

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT

Pascagoula Basin
Mississippi Coastal Subbasin

LOCATION.--Lat 30°15'16", long 88°52'08" referenced to North American Datum of 1983, Harrison County, MS, Hydrologic Unit 03170009, on the USGS East Ship Island platform, 12 miles southeast of Gulfport.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Water years 2008 to current year.

PERIOD OF DAILY RECORD.--

GAGE HEIGHT: August 2008 to current year.

REMARKS.--Gage-height records fair. Interruptions in the record were due to malfunction of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

GAGE HEIGHT: Maximum recorded, 6.96 ft, Sept. 1, 2008, but may have been higher during periods of instrument malfunction; minimum recorded, -1.47 ft, Jan. 27, 2010, but may have been lower during period of instrument malfunction.

EXTREMES FOR CURRENT YEAR.--Maximum recorded, 4.15 ft, Oct. 23, but may have been higher during periods of instrument malfunction; minimum recorded, -1.47 ft, Jan. 27, but may have been lower during periods of instrument malfunction.

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low
	October		November		December		January		February		March	
1	1.70	0.97	1.64	-0.02	---	---	---	---	---	---	---	---
2	1.79	1.09	2.01	-0.15	---	---	---	---	---	---	---	---
3	2.02	0.86	2.28	---	---	---	---	---	---	---	---	---
4	2.36	0.83	2.48	-0.33	---	---	---	---	---	---	---	---
5	1.54	0.57	2.23	-0.49	---	---	---	---	---	---	1.07	---
6	2.35	0.21	---	-0.55	---	---	---	---	---	---	1.13	-0.99
7	2.12	0.14	---	---	---	---	---	---	---	---	1.13	-1.00
8	---	-0.04	---	---	---	---	---	---	---	---	1.32	-0.81
9	2.66	-0.04	---	---	---	---	---	---	---	---	---	---
10	---	-0.09	---	---	---	---	---	---	---	---	---	---
11	2.06	0.00	---	---	---	---	---	---	---	---	---	---
12	2.04	-0.01	---	---	---	---	---	---	---	---	---	---
13	1.92	0.33	1.66	0.47	---	---	---	---	---	---	---	---
14	1.61	0.56	2.02	0.12	---	---	---	---	---	---	---	---
15	1.56	0.95	2.21	-0.10	---	---	---	---	---	---	---	---
16	1.32	0.13	2.77	-0.11	---	---	---	---	---	---	---	---
17	0.81	-0.27	2.34	---	---	---	---	---	---	---	0.30	-0.88
18	1.25	-0.60	2.34	-0.11	---	---	---	---	---	---	0.75	-0.78
19	1.80	-0.26	2.30	-0.16	---	---	---	---	---	---	1.08	-0.61
20	2.36	-0.20	2.44	-0.09	---	---	---	---	---	---	---	---
21	---	0.51	---	---	---	---	---	---	---	---	---	---
22	3.65	0.96	---	---	---	---	---	---	---	---	1.07	---
23	4.15	0.28	2.39	0.51	---	---	---	---	---	---	1.08	-1.28
24	2.21	0.29	1.76	0.60	---	---	---	---	---	---	1.29	-0.92
25	2.10	0.26	1.29	0.57	---	---	---	---	---	---	---	---
26	---	---	1.10	0.31	---	---	---	---	---	---	---	---
27	---	---	1.39	-0.04	---	---	2.04	-1.47	---	---	---	---
28	---	---	1.98	0.14	---	---	2.27	-1.07	---	---	---	---
29	---	---	2.30	0.36	---	---	3.10	-0.22	---	---	---	---
30	---	---	---	---	---	---	1.86	-0.71	---	---	0.89	---
31	---	---	---	---	---	---	---	---	---	---	0.77	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low
	April		May		June		July		August		September	
1	1.26	-0.85	3.30	0.27	1.84	0.05	2.37	0.41	1.03	0.32	2.82	0.92
2	---	---	2.68	---	1.80	0.25	1.78	0.82	1.52	0.23	2.81	0.52
3	---	---	2.28	0.39	1.71	1.11	2.52	1.57	1.58	-0.03	2.22	0.20
4	1.39	---	1.89	0.15	1.81	0.52	2.56	1.52	1.73	-0.14	2.07	0.19
5	1.26	---	1.53	-0.01	1.78	0.59	3.03	1.06	2.16	-0.18	2.36	0.22
6	---	---	0.94	-0.01	1.75	0.44	3.00	1.27	2.21	-0.20	2.51	0.56
7	---	---	0.90	0.39	1.36	0.23	3.34	0.50	2.21	-0.18	2.21	0.83
8	---	---	0.58	-0.04	1.99	0.05	2.72	-0.01	2.03	-0.41	2.06	1.20
9	---	---	1.24	0.19	1.95	0.01	2.65	-0.28	2.20	-0.10	2.01	1.11
10	---	---	1.53	0.09	2.40	-0.25	2.39	-0.48	2.39	0.76	2.14	0.83
11	---	---	1.71	0.12	2.62	-0.39	2.25	-0.70	2.66	1.40	---	0.37
12	---	---	2.05	0.04	2.30	-0.39	2.09	-0.39	2.68	1.75	2.14	0.13
13	---	---	2.43	-0.24	2.18	-0.55	1.71	-0.35	1.50	1.00	1.81	0.24
14	---	---	2.42	-0.27	2.23	-0.28	1.50	-0.16	1.84	0.44	2.21	0.40
15	2.24	---	2.82	0.12	2.25	-0.33	1.41	0.49	2.04	0.11	2.55	0.85
16	1.54	-0.42	3.40	-0.04	1.79	0.05	1.26	0.58	2.05	0.53	---	0.85
17	1.69	---	2.33	-0.16	1.56	0.26	1.71	0.58	2.98	0.36	2.66	1.01
18	1.65	---	2.02	-0.22	1.09	0.40	1.93	0.72	2.65	-0.02	2.30	1.00
19	---	---	1.98	---	1.30	0.00	2.11	0.30	2.10	-0.15	2.22	0.94
20	1.26	---	1.82	0.34	1.50	0.29	2.54	0.12	2.05	0.13	2.27	1.04
21	1.32	-0.66	1.50	1.13	1.76	-0.18	2.44	0.21	1.72	-0.07	2.05	1.31
22	1.08	-0.71	1.53	0.73	2.24	-0.01	2.65	0.06	1.52	0.01	2.51	1.39
23	---	---	1.65	0.46	2.39	-0.26	2.40	-0.10	1.82	0.34	2.67	1.50
24	---	---	1.66	0.15	2.27	-0.30	2.27	0.40	1.81	0.65	2.80	0.99
25	---	---	2.08	-0.48	2.41	-0.25	2.63	0.62	1.96	0.71	2.68	0.90
26	---	---	2.10	-0.30	2.30	-0.14	2.44	0.29	1.80	0.73	2.26	0.89
27	1.23	-1.35	2.19	-0.51	2.73	0.19	1.88	0.15	1.73	0.84	2.53	0.82
28	1.61	-0.99	2.06	-0.73	2.75	0.30	1.45	0.04	2.11	1.07	2.62	0.63
29	2.02	-0.52	2.05	-0.74	2.81	0.82	1.08	0.06	2.35	0.75	---	0.80
30	2.48	0.02	2.35	-0.09	3.29	0.79	0.87	0.11	---	1.00	2.28	0.22
31	---	---	2.17	-0.06	---	---	0.93	0.42	2.62	0.79	---	---
Max	---	---	3.40	---	3.29	1.11	3.34	1.57	---	1.75	---	1.50
Min	---	---	0.58	---	1.09	-0.55	0.87	-0.70	---	-0.41	---	0.13

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2008 to current year.

PERIOD OF DAILY RECORD.--

TURBIDITY: November 2009 to current year.

DISSOLVED OXYGEN: November 2009 to current year.

SPECIFIC CONDUCTANCE: August 2008 to current year.

WATER TEMPERATURE: August 2008 to current year.

INSTRUMENTATION.--Water-quality monitor since August 2008.

REMARKS.--Turbidity records poor. Dissolved Oxygen records good. Specific Conductance records fair. Water temperature records excellent. Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

TURBIDITY: Maximum recorded, 150 FNU, Nov. 9, 2010, but may have been higher during periods of instrument malfunction; minimum recorded, 5.0 FNU, Apr. 21,22,23, 2010, but may have been lower during periods of instrument malfunction.

DISSOLVED OXYGEN: Maximum recorded, 11.6 mg/l, Dec. 21, 2009 and Jan. 12, 2010, but may have been higher during periods of instrument malfunction; minimum recorded, 0.8 mg/l, May 28, 2010, but may have been lower during periods of instrument malfunction.

SPECIFIC CONDUCTANCE: Maximum recorded, 52,200 microsiemens, Aug. 1, 2009, but may have been higher during periods of instrument malfunction; minimum recorded, 14,900 microsiemens, Dec. 21, 2009, but may have been lower during periods of instrument malfunction.

WATER TEMPERATURE: Maximum recorded, 32.5 °C, Aug. 6, 2010, but may have been higher during periods of instrument malfunction; minimum recorded, 6.0 °C, Jan. 11, 2010, but may have been lower during periods of instrument malfunction.

EXTREMES FOR CURRENT YEAR.--

TURBIDITY: Maximum recorded, 150 FNU, Nov. 9, but may have been higher during periods of instrument malfunction; minimum recorded, 5.0 FNU, Apr. 21,22,23, but may have been lower during periods of instrument malfunction.

DISSOLVED OXYGEN: Maximum recorded, 11.6 mg/l, Dec. 21, and Jan. 12, but may have been higher during periods of instrument malfunction; minimum recorded, 0.8 mg/l, May 28, but may have been lower during periods of instrument malfunction.

SPECIFIC CONDUCTANCE: Maximum recorded, 49,800 microsiemens, Mar. 20, but may have been higher during periods of instrument malfunction; minimum recorded, 14,900 microsiemens, Dec. 21, but may have been lower during periods of instrument malfunction.

WATER TEMPERATURE: Maximum recorded, 32.5 °C, Aug. 6, but may have been higher during periods of instrument malfunction; minimum recorded, 6.0 °C, Jan. 11, but may have been lower during periods of instrument malfunction.

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

[FNU, Formazin nephelometric units; LED, light-emitting diode; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter]

Date	Sample start time	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)
04-20-2010	0950	7.1	8.2	36,100	21.7	8.3
04-20-2010	0957	7.2	8.2	36,100	21.7	8.2
04-20-2010	1001	7.2	8.2	36,200	21.7	8.2
04-20-2010	1006	6.0	8.2	38,300	21.8	9.2
04-20-2010	1011	4.1	8.1	41,300	21.6	11
04-20-2010	1638	7.1	8.2	36,100	21.7	8.2
05-19-2010	1540	7.5	8.1	31,700	27.1	80
05-19-2010	1550	7.5	8.1	31,700	27.1	80
05-19-2010	1553	6.6	8.1	33,700	26.7	81
05-19-2010	1556	5.3	8.0	34,000	26.4	82
05-19-2010	1559	2.0	7.8	39,900	25.6	84
08-04-2010	0859	6.9	8.5	35,200	30.9	61
08-04-2010	0902	6.9	8.5	35,300	30.9	60
08-04-2010	0904	6.7	8.5	35,600	30.9	60
08-04-2010	0906	5.4	8.4	37,700	30.8	60
08-04-2010	1000	6.9	8.5	35,200	30.9	61
08-25-2010	1400	6.9	8.4	42,500	30.0	1.0
08-25-2010	1413	6.9	8.4	42,500	30.3	.2
08-25-2010	1415	6.8	8.4	43,000	29.9	.2
08-25-2010	1425	5.2	8.2	44,600	29.7	1.5
08-25-2010	1428	3.7	8.1	47,200	28.5	1.7

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

[N, nitrogen; mg/L, milligrams per liter; °C, degrees Celsius; <, less than]

Carbonaceous biochemical oxygen demand,							
Date	Sample start time	Biochemical oxygen demand, water, unfiltered, 5 days at 20 °C, mg/L (00310)	water, unfiltered, 5 days at 20 degrees Celsius, milligrams per liter (80082)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, unfiltered, mg/L as N (00610)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate plus nitrite, water, unfiltered, mg/L as N (00630)
03-04-2010	1300	--	--	< .10	< .040	< .020	< .020
04-20-2010	1638	< 2.0	< 2.0	< .10	< .040	.020	.030
05-19-2010	1540	< 2.0	< 2.0	< .10	< .040	.030	.040
08-04-2010	0906	--	--	--	--	--	--
08-04-2010	1000	< 2.0	< 2.0	.22	< .040	--	< .020
08-25-2010	1400	< 2.0	< 2.0	< .10	< .040	< .020	.030

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

[N, nitrogen; P, phosphorus; mg/L, milligrams per liter; <, less than]

Orthophosphate, Phosphorus, Organic carbon,							
Date	Sample start time	Nitrite, water, filtered, mg/L as N (00613)	Nitrite, water, unfiltered, mg/L as N (00615)	Orthophosphate, water, unfiltered, mg/L as P (70507)	Phosphorus, water, unfiltered, mg/L as P (00665)	Organic carbon, water, filtered, mg/L (00681)	Organic carbon, water, unfiltered, mg/L (00680)
03-04-2010	1300	--	--	--	.090	4.0	< 1.0
04-20-2010	1638	< .005	< .020	.01	.060	4.0	7.0
05-19-2010	1540	< .005	< .020	.01	.030	6.0	12.0
08-04-2010	1000	--	< .020	.02	.060	8.0	14.0
08-25-2010	1400	< .005	< .020	.02	.030	6.0	8.0

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	61	7.0	20	18	8.0	12
2	---	---	---	---	---	---	36	12	19	24	10	12
3	---	---	---	---	---	---	34	10	14	18	9.0	9.7
4	---	---	---	15	6.0	7.1	23	9.0	11	11	8.0	8.9
5	---	---	---	16	6.0	7.2	33	9.0	16	28	9.0	11
6	---	---	---	10	7.0	7.5	36	9.0	13	12	8.0	9.7
7	---	---	---	18	7.0	9.5	22	11	14	29	8.0	9.3
8	---	---	---	31	8.0	15	25	14	18	25	10	15
9	---	---	---	150	12	39	15	10	11	20	10	14
10	---	---	---	130	25	64	19	9.0	12	13	9.0	11
11	---	---	---	41	12	24	22	10	14	21	8.0	10
12	---	---	---	23	9.0	13	91	12	33	11	8.0	8.8
13	---	---	---	9.0	7.0	7.9	22	11	14	10	8.0	8.7
14	---	---	---	9.0	6.0	6.9	14	9.0	11	---	---	---
15	---	---	---	8.0	6.0	6.8	16	9.0	9.9	---	---	---
16	---	---	---	9.0	6.0	7.0	15	10	11	---	---	---
17	---	---	---	18	8.0	10	56	9.0	17	---	---	---
18	---	---	---	9.0	7.0	7.6	50	12	23	---	---	---
19	---	---	---	9.0	6.0	7.5	16	10	13	---	---	---
20	---	---	---	13	7.0	8.9	12	8.0	9.3	---	---	---
21	---	---	---	37	7.0	14	14	9.0	12	---	---	---
22	---	---	---	24	8.0	12	14	7.0	8.6	---	---	---
23	---	---	---	12	7.0	8.0	16	7.0	9.1	---	---	---
24	---	---	---	11	6.0	7.6	42	10	18	---	---	---
25	---	---	---	9.0	6.0	6.2	51	14	25	---	---	---
26	---	---	---	12	6.0	7.5	14	10	12	---	7.0	---
27	---	---	---	12	8.0	8.7	13	9.0	10	54	6.0	16
28	---	---	---	10	6.0	7.2	12	8.0	9.8	16	6.0	9.5
29	---	---	---	9.0	6.0	7.2	11	7.0	8.3	42	8.0	16
30	---	---	---	10	6.0	7.6	11	7.0	8.7	35	11	20
31	---	---	---	---	---	---	11	8.0	8.6	19	8.0	13
Month	---	---	---	---	---	---	91	7.0	14	---	---	---

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	13	8.0	9.3	67	11	18	---	---	8.2	22	9.0	12
2	10	6.0	7.7	58	18	36	---	---	8.5	20	9.0	13
3	13	6.0	8.1	37	19	24	---	---	9.0	16	8.0	11
4	23	6.0	13	21	11	16	---	---	8.2	19	8.0	12
5	24	10	14	11	9.0	10	---	---	8.1	14	9.0	11
6	24	12	16	11	9.0	9.7	11	7.0	8.2	14	9.0	11
7	12	7.0	9.1	10	9.0	9.2	---	---	---	17	9.0	12
8	18	8.0	12	10	8.0	9.0	---	---	---	23	10	13
9	26	10	13	26	9.0	13	---	---	---	18	10	14
10	23	9.0	14	19	10	13	---	---	---	14	7.0	9.0
11	11	9.0	10	31	12	16	---	---	---	10	7.0	8.1
12	19	9.0	12	32	10	14	---	---	---	9.0	7.0	7.9
13	14	11	12	24	12	16	---	---	---	22	8.0	10
14	11	10	10	15	10	11	---	---	---	17	9.0	11
15	15	10	12	10	9.0	9.6	---	---	14	12	9.0	10
16	12	9.0	10	12	8.0	9.0	---	---	13	17	9.0	12
17	10	8.0	9.0	11	8.0	8.4	40	11	18	15	9.0	9.7
18	10	8.0	9.3	9.0	8.0	8.0	---	---	---	11	9.0	9.4
19	10	9.0	9.0	8.0	8.0	8.0	---	---	---	---	---	9.1
20	10	9.0	9.0	11	8.0	8.6	---	---	---	---	---	---
21	26	9.0	12	49	10	23	7.0	5.0	6.0	---	---	---
22	28	9.0	12	21	13	16	7.0	5.0	5.2	---	---	---
23	12	9.0	11	16	10	12	11	5.0	7.5	---	---	---
24	15	11	12	11	9.0	9.7	27	8.0	13	---	---	---
25	15	11	12	14	9.0	9.8	25	10	13	---	---	---
26	12	10	11	13	8.0	9.9	18	9.0	12	---	---	9.0
27	12	11	11	10	8.0	8.9	16	8.0	9.5	11	8.0	8.9
28	12	10	11	20	8.0	9.7	11	7.0	8.2	21	8.0	8.9
29	---	---	---	25	9.0	16	10	6.0	7.5	18	8.0	9.6
30	---	---	---	11	8.0	8.8	23	9.0	14	12	9.0	9.9
31	---	---	---	11	8.0	8.1	---	---	---	11	8.0	8.7
Month	28	6.0	11	67	8.0	13	---	---	---	---	---	---

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	9.0	8.0	8.2	19	10	12	---	---	---	---	---	---
2	9.0	8.0	8.0	12	9.0	10	---	---	---	---	---	---
3	17	8.0	8.8	16	9.0	10	---	---	---	---	---	---
4	10	8.0	8.8	17	11	13	---	---	---	---	---	---
5	9.0	8.0	8.5	16	9.0	11	---	---	---	---	---	---
6	10	8.0	8.3	17	11	14	---	---	---	---	---	---
7	10	8.0	8.1	14	9.0	11	---	---	---	---	---	---
8	10	8.0	8.3	13	8.0	9.4	---	---	---	---	---	---
9	10	7.0	8.2	---	---	8.4	---	---	---	---	---	---
10	11	7.0	8.2	---	---	---	---	---	---	---	---	---
11	9.0	7.0	8.1	---	---	---	---	---	---	---	---	---
12	9.0	7.0	7.9	---	---	---	---	---	---	---	---	---
13	8.0	7.0	7.7	---	---	---	---	---	---	---	---	---
14	8.0	7.0	7.5	---	---	---	---	---	---	---	---	---
15	8.0	7.0	7.6	---	---	---	---	---	---	---	---	---
16	9.0	7.0	8.0	---	---	---	---	---	---	---	---	---
17	9.0	7.0	8.0	---	---	---	---	---	---	---	---	---
18	9.0	8.0	8.0	---	---	---	---	---	---	---	---	---
19	20	7.0	8.7	---	---	---	---	---	---	---	---	---
20	11	8.0	8.4	---	---	---	---	---	---	---	---	---
21	10	8.0	8.1	---	---	---	---	---	---	---	---	---
22	13	8.0	8.8	---	---	---	---	---	---	---	---	---
23	13	8.0	9.4	---	---	---	---	---	---	---	---	---
24	10	8.0	8.5	---	---	---	---	---	---	---	---	---
25	9.0	8.0	8.1	---	---	---	---	---	---	---	---	---
26	10	8.0	8.6	---	---	---	---	---	---	---	---	---
27	13	8.0	8.9	---	---	---	---	---	---	---	---	---
28	17	9.0	9.7	---	---	---	---	---	---	---	---	---
29	23	9.0	12	---	---	---	---	---	---	---	---	---
30	21	10	14	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	23	7.0	8.6	---	---	---	---	---	---	---	---	---

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	8.2	7.3	7.8	9.5	9.0	9.3
2	---	---	---	---	---	---	8.0	7.4	7.7	9.5	9.1	9.4
3	---	---	---	---	---	---	8.6	7.7	8.2	9.9	9.3	9.5
4	---	---	---	7.5	5.9	6.7	9.6	8.0	8.6	10.6	9.4	10.2
5	---	---	---	7.6	5.9	6.8	9.1	8.4	8.7	10.9	10.1	10.5
6	---	---	---	7.8	6.2	7.0	9.4	8.3	8.8	11.0	9.8	10.4
7	---	---	---	7.8	6.8	7.3	9.6	8.3	8.8	10.9	8.9	10
8	---	---	---	7.7	7.1	7.4	8.5	8.2	8.3	10.5	9.9	10.3
9	---	---	---	8.0	7.1	7.4	10.4	8.4	9.4	10.5	10.1	10.3
10	---	---	---	7.5	7.1	7.3	9.7	8.8	9.2	10.5	9.9	10.4
11	---	---	---	7.7	7.1	7.4	9.0	8.6	8.9	10.8	9.2	10.4
12	---	---	---	7.7	7.0	7.3	9.4	8.2	8.7	11.6	10.3	10.7
13	---	---	---	8.4	6.8	7.7	9.6	8.5	8.9	---	---	10.6
14	---	---	---	8.4	6.4	7.5	9.9	8.7	9.2	---	---	---
15	---	---	---	8.4	4.9	6.9	9.7	8.8	9.2	---	---	---
16	---	---	---	8.7	6.3	7.3	9.4	9.2	9.3	---	---	---
17	---	---	---	7.8	7.2	7.6	9.6	8.3	9.1	---	---	---
18	---	---	---	8.1	6.3	7.4	9.3	8.4	9.0	---	---	---
19	---	---	---	7.8	6.9	7.4	10.2	9.2	9.6	---	---	---
20	---	---	---	8.0	6.5	7.1	10.5	9.0	9.8	---	---	---
21	---	---	---	8.0	6.8	7.5	11.6	9.8	10.4	---	---	---
22	---	---	---	8.0	7.4	7.6	11.2	8.0	9.8	---	---	---
23	---	---	---	8.2	6.5	7.5	9.6	7.8	8.6	---	---	---
24	---	---	---	8.3	6.5	7.4	9.2	8.3	8.9	---	---	---
25	---	---	---	8.7	7.3	8.2	9.8	8.9	9.3	---	---	---
26	---	---	---	8.7	8.2	8.5	9.7	8.5	9.2	---	---	---
27	---	---	---	8.4	7.7	8.1	10.1	8.5	9.4	9.1	7.9	8.6
28	---	---	---	8.7	7.7	8.0	10.0	9.6	9.9	8.7	7.0	7.9
29	---	---	---	8.2	7.6	8.0	10.1	7.9	9.5	8.8	8.0	8.6
30	---	---	---	8.5	7.8	8.2	10.2	7.0	8.9	9.0	8.7	8.8
31	---	---	---	---	---	---	9.9	8.4	9.2	9.1	8.2	8.7
Month	---	---	---	---	---	---	11.6	7.0	9.0	---	---	---

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	9.1	8.6	8.9	9.6	8.8	9.2	---	---	8.3	9.0	7.2	8.1
2	10.2	7.4	8.9	9.2	8.9	9.1	---	---	8.6	8.7	7.3	8.2
3	10.4	8.8	9.4	9.8	9.2	9.4	---	---	7.9	9.9	7.3	8.3
4	9.9	8.6	9.1	9.8	9.3	9.6	---	---	7.6	8.8	5.5	7.5
5	9.5	8.6	9.2	9.7	8.6	9.4	---	---	7.4	9.4	7.7	8.3
6	9.6	9.2	9.4	10.0	8.7	9.4	7.8	7.2	7.5	8.7	7.6	8.3
7	9.3	6.7	8.4	10.2	9.0	9.5	---	---	---	9.2	7.2	8.3
8	9.5	8.3	9.0	10.3	8.8	9.5	---	---	---	9.5	8.0	9.0
9	10.0	8.4	9.4	10.0	8.4	9.0	---	---	---	8.9	6.5	7.9
10	9.9	8.7	9.5	8.9	8.2	8.7	---	---	---	8.9	4.0	7.2
11	10.2	9.1	9.5	8.7	7.7	8.4	---	---	---	8.6	6.0	7.7
12	9.9	9.3	9.7	8.8	8.4	8.7	---	---	---	8.3	5.7	7.6
13	10.1	9.6	9.8	8.7	8.4	8.6	---	---	---	8.9	6.3	7.8
14	10.9	9.8	10.2	8.9	8.2	8.6	---	---	---	9.1	5.8	7.6
15	10.9	10.4	10.7	9.1	8.5	8.8	---	---	5.8	8.1	6.9	7.5
16	10.8	9.9	10.4	9.2	8.6	8.9	---	---	5.8	7.9	6.2	7.1
17	10.6	9.9	10.3	9.3	8.2	8.8	6.6	5.2	6.0	8.8	6.8	7.7
18	10.4	7.4	9.0	9.2	8.7	8.9	---	---	5.9	9.7	7.4	8.4
19	9.9	6.7	8.7	8.9	7.7	8.4	---	---	---	9.0	5.1	7.3
20	10.0	8.9	9.4	8.6	6.4	7.7	---	---	---	9.6	5.4	7.8
21	10.1	8.7	9.5	8.3	6.7	7.9	7.8	5.5	6.7	8.6	6.5	7.9
22	9.9	8.7	9.3	8.8	8.1	8.5	7.6	6.6	7.1	9.4	6.2	8.2
23	10.9	9.8	10.2	8.5	7.6	8.1	7.8	3.9	6.4	8.8	6.6	7.5
24	9.9	9.4	9.8	9.1	6.6	8.4	7.9	6.0	7.1	10.7	6.8	7.9
25	9.7	8.5	9.2	8.8	7.0	8.1	9.1	6.8	8.0	9.2	5.1	8.1
26	9.6	8.6	9.1	8.9	8.2	8.6	9.1	8.1	8.5	6.7	3.5	5.4
27	9.8	9.1	9.4	9.1	8.0	8.6	9.2	6.9	8.5	7.2	2.6	4.8
28	9.4	9.0	9.2	9.0	7.7	8.6	8.6	4.1	7.2	7.9	0.8	4.3
29	---	---	---	8.9	8.3	8.6	8.6	6.8	7.8	7.6	1.4	4.8
30	---	---	---	8.8	7.5	8.4	7.8	6.6	7.3	8.1	4.3	5.8
31	---	---	---	8.8	7.3	8.1	---	---	---	7.6	4.6	6.5
Month	10.9	6.7	9.4	10.3	6.4	8.7	---	---	---	10.7	0.8	7.4

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	8.5	4.6	6.5	10.2	6.0	7.3	8.6	3.5	6.3	8.5	6.0	7.1
2	8.2	6.3	7.1	10.9	6.8	8.2	8.1	5.4	6.8	8.6	5.9	7.3
3	8.0	3.5	6.3	10.2	6.9	8.4	8.1	5.6	7.0	8.2	6.5	7.4
4	8.2	4.6	6.8	9.2	7.3	8.0	9.1	6.1	7.4	8.2	6.6	7.4
5	7.4	6.0	6.9	8.3	6.6	7.7	9.7	4.4	7.0	6.9	4.2	5.7
6	7.5	5.7	6.7	8.4	6.7	7.5	8.9	4.9	6.9	7.2	4.4	5.9
7	7.1	5.8	6.5	10.1	7.2	8.7	8.0	6.0	7.1	8.7	4.4	6.1
8	6.9	2.8	4.9	11.2	7.1	9.1	8.3	5.4	6.5	6.7	3.5	5.3
9	7.4	4.0	5.8	10.1	7.4	9.0	7.0	2.0	4.5	6.5	2.8	5.2
10	7.7	6.0	6.9	9.6	5.9	8.1	7.7	3.0	5.6	7.3	3.0	5.7
11	7.3	5.9	6.7	9.1	6.6	7.8	6.6	3.2	5.5	7.7	3.4	6.7
12	7.7	5.2	6.3	8.1	5.0	7.2	6.0	4.5	5.4	7.6	3.1	6.4
13	7.4	5.4	6.4	8.9	5.6	7.8	6.6	4.3	5.7	9.0	3.3	6.4
14	7.3	3.2	5.4	9.9	7.1	8.6	7.5	6.0	6.6	7.5	4.8	6.1
15	6.8	3.3	5.1	9.1	5.7	7.3	7.5	6.0	6.8	6.8	5.4	6.3
16	7.3	3.6	5.0	9.7	5.3	7.3	7.7	6.2	6.7	8.0	5.3	6.3
17	7.0	4.7	5.7	9.6	4.8	7.5	7.2	4.3	5.7	7.1	5.2	6.4
18	7.8	5.5	6.7	9.3	7.0	8.1	7.7	5.5	6.4	7.1	5.0	6.0
19	7.6	5.0	6.4	8.6	3.1	7.0	7.6	5.9	6.8	9.2	5.2	7.1
20	7.0	2.6	4.6	9.2	2.6	6.7	7.8	5.0	6.6	10.1	6.9	8.1
21	7.8	4.2	6.0	8.9	3.6	7.6	7.6	5.9	6.8	9.8	6.9	8.6
22	6.6	3.0	5.2	8.9	6.5	7.5	7.4	5.8	6.7	8.0	6.2	7.0
23	6.5	2.2	5.6	9.2	6.0	7.7	7.3	5.4	6.6	7.4	5.9	6.8
24	6.8	5.0	5.9	8.8	6.7	7.5	7.3	5.9	6.7	6.4	4.8	5.7
25	8.0	5.4	6.5	8.1	6.4	7.4	7.4	4.8	6.4	7.7	5.1	6.7
26	7.8	4.1	6.4	8.7	6.1	7.3	7.1	5.0	6.3	8.2	6.6	7.5
27	7.6	4.4	6.2	9.3	6.8	7.8	6.7	5.1	6.1	7.9	5.8	7.1
28	6.4	3.6	4.7	8.8	5.7	7.4	6.4	5.3	5.7	9.4	5.6	6.6
29	6.7	3.5	5.1	9.7	6.3	7.7	7.0	5.4	6.1	8.4	5.8	7.1
30	7.8	5.2	6.6	8.6	4.1	7.0	7.8	5.8	6.5	8.5	6.4	7.2
31	---	---	---	8.3	1.9	6.4	7.9	5.9	6.7	---	---	---
Month	8.5	2.2	6.0	11.2	1.9	7.7	9.7	2.0	6.4	10.1	2.8	6.6

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	38,300	35,100	---	---	49,500	43,900	34,700	31,200	42,300	39,600	42,800	34,700
2	38,700	35,100	---	---	49,300	46,800	34,900	34,000	41,400	26,600	42,400	39,900
3	39,800	36,000	38,900	35,700	47,800	43,400	37,000	34,100	39,700	26,800	40,000	37,700
4	39,400	36,800	39,700	36,700	46,000	40,800	37,000	28,400	43,200	32,000	40,600	37,700
5	39,400	37,100	38,800	37,100	45,100	43,500	35,500	30,100	40,700	33,600	43,100	35,000
6	40,700	36,800	40,400	38,300	47,700	42,900	36,600	34,500	37,000	33,800	44,000	34,100
7	---	---	40,600	38,800	47,700	39,900	42,000	35,200	37,200	33,200	43,800	36,200
8	---	---	42,500	39,700	48,400	44,300	39,000	35,600	40,900	33,300	44,500	35,800
9	---	---	43,800	40,900	46,000	36,200	40,300	37,700	39,900	31,700	45,200	37,600
10	---	---	44,000	41,500	41,500	38,100	41,200	39,900	37,600	33,800	44,600	43,500
11	---	---	43,700	40,900	42,900	39,600	43,200	38,800	38,200	30,100	44,700	43,400
12	---	---	42,300	40,400	47,600	37,000	43,100	33,200	38,700	33,300	43,900	39,800
13	---	---	41,500	34,000	44,200	36,800	---	---	37,400	34,000	39,800	37,200
14	---	---	42,500	37,700	40,300	32,400	---	---	36,700	28,700	39,000	36,200
15	---	---	44,600	37,900	36,100	27,800	---	---	34,300	28,000	38,900	38,000
16	---	---	47,000	37,500	31,900	26,500	---	---	35,400	27,900	40,800	37,600
17	---	---	45,100	42,700	45,900	28,900	---	---	32,600	30,400	39,700	38,100
18	---	---	45,600	40,500	45,300	30,600	---	---	38,000	31,800	39,700	38,700
19	---	---	46,000	42,500	33,000	24,900	---	---	37,800	33,100	45,000	38,400
20	---	---	46,000	44,000	34,500	23,800	---	---	45,200	33,000	49,800	42,800
21	---	---	46,300	44,000	26,000	14,900	---	---	45,400	32,800	49,200	45,800
22	---	---	46,200	44,300	40,900	21,700	---	---	43,600	34,900	46,100	43,800
23	---	---	45,400	43,100	42,100	34,100	---	---	34,900	27,300	45,500	40,700
24	---	---	45,400	42,400	40,900	35,900	---	---	35,900	31,500	48,900	39,200
25	---	---	44,300	40,100	37,500	23,900	---	---	38,900	35,900	48,200	44,200
26	---	---	42,300	40,200	34,900	24,200	---	---	41,200	35,700	44,600	41,400
27	---	---	44,100	42,300	35,900	23,000	41,200	37,500	40,300	37,400	46,300	40,000
28	---	---	44,600	44,000	24,700	21,500	41,700	39,500	39,600	37,400	46,200	41,900
29	---	---	44,800	43,200	36,800	23,900	43,000	41,600	---	---	42,400	41,600
30	---	---	44,700	43,300	42,700	25,100	42,300	40,800	---	---	43,800	41,600
31	---	---	---	---	39,600	29,800	42,800	39,700	---	---	43,700	42,100
Month	---	---	---	---	49,500	14,900	---	---	45,400	26,600	49,800	34,100

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	43,300	40,400	40,000	38,900	32,000	29,800	34,900	34,000	36,800	31,800	42,700	41,200
2	44,300	41,200	39,000	35,100	31,700	30,000	34,200	33,400	35,800	33,400	42,700	41,000
3	---	---	35,600	34,200	34,600	31,000	35,500	32,500	37,000	34,000	42,000	37,700
4	40,100	38,400	36,400	34,900	33,800	31,100	34,900	34,400	35,100	32,300	38,600	36,500
5	39,700	37,700	35,200	32,100	31,500	31,100	36,300	33,500	38,000	33,600	40,500	37,200
6	38,400	36,700	33,100	30,300	31,600	30,600	35,700	34,100	37,600	33,900	39,900	37,800
7	---	---	33,700	31,800	30,800	29,500	37,300	35,400	36,900	34,900	38,900	37,400
8	---	---	32,700	30,700	32,300	29,900	36,100	33,300	40,000	36,500	38,500	37,100
9	---	---	39,300	32,500	31,400	29,900	33,400	29,200	46,400	38,800	38,100	36,700
10	---	---	39,900	31,900	31,700	30,400	32,800	27,600	43,400	40,500	37,700	36,200
11	---	---	38,800	35,500	30,800	29,800	31,400	27,600	44,000	40,100	37,000	32,900
12	---	---	37,500	35,200	30,600	29,200	35,800	29,800	43,000	40,400	36,200	30,100
13	---	---	37,000	34,800	29,800	27,800	35,300	27,500	42,600	40,600	37,800	32,400
14	---	---	36,800	35,200	28,600	27,000	31,200	27,200	41,000	39,900	38,800	36,200
15	---	---	36,400	35,200	30,000	28,300	33,300	29,100	40,900	39,300	40,500	36,400
16	34,700	32,600	36,000	33,800	30,800	29,200	34,000	29,400	41,000	39,000	40,900	36,900
17	33,900	29,700	34,400	30,000	30,200	29,400	33,300	29,900	42,600	40,300	39,700	36,800
18	---	---	32,600	29,500	30,500	30,000	31,900	29,800	41,200	39,800	40,100	36,200
19	---	---	34,700	29,600	31,900	30,300	33,900	29,400	40,900	38,300	40,700	36,500
20	---	---	33,300	31,200	34,200	31,900	34,100	30,000	40,200	37,600	41,200	37,900
21	36,500	28,800	32,400	30,200	33,800	32,600	33,300	30,100	39,800	37,500	41,200	37,500
22	36,300	31,500	32,100	29,800	36,400	33,500	31,400	30,400	40,200	36,700	40,900	38,400
23	40,200	33,200	31,500	27,900	38,300	34,200	30,800	29,600	41,500	36,500	40,500	38,000
24	37,600	35,800	29,600	27,900	34,800	34,100	31,400	29,600	41,400	38,800	39,700	38,000
25	36,700	32,300	29,800	28,200	34,700	33,100	32,400	29,800	43,300	39,400	40,900	37,400
26	32,300	31,000	31,500	28,600	34,300	32,800	32,200	29,500	44,300	41,600	38,300	34,500
27	33,600	31,300	30,200	29,400	34,500	32,900	31,400	28,000	43,800	42,500	39,900	36,100
28	45,300	33,300	29,600	29,000	34,700	33,800	29,500	27,100	44,000	42,100	39,300	37,200
29	40,400	34,500	31,100	29,000	34,700	33,900	28,500	26,800	43,400	41,000	39,900	37,200
30	40,700	39,000	33,800	31,000	35,500	34,500	32,300	27,100	43,500	40,600	39,900	37,500
31	---	---	34,500	31,600	---	---	36,000	28,700	42,700	41,000	---	---
Month	---	---	40,000	27,900	38,300	27,000	37,300	26,800	46,400	31,800	42,700	30,100

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	27.2	25.8	20.9	19.8	18.2	16.1	13.1	12.4	12.4	11.9	13.4	12.2
2	26.8	25.9	20.2	19.3	18.0	17.0	12.4	11.5	13.3	11.5	13.2	11.7
3	26.5	25.6	20.2	19.3	17.0	15.1	11.6	10.8	13.1	12.4	12.0	11.1
4	26.4	25.8	20.5	19.3	15.6	14.0	11.0	8.9	13.5	12.2	12.3	11.2
5	26.4	25.9	20.4	19.5	14.4	13.5	8.9	8.1	13.2	12.6	12.6	11.4
6	27.4	25.9	20.3	19.6	14.9	13.2	9.2	8.0	12.6	12.2	13.2	11.2
7	28.5	26.8	20.7	19.4	14.8	13.2	11.2	8.4	12.2	11.3	13.7	11.7
8	28.4	26.9	20.4	19.7	16.3	14.0	9.8	8.2	12.6	11.1	14.0	12.6
9	28.9	27.4	20.7	19.9	15.8	14.3	8.8	7.7	12.6	11.8	14.3	13.4
10	28.7	27.1	20.6	19.6	14.7	13.8	8.2	7.1	11.8	11.0	15.4	14.2
11	27.4	26.6	19.8	19.1	14.3	13.3	8.0	6.0	11.0	9.5	16.4	14.8
12	27.3	26.6	19.4	18.5	15.4	12.3	8.6	7.0	10.6	9.8	16.6	15.7
13	27.1	26.7	18.8	16.8	14.2	12.7	---	---	10.0	9.1	16.1	15.3
14	27.5	26.8	19.2	17.3	13.9	11.9	---	---	10.2	8.8	16.0	14.9
15	27.8	26.9	19.9	17.4	14.1	12.2	---	---	10.0	9.0	16.5	15.5
16	27.6	25.5	20.5	17.7	14.1	13.3	---	---	10.3	8.7	16.7	15.6
17	25.5	22.9	20.0	18.7	14.7	12.8	---	---	10.0	8.9	15.9	15.6
18	23.2	21.4	19.1	17.9	14.5	12.8	---	---	11.5	9.3	15.9	15.2
19	22.1	19.3	19.0	17.6	12.8	11.7	---	---	11.6	10.0	16.2	15.1
20	22.0	19.9	18.6	18.1	12.4	10.9	---	---	13.2	10.1	16.7	15.8
21	22.5	21.1	18.5	17.9	11.9	10.3	---	---	13.0	11.3	16.7	15.4
22	22.7	21.7	18.5	17.6	13.5	11.1	---	---	13.8	12.5	15.4	14.4
23	22.9	22.0	18.1	17.4	13.8	12.8	---	---	13.7	12.6	15.6	14.4
24	22.0	21.0	18.1	17.6	14.3	13.8	---	---	12.7	11.9	16.7	15.0
25	22.1	20.1	17.8	17.1	14.1	12.3	---	---	12.0	11.1	16.9	15.9
26	21.9	19.9	17.1	16.5	12.9	11.7	---	---	12.6	10.8	16.9	16.0
27	21.2	19.9	16.5	15.9	13.1	11.7	13.6	12.6	12.6	11.8	17.6	16.4
28	20.6	19.8	16.7	15.7	11.8	11.0	13.8	12.6	12.8	12.0	18.0	17.1
29	21.2	20.2	16.9	15.5	12.9	10.4	14.2	13.5	---	---	17.6	16.9
30	22.5	20.6	16.8	15.8	14.2	10.4	14.0	12.7	---	---	17.8	16.8
31	22.1	20.5	---	---	13.5	12.3	12.7	12.0	---	---	17.8	17.1
Month	28.9	19.3	20.9	15.5	18.2	10.3	---	---	13.8	8.7	18.0	11.1

301527088521500 MISSISSIPPI SOUND AT USGS EAST SHIP ISLAND LIGHT—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	18.9	17.4	23.0	21.6	29.4	28.0	29.6	28.7	32.3	31.1	28.4	27.7
2	19.2	17.8	23.6	22.8	29.0	28.2	30.1	29.0	32.4	31.4	28.8	27.8
3	---	---	24.1	23.4	28.7	27.4	30.1	29.0	31.9	31.2	29.7	28.2
4	19.8	19.2	25.1	23.5	28.3	27.1	29.4	28.6	31.9	30.9	29.6	28.3
5	20.5	19.4	25.4	24.5	28.6	27.6	29.1	28.5	32.1	30.8	28.7	28.0
6	21.6	20.1	26.0	25.1	29.4	28.0	28.5	28.2	32.5	31.0	28.9	28.0
7	---	---	26.7	24.6	29.4	28.4	29.0	28.0	32.2	31.2	29.3	28.2
8	---	---	26.5	25.3	29.8	28.5	29.7	28.4	32.0	30.9	29.5	28.4
9	---	---	25.7	22.6	30.1	28.8	30.5	29.4	31.2	29.3	29.8	28.9
10	---	---	24.6	23.3	30.6	29.3	30.8	29.7	31.2	30.1	30.8	29.3
11	---	---	25.3	23.8	31.5	29.8	30.7	29.9	31.1	30.3	31.4	29.4
12	---	---	25.9	24.6	32.1	30.0	30.3	29.7	30.5	30.0	31.0	29.9
13	---	---	26.3	25.1	32.0	30.7	30.7	29.6	30.2	29.7	30.9	29.3
14	---	---	26.7	25.5	32.1	31.1	31.0	30.1	30.3	29.6	30.3	29.4
15	---	---	26.2	25.9	32.0	31.1	31.1	30.0	30.5	29.9	29.8	29.3
16	22.6	21.5	26.0	25.4	32.0	30.6	30.3	30.0	30.8	29.6	29.7	29.0
17	22.9	22.0	26.3	25.1	31.8	30.9	31.4	29.6	30.4	29.6	29.7	29.1
18	---	---	27.2	25.8	31.9	30.9	30.9	30.0	30.8	29.5	29.6	29.2
19	---	---	27.2	26.2	31.9	30.6	30.4	29.7	30.6	30.0	30.1	29.2
20	---	---	27.8	26.5	32.0	29.7	30.5	29.6	31.0	29.9	30.0	29.4
21	22.2	21.0	28.1	27.3	31.8	30.5	31.0	29.8	31.1	30.2	30.0	29.3
22	22.4	22.0	28.7	27.2	30.7	29.6	31.5	30.2	31.5	30.3	29.5	29.0
23	22.5	21.8	29.6	28.0	30.6	29.2	32.0	30.5	30.7	30.0	29.1	28.5
24	22.8	22.3	29.7	28.7	31.4	30.0	31.9	31.2	30.6	29.9	29.1	28.3
25	24.0	22.2	29.6	27.9	31.6	30.6	31.2	30.7	30.1	29.2	29.1	28.5
26	23.7	22.9	28.7	27.7	32.0	30.8	31.5	30.4	30.1	28.9	29.2	28.6
27	23.2	22.2	29.3	28.0	32.2	31.0	32.1	30.7	29.6	28.7	28.9	27.8
28	22.2	20.2	29.6	28.5	31.6	30.4	32.0	31.1	28.9	27.8	28.0	27.2
29	21.7	20.9	29.1	28.3	30.4	29.8	32.2	31.1	28.1	27.6	27.2	26.5
30	21.7	21.1	28.4	27.5	30.1	29.3	31.9	31.1	28.3	27.6	26.5	25.6
31	---	---	28.7	27.3	---	---	32.2	31.0	28.6	27.7	---	---
Month	---	---	29.7	21.6	32.2	27.1	32.2	28.0	32.5	27.6	31.4	25.6