.1	8.3	5.4	8.5	21.0	10.8
29	23.6		33.9	31.0	15.4	27.5	14.0	8.4	5.8	8.8	23.0	10.6
30	23.8		33.7	31.3	15.4	28.8	15.3	8.6	6.2	9.0	24.7	10.4
31	23.8		33.8		15.6		16.0	8.7		9.2		10.4

* 4 p. m.

Mississippi River.—Sunflower Landing, Miss., 1900.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October	November.	December.
1	16.3	23.2	29.8	33.6	31.1	16.3	29.0	16.5	9.7	7.5	10.4	25.4

Mississippi River.—Helena, Ark., 1899.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	20.6	36.0	29.0	45.6	37.0	31.6	23.2	17.8	9.2	4.4	**1.70**	5.4
2	21.5	34.8	30.9	45.8	37.1	31.4	22.8	17.5	8.7	4.2	**1.70**	5.3
3	22.0	33.5	33.0	46.0	37.0	31.0	22.6	17.2	8.4	4.1	1.8	5.2
4	22.1	31.8	34.8	46.2	37.0	30.4	22.4	17.0	7.9	4.0	1.9	5.0
5	22.1	30.0	36.5	46.2	36.8	29.7	22.3	16.8	7.6	3.8	2.0	5.0
6	21.6	28.1	37.5	46.4	36.4	29.0	22.2	16.5	7.3	3.7	2.1	5.0
7	21.0	26.0	38.2	46.6	35.9	28.6	22.0	16.2	7.1	3.6	2.1	4.9
8	20.4	24.0	39.1	46.6	35.0	28.3	22.2	16.0	6.9	3.4	2.0	4.9
9	19.9	22.6	39.6	46.7	33.9	28.2	22.4	15.6	6.6	3.3	2.1	4.8
10	19.7	22.5	40.1	46.7	32.6	28.1	22.8	15.2	6.3	3.2	2.2	4.8
11	20.8	23.8	40.6	46.7	31.4	28.0	23.0	14.8	6.1	3.0	2.3	4.8
12	23.0	25.4	41.0	**46.75**	30.6	28.0	23.1	14.5	5.9	3.0	2.4	4.7
13	25.9	27.4	41.3	**46.75**	29.8	27.8	23.2	14.2	5.6	2.8	2.6	4.7
14	29.0	29.0	41.6	**46.75**	29.8	27.8	23.2	14.4	5.5	2.6	2.8	4.7
15	31.5	30.5	41.9	**46.75**	30.4	27.8	23.1	15.1	5.5	2.4	3.0	4.6
16	33.5	31.5	42.2	46.7	31.4	27.8	23.2	16.1	5.4	2.3	3.1	4.7
17	35.0	32.4	42.4	46.5	32.4	28.0	23.3	16.8	5.4	2.2	3.3	4.9
18	36.2	32.8	42.6	46.3	33.4	28.2	23.1	17.0	5.4	2.2	3.5	5.6
19	36.8	32.9	43.0	46.0	34.2	28.2	22.8	17.0	5.3	2.1	3.8	7.2
20	37.4	32.5	43.2	45.6	34.7	28.0	22.2	16.9	5.2	2.1	4.0	8.6
21	37.8	31.7	43.5	44.8	34.9	27.4	21.6	16.5	5.1	2.1	4.4	9.7
22	38.0	30.5	43.7	43.8	34.7	26.8	21.6	15.8	5.1	2.1	4.9	10.3
23	38.2	29.6	43.9	42.7	34.2	26.4	21.2	15.0	5.0	2.1	5.1	10.6
24	38.5	28.5	44.1	41.2	33.6	26.4	20.7	14.2	5.0	2.1	5.2	10.8
25	38.6	27.8	44.3	39.5	32.6	26.1	20.4	13.4	5.0	2.1	5.2	11.1
26	38.6	27.4	44.5	38.0	31.7	26.0	19.8	12.8	5.1	2.1	5.3	12.6
27	38.4	27.1	44.6	37.0	31.2	25.8	19.2	12.1	5.0	2.0	5.2	14.1
28	38.2	27.6	44.9	36.6	30.9	25.2	18.8	11.6	4.8	2.0	5.1	15.1
29	37.8		45.0	36.5	31.0	24.6	18.6	11.0	4.7	2.0	5.2	15.7
30	37.4		45.2	36.8	31.2	23.8	18.3	10.3	4.6	1.8	5.4	16.0
31	36.8		45.4		31.6		18.0	9.7		1.8		16.1

Mississippi River.—Sunflower Landing, Miss., 1899.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.

Mississippi River.—Helena, Ark., 1898.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	16.4	42.0	25.1	41.6	34.2	36.0	23.3	13.4	14.6	9.3	13.6	15.9
2	16.2	42.2	25.1	42.2	34.0	35.4	23.8	13.8	14.0	10.0	13.9	16.0
3	15.5	42.5	25.0	42.7	33.6	34.8	24.8	14.3	13.8	10.7	14.8	16.0
4	14.6	42.7	24.8	43.2	33.0	34.0	25.7	14.6	13.6	11.4	16.1	15.8
5	13.5	42.8	24.6	43.6	32.1	33.2	26.0	14.9	13.2	12.0	17.0	15.3
6	12.6	42.9	24.3	44.1	31.5	32.4	26.1	15.2	12.5	12.0	17.2	14.4
7	11.6	43.0	23.7	44.6	31.2	31.5	25.8	15.6	11.7	11.5	16.9	13.4
8	10.6	43.0	23.0	45.1	31.5	30.7	25.1	16.3	10.9	10.7	16.1	12.4
9	9.6	42.9	22.0	45.6	32.2	29.9	24.3	17.0	10.0	9.9	15.2	11.7
10	8.6	42.6	21.0	46.2	33.0	29.1	23.3	17.6	9.3	9.2	14.3	11.2
11	7.9	41.8	19.8	46.9	33.5	28.2	22.5	17.8	9.0	8.7	13.4	10.8
12	8.0	40.5	18.6	47.5	33.8	27.2	22.4	17.7	9.7	8.2	12.5	10.7
13	8.6	38.5	17.5	48.0	33.8	26.2	22.9	17.6	11.0	7.8	12.0	10.6
14	9.4	35.5	16.8	48.4	33.7	25.0	23.3	17.9	12.3	8.2	11.8	10.8
15	10.8	31.8	16.5	48.8	33.5	24.0	23.3	19.1	13.4	9.3	12.0	11.0
16	14.2	28.4	17.3	49.0	33.1	23.7	23.0	20.5	13.8	10.3	12.4	11.1
17	19.4	24.5	18.8	49.1	32.6	23.9	22.3	21.5	13.9	10.9	13.2	11.0
18	24.1	21.9	21.2	49.0	31.8	24.5	21.3	22.2	13.4	11.0	14.0	10.7
19	27.6	20.0	24.5	48.9	31.2	25.1	20.2	23.5	12.8	10.7	15.2	10.5
20	30.8	19.1	27.7	48.6	30.6	25.7	19.3	25.0	12.0	10.3	16.4	10.2
21	33.0	18.8	30.0	48.0	30.4	26.4	18.2	26.2	11.4	9.9	17.5	10.0
22	34.7	18.9	32.0	47.0	30.6	27.2	17.2	26.7	11.0	9.3	18.2	9.8
23	36.4	19.3	33.4	45.7	31.3	27.5	16.2	26.6	11.2	8.8	18.7	9.7
24	37.6	20.4	34.6	44.1	31.9	27.5	15.1	26.0	11.4	8.4	18.7	9.9
25	38.5	21.7	35.8	42.4	32.4	27.0	14.4	25.0	11.3	8.4	18.5	10.2
26	39.2	22.9	36.8	40.7	33.5	26.2	13.8	23.7	11.0	8.8	18.0	10.4
27	40.0	24.2	37.8	39.5	34.6	25.2	13.6	22.2	10.4	9.6	17.4	11.0
28	40.4	24.8	38.8	37.6	35.5	24.2	13.2	20.6	9.6	10.8	16.8	12.8
29	40.9		39.6	36.2	36.1	23.4	12.8	18.8	9.1	12.1	16.1	15.0
30	41.4		40.4	35.0	36.4	23.1	12.5	17.1	9.0	13.1	15.8	17.4
31	41.7		41.0		36.3		12.9	15.7		13.6		19.4

Mississippi River.—Sunflower Landing, Miss., 1898.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	16.0	39.8	24.8	40.0	35.8	36.3	23.0	13.0	15.1	9.6	13.8	16.2
2	15.9	40.0	24.8	40.6	35.2	35.9	23.2	13.5	14.3	10.0	13.9	16.3
3	15.5	40.3	24.7	41.1	34.6	35.3	23.9	13.9	13.8	10.7	14.5	16.4
4	14.9	40.4	24.6	41.6	33.9	34.7	24.6	14.2	13.6	11.3	15.6	16.4
5	14.2	40.7	24.4	42.0	33.1	33.8	25.2	14.6	13.3	11.9	16.6	16.0
6	13.2	40.8	24.2	42.4	32.5	33.0	25.4	14.8	12.7	12.3	17.1	15.3
7	12.5	40.9	23.8	42.8	32.0	32.1	25.3	15.2	12.1	12.1	17.0	14.4
8	11.5	41.0	23.2	43.2	32.0	31.3	24.9	15.9	11.4	11.5	16.5	13.5
9	10.6	41.0	22.4	43.5	32.5	30.5	24.3	16.7	10.5	10.7	15.8	12.8
10	9.8	40.9	21.5	43.9	33.1	29.6	23.4	17.4	9.8	10.1	14.9	12.1
11	9.0	40.6	20.2	44.3	33.6	28.8	22.5	17.8	9.3	9.6	14.0	11.6
12	8.8	40.0	19.1	44.7	34.1	27.9	22.1	17.8	9.4	9.1	13.3	11.3
13	9.1	38.9	18.1	45.1	34.3	26.9	22.3	17.7	10.4	8.6	12.6	11.3
14	9.8	37.0	17.1	45.4	34.5	25.7	22.6	17.8	11.6	8.5	12.2	11.3
15	10.8	34.0	16.7	45.7	34.6	24.7	22.7	18.6	12.7	9.2	12.2	11.5
16	13.0	30.7	17.2	45.9	34.5	24.0	22.6	19.8	13.4	10.2	12.5	11.6
17	17.2	27.6	18.7	46.0	34.4	23.8	22.1	20.8	13.7	11.0	13.0	11.6
18	21.9	25.0	20.5	46.0	34.0	24.1	21.4	21.5	13.5	11.3	13.8	11.5
				46.0	33.6	24.6	20.4	22.5	13.2	11.3	14.7	11.3
								23.8	12.6	11.1	15.8	11.0

Mississippi River.—Mhoon Landing, Miss., 1897.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	6.9	15.4	29.2	40.8	36.9	18.3	14.8	13.1	1.8	—5.7	—7.4	—2.2
2	6.3	14.0	30.3	41.0	36.4	17.2	15.6	14.3	1.6	—5.7	—7.3	—1.9
3	6.1	12.3	31.2	41.2	35.7	16.1	16.4	15.4	1.4	—5.7	—7.2	—1.6
4	5.6	10.7	31.9	41.6	35.2	15.2	17.3	15.8	1.2	—5.7	—7.1	—1.3
5	5.0	9.3	32.6	41.4	34.7	14.6	17.7	15.7	0.9	—5.8	—7.0	—1.2
6	4.5	8.3	33.2	41.1	34.3	13.7	17.9	15.3	0.6	—5.9	—6.9	—1.1
7	4.8	7.7	33.8	40.9	34.0	13.0	17.9	14.4	0.3	—6.0	—6.8	—1.0
8	8.2	8.1	34.4	40.6	33.8	12.4	17.9	13.5	—0.2	—6.1	—6.7	—1.1
9	13.6	9.4	34.9	40.4	33.6	12.0	17.6	12.7	—0.5	—6.3	—6.6	—1.3
10	18.0	11.5	35.6	40.2	33.4	12.0	17.2	11.7	—0.8	—6.4	—6.8	—1.3
11	20.0	13.4	36.2	40.0	33.2	12.1	16.6	10.5	—1.2	—6.5	—7.0	—1.1
12	21.0	15.6	36.8	39.8	32.9	12.2	16.1	9.8	—1.5	—6.6	—7.0	—0.6
13	20.3	17.9	37.3	39.7	32.6	12.2	15.6	9.1	—1.8	—6.7	—6.8	—0.1
14	19.0	20.4	37.6	39.6	32.2	12.0	15.3	8.6	—2.1	—6.8	—6.6	0.0
15	17.4	22.8	37.8	39.5	31.7	11.7	15.0	8.1	—2.4	—6.9	—6.4	0.5
16	15.7	24.4	37.9	39.3	31.1	11.3	14.6	7.6	—2.7	—7.0	—6.1	0.8
17	14.6	25.7	38.1	39.1	30.4	10.8	14.1	7.1	—2.9	—7.0	—5.8	0.4
18	13.7	26.6	38.4	39.0	29.6	10.4	13.3	6.6	—3.2	—7.0	—5.4	0.1
19	13.2	27.0	38.7	38.9	29.1	10.1	12.3	6.1	—3.5	—7.0	—4.9	0.1
20	13.1	27.3	39.0	38.8	28.7	9.9	11.3	5.6	—3.8	—7.0	—4.4	0.4
21	13.6	27.3	39.2	38.7	28.6	9.5	10.6	5.2	—4.1	—7.1	—4.1	0.7
22	14.2	27.0	39.4	38.6	28.7	9.5	9.9	4.9	—4.4	—7.2	—4.0	0.9
23	14.8	26.7	39.5	38.5	28.8	9.8	9.6	4.5	—4.6	—7.3	—3.9	0.9
24	16.0	26.4	39.6	38.4	28.9	10.1	9.5	4.1	—4.8	—7.4	—4.0	1.6
25	17.4	26.0	39.7	38.2	28.5	10.4	9.4	3.8	—5.0	—7.4	—4.1	2.2
26	18.4	26.1	39.8	38.0	27.6	10.8	9.5	3.5	—5.2	—7.4	—4.1	2.8
27	19.0	27.0	40.0	37.8	26.4	11.4	9.6	3.2	—5.3	—7.4	—4.0	4.2
28	19.2	28.0	40.1	37.6	25.0	12.3	9.7	2.9	—5.4	—7.4	—3.6	6.2
29	18.9		40.2	37.4	23.2	13.2	9.8	2.6	—5.5	—7.4	—3.1	8.2
30	18.1		40.4	37.2	21.2	14.0	10.7	2.3	—5.6	—7.4	—2.6	9.7
31	16.8		40.6		19.6		11.9	2.0		—7.4		10.2

Mississippi River.—Helena, Ark., 1897.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	12.8	22.2	34.8	50.9	45.2	26.8	21.4	19.7	8.6	1.3	—0.6	3.3
2	12.0	20.8	35.8	51.1	44.8	25.5	22.2	21.1	8.4	1.3	—0.5	3.7
3	11.4	19.2	36.8	51.4	44.4	24.3	23.0	22.2	8.1	1.3	—0.4	4.0
4	11.0	17.5	37.6	51.8	43.9	23.5	23.9	22.6	7.9	1.2	—0.4	4.3
5	10.7	16.4	38.5	50.4	43.5	22.4	24.6	22.7	7.7	1.1	—0.2	4.4
6	10.2	15.3	39.0	49.4	43.1	21.4	24.8	22.3	7.4	0.9	—0.2	4.6
7	9.9	14.4	39.6	49.0	42.8	20.6	24.8	21.7	7.1	0.8	—0.2	4.6
8	12.0	14.5	40.2	48.8	42.4	20.0	24.8	20.9	6.8	0.7	—0.2	4.6
9	17.9	15.5	40.8	48.6	42.2	19.6	24.7	19.9	6.4	0.6	—0.3	4.4
10	22.0	16.9	41.4	48.5	41.9	19.5	24.3	19.0	5.9	0.5	—0.3	4.2
11	24.6	18.5	42.0	48.3	41.7	19.6	23.8	18.0	5.5	0.4	—0.4	4.3
12	25.8	20.3	42.7	48.1	41.4	19.6	23.1	17.0	5.1	0.3	—0.5	5.0
13	25.8	22.7	43.4	48.0	41.2	19.6	22.6	16.3	4.8	0.2	—0.4	5.7
14	25.0	25.1	44.0	48.0	40.8	19.4	22.3	15.8	4.5	0.1	—0.3	6.2
15	23.8	27.4	44.6	47.8	40.4	19.2	22.2	15.4	4.3	0.0	—0.1	6.4
16	22.2	29.4	45.2	47.6	40.0	18.8	22.0	14.9	4.1	—0.1	0.2	6.2
17	21.0	31.0	45.8	47.4	39.3	18.3	21.3	14.4	3.8	—0.2	0.4	6.0
18	20.2	32.2	46.6	47.3	38.6	17.8	20.4	13.7	3.6	—0.2	0.6	5.8
19	19.6	32.8	47.6	47.2	38.1	17.5	19.7	13.3	3.3	—0.2	1.0	5.8
20	19.4	33.2	48.2	47.0	37.6	17.1	18.6	12.8	3.0	—0.3	1.5	6.0
21	19.5	33.4	48.7	47.0	37.4	16.8	17.8	12.4	2.8	—0.4	1.9	6.5
22	19.9	33.4	49.0	46.8	37.2	16.7	17.0	12.0	2.5	—0.4	2.1	7.0
23	20.7	33.2	49.2	46.8	37.1	16.9	16.7	11.6	2.3	—0.5	2.0	7.1
24	21.9	32.8	49.3	46.7	37.0	17.0	16.6	11.1	2.1	—0.6	1.9	6.9
25	23.4	32.6	49.4	46.5	36.8	17.3	16.5	10.7	1.9	—0.6	1.8	6.8
26	24.4	32.6	49.6	46.4	36.2	17.6	16.5	10.4	1.8	—0.7	1.9	7.4
27	24.9	33.0	49.8	46.2	35.2	18.2	16.6	10.0	1.7	—0.7	2.1	9.2
28	25.2	33.9	50.0	46.0	33.8	19.0	16.5	9.7	1.6	—0.7	2.4	11.8
29	25.0		50.2	45.8	32.0	19.8	16.6	9.4	1.4	—0.8	2.7	13.9
30	24.5		50.5	45.6	30.2	20.4	17.1	9.1	1.4	—0.7	3.0	15.5
31	23.4		50.8		28.4		18.2	8.9		—0.6		16.3

Mississippi River.—Helena, Ark., 1896.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November	December.
1	21.8	7.8	20.7	31.4	17.0	31.2	19.5	31.5	13.2	6.8	5.0	9.5
2	22.8	8.6	18.9	31.4	16.9	31.8	19.8	31.1	12.6	6.5	5.0	10.2
3	23.6	9.8	17.3	31.2	16.8	32.0	20.2	30.9	12.2	6.2	4.9	11.8
4	24.0	11.1	16.0	31.3	17.3	32.3	20.4	30.8	11.7	6.0	4.8	14.4
5	24.0	12.5	15.3	31.8	17.9	32.4	20.6	30.8	11.4	5.6	4.8	17.0
6	23.9	14.5	15.0	32.5	18.7	32.4	20.8	30.7	11.2	5.3	4.8	18.9
7	23.6	17.5	14.8	33.3	19.3	32.3	21.3	30.6	10.6	5.0	4.9	20.2
8	23.0	20.3	14.8	34.1	19.6	32.1	21.9	30.4	10.2	4.8	5.1	21.2
9	22.2	22.7	14.7	34.8	19.7	31.8	22.4	30.2	9.6	5.1	5.4	22.0
10	21.3	24.0	14.7	35.4	19.5	31.5	22.8	30.1	9.0	6.0	5.8	22.3
11	20.2	25.2	15.0	36.0	19.1	31.1	23.2	29.9	8.2	7.0	6.4	22.0
12	19.1	26.0	15.6	36.4	18.7	30.6	23.3	29.7	7.6	8.2	7.0	21.3
13	18.0	26.5	16.1	37.1	18.4	29.9	23.3	29.4	6.9	9.6	7.4	20.2
14	16.8	26.8	16.3	37.6	18.2	29.3	23.1	28.8	6.2	10.9	7.6	19.0
15	15.8	27.4	16.5	38.0	18.1	28.6	22.7	27.9	5.7	11.7	7.4	17.7
16	14.6	27.8	16.7	38.2	18.1	27.8	22.0	26.8	5.2	11.9	7.1	16.5
17	13.6	28.4	16.9	38.4	18.2	27.0	21.4	25.4	4.8	11.6	7.0	15.6
18	12.4	29.2	16.9	38.3	18.1	26.0	21.2	23.8	4.5	11.0	7.0	15.0
19	11.4	30.0	16.7	37.5	17.8	24.9	21.4	22.1	4.2	10.2	7.8	14.5
20	10.4	30.6	16.4	36.0	17.6	23.6	22.0	20.4	4.0	9.3	8.7	14.5
21	9.5	31.0	16.6	33.8	17.5	22.4	22.5	18.9	4.0	8.5	9.6	14.9
22	8.9	31.0	17.5	30.9	17.2	21.5	23.0	17.6	4.1	7.8	10.1	15.6
23	8.4	30.8	19.0	27.6	17.4	21.0	23.4	16.4	4.2	7.1	10.4	16.4
24	8.0	30.3	20.6	24.9	19.1	20.7	24.2	15.5	4.2	6.5	10.4	16.9
25	7.6	29.4	22.4	22.5	21.8	20.6	25.4	14.9	4.4	5.8	10.2	16.9
26	7.2	28.2	24.6	20.8	24.2	20.5	27.2	14.8	4.8	5.3	9.8	16.5
27	7.0	26.5	26.6	19.4	26.0	20.3	29.3	14.8	5.5	4.9	10.0	16.0
28	7.0	24.7	28.5	18.7	27.4	20.1	30.6	14.9	6.2	4.8	10.3	15.3
29	7.1	22.8	29.8	18.0	28.6	19.8	31.5	14.8	6.8	4.6	10.1	14.7
30	7.2		30.7	17.5	29.6	19.5	31.8	14.4	7.0	4.8	9.6	14.0
31	7.3		31.1		30.5		31.8	13.8		5.0		13.4

Mississippi River.—Sunflower Landing, Miss., 1896.

Day.	January.	February.	March.	April	May.	June.	July.	August.	September	October.	November.	December.
1	23.9	8.5	22.5	31.7	18.3	31.4	19.6	31.4	13.8	7.3	5.8	10.3
2	24.3	9.4	21.2	31.9	18.0	31.9	19.8	31.1	13.2	7.2	5.8	10.5
3	25.3	10.5	19.5	31.9	17.8	32.3	20.1	30.9	12.7	6.9	5.8	11.5
4	26.6	12.0	18.1	32.0	18.0	32.5	20.4	30.7	12.3	6.7	5.7	13.5
5	26.0	13.2	17.1	32.3	18.5	32.7	20.6	30.6	11.9	6.4	5.6	16.0

Mississippi River.—Mhoon Landing, Miss., 1895.

Day	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	0.8	19.2	0.4	24.7	15.1	8.0	5.4	8.0	1.0	—4.1	—7.2	—3.6
2	0.1	18.2	1.2	23.7	13.8	7.6	5.2	8.2	1.4	—4.5	—7.4	—3.0
3	—0.5	17.0	2.0	22.6	12.4	7.4	5.2	8.4	1.6	—4.9	—7.4	—2.4
4	—1.0	15.6	3.1	21.2	11.0	7.4	5.4	8.8	1.8	—5.3	—7.6	—2.0
5	—1.2	14.2	4.3	19.4	10.0	7.4	5.8	9.2	1.8	—5.7	—7.6	—1.8
6	—1.0	12.6	5.7	17.9	9.4	7.0	6.0	9.8	1.8	—5.8	—7.8	—1.8
7	—1.0	11.0	7.6	16.7	8.7	6.6	6.4	10.0	2.0	—6.0	—7.8	—1.8
8	—0.9	9.6	9.4	15.8	8.0	6.2	6.9	9.8	2.4	—6.0	—7.8	—2.0
9	—1.0	8.2	11.4	15.0	7.5	5.6	7.6	8.8	2.6	—6.2	—7.8	—2.4
10	—1.2	7.1	13.1	14.2	7.0	5.0	8.4	7.9	2.8	—6.2	—7.8	—2.9
11	—1.6	6.0	15.0	13.6	6.5	4.4	9.2	6.8	3.0	—6.2	—7.8	—3.6
12	—1.6	4.9	17.0	12.8	6.2	3.9	10.2	5.8	3.0	—6.2	—7.6	—4.1
13	0.8	3.8	19.0	12.4	6.0	3.5	11.0	4.8	3.1	—6.2	—7.4	—4.4
14	4.6	2.8	20.2	12.8	6.0	3.2	11.7	4.1	3.1	—6.2	—7.4	—4.6
15	8.4	1.8	20.4	13.6	5.9	3.0	11.8	3.7	2.8	—6.2	—7.2	—4.7
16	13.2	0.8	19.9	14.7	6.2	3.2	11.4	3.2	2.5	—6.4	—7.0	—4.7
17	16.0	—0.2	19.2	15.8	6.6	3.7	10.8	2.8	2.0	—6.4	—7.0	—4.6
18	18.4	—0.9	18.6	16.6	6.8	4.2	10.2	2.2	1.4	—6.5	—7.0	—4.6
19	20.4	—1.4	18.2	17.6	7.0	4.7	9.4	1.7	0.9	—6.5	—7.0	—4.8
20	21.9	—1.8	18.0	18.2	7.0	5.4	8.6	1.2	0.4	—6.4	—7.0	—4.8
21	23.2	—2.0	18.4	18.7	7.1	5.8	8.1	0.7	—0.1	—6.4	—7.0	—4.9
22	23.9	—2.0	19.0	19.2	7.1	5.8	7.6	0.2	—0.6	—6.4	—7.2	—4.8
23	24.4	—2.0	19.9	19.4	7.2	6.0	7.2	—0.3	—1.0	—6.6	—7.2	—4.4
24	24.9	—2.0	21.0	19.8	7.4	6.0	7.2	—0.8	—1.4	—6.6	—7.0	0.5
25	25.0	—1.8	22.2	19.8	7.8	6.0	7.0	—1.0	—1.8	—6.8	—6.8	7.2
26	24.9	—1.6	23.4	19.9	8.3	5.8	7.0	—1.0	—2.2	—6.8	—6.4	12.6
27	24.4	—1.0	24.6	19.6	9.0	5.7	7.0	—0.6	—2.6	—7.0	—6.2	14.9
28	23.8	—0.4	25.2	18.8	9.6	5.8	7.2	—0.4	—3.0	—7.0	—6.0	16.0
29	23.0		25.4	17.8	9.6	5.8	7.4	0.1	—3.4	—7.2	—5.2	16.6
30	22.0		25.4	16.6	9.2	5.8	7.8	0.4	—3.8	—7.2	—4.4	16.8
31	20.2		25.2	[illegible]	8.0	[illegible]	8.0	0.8		—7.0		17.0

Mississippi River.—Helena, Ark., 1895.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	5.6	25.5	5.2	31.0	21.2	13.5	10.4	13.0	5.6	0.6	—2.5	1.1
2	4.8	24.3	6.1	30.2	19.8	13.0	10.3	13.2	5.9	0.3	—2.6	1.6
3	4.1	23.3	6.8	29.2	18.4	12.7	10.2	13.4	6.1	0.0	—2.7	2.2
4	3.5	22.1	7.7	27.7	17.2	12.5	10.3	13.6	6.3	—0.2	—2.8	2.7
5	3.3	20.8	8.8	26.1	16.2	12.5	10.7	14.0	6.4	—0.4	—2.9	2.9
6	3.5	19.2	10.3	24.4	15.4	12.4	10.9	14.7	6.5	—0.7	—2.9	3.1
7	3.8	17.7	12.1	22.9	14.5	12.0	11.2	15.2	6.5	—0.8	—3.0	3.1
8	3.8	16.0	14.0	21.8	13.8	11.5	11.7	15.0	6.8	—0.9	—3.0	2.9
9	3.6	14.4	16.0	21.0	13.1	10.9	12.1	14.4	7.2	—1.0	—3.0	2.5
10	3.2	12.6	17.7	20.2	12.5	10.2	12.4	13.6	7.4	—1.0	—2.8	2.0
11	3.0	†11.0	19.7	19.4	12.0	9.7	12.9	12.5	7.5	—1.0	—2.8	1.5
12	3.0	9.2	21.8	18.6	11.7	9.0	14.2	11.4	7.7	—1.1	—2.8	1.0
13	4.1	8.4	23.7	18.0	11.6	8.6	15.8	10.4	7.8	—1.1	—2.8	0.6
14	7.9	7.6	25.0	17.9	11.5	8.3	16.7	9.5	7.9	—1.2	—2.8	0.4
15	13.0	6.9	25.6	18.3	11.4	8.0	16.9	8.8	7.8	—1.3	—2.7	0.4
16	17.4	5.9	25.6	19.5	11.4	8.2	16.8	8.3	7.6	—1.4	—2.6	0.5
17	20.4	5.0	25.1	20.7	11.6	8.4	16.2	7.8	7.4	—1.4	—2.5	0.5
18	22.8	4.2	24.4	21.7	11.8	9.1	15.6	7.4	7.0	—1.4	2.4	0.4
19	25.2	3.5	23.9	22.6	12.1	9.9	14.7	6.8	6.4	—1.5	—2.4	0.3
20	27.0	3.0	23.8	23.4	12.2	10.5	14.0	6.2	5.6	—1.5	—2.4	0.2
21	28.3	3.0	24.0	24.0	12.2	10.6	13.5	5.6	4.8	—1.5	—2.4	0.2
22	29.3	2.8	24.3	24.4	12.2	10.8	13.0	4.9	4.1	—1.5	—2.5	0.3
23	30.2	2.9	25.0	24.8	12.2	10.9	12.8	4.4	3.5	—1.7	—2.5	0.4
24	30.7	3.0	26.3	25.2	12.4	11.0	12.5	4.1	3.1	—1.7	—2.5	1.6
25	31.0	3.1	27.7	25.4	13.0	11.1	12.3	4.0	2.9	—1.8	—2.1	8.9
26	31.0	3.2	29.1	25.5	13.9	10.9	12.0	3.9	2.7	—1.9	—1.6	15.3
27	30.6	3.4	30.2	25.3	14.5	10.6	12.0	4.0	2.4	—2.0	—0.9	18.6
28	29.9	4.2	30.8	24.7	15.0	10.6	12.2	4.4	1.9	—2.1	—0.7	20.2
29	29.0		31.0	23.8	15.0	10.6	12.4	4.8	1.4	—2.3	—0.6	21.1
30	27.9		31.2	22.6	14.6	10.6	12.7	5.0	1.0	—2.4	0.2	21.3
31	26.7		31.2		14.1		12.8	5.4		—2.4		21.4

† a. m. only.

Mississippi River.—Mhoon Landing, Miss., 1894.

y	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	5.5	10.0	23.3	22.6	18.2	14.4	11.3	2.0	—2.2	—3.0	—6.6	—4.5
2	5.2	9.4	21.8	22.1	17.3	15.4	11.3	2.0	—2.2	—3.0	—6.8	—4.5
3	4.6	9.0	20.5	21.6	16.4	16.6	11.4	1.8	—2.4	—3.2	—6.8	—4.4
4	3.8	8.8	19.5	21.1	15.6	17.8	11.6	1.8	—2.6	—3.4	—7.0	—4.4
5	3.4	8.6	18.4	20.7	15.2	18.7	11.4	1.6	—2.8	—3.4	—7.0	—4.2
6	3.0	8.6	17.6	20.4	15.0	19.0	11.2	1.6	—3.0	—3.2	—7.2	—4.0
7	2.8	10.4	17.1	20.0	15.2	18.5	10.8	1.4	—3.2	—3.2	—7.2	—3.8
8	2.8	12.6	16.8	19.8	15.6	18.0	10.6	1.2	—3.3	—3.0	—7.2	—3.6
9	3.1	16.0	17.2	19.6	16.1	17.4	10.2	1.0	—3.3	—2.8	—7.2	—3.6
10	4.0	18.6	18.0	19.8	16.6	16.6	10.0	0.8	—3.2	—2.8	—7.2	—3.4
11	5.4	21.0	20.0	19.6	17.4	16.0	9.9	0.6	—3.0	—3.0	—6.8	—3.2
12	7.0	23.4	22.2	19.5	18.4	15.2	10.0	0.2	—2.8	—3.4	—6.6	—3.2
13	8.4	25.5	24.0	19.8	19.6	14.8	9.7	0.0	—2.7	—3.6	—6.4	—3.2
14	9.0	27.2	24.8	20.0	20.6	14.4	9.2	—0.2	—2.7	—4.0	—6.2	—3.4
15	9.2	28.3	25.3	20.6	21.5	14.2	8.6	—0.6	—2.7	—4.2	—6.2	—3.6
16	9.6	29.2	25.2	21.2	22.0	13.8	8.0	—0.8	—2.7	—4.6	—6.0	—3.6
17	9.7	29.8	24.7	21.6	21.9	13.6	7.2	—1.0	—2.8	—4.8	—6.0	—3.4
18	9.6	30.4	24.1	21.8	21.2	13.4	6.6	—1.2	—2.8	—5.0	—6.2	—2.9
[illegible]	9.2	30.6	24.1	22.2	20.3	13.2	6.0	—1.4	—3.0	—5.0	—6.2	—1.8
[illegible]	9.0	30.8	24.4	22.7	19.4	13.0	5.4	—1.6	—3.1	—5.2	—6.2	—0.4
[illegible]	9.2	30.8	24.6	23.2	18.6	12.9	4.9	—1.8	—3.0	—5.4	—6.0	1.0
[illegible]	9.2	30.5	24.3	23.8	17.6	12.8	4.4	—2.0	—2.6	—5.6	—5.8	2.4
[illegible]	9.4	29.9	23.8	24.6	16.8	12.8	4.0	—2.2	—2.4	—5.8	—5.6	3.0
[illegible]	9.6	29.4	23.4	25.0	16.0	12.6	3.8	—2.4	—2.2	—6.0	—5.4	3.4
[illegible]	9.8	28.7	23.2	24.7	15.2	12.2	3.4	—2.6	—2.0	—6.2	—5.2	3.6
[illegible]	10.2	27.8	23.1	23.8	14.4	12.0	3.2	—2.6	—2.2	—6.2	—5.0	3.6
[illegible]	10.7	26.3	23.1	22.8	13.6	11.6	3.0	—2.6	—2.4	—6.0	—4.8	3.4
[illegible]	11.0	24.8	23.1	21.8	13.0	11.4	2.8	—2.6	—2.6	—6.2	—4.6	3.0
[illegible]	11.1		23.4	20.4	12.4	11.3	2.6	—2.6	—2.8	—6.4	—4.6	2.5
[illegible]	11.0		23.4	19.4	12.4	11.3	2.4	—2.4	—2.8	—6.4	—4.5	2.0
[illegible]	10.5		23.0	18.8	[illegible]	[illegible]	2.2	—2.4	[illegible]	—6.6	[illegible]	[illegible]

Mississippi River.—Helena, Ark., 1894.

.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November	December.
[illegible]	11.4	16.2	31.6	31.3	25.8	20.5	17.5	7.6	2.6	1.4	—1.8	—0.3
[illegible]	11.2	15.6	30.2	30.9	24.7	21.8	17.6	7.5	2.6	1.5	—1.8	—0.2
[illegible]	10.5	15.1	28.8	30.2	23.5	23.0	17.8	7.3	2.5	1.5	—1.9	—0.2
[illegible]	9.7	15.0	27.4	29.7	22.6	24.3	17.9	7.3	2.2	1.2	—2.0	—0.2
[illegible]	9.0	15.1	26.1	29.0	22.0	25.3	17.8	7.1	2.0	1.0	—2.1	—0.2
[illegible]	8.5	15.0	25.5	28.2	21.8	25.8	17.7	6.9	1.7	0.8	—2.1	0.1
[illegible]	8.2	15.5	25.2	27.6	21.8	25.6	17.3	6.8	1.5	1.1	—2.1	0.5
[illegible]	8.0	17.8	24.8	27.3	22.4	25.1	16.9	6.6	1.3	1.4	—2.2	0.6
[illegible]	8.2	21.3	24.8	27.2	23.0	24.3	16.6	6.5	1.3	1.8	—2.2	0.7
[illegible]	8.9	24.4	25.5	27.5	23.5	23.4	16.4	6.3	1.4	1.8	—2.2	0.9
[illegible]	10.1	27.0	27.0	27.5	24.1	22.7	16.4	6.0	1.5	1.6	—2.0	1.1
[illegible]	12.0	29.5	29.1	27.2	25.1	22.0	16.4	5.8	1.5	1.2	—1.9	1.2
[illegible]	13.6	31.9	31.0	27.2	26.2	21.6	16.2	5.3	1.5	0.9	—1.7	1.1
[illegible]	14.6	33.7	32.4	27.5	27.4	21.2	15.8	4.9	1.5	0.6	—1.6	1.0
[illegible]	15.0	35.2	33.0	28.0	28.4	20.9	15.1	4.5	1.6	0.3	—1.4	0.7
[illegible]	15.3	36.1	33.2	28.2	29.1	20.6	14.4	4.2	1.6	0.1	—1.4	0.5
[illegible]	15.5	36.8	32.8	28.4	29.2	20.1	13.7	4.0	1.6	0.0	—1.4	0.5
[illegible]	15.6	37.4	32.4	28.6	28.8	19.8	13.0	3.8	1.5	—0.2	—1.5	0.8
[illegible]	15.4	37.8	32.3	29.3	28.0	19.6	12.2	3.6	1.4	—0.4	—1.6	1.5
[illegible]	15.1	38.0	32.9	29.9	27.2	19.5	11.6	3.3	1.3	—0.5	—1.6	2.5
[illegible]	15.2	38.1	33.2	30.2	26.3	19.4	11.0	3.0	1.3	—0.7	—1.6	3.8
[illegible]	15.4	38.0	33.2	31.0	25.3	19.3	10.2	2.7	1.5	—0.9	—1.5	5.6
[illegible]	15.4	37.6	32.8	31.8	24.2	19.1	9.8	2.6	1.9	—1.1	—1.4	7.1
[illegible]	15.6	37.1	32.4	32.4	23.1	18.8	9.4	2.5	2.1	—1.2	—1.2	8.0
[illegible]	15.8	36.4	32.2	32.4	22.0	18.6	9.1	2.4	2.2	—1.3	—1.0	8.4
[illegible]	16.1	35.4	32.0	31.9	21.2	18.3	8.8	2.5	2.2	—1.4	—0.7	8.6
[illegible]	16.5	34.3	31.9	31.0	20.4	18.0	8.6	2.6	2.0	—1.4	—0.7	8.4
[illegible]	16.9	33.0	31.8	29.8	19.8	17.8	8.4	2.6	1.8	—1.5	—0.6	8.0
[illegible]	17.2		31.9	28.5	19.2	17.8	8.2	2.4	1.6	—1.6	—0.5	7.6
[illegible]	17.2		31.9	27.2	19.1	17.6	8.1	2.4	1.5	—1.7	—0.3	6.9
[illegible]	16.9		31.7		19.6		7.8	2.5		—1.7		6.2

Mississippi River.—Mhoon Ldg., Miss., 1893.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	9.2	—1.4	33.6	25.9	34.4	35.8	18.4	?7.9	?1.2	?—0.5	1.2	—1.4
2	8.8	—0.9	33.8	25.0	34.4	35.7	18.6	?7.5	?0.4	?—0.3	0.6	—1.5
3	9.0	—0.6	34.0	24.2	34.6	35.6	18.4	?7.1	?—0.2	?—0.5	0.4	—1.5
4	9.4	—0.5	34.2	23.5	34.6	35.6	17.9	?6.8	?—0.7	?—0.7	0.3	—1.5
5	10.3	—0.1	34.4	22.9	34.8	35.6	17.3	?6.6	?—1.0	?—0.9	0.2	—1.5
6	11.4	2.1	34.4	22.4	34.8	35.6	16.8	?6.6	?—1.5	?—1.0	0.4	—1.1
7	11.9	5.6	34.4	21.9	35.0	35.6	16.3	?6.6	?—1.7	?—1.0	0.4	—0.6
8	11.6	9.4	33.8	21.4	35.0	35.6	15.8	?6.4	?—1.7	?—1.2	0.2	—0.1
9	10.6	12.8	33.0	20.8	35.2	35.6	15.6	?6.1	?—1.5	?—1.4	0.2	0.4
10	9.6	14.6	32.0	20.0	35.4	35.6	15.8	?5.8	?—1.0	?—1.5	0.0	1.2
11	8.6	15.5	30.3	19.3	35.4	35.6	16.3	?5.4	?—0.5	?—1.3	—0.4	2.1
12	7.6	16.0	28.8	18.6	35.6	35.6	16.6	?4.9	?—0.2	?—0.9	—0.6	3.0
13	6.2	16.5	27.4	18.3	35.6	35.6	16.8	?4.3	?0.0	?—0.7	—0.8	4.0
14	4.8	17.2	26.8	19.6	35.8	35.6	16.4	?3.8	?0.2	?—0.5	—1.0	4.6
15	3.5	18.2	26.8	21.2	35.8	35.4	15.6	?3.5	?0.2	?—0.4	—1.2	5.1
16	2.3	19.7	27.2	24.0	36.0	35.2	15.2	?3.3	?0.4	—0.4	—1.2	5.4
17	1.1	21.8	27.5	27.0	36.0	35.0	14.6	?3.3	?0.6	—0.4	—0.8	5.5
18	—0.1	24.2	27.8	28.8	36.2	34.6	13.8	?3.1	?0.7	—0.4	—0.6	5.2
19	—0.9	26.4	28.3	30.1	36.4	34.0	13.0	?3.0	?0.5	—0.6	—0.4	4.9
20	—1.6	28.0	28.6	31.2	36.6	33.1	?12.1	?2.8	?0.3	—0.8	—0.2	4.6
21	—2.1	29.2	29.0	32.0	37.0	31.7	?11.7	?2.4	?0.3	—1.0	0.0	4.2
22	[illegible]	[illegible]	29.2	32.5	37.2	30.0	?11.5	?2.2	?0.6	—1.5	0.0	4.2
23	—2.6	31.0	29.6	32.8	37.6	27.9	?11.7	?2.0	?1.0	—1.8	—0.2	4.0
24	—2.6	31.6	29.9	33.2	37.8	25.7	?11.9	?1.6	?1.2	—1.6	—0.4	4.0
25	—2.6	32.2	29.9	33.4	37.9	23.5	?12.0	?1.5	?1.2	—1.1	—0.6	3.8
26	—2.2	32.8	29.6	33.8	37.8	21.4	?11.8	?2.0	?0.9	0.0	—1.0	3.4
27	—2.0	33.2	29.4	34.0	37.4	19.8	?11.4	?2.7	?0.4	1.6	—1.0	3.3
28	—2.0	33.4	29.0	34.0	37.1	18.8	?10.6	?3.1	?—0.1	2.4	—1.2	3.6
29	—1.8		28.4	34.1	36.6	18.2	?10.0	?3.2	?—0.2	2.6	—1.2	4.2
30	—1.8		27.6	34.2	36.1	18.0	?9.1	?2.7	?—0.5	2.4	—1.4	5.0
31	—1.8		26.8		35.8		?8.5	?1.8				5.6

Mississippi River.—Helena, Ark. 1893.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	16.0	4.2	40.6	34.0	42.1	45.8	26.4	12.7	6.0	3.9	6.3	3.4
2	15.6	4.6	40.9	33.2	42.2	45.6	26.6	12.2	5.3	4.0	5.7	3.4
3	15.6	4.9	41.2	32.2	42.3	45.5	26.4	11.8	4.8	3.8	5.2	3.3
4	16.0	5.2	41.4	31.4	42.4	45.4	25.9	11.5	4.1	3.7	5.1	3.2
5	16.8	5.4	41.6	30.7	42.4	45.2	25.2	11.3	3.7	3.6	5.1	3.2
6	17.9	6.2	41.8	30.1	42.6	45.1	24.4	11.2	3.3	3.5	5.2	3.3
7	18.5	8.6	41.8	29.4	42.8	45.0	23.8	11.2	3.0	3.5	5.2	3.6
8	18.4	13.1	41.7	28.9	43.0	45.0	23.2	11.2	2.7	3.3	5.1	4.0
9	17.8	17.2	41.3	28.2	43.2	44.9	22.6	11.0	2.9	3.0	4.9	4.6
10	16.9	19.0	40.4	27.4	43.4	44.8	22.4	10.7	3.5	2.9	4.6	5.6
11	15.8	21.5	39.0	26.6	43.5	44.7	22.8	10.1	3.8	2.9	4.4	6.6
12	14.7	22.1	37.6	25.9	43.7	44.6	23.4	9.6	4.1	3.3	4.2	7.6
13	13.4	22.6	36.2	25.7	43.8	44.5	23.6	9.0	4.1	3.8	4.0	8.7
14	12.0	23.3	35.2	26.1	44.0	44.4	23.2	8.4	4.1	4.0	3.8	9.7
15	10.4	24.4	34.8	27.4	44.2	44.3	22.4	8.0	4.2	4.1	3.6	11.1
16	*8.3	25.8	34.9	29.9	44.4	44.2	21.6	7.7	4.5	4.1	3.5	11.7
17	7.0	27.9	35.2	32.8	44.6	44.0	20.7	7.6	4.8	4.2	3.8	11.8
18	5.8	30.2	35.4	35.0	44.9	43.7	19.8	7.4	5.0	4.3	4.0	11.6
19	4.6	32.4	35.7	36.4	45.2	43.2	18.9	7.3	4.9	4.2	4.3	11.1
20	4.1	34.4	36.0	37.6	45.8	42.4	18.0	7.0	4.7	4.0	4.3	10.7
21	3.8	35.7	36.4	38.6	46.5	41.4	17.2	6.7	4.4	3.8	4.5	10.1
22	3.5	36.8	36.6	39.4	47.0	40.0	16.8	6.4	4.5	3.5	4.6	9.9
23	3.2	37.6	37.0	39.9	47.6	38.2	16.7	6.2	5.1	3.2	4.6	9.8
24	3.1	38.3	37.4	40.4	47.8	36.2	17.0	5.8	5.7	3.0	4.4	9.8
25	3.0	39.0	37.5	40.7	47.9	34.0	17.0	5.6	5.9	2.9	4.3	9.7
26	3.3	39.5	37.4	41.1	47.8	31.7	16.7	5.8	5.6	3.8	4.0	9.2
27	3.6	40.0	37.2	41.4	47.6	29.7	16.1	6.4	5.0	5.3	3.9	8.9
28	3.8	40.4	36.8	41.6	47.5	28.1	15.4	7.2	4.5	6.6	3.8	8.8
29	3.9		36.3	41.7	47.0	27.0	14.7	7.6	4.2	7.4	3.7	9.6
30	3.9		35.6	41.8	46.3	26.4	14.0	7.4	4.0	7.4	3.5	10.8
31	3.9		34.8		45.8		13.4	6.7		6.9		11.7

* 9 a. m. reading. NOTE.—Readings, May 21 to 29, were corrected for error of 0.1 foot. Readings from Aug. 11, below 10.4 feet, were corrected for error.

Mississippi River.—Helena, Ark., 1892.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	20.9	27.0	32.0	32.8	44.2	44.7	37.9	26.4	11.0	6.7	1.4	6.3
2	21.6	26.0	31.5	33.4	44.4	44.7	37.5	25.1	10.8	6.3	1.4	6.2
3	22.0	24.8	31.0	34.1	44.5	44.6	37.2	24.0	10.5	5.9	1.6	6.3
4	22.6	23.3	30.5	34.6	44.6	44.6	37.0	22.9	10.4	5.6	1.8	6.4
5	23.1	21.8	29.9	35.4	44.7	44.6	36.8	21.9	10.1	5.3	2.0	6.5
6	23.7	20.4	29.2	36.2	44.8	44.5	36.6	21.1	10.0	5.1	2.1	6.6
7	24.2	19.4	28.3	37.3	45.0	44.6	36.4	20.4	9.7	5.0	2.1	6.8
8	24.4	18.9	27.2	38.3	45.2	44.6	36.5	19.7	9.4	4.8	1.9	7.0
9	24.2	18.6	26.2	39.1	45.4	44.7	36.7	19.1	9.1	4.6	1.8	7.3
10	23.8	18.9	25.4	39.8	45.6	44.8	37.0	18.6	8.8	4.4	1.7	7.4
11	23.1	20.1	24.8	40.4	45.7	44.8	37.2	18.2	8.6	4.0	1.7	7.4
12	22.2	22.0	24.4	40.8	45.7	44.9	37.4	17.8	8.4	3.8	1.8	7.3
13	21.2	24.1	24.6	41.3	45.5	45.0	37.6	17.4	8.1	3.6	1.8	8.2
14	20.0	25.9	25.5	41.7	45.2	45.1	37.9	17.0	7.8	3.4	1.8	10.0
15	18.7	27.2	26.7	42.0	45.0	45.1	38.2	16.8	7.4	3.1	1.8	10.9
16	17.4	28.1	27.6	42.3	44.8	45.1	38.4	16.6	7.3	3.0	1.8	11.9
17	16.1	28.6	28.1	42.5	44.5	45.0	38.6	16.4	7.4	2.7	2.1	13.0
18	15.2	28.9	28.2	42.6	44.5	45.0	38.6	16.4	7.8	2.5	2.2	14.2
19	15.1	29.2	28.2	42.7	44.5	44.9	38.6	16.2	8.2	2.3	2.6	15.4
20	15.8	29.4	28.2	42.9	44.4	44.8	38.4	15.8	8.4	2.2	2.9	16.4
21	17.0	29.6	28.1	43.3	44.4	44.6	38.1	15.1	8.3	2.0	3.4	17.3
22	19.1	29.6	28.0	43.3	44.4	44.4	37.6	14.8	8.1	1.9	3.9	18.4
23	22.2	29.6	27.9	43.5	44.4	44.1	37.0	14.4	7.8	1.8	4.1	19.4
24	25.3	30.0	27.7	43.5	44.3	43.6	36.1	13.9	7.5	1.6	4.1	20.1
25	27.6	30.8	27.6	43.6	44.3	42.9	35.2	13.6	7.2	1.5	4.3	20.6
26	28.8	31.9	28.0	43.6	44.3	42.0	34.1	13.3	7.0	1.6	4.6	20.7
27	29.2	32.4	28.8	43.7	44.3	41.0	32.8	12.8	7.2	1.6	5.2	20.5
28	29.4	32.6	29.6	43.8	44.3	40.0	31.6	12.4	7.3	1.5	5.8	19.9
29	29.2	32.4	30.5	44.0	44.4	39.1	30.4	12.1	7.3	1.3	6.4	19.0
30	28.6		31.4	44.1	44.4	38.4	29.0	11.7	7.0	1.3	6.4	17.8
31	27.8		32.1		44.5		27.6	11.3		1.2		16.6

Mississippi River.—Southwest Landing, Miss., 1892.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	19.9	26.4	32.0	32.1	41.1	41.7	38.1	26.8	10.6	8.1	3.2	7.7
2	21.2	25.6	31.4	32.7	41.2	41.6	37.8	25.2	10.6	7.6	3.3	7.6
3	22.1	24.6	31.0	33.3	41.2	41.5	37.4	24.2	10.4	7.1	3.4	7.7
4	22.6	23.8	30.6	33.8	41.3	41.5	37.2	23.3	10.2	6.8	3.6	7.8
5	23.1	22.9	30.0	34.4	41.3	41.4	37.0	22.4	10.0	6.6	4.0	7.8
6	23.6	20.8	29.3	35.2	41.4	41.4	36.6	21.5	9.8	6.4	4.0	7.8
7	24.0	20.0	28.6	36.2	41.5	41.3	36.4	20.6	9.6	6.2	4.0	7.9
8	24.1	19.3	27.6	36.8	41.5	41.3	36.2	19.8	9.6	6.2	3.9	8.0
9	23.8	18.8	26.0	37.4	41.6	41.4	36.4	19.0	9.4	6.0	3.8	8.2
10	23.5	18.8	25.3	38.0	41.6	41.4	36.4	18.1	9.2	6.0	3.6	8.4
11	22.8	19.6	24.8	38.6	41.7	41.3	36.4	17.5	9.0	5.6	3.6	8.5
12	21.8	20.9	24.6	39.0	41.7	41.4	36.6	17.0	8.8	5.4	3.5	8.6
13	20.7	22.4	24.6	39.2	41.7	41.4	36.7	16.6	8.6	5.2	3.6	9.0
14	19.2	24.6	25.0	39.4	41.6	41.4	36.8	16.4	8.4	5.0	3.6	10.2
			26.0	39.6	41.6	41.4	36.9	16.2	8.2	4.8	3.6	11.5