



Water-Data Report 2009

## 412928081560220 Lake Erie at Huntington Reservation, OH

Southern Lake Erie Basin  
Black-Rocky Subbasin

LOCATION.--Lat 41°29'28", long 81°56'02" referenced to North American Datum of 1927, Cuyahoga County, OH, Hydrologic Unit 04110001, data buoy located 900 ft to 1,200 ft offshore in 6 ft to 7 ft of water at Huntington Beach Park in Bay Village.

### WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--Wave Height: June 2008 to current year. Turbidity: June 2009 to September, 2009. Water Temperature: June 2009 to September, 2009.

INSTRUMENTATION.--Electronic datalogger set to record 0.5 second water depths for 18 minutes every half hour. The depth data are then used to compute a significant wave height. DTS 12 digital turbidity sensor factory calibrated and set to measure turbidity and water temperature every hour 1.5 ft below the surface. Data is transmitted twice per hour.

REMARKS.--Seasonal site. The monitor is installed near the end of May and removed in mid September as part of the Nowcast beach forecasting network. Interruptions in the water quality record during this period are due to malfunction of the instrument or corrections above the acceptable limits.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WAVE HEIGHT: Maximum, 4.8 ft, June 25, 2009, minimum, 0.0 ft, June 21, 25, 2008 and June 24, July 4, 5, 2009.

EXTREMES FOR CURRENT YEAR.--

WAVE HEIGHT: Maximum, 4.8 ft, June 25, minimum, 0.0 ft, June 24, July 4, 5.

WATER TEMPERATURE: Maximum daily mean, 25.4 °C, June 26; minimum daily mean, 17.6 °C, June 9.

TURBIDITY: Maximum, 88 FNU, August 5; minimum, 0.6 FNU, July 29.

## 412928081560220 Lake Erie at Huntington Reservation, OH—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	22.2	24.4	21.9
2	---	---	---	---	---	---	---	---	---	22.0	24.2	22.1
3	---	---	---	---	---	---	---	---	---	21.5	24.0	22.5
4	---	---	---	---	---	---	---	---	---	21.9	23.4	22.9
5	---	---	---	---	---	---	---	---	---	23.3	23.3	23.2
6	---	---	---	---	---	---	---	---	17.9	23.3	23.3	23.3
7	---	---	---	---	---	---	---	---	18.6	23.2	23.5	22.8
8	---	---	---	---	---	---	---	---	17.8	23.3	22.6	22.5
9	---	---	---	---	---	---	---	---	17.6	23.2	23.3	22.7
10	---	---	---	---	---	---	---	---	19.6	23.6	24.0	22.6
11	---	---	---	---	---	---	---	---	19.4	22.6	24.2	22.0
12	---	---	---	---	---	---	---	---	19.9	23.0	24.7	21.6
13	---	---	---	---	---	---	---	---	20.4	24.0	---	21.8
14	---	---	---	---	---	---	---	---	20.9	23.9	---	22.2
15	---	---	---	---	---	---	---	---	20.7	23.2	---	22.7
16	---	---	---	---	---	---	---	---	19.7	22.9	---	---
17	---	---	---	---	---	---	---	---	18.7	23.1	---	---
18	---	---	---	---	---	---	---	---	19.5	22.9	---	---
19	---	---	---	---	---	---	---	---	19.8	23.2	---	---
20	---	---	---	---	---	---	---	---	20.3	23.6	---	---
21	---	---	---	---	---	---	---	---	21.9	23.6	---	---
22	---	---	---	---	---	---	---	---	23.1	22.6	---	---
23	---	---	---	---	---	---	---	---	24.5	22.0	---	---
24	---	---	---	---	---	---	---	---	25.0	22.5	---	---
25	---	---	---	---	---	---	---	---	25.2	22.7	---	---
26	---	---	---	---	---	---	---	---	25.4	22.6	---	---
27	---	---	---	---	---	---	---	---	25.2	23.1	---	---
28	---	---	---	---	---	---	---	---	23.2	23.5	---	---
29	---	---	---	---	---	---	---	---	22.1	23.3	23.1	---
30	---	---	---	---	---	---	---	---	22.2	23.6	21.5	---
31	---	---	---	---	---	---	---	---	---	24.3	21.3	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	23.0	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	24.3	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	21.5	---	---

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**TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS (FNU)  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	---	---	---	---	---	---	17	7.2	3.3	1.8	11	4.8
2	---	---	---	---	---	---	15	6.7	11	1.2	14	2.2
3	---	---	---	---	---	---	45	15	5.5	1.8	16	1.8
4	---	---	---	---	---	---	25	4.8	2.8	1.2	10	2.5
5	---	---	---	---	---	---	11	4.1	88	1.6	8.4	2.4
6	---	---	---	---	9.4	5.0	5.9	3.3	17	4.2	38	3.4
7	---	---	---	---	9.5	3.5	19	3.2	11	3.5	21	9.4
8	---	---	---	---	27	7.4	13	4.0	11	2.6	32	7.7
9	---	---	---	---	22	2.8	22	2.1	5.1	1.9	58	9.8
10	---	---	---	---	9.7	1.8	16	3.4	3.8	1.4	33	13
11	---	---	---	---	28	7.0	6.2	1.9	5.8	1.4	52	6.7
12	---	---	---	---	30	8.0	9.9	2.1	21	3.9	50	12
13	---	---	---	---	9.7	4.3	16	2.9	---	---	19	8.0
14	---	---	---	---	6.0	3.5	22	4.8	---	---	12	2.8
15	---	---	---	---	6.1	3.4	6.1	1.8	---	---	17	2.3
16	---	---	---	---	32	3.9	3.8	0.7	---	---	---	---
17	---	---	---	---	20	5.2	22	1.0	---	---	---	---
18	---	---	---	---	26	6.1	20	9.9	---	---	---	---
19	---	---	---	---	10	4.7	28	5.5	---	---	---	---
20	---	---	---	---	9.3	3.4	30	2.6	---	---	---	---
21	---	---	---	---	14	3.0	30	5.3	---	---	---	---
22	---	---	---	---	5.9	1.8	23	5.7	---	---	---	---
23	---	---	---	---	3.1	1.4	37	4.3	---	---	---	---
24	---	---	---	---	3.1	0.9	22	4.3	---	---	---	---
25	---	---	---	---	14	0.9	4.8	1.4	---	---	---	---
26	---	---	---	---	12	2.7	5.1	1.2	---	---	---	---
27	---	---	---	---	29	4.2	5.8	2.0	---	---	---	---
28	---	---	---	---	23	2.9	2.9	1.6	---	---	---	---
29	---	---	---	---	26	4.0	2.5	0.6	47	12	---	---
30	---	---	---	---	34	14	3.2	1.3	70	12	---	---
31	---	---	---	---	---	---	2.9	0.9	64	7.4	---	---
<b>Month</b>	---	---	---	---	---	---	45	0.6	---	---	---	---

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**WAVE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	---	---	---	---	---	---	0.6	0.1	0.3	0.1	1.3	0.2
2	---	---	---	---	---	---	1.8	0.4	1.2	0.3	1.7	0.1
3	---	---	---	---	---	---	1.8	0.3	0.5	0.1	1.5	0.2
4	---	---	---	---	---	---	1.1	0.0	3.2	0.1	0.8	0.2
5	---	---	---	---	---	---	0.3	0.0	3.7	0.2	0.8	0.1
6	---	---	---	---	0.9	0.1	0.9	0.1	0.8	0.1	2.6	0.3
7	---	---	---	---	1.7	0.2	1.8	0.5	1.5	0.1	1.3	0.2
8	---	---	---	---	1.7	0.6	0.8	0.2	1.8	0.1	2.3	0.2
9	---	---	---	---	1.0	0.1	2.0	0.2	0.8	0.2	2.7	0.5
10	---	---	---	---	1.1	0.4	0.8	0.1	2.0	0.2	2.0	0.6
11	---	---	---	---	2.5	0.4	1.7	0.1	1.7	0.1	2.2	0.3
12	---	---	---	---	1.7	0.2	2.0	0.3	2.2	0.2	2.1	0.6
13	---	---	---	---	1.4	0.1	2.1	0.1	0.7	0.2	1.3	0.2
14	---	---	---	---	1.1	0.1	1.8	0.1	1.4	0.1	0.8	0.1
15	---	---	---	---	0.9	0.2	0.4	0.1	1.2	0.1	3.6	0.4
16	---	---	---	---	2.3	0.1	0.8	0.2	1.0	0.1	---	---
17	---	---	---	---	0.8	0.4	1.9	0.4	1.0	0.1	---	---
18	---	---	---	---	1.4	0.1	1.3	0.6	0.9	0.3	---	---
19	---	---	---	---	2.3	0.1	1.4	0.1	1.1	0.1	---	---
20	---	---	---	---	1.9	0.5	2.3	0.1	0.9	0.1	---	---
21	---	---	---	---	1.5	0.1	2.1	0.3	1.0	0.4	---	---
22	---	---	---	---	0.6	0.1	1.5	0.3	1.8	0.2	---	---
23	---	---	---	---	0.3	0.1	1.9	0.2	2.3	0.6	---	---
24	---	---	---	---	0.3	0.0	0.6	0.1	1.9	0.2	---	---
25	---	---	---	---	4.8	0.1	0.7	0.1	1.0	0.1	---	---
26	---	---	---	---	2.0	0.4	1.0	0.3	2.0	0.2	---	---
27	---	---	---	---	1.7	0.1	0.8	0.1	2.1	1.0	---	---
28	---	---	---	---	1.5	0.1	0.8	0.1	2.7	1.0	---	---
29	---	---	---	---	1.9	0.4	1.2	0.1	2.4	0.7	---	---
30	---	---	---	---	1.7	0.5	0.9	0.1	2.9	1.0	---	---
31	---	---	---	---	---	---	1.2	0.1	2.2	0.5	---	---
Month	---	---	---	---	---	---	2.3	0.0	3.7	0.1	---	---