



# 2024 TIDES & CURRENTS



*With Compliments of*

# The Pilots' Association



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## *for the Bay & River Delaware*

Captain David K. Cuff, President  
800 S. Columbus Boulevard  
Philadelphia, PA 19147

Pilots for all ports on the Delaware River to Trenton, NJ, including services for the Chesapeake and Delaware Canal. Pilot office open and Pilots available 24 hours a day. Masters or agents are requested to advise Delaware Pilots of arrivals and/or sailing times as early as possible.

Dispatchers	– 24 Hours A Day –	215-465-8340
Administration		215-465-2871
Accounting Dept.		215-465-8362
FAX		215-465-3970

VHF Call Sign: WHW 827  
Email: [dispatch@delpilots.com](mailto:dispatch@delpilots.com)  
Pilot Station: 41 Cape Henlopen Drive, Lewes, DE 19958

Pilot Boarding: DELAWARE PILOTS (WHW 819)

Latitude 38°46'14" N                      Longitude 75°01'20" W

Pilots are boarded at the mouth of the Delaware Bay in the vicinity of RACON Buoy "CH" in an area bounded by Buoys "DF", "3HC", "5" and "6". Pilot launches are aluminum or black hulled with white or aluminum houses and the word PILOT displayed in large letters.

Cover Photos:  
Front: A.M. McGuinness  
Back: J. Stuart Griffin



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INSTITUTE  
OF PHILADELPHIA**

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Weekdays 0900 - 2130

Weekends 1200 - 2100



**SEAMEN'S  
CENTER of  
WILMINGTON** Incorporated

Port of Wilmington

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Friday 9-4 Saturday 12-5 Sunday 1-9

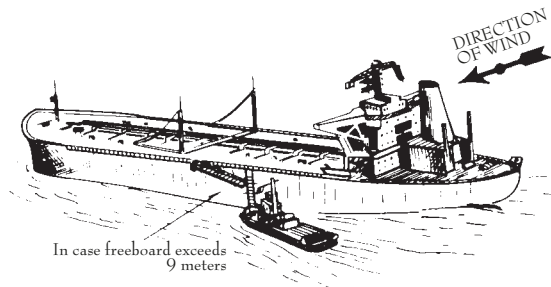
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### TIDES AND CURRENTS:

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# Pilot Ladder Requirements



## REQUIREMENTS

1. Pilot ladder; fitted with spreaders in accordance with SOLAS Regulation 17 chapter V, on ship's lee side and keep the lowest rung 1.5 meters above the water. Pull up rope to be attached to the lower end of the ladder. A sturdy and clean ladder is appreciated.
2. Light: sufficiently illuminate the ladder at night.
3. Heaving Line on hand and ready for use.
4. Boarding speed of about 8 knots.

## Notice

Please be advised that we require notice of two (2) hours before getting underway from Big Stone Beach. We monitor Channels 14 and 16, or please notify Delaware Pilots, Philadelphia, PA.

### Launch Services

HARTZEL'S LAUNCH Ch. 13 (Kaighn's Point Anchorage)	856-438-0050 609-870-7797
HUEBERS LAUNCH Ch. 13 (Mantua Creek Anchorage) (Marcus Hook Anchorage)	610-485-0852
WILMINGTON LAUNCH Ch. 74 SERVICE, INC. (Deepwater Pt. Anchorage) (Reedy Pt. Anchorage)	302-652-1666
DELAWARE BAY LAUNCH SERVICE Ch. 09 (Breakwater & Big Stone Beach Anchorage)	302-422-7604

### Tug Services

McAllister Tugs Ch. 10	609-820-0959
Moran Philadelphia Tugs Ch. 12	215-755-4700
Wilmington Tugs Ch. 74	302-652-1666

## **Radio Communications**

### **“Delaware Pilots - WHW 819”**

The Delaware Pilot station is located in the vicinity of Cape Henlopen and maintains a VHF radio listening watch on channel 16 and port operations working channel 14. Inbound vessels are requested to communicate with the Pilot Station at the entrance to the sea-lanes when passing buoys “F or D”. Tows and other coastwise vessels, not requiring a pilot, are requested to report to the Cape Henlopen VTIS one hour before passing in or out of Delaware Bay. Initial call may be made on either channel 16 or 14. The working channel for navigation and bridge-to-bridge communications is VHF channel 13, and it should be used for all ship to ship safety communications.

The Maritime Exchange for the Delaware River & Bay, in conjunction with the Pilots’ Association, operates a vessel traffic information service (VTIS) at Cape Henlopen. Messages relating to position, ETA, docking instructions, may be exchanged on VHF channel 14 through the Cape Henlopen Reporting Station. Vessels in the upper Delaware Bay and River are requested to report to the Maritime Exchange for the Delaware River & Bay (WQTI 703) on channel 14 upon arriving or sailing from a pier or an anchorage. To obtain the maximum benefit of this service, all vessels are requested to monitor VHF channels 16 or 14 in addition to channel 13 while transiting the Delaware Bay and River.

### **VHF Radio Channels in Ports of Philadelphia**

<u>Channel</u>	<u>Frequency</u>	<u>Station</u>
09	156.450	Delaware Bay Launch Service
10	156.500	McAllister Brothers Tugs

12	156.600	Moran Philadelphia Towing Company
13	156.650	Hartzel's Launch Service Inc. Philadelphia Barge Company Bridge-to-Bridge Navigation Only
14	156.700	Delaware River VTIS - WHW 819 Delaware Pilot Office - WHW 827 Maritime Exchange - WQTI 703
16	156.800	Calling and Distress Only
18A	156.900	Kirby Offshore Marine
19A	156.950	Vane Brothers
22A	157.100	U.S. Coast Guard Working Channel
65A	156.275	Weeks Marine Fisherman's Wharf (Lewes)
74	156.725	Wilmington Tug and Launch
79A	156.975	OSG
80A	157.025	Hays Tug & Launch Reinauer Transportation



## Port Phone Numbers

	<u>Phone Number</u>
Baltimore Pilots	(410) 342-6013
BSB Launch	(302) 422-7604
C & D Canal	(410) 885-5580
C & D Pilot Shack	(410) 885-2100
Cape May Ferry	(609) 889-7260
Cape May Ferry (Lewes)	(302) 644-6030
Coast Guard (COTP)	(215) 271-4800
Customs House	(215) 717-5800
Express Marine	(856) 541-4600
Fisherman's Wharf (Lewes)	(302) 645-8862
Hartzel's Launch Service, Inc.	(856) 438-0050 & (609) 870-7797
Hayes Towing	(610) 485-5879
Hog Island Launch	(610) 485-0852
Hueber's Launch	(610) 485-0852
Kirby Offshore Marine	(713) 435-1330
Maritime Exchange (New York)	(212) 425-5704
Maritime Exchange (Philadelphia)	(215) 925-1524
McAllister Tugs	(609) 820-0950
Miller Environmental Services	(631) 369-4900
Moran Philadelphia Tugs	(215) 755-4700
New York Pilots' Association	(718) 448-3900
Norfolk Pilots' Association	(757) 496-0995
Overseas Shipholding Group	(212) 578-1968
Penn Maritime	(203) 964-0009
Philadelphia Airport Operations	(215) 937-7943
Philadelphia Barge Company	(610) 742-0299
Reinauer Transportation	(718) 816-8167
U.S. Army Engineers	(215) 656-6500
Vane Brothers	(410) 631-5096
Weeks Marine	(856) 963-0963
Wilmington Tug & Launch	(302) 652-1666

## **Bridges**

Delair Pennsylvania Railroad Bridge	(856) 231-2312
Tacony-Palmyra Bascule Bridge	Direct: (856) 735-1211 Cell: (609) 922-2843
Burlington Lift Bridge	Direct: (856) 735-1212 Cell: (609) 922-2804
Passyunk Ave. Bascule Bridge	(215) 686-4514
University Ave. Bridge	(215) 686-4514
Riverside/Delanco Operator Trailer	Direct: (856) 735-1213 Cell: (609) 922-2888
Police Supervisor BCBC	Direct: (856) 735-1230 Cell: (609) 922-2921

## **Other**

Amtrak Train	(800) 872-7245
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## Bridge Heights Delaware River and Vicinity

Delaware Memorial Bridges	
Horizontal Clearance	2000 feet (609.60 m)
Vertical Clearance at Main Towers	166 feet ( 50.59 m)
Vertical Clearance	
Middle 1500 feet (457.20 m)	175 feet ( 53.34 m)
Vertical Clearance	
Middle 800 feet (243.84 m)	188 feet ( 57.30 m)
Commodore John Barry Bridge	
Horizontal Clearance	1600 feet (487.68 m)
Vertical Clearance Middle	191'10" ( 58.47 m)
Vertical Clearance Channel Edges	189'4" ( 57.70 m)
Walt Whitman Bridge	
Horizontal Clearance	1930 feet (588.26 m)
Vertical Clearance	139 feet ( 42.36 m)
Vertical Clearance (at Center)	150 feet ( 45.72 m)
Benjamin Franklin Bridge	
Horizontal Clearance	1686 feet (513.89 m)
Vertical Clearance	128 feet ( 39.01 m)
Vertical Clearance (for middle 800 feet - 243.84 m - of span)	135 feet ( 41.14 m)
Vertical Clearance (at Center)	143 feet ( 43.59 m)
Delair Pennsylvania Railroad Lift Bridge	
Horizontal Clearance	500 feet (152.40 m)
Vertical Clearance – Down	49 feet ( 14.93 m)
Vertical Clearance – Up	135 feet ( 41.14 m)
Betsy Ross Bridge	
Horizontal Clearance	696 feet (212.14 m)
Vertical Clearance at Fenders	143 feet ( 43.59 m)
Vertical Clearance for Channel Width	140 feet ( 42.70 m)
*Tacony-Palmyra Bascule Bridge	
Horizontal Clearance	240 feet ( 73.15 m)
Vertical Clearance	50 feet ( 15.24 m)

\*If Possible Avoid Openings (0645-0845, 1600-1800). Overhead Cables Finn's Pt. 223' (67.97 m) Overhead Cable at Chester 210 feet (64.00 m). All Overhead Cables in Delaware River above Philadelphia 140 feet (42.67 m)

Burlington Lift Bridge	
Horizontal Clearance	500 feet (152.40 m)
Vertical Clearance – Closed	61 feet ( 18.59 m)
Vertical Clearance – Open	133 feet ( 40.54 m)

Pennsylvania Turnpike Fixed Bridge	
Horizontal Clearance	550 feet (167.64 m)
Vertical Clearance	135 feet ( 41.14 m)

### **Schuylkill River Bridges**

Naval Reserve Basin Lift Bridge	
Horizontal Clearance	200 feet (60.96 m)
Vertical Clearance – Closed	6 feet (1.83 m)
Vertical Clearance – Open	150 feet (45.72 m)

Girard Pt. Bridge (I-95)	
Horizontal Clearance	400 feet ( 121.91 m)
Vertical Clearance	135 feet ( 41.15 m)

Penrose Ave. Bridge	
Horizontal Clearance	339 feet (103.32 m)
Vertical Clearance	135 feet ( 41.15 m)

Passyunk Ave. Bascule Bridge	
Horizontal Clearance	200 feet ( 60.96 m)
Vertical Clearance – Closed	50 feet ( 15.24 m)

### **Bridges in Chesapeake and Delaware Canal**

(Surveyed by the MD Department of Transportation)

Reedy Point Fixed Bridge	
Horizontal Clearance	550 feet (167.64 m)
Vertical Clearance (Center)	135.62 feet ( 41.33 m)

St. Georges Fixed Bridge East	
Horizontal Clearance	523 feet (159.41 m)
Vertical Clearance (Center)	137.2 feet ( 41.81 m)

St. Georges Fixed Bridge West	
Vertical Clearance (Center)	142 feet ( 43.28 m)

PRR Lift Bridge at Lorewood Grove	
Horizontal Clearance	522 feet (159.10 m)
Vertical Clearance – Down	45 feet ( 13.71 m)
Vertical Clearance (Center) – Up	138.4 feet ( 42.18 m)

Gas Pipeline Crossing	141.0 feet ( 42.97 m)
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Summit Fixed Bridge	
Horizontal Clearance	550 feet (167.64 m)
Vertical Clearance (Center)	138.4 feet ( 42.18 m)

Chesapeake City fixed Bridge	
Horizontal Clearance	523 feet (159.41 m)
Vertical Clearance (Center)	140.9 feet ( 42.94 m)

## Distances Along Atlantic Coast

<b>Port</b>	<b>Port</b>	<b>Total Distance</b>	<b>Pilot to Pilot</b>
Philadelphia	Halifax	746 miles	652 miles
Philadelphia	Boston (via Nantucket)	523 miles	420 miles
Philadelphia	Boston (via Cape Cod Canal)	411 miles	313 miles
Philadelphia	New York	240 miles	135 miles
Philadelphia	Norfolk (outside)	263 miles	155 miles
Philadelphia	Norfolk (via C & D Canal)	249 miles	
Philadelphia	Richmond (outside)	340 miles	155 miles
Philadelphia	Baltimore (via C & D Canal)	98 miles	
Philadelphia	Baltimore (Outside)	392 miles	155 miles
Philadelphia	Charleston	607 miles	508 miles
Philadelphia	Savannah	681 miles	574 miles
New York	Baltimore (Outside)	417 miles	250 miles
New York	Baltimore (via C & D Canal)	268 miles	135 miles

Vessels Bound to Baltimore from European or Canadian ports can save approximately 125 miles by using the Chesapeake and Delaware Canal.

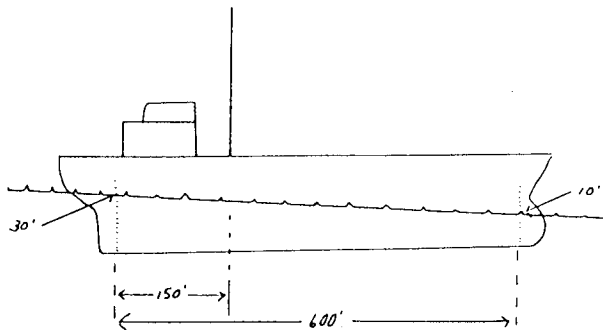
## Delaware River Distances

		<b>Nautical Miles</b>
Delaware Bay Entrance	East Entrance	
	C & D Canal	53
Delaware Bay Entrance	Chesapeake City	67
Delaware Bay Entrance	Baltimore	
	(via C & D Canal)	115
Delaware Bay Entrance	Wilmington	62
Delaware Bay Entrance	Marcus Hook	69
Delaware Bay Entrance	Commodore Barry	
	Bridge	71
Delaware Bay Entrance	Penn Terminal	73.5
Delaware Bay Entrance	Paulsboro	77
Delaware Bay Entrance	Hog Island	78.5
Delaware Bay Entrance	Fort Mifflin	79.5
Delaware Bay Entrance	Eagle Point	82.5
Delaware Bay Entrance	Walt Whitman Bridge	84
Delaware Bay Entrance	Ben Franklin Bridge	87
Delaware Bay Entrance	Delair Bridge	90.5
Delaware Bay Entrance	Tacony - Palmyra Bridge	93
Delaware Bay Entrance	Northern Metals	94
Delaware Bay Entrance	Burlington Bristol Bridge	102
Delaware Bay Entrance	Pennsylvania Turnpike	
	Bridge	105
Delaware Bay Entrance	Fairless	109.5

## DETERMINING THE AIR DRAFT OF A SHIP NOT ON EVEN KEEL

HEIGHT OF THE MAST is the distance from the keel to the top of the mast. AIR DRAFT is the distance from the waterline to the top of the mast.

To determine the air draft of a ship not on even keel take the difference in draft fore and aft, DIVIDE by the Length Between Perpendiculars, TIMES the Distance from the deepest perpendicular to the mast. This is the increase in Air Draft above that determined by subtracting the deepest draft from the height of the mast.



$$\frac{20}{600} \times \frac{150}{1} = 5 \quad \text{or}$$

---

$$30 - 10 = 20$$

$$(20 \div 600) \times 150 = 5 \text{ Feet}$$

Actual Air Draft is 5 Feet More Than If  
Using Deepest Draft

## **INCREASE IN DRAFT DUE TO PITCH (IN FEET)**

<b>Length</b>	<b>0.5°</b>	<b>1.0°</b>	<b>2.0°</b>
500'	2.18	4.36	8.72
600'	2.62	5.23	10.46
700'	3.05	6.10	12.21
800'	3.49	6.98	13.96
900'	3.92	7.85	15.70
1000'	4.36	8.73	17.45

table assumes tipping center is at mid-point

## **INCREASE IN DRAFT DUE TO HEEL (IN FEET)**

(Beam ÷ 2 x Sine of Angle)

<b>Beam</b>	<b>5°</b>	<b>10°</b>
40'	1.74	3.47
60'	2.61	5.21
80'	3.48	6.95
100'	4.35	8.68
150'	6.54	13.02
200'	8.72	17.36

## **SPECIAL CASE BEARINGS**

1st Angle	2nd Angle	Dist. 2nd Bearing	Dist. Abeam
45°	90°	Distance Run	Distance Run
Anything	2 X 1st Angle	Distance Run	
30°	60°	Distance Run	7/8 Dist. Run
22 1/2°	45°	Distance Run	.7 Dist. Run
26 1/2°	45°	1.4 Dist. Run	Distance Run

Rule of 60 Distance Abeam= Range X Bearing ÷ 60



## **SPEED RESTRICTION IMPOSED TO PROTECT NORTH ATLANTIC RIGHT WHALES**

NOAA has established regulations to implement a 10-knot speed restriction for all vessels 65 ft. (19.8 m) or longer in certain locations along the east coast of the U.S. Atlantic seaboard at certain times of the year. These regulations are designed to protect endangered North Atlantic right whales by reducing the likelihood of collisions between ships and whales

The 10-knot speed restriction will extend out to 20 nautical miles around major mid-Atlantic ports.

The speed restriction also applies in waters off New England and the southeastern U.S., where whales gather seasonally.

The speed restrictions apply in the following approximate locations at the following times; they are based on times whales are known to be in these areas:

- Southeastern U.S. from St. Augustine, FL. to Brunswick, GA from Nov. 15 to April 15
- Mid-Atlantic U.S. areas from Brunswick, GA to Rhode Island from Nov. 1 to April 30
- Cape Cod Bay from Jan. 1 to May 15
- Off Race Point at northern end of Cape Cod from March 1 to April 30
- Great South Channel of New England from April 1 to July 31

### **DELAWARE BAY RESTRICTION**

November 1st to April 30th

Within a 20 nm (37 km) radius as measured seaward from the COLREGS line center point at

38° 52' 27.4"N 075° 01' 32.1"W.

## Anchorage Recommendations:

	LOA	DRAFT
Bigstone Beach Tanker Anchorage		55'
Wilmington Anchorage #6	700'	35'
Marcus Hook Anchorage #7		40'
Mantua Creek Anchorage #9	700'	37'
Kaighn's Point Anchorage #12	600'	34'

## Tug Horsepower/Bollard Pull:

### McAllister

<i>Beverly R. McAllister</i>	5000	60 tons	Z-Drive Tractor
<i>McAllister Responder</i>	3,000	39 tons	twin screw Kort Knozzle, flanking rudders
<i>McAllister Condor</i>	6,700	80 tons	Tractor
<i>Reid McAllister</i>	4,000	54 tons	Z-Drive Tractor
<i>Robert McAllister</i>	4,000	52 tons	Z-Drive Tractor
<i>Teresa McAllister</i>	2200	34 tons	single screw, Kort Knozzle, flanking rudders

### Moran

<i>Annabelle Dorothy Moran</i>	5,100	80 tons	twin screw z-drive
<i>Bart Turecamo</i>	3,000	33 tons	twin screw
<i>Handy Three</i>	3,200	50 tons	twin screw

### Wilmington Tug

<i>Capt. Harry</i>	4200	54 tons	twin screw tractor
<i>Lindsey</i>	2600	36 tons	twin screw tractor
<i>Madeline</i>	4800	65 tons	twin screw tractor
<i>Sally</i>	2400	35 tons	twin screw tractor
<i>Sonie</i>	4800	65 tons	twin screw tractor
<i>Tina</i>	1800	20 tons	twin screw tractor

## PIER ABBREVIATIONS

<b>Name</b>	<b>Abb</b>
Delta Buoy	D BUOY
Sea	SEA
Cape May	C MAY
Breakwater	BW
Big Stone Beach	BSB
Bombay Hook Anchorage	BHA
Artificial Island Anchorage	AIA
Reedy Point Anchorage	RPA
Chesapeake & Delaware Canal	CANAL
Salem	SALEM
PBF Energy Delaware City	DELCTY
Buckeye Wilmington	WMO
Port of Wilmington	WMT
Wilmington Anchorage	WMA
Ocean Port Claymont	CLAY
Sun Marcus Hook	SUN MH
Marcus Hook Anchorage	MHA
Monroe Energy Trainer	TRAIN
Penn Terminal	PENN T
Peco Eddystone	PECO E
Repauno	GIBBS
PBF Energy Paulsboro	PAULS
PBF Logistics Paulsboro	BILLINGS
Paulsboro Marine Terminal	PMT
Crown Point Mantua	MANTUA
Sunoco Logistics Hog Island	HOG IS
Sunoco Logistics Fort Mifflin	FT MIF
Mantua Creek Anchorage	MCA
Philadelphia Naval Shipyard	NAVY
Sunoco Partners Marine Terminal	EAG PT
Blue Knight Enterprises	BKE
Pier 124	124S
Pier 122	122S

## PIER ABBREVIATIONS

<b>Name</b>	<b>Abb</b>
Packer Avenue	PACKER
Holts Terminal	HOLTS
5 Broadway	5 BDWY
1 Broadway	1 BDWY
Pier 96 South	96S
Pier 84 South	84S
Pier 82 South	82S
Pier 80 South	80S
Pier 78 South	78S
Flintkote	FLINTK
Joseph A. Balzano Marine Terminal	BST
Pier 40 South	40S
Pier 38 South	38S
Penns Landing	PN LDG
Kaighns Point	KPA
Crowley Petty's Island	PETTYS
Contanda	H RICH
179 North Kinder Morgan	179N
Tioga Terminals	TIOGA
Buckeye Energy Services	DELAIR
National Gypsum	NATGYP
Riverside	RIVER
PCI Fairless Hills	GROWS
Fairless Hills Kinder Morgan	FAIR
Duck Island	DUCK
Trenton Marine Terminal	TRENT
<hr/>	
Girard Point	GIRARD
Philadelphia Energy Solutions Girard Pt.	PES GP
City Dock	CITY
Harkness Point	HARKPT
PBF Logistics Schuylkill	PBF SCHUY
Sun Point Breeze	BREEZE

# DELAWARE RIVER SHIP BERTHS

PBF ENERGY  
(Delaware City)  
1 - 2 - 3 Berths  
South to North

SUN MARCUS HOOK  
(Marcus Hook)  
North to South  
1A - 2A - 3A - 3C

MONROE ENERGY  
(Marcus Hook)  
1 - 2  
South to North

PBF ENERGY  
(Paulsboro)  
1 - 2 - 3  
South to North

PBF LOGISTICS  
(Paulsboro)  
1  
North to South

SUN HOG ISLAND  
1 - 2 - 3 - 4  
South to North

SUN FT. MIFFLIN  
(Ft. Mifflin)  
A - B  
South to North

PES GIRARD PT.  
2 - 5 - 8 East to West  
10 Around Bend Upper

SUN EAGLE PT.  
1 Barge Pier  
2 - 3  
North to South

BUCKEYE ENERGY  
1 - 2  
North to South

WILMINGTON MARINE  
TERMINAL  
1 - 2 - 3 - 3 - 4 - 5 - 6 - 7  
+ Autoberth  
East to West

PENN TERMINAL  
(Cargo Berth)  
#6 Southend, Northend

NAVY YARD  
1 - 2 - 3 - 4 - 5 - 6  
North to South

PACKER AVE. TERMINAL  
1 - 2 - 3 - 4 - 5 + B Slip  
North to South

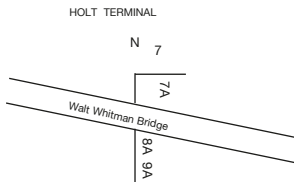
BROADWAY TERMINALS  
1A - 1 - 5  
North to South

BALZANO MARINE TERMINAL  
1 - 2 - 3 - 4  
North to South

TIOGA ST. TERMINAL  
A - Berth 1 - 2 - 3 - 4 - 5  
B - Berth Containers  
South to North

FAIRLESS  
1 - 2 - 3 - 4 Eastwall

GROWS  
1 - 2 - 3 - 4 Westwall



# UPRIVER COURSES

IN

	COURSE	DISTANCE	AHEAD	ASTERN
Harbor	81°	0.8	● ●	
Fisher C.	70°	0.3		
Draw	42°	0.7		
Delair	18°	1.0	● ●	
Bridesburg	39°	0.3		
Frankford	61°	1.1	● ●	●
Tacony	70°	1.2	● ●	
Torresdale	42°	1.4	● ●	● ●
Mud Island	52°	1.7	● ●	● ●
Enterprise	61°	1.7	● ●	● ●
Beverly	91°	0.7	● ●	● ●
Edgewater	70°	1.4	● ●	● ●
Devlin	78°	1.0	● ●	● ●
Lehigh	28°	0.7	● ●	● ●
Canal	49°	0.2		
Bristol	62°	0.6		● ●
Keystone	39°	0.4		
Landreth	18°	1.2		● ●
Florence B.	--	0.6		
Florence	111°	1.3	● ●	●
Roebing	80°	0.3	● ●	
Kinkora	50°	1.2	● ●	● ●
Penn	70°	0.4		

## UPRIVER COURSES OUT

	COURSE	DISTANCE	AHEAD	ASTERN
Penn	250°	0.4		
Kinkora	230°	1.2	● ●	● ●
Roebling	260°	0.3		● ●
Florence	291°	1.3	●	● ●
Florence B.	--	0.6		
Landreth	198°	1.2	● ●	
Keystone	219°	0.4		
Bristol	242°	0.6	● ●	
Canal	229°	0.2		
Lehigh	208°	0.7	● ●	● ●
Devlin	258°	1.0	● ●	● ●
Edgewater	250°	1.4	● ●	● ●
Beverly	271°	0.7	● ●	● ●
Enterprise	241°	1.7	● ●	● ●
Mud Island	232°	1.7	● ●	● ●
Torresdale	222°	1.4	● ●	● ●
Tacony	250°	1.2		● ●
Frankford	241°	1.1	●	● ●
Bridesburg	219°	0.3		
Delair	198°	1.0		● ●
Draw	222°	0.7		
Fisher C.	250°	0.3		
Harbor	261°	0.8		● ●

## 2024

JANUARY							FEBRUARY							MARCH								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
	1	2	3	4	5	6						1	2	3							1	2
7	8	9	10	11	12	13	4	5	6	7	8	9	10	3	4	5	6	7	8	9		
14	15	16	17	18	19	20	11	12	13	14	15	16	17	10	11	12	13	14	15	16		
21	22	23	24	25	26	27	18	19	20	21	22	23	24	17	18	19	20	21	22	23		
28	29	30	31				25	26	27	28	29			24	25	26	27	28	29	30		
														31								
APRIL							MAY							JUNE								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
	1	2	3	4	5	6				1	2	3	4							1		
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8		
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15		
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22		
28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29		
														30								
JULY							AUGUST							SEPTEMBER								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
	1	2	3	4	5	6				1	2	3							1			
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14		
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21		
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28		
28	29	30	31				25	26	27	28	29	30	31	29	30							
OCTOBER							NOVEMBER							DECEMBER								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
		1	2	3	4	5						1	2							1		
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14		
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21		
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28		
27	28	29	30	31			24	25	26	27	28	29	30	29	30	31						

## 2025

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4							1							1
5	6	7	8	9	10	11	2	3	4	5	6	7	8	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15	9	10	11	12	13	14	15
19	20	21	22	23	24	25	16	17	18	19	20	21	22	16	17	18	19	20	21	22
26	27	28	29	30	31		23	24	25	26	27	28		23	24	25	26	27	28	29
														30	31					
APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5					1	2	3							1
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30				25	26	27	28	29	30	31	29	30					
JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5						1	2							1
6	7	8	9	10	11	12	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31			24	25	26	27	28	29	30	28	29	30				
							31													
OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4							1							1
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27
26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31			
							30													



Prudent Mariners understand that all tide and current predictions are approximations and are subject to weather influences that cannot be predicted in the long term.

**2024**

**TIDES AND CURRENTS**

**BREAKWATER HARBOR  
AND  
DELAWARE BAY ENTRANCE**

# BREAKWATER HARBOR, DELAWARE

**JANUARY 2024**

**STATION ID 8557380**

## Times and Heights of High and Low Waters

		Height				Height				Height	
Time	Day	ft.	cm	Time	Day	ft.	cm	Time	Day	ft.	cm
h.m.				h.m.				h.m.			
<b>1</b>	0534	0.4	12	<b>13</b>	0312	-0.8	-24	<b>25</b>	0146	-0.2	-6
	1158	3.8	116		0950	5.0	152		0824	4.3	131
M	1824	0.3	9	Sa	1604	-0.7	-21	Th	1447	-0.2	-6
					2217	3.7	113	○	2045	3.2	98
<b>2</b>	0033	3.1	94	<b>14</b>	0403	-0.7	-21	<b>26</b>	0226	-0.3	-9
	0624	0.5	15		1040	4.8	146		0901	4.3	131
Tu	1240	3.5	107	Su	1652	-0.7	-21	F	1521	-0.2	-6
	1905	0.3	9		2309	3.8	116		2122	3.2	98
<b>3</b>	0119	3.1	94	<b>15</b>	0459	-0.6	-18	<b>27</b>	0304	-0.2	-6
	0716	0.6	18		1131	4.6	140		0936	4.2	128
W	1325	3.3	101	M	1743	-0.6	-18	Sa	1553	-0.1	-3
	1947	0.4	12						2158	3.3	101
<b>4</b>	0210	3.2	98	<b>16</b>	0003	3.9	119	<b>28</b>	0342	-0.1	-3
	0812	0.7	21		0600	-0.4	-12		1011	4.1	125
Th	1416	3.1	94	Tu	1224	4.2	128	Su	1626	-0.1	-3
●	2031	0.4	12		1835	-0.5	-15		2234	3.3	101
<b>5</b>	0305	3.4	104	<b>17</b>	0059	3.9	119	<b>29</b>	0421	0.0	0
	0912	0.7	21		0703	-0.2	-6		1046	3.9	119
F	1514	2.9	88	W	1320	3.8	116	M	1659	0.0	0
	2118	0.3	9		1927	-0.4	-12		2312	3.3	101
<b>6</b>	0400	3.6	110	<b>18</b>	0159	4.0	122	<b>30</b>	0502	0.1	3
	1012	0.6	18		0810	0.0	0		1122	3.7	113
Sa	1614	2.8	85	Th	1421	3.4	104	Tu	1734	0.1	3
	2208	0.2	6	●	2022	-0.3	-9		2350	3.4	104
<b>7</b>	0453	3.9	119	<b>19</b>	0305	4.0	122	<b>31</b>	0547	0.3	9
	1111	0.4	12		0922	0.1	3		1200	3.4	104
Su	1710	2.9	88	F	1529	3.1	94	W	1812	0.2	6
	2259	0.1	3		2120	-0.2	-6				
<b>8</b>	0543	4.2	128	<b>20</b>	0411	4.1	125				
	1205	0.2	6		1033	0.2	6				
M	1803	2.9	88	Sa	1637	2.9	88				
	2350	-0.1	-3		2219	-0.1	-3				
<b>9</b>	0633	4.5	137	<b>21</b>	0512	4.2	128				
	1257	-0.1	-3		1140	0.1	3				
Tu	1856	3.1	94	Su	1738	2.9	88				
					2316	-0.1	-3				
<b>10</b>	0041	-0.4	-12	<b>22</b>	0607	4.3	131				
	0723	4.7	143		1238	0.0	0				
W	1346	-0.3	-9	M	1832	2.9	88				
	1947	3.2	98								
<b>11</b>	0132	-0.6	-18	<b>23</b>	0011	-0.1	-3				
	0812	4.9	149		0657	4.3	131				
Th	1432	-0.6	-18	Tu	1328	-0.1	-3				
●	2037	3.4	104		1922	3.0	91				
<b>12</b>	0222	-0.7	-21	<b>24</b>	0101	-0.2	-6				
	0901	5.0	152		0743	4.3	131				
F	1518	-0.7	-21	W	1410	-0.1	-3				
	2126	3.5	107		2006	3.1	94				

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean lower low water which is the chart datum of soundings.

**EASTERN  
STANDARD TIME**

# DELAWARE BAY ENTRANCE (LB10)

**JANUARY 2024**

**db0502 (12 ft)**

F-Flood, Dir. 327° True				E-Ebb, Dir. 147° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b> M	0106	0406	1.5E	<b>13</b> Sa	0442	0148	2.1E	<b>25</b> Th O	0324	0030	1.8E
	0712	1024	1.6F		0442	0754	2.2F		0948	0624	1.9F
	1330	1636	1.6E		1118	1430	2.4E		1618	1306	2.2E
	2006	2254	1.3F		1736	2030	1.8F		2206	1900	1.6F
<b>2</b> Tu	0148	0454	1.4E	<b>14</b> Su	0536	0242	2.2E	<b>26</b> F	0400	0112	1.8E
	0806	1112	1.4F		0536	0848	2.2F		1030	0706	1.9F
	1412	1724	1.5E		1206	1518	2.4E		1700	1348	2.1E
	2042	2342	1.3F		1824	2124	1.9F		2242	1942	1.5F
<b>3</b> W	0242	0548	1.4E	<b>15</b> M	0030	0336	2.2E	<b>27</b> Sa	0442	0148	1.8E
	0900	1200	1.3F		0636	0942	2.1F		1106	0748	1.9F
	1500	1806	1.5E		1254	1606	2.3E		1736	1424	2.0E
	2124				1918	2212	1.9F		2318	2018	1.5F
<b>4</b> Th ●		0030	1.3F	<b>16</b> Tu	0124	0436	2.1E	<b>28</b> Su	0524	0224	1.7E
	0336	0642	1.3E		0736	1036	1.9F		1142	0830	1.8F
	0954	1254	1.2F		1348	1700	2.2E		1812	1454	1.9E
	1548	1854	1.4E		2006	2306	1.9F		2354	2100	1.5F
<b>5</b> F		0118	1.3F	<b>17</b> W	0224	0536	2.0E	<b>29</b> M	0600	0300	1.7E
	0430	0742	1.4E		0842	1136	1.8F		1218	0912	1.8F
	1100	1348	1.1F		1442	1800	2.0E		1842	1524	1.9E
	1642	1948	1.4E		2100					2136	1.5F
<b>6</b> Sa		0212	1.4F	<b>18</b> Th ●	0330	0006	1.9F	<b>30</b> Tu	0036	0336	1.7E
	0530	0842	1.5E		0948	0642	1.9E		0642	0954	1.6F
	1200	1448	1.1F		1542	1236	1.6F		1254	1554	1.8E
	1736	2042	1.4E		2200	1900	1.9E		1912	2218	1.5F
<b>7</b> Su		0306	1.5F	<b>19</b> F	0436	0106	1.9F	<b>31</b> W	0112	0418	1.6E
	0618	0936	1.6E		0748	0748	1.9E		0730	1036	1.5F
	1254	1542	1.2F		1100	1342	1.4F		1330	1636	1.7E
	1830	2136	1.5E		1648	2000	1.8E		1948	2254	1.4F
<b>8</b> M	0036	0354	1.6F	<b>20</b> Sa	0536	0206	1.8F	Time meridian 75° W. 0000 is midnight. 1200 is noon.			
	0712	1030	1.8E		0854	0854	2.0E				
	1348	1630	1.3F		1206	1448	1.4F				
	1924	2230	1.6E		1754	2106	1.7E				
<b>9</b> Tu	0124	0442	1.8F	<b>21</b> Su	0000	0306	1.8F				
	0800	1118	2.0E		0636	1000	2.0E				
	1430	1718	1.5F		1312	1548	1.4F				
	2018	2318	1.8E		1854	2206	1.7E				
<b>10</b> W	0212	0524	1.9F	<b>22</b> M	0054	0400	1.9F	<b>EASTERN STANDARD TIME</b>			
	0848	1206	2.2E		0730	1054	2.1E				
	1518	1806	1.6F		1406	1648	1.5F				
	2106				1954	2300	1.7E				
<b>11</b> Th ●		0012	1.9E	<b>23</b> Tu	0148	0454	1.9F				
	0300	0612	2.0F		0818	1142	2.2E				
	0936	1254	2.3E		1454	1736	1.6F				
	1600	1848	1.7F		2042	2348	1.8E				
<b>12</b> F		0100	2.0E	<b>24</b> W	0236	0542	1.9F				
	0354	0700	2.1F		0906	1230	2.2E				
	1024	1342	2.4E		1536	1818	1.6F				
	1648	1942	1.8F		2124						

# BREAKWATER HARBOR, DELAWARE

**FEBRUARY 2024**

**STATION ID 8557380**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0031	3.4	104	<b>13</b>	0446	-0.8	-24	<b>25</b>	0246	-0.2	-6
	0635	0.4	12		1111	4.4	134		0911	4.2	128
	Th 1240	3.2	98		Tu 1713	-0.7	-21		Su 1519	-0.1	-3
	1851	0.2	6		2339	4.4	134		2129	3.7	113
<b>2</b>	0116	3.4	104	<b>14</b>	0544	-0.5	-15	<b>26</b>	0321	-0.2	-6
	0728	0.5	15		1203	4.0	122		0944	4.0	122
	F 1326	2.9	88		W 1803	-0.5	-15		M 1548	0.0	0
	● 1936	0.3	9						2202	3.8	116
<b>3</b>	0209	3.5	107	<b>15</b>	0032	4.3	131	<b>27</b>	0357	-0.1	-3
	0826	0.6	18		0646	-0.2	-6		1016	3.9	119
	Sa 1421	2.7	82		Th 1257	3.6	110		Tu 1618	0.0	0
	2026	0.3	9		1856	-0.3	-9		2236	3.8	116
<b>4</b>	0310	3.6	110	<b>16</b>	0130	4.2	128	<b>28</b>	0435	0.1	3
	0930	0.6	18		0752	0.1	3		1050	3.7	113
	Su 1528	2.6	79		F 1357	3.2	98		W 1650	0.1	3
	2124	0.2	6		● 1951	-0.1	-3		2312	3.8	116
<b>5</b>	0414	3.8	116	<b>17</b>	0235	4.0	122	<b>29</b>	0516	0.2	6
	1035	0.4	12		0904	0.3	9		1126	3.4	104
	M 1636	2.7	82		Sa 1507	2.9	88		Th 1726	0.2	6
	2224	0.1	3		2052	0.1	3		2351	3.8	116
<b>6</b>	0513	4.1	125	<b>18</b>	0347	4.0	122				
	1136	0.2	6		1019	0.4	12				
	Tu 1737	2.9	88		Su 1620	2.8	85				
	2323	-0.2	-6		2157	0.2	6				
<b>7</b>	0609	4.4	134	<b>19</b>	0454	4.0	122				
	1232	-0.1	-3		1126	0.3	9				
	W 1834	3.1	94		M 1724	2.8	85				
					2300	0.2	6				
<b>8</b>	0021	-0.4	-12	<b>20</b>	0551	4.0	122				
	0703	4.7	143		1223	0.3	9				
	Th 1323	-0.4	-12		Tu 1818	3.0	91				
	1928	3.4	104		2358	0.1	3				
<b>9</b>	0116	-0.7	-21	<b>21</b>	0641	4.1	125				
	0755	4.9	149		1310	0.2	6				
	F 1410	-0.7	-21		W 1905	3.1	94				
	● 2019	3.7	113								
<b>10</b>	0209	-0.9	-27	<b>22</b>	0048	0.0	0				
	0844	5.0	152		0725	4.2	128				
	Sa 1455	-0.9	-27		Th 1349	0.0	0				
	2108	4.0	122		1945	3.3	101				
<b>11</b>	0300	-1.0	-30	<b>23</b>	0132	-0.1	-3				
	0933	5.0	152		0803	4.2	128				
	Su 1540	-0.9	-27		F 1422	0.0	0				
	2157	4.2	128		2022	3.4	104				
<b>12</b>	0352	-1.0	-30	<b>24</b>	0210	-0.2	-6				
	1021	4.8	146		0838	4.2	128				
	M 1626	-0.9	-27		Sa 1451	-0.1	-3				
	2247	4.3	131		○ 2056	3.6	110				

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

**EASTERN  
 STANDARD TIME**

# DELAWARE BAY ENTRANCE (LB10)

**FEBRUARY 2024**

**db0502 (12 ft)**

F-Flux, Dir. 327° True				E-Ebb, Dir. 147° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b> Th	0154	0500	1.5E	<b>13</b> Tu	0006	0318	2.4E	<b>25</b> Su		0130	1.9E
	0818	1118	1.3F		0624	0924	2.1F		0424	0730	1.9F
	1406	1718	1.6E		1236	1542	2.3E		1042	1354	2.0E
	2030	2336	1.4F		1848	2148	2.1F		1700	1954	1.6F
<b>2</b> F ●	0242	0554	1.5E	<b>14</b> W	0100	0412	2.2E	<b>26</b> M		0200	1.9E
	0912	1206	1.2F		0718	1018	1.9F		0500	0806	1.8F
	1454	1806	1.5E		1324	1630	2.2E		1118	1418	2.0E
	2112				1936	2242	2.0F		1730	2030	1.6F
<b>3</b> Sa		0024	1.4F	<b>15</b> Th	0200	0512	2.1E	<b>27</b> Tu		0230	1.9E
	0336	0648	1.5E		0824	1112	1.7F		0536	0842	1.8F
	1012	1306	1.1F		1412	1724	1.9E		1148	1448	1.9E
	1548	1900	1.4E		2030	2330	1.9F		1800	2100	1.6F
<b>4</b> Su		0118	1.4F	<b>16</b> F ●	0300	0618	1.9E	<b>28</b> W		0306	1.8E
	0436	0754	1.5E		0924	1212	1.5F		0618	0924	1.7F
	1112	1406	1.1F		1512	1830	1.7E		1218	1518	1.9E
	1654	2000	1.4E		2124				1830	2136	1.6F
<b>5</b> M		0218	1.4F	<b>17</b> Sa	0400	0030	1.8F	<b>29</b> Th		0342	1.8E
	0536	0854	1.6E		1036	0724	1.8E		0700	1000	1.5F
	1218	1506	1.2F		1618	1312	1.3F		1254	1600	1.8E
	1800	2100	1.5E		2230	1936	1.6E		1906	2212	1.6F
<b>6</b> Tu	0000	0318	1.6F	<b>18</b> Su	0506	0136	1.6F				
	0636	1000	1.8E		0830	0830	1.8E				
	1312	1606	1.3F		1148	1424	1.2F				
	1900	2206	1.6E		1730	2042	1.5E				
<b>7</b> W	0100	0418	1.8F	<b>19</b> M	0612	0242	1.6F				
	0736	1054	2.0E		0936	0936	1.8E				
	1406	1654	1.5F		1248	1530	1.3F				
	1954	2300	1.8E		1836	2148	1.6E				
<b>8</b> Th	0154	0506	2.0F	<b>20</b> Tu	0042	0348	1.6F				
	0830	1148	2.2E		0712	1036	1.9E				
	1454	1742	1.7F		1348	1624	1.4F				
	2042	2354	2.1E		1936	2242	1.7E				
<b>9</b> F ●	0248	0600	2.1F	<b>21</b> W	0136	0442	1.7F				
	0924	1236	2.3E		0806	1124	2.0E				
	1542	1830	1.8F		1436	1718	1.5F				
	2136				2024	2330	1.8E				
<b>10</b> Sa		0048	2.2E	<b>22</b> Th	0230	0530	1.8F				
	0342	0648	2.2F		0848	1206	2.1E				
	1012	1324	2.4E		1518	1800	1.6F				
	1624	1918	1.9F		2106						
<b>11</b> Su		0136	2.4E	<b>23</b> F		0012	1.8E				
	0436	0742	2.3F		0312	0612	1.9F				
	1100	1412	2.5E		0930	1248	2.1E				
	1712	2006	2.0F		1554	1836	1.6F				
<b>12</b> M		0224	2.4E	<b>24</b> Sa ○		0054	1.9E				
	0524	0830	2.2F		0348	0648	1.9F				
	1148	1454	2.4E		1012	1324	2.1E				
	1800	2100	2.1F		1630	1912	1.6F				

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME**

# BREAKWATER HARBOR, DELAWARE

**MARCH 2024**

**STATION ID 8557380**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b> F	0602	0.4	12	<b>13</b> W	0531	-0.7	-21	<b>25</b> M O	0325	0.0	0
	1205	3.2	98		1150	4.3	131		0943	4.1	125
	1806	0.3	9		1743	-0.6	-18		1542	0.1	3
									2158	4.2	128
<b>2</b> Sa	0035	3.8	116	<b>14</b> Th	0013	4.8	146	<b>26</b> Tu	0400	0.0	0
	0653	0.5	15		0627	-0.4	-12		1015	4.0	122
	1249	3.0	91		1241	3.9	119		1610	0.1	3
	1852	0.4	12		1832	-0.3	-9		2231	4.3	131
<b>3</b> Su ☉	0126	3.8	116	<b>15</b> F	0105	4.6	140	<b>27</b> W	0435	0.0	0
	0751	0.6	18		0727	-0.1	-3		1048	3.8	116
	1343	2.8	85		1335	3.5	107		1640	0.2	6
	1947	0.4	12		1925	0.0	0		2304	4.3	131
<b>4</b> M	0227	3.8	116	<b>16</b> Sa	0202	4.4	134	<b>28</b> Th	0512	0.1	3
	0856	0.6	18		0832	0.3	9		1122	3.6	110
	1453	2.7	82		1434	3.2	98		1712	0.2	6
	2050	0.4	12		2022	0.3	9		2340	4.3	131
<b>5</b> Tu	0339	4.0	122	<b>17</b> Su ☾	0305	4.1	125	<b>29</b> F	0552	0.3	9
	1004	0.5	15		0942	0.5	15		1159	3.4	104
	1609	2.8	85		1544	2.9	88		1749	0.3	9
	2157	0.2	6		2126	0.5	15				
<b>6</b> W	0446	4.2	128	<b>18</b> M	0417	3.9	119	<b>30</b> Sa	0020	4.3	131
	1108	0.3	9		1056	0.6	18		0638	0.4	12
	1715	3.1	94		1659	2.9	88		1240	3.3	101
	2303	0.0	0		2235	0.6	18		1832	0.4	12
<b>7</b> Th	0546	4.5	137	<b>19</b> Tu	0528	3.9	119	<b>31</b> Su	0105	4.2	128
	1205	0.0	0		1201	0.6	18		0730	0.6	18
	1814	3.5	107		1803	3.0	91		1327	3.1	94
					2342	0.6	18		1922	0.5	15
<b>8</b> F	0004	-0.3	-9	<b>20</b> W	0626	3.9	119				
	0642	4.8	146		1254	0.5	15				
	1257	-0.4	-12		1854	3.2	98				
	1907	3.9	119								
<b>9</b> Sa	0102	-0.6	-18	<b>21</b> Th	0039	0.5	15				
	0735	4.9	149		0715	4.0	122				
	1344	-0.6	-18		1339	0.4	12				
	1958	4.3	131		1938	3.4	104				
<b>10</b> Su ●	0156	-0.9	-27	<b>22</b> F	0129	0.3	9				
	0925	5.0	152		0757	4.1	125				
	1529	-0.8	-24		1415	0.3	9				
	2147	4.6	140		2017	3.6	110				
<b>11</b> M	0348	-1.0	-30	<b>23</b> Sa	0212	0.2	6				
	1013	4.9	149		0834	4.1	125				
	1612	-0.9	-27		1447	0.2	6				
	2235	4.8	146		2052	3.9	119				
<b>12</b> Tu	0439	-0.9	-27	<b>24</b> Su	0250	0.1	3				
	1101	4.6	140		0909	4.1	125				
	1657	-0.8	-24		1515	0.1	3				
	2323	4.9	149		2125	4.0	122				

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

### EASTERN STANDARD TIME/ DAYLIGHT SAVING TIME

Times ARE adjusted  
for DST starting  
March 10.

# DELAWARE BAY ENTRANCE (LB10)

**MARCH 2024**

**db0502 (12 ft)**

F-Flood, Dir. 327° True				E-Ebb, Dir. 147° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0118	0424	1.7E	<b>13</b>	0048	0400	2.5E	<b>25</b>		0206	2.0E
	0742	1042	1.4F		0706	1006	2.0F		0506	0806	1.8F
<b>F</b>	1336	1642	1.7E	<b>W</b>	1312	1618	2.2E	<b>M</b>	1112	1418	1.9E
	1942	2248	1.5F		1912	2218	2.2F	<b>O</b>	1724	2018	1.7F
									2324		
<b>2</b>	0200	0512	1.7E	<b>14</b>	0136	0454	2.3E	<b>26</b>		0236	2.0E
	0836	1130	1.3F		0806	1054	1.8F		0542	0842	1.7F
<b>Sa</b>	1418	1730	1.5E	<b>Th</b>	1400	1706	2.0E	<b>Tu</b>	1148	1448	1.9E
	2030	2336	1.5F		2000	2306	2.0F		1748	2054	1.7F
<b>3</b>	0248	0612	1.6E	<b>15</b>	0230	0548	2.1E		0000	0306	2.0E
	0930	1224	1.2F		0900	1148	1.6F	<b>27</b>	0618	0918	1.7F
<b>Su</b>	1518	1830	1.4E	<b>F</b>	1448	1754	1.8E	<b>W</b>	1218	1518	1.9E
<b>●</b>	2124				2054				1818	2124	1.7F
<b>4</b>		0036	1.4F	<b>16</b>		0000	1.8F				
	0354	0718	1.6E		0324	0648	1.9E	<b>28</b>	0030	0342	2.0E
<b>M</b>	1036	1330	1.2F	<b>Sa</b>	1000	1242	1.4F		0654	0954	1.6F
	1624	1930	1.4E		1548	1900	1.5E	<b>Th</b>	1254	1548	1.8E
	2230				2154				1848	2200	1.7F
<b>5</b>		0142	1.4F	<b>17</b>		0100	1.6F	<b>29</b>	0106	0418	2.0E
	0500	0824	1.6E		0424	0754	1.7E		0736	1036	1.6F
	1142	1436	1.2F	<b>Su</b>	1106	1348	1.3E	<b>F</b>	1330	1630	1.8E
<b>Tu</b>	1730	2036	1.5E	<b>●</b>	1654	2006	1.4E		1930	2236	1.7F
	2336				2300						
<b>6</b>		0254	1.6F	<b>18</b>		0206	1.4F	<b>30</b>	0142	0500	1.9E
	0612	0930	1.8E		0536	0900	1.7E		0818	1118	1.5F
<b>W</b>	1242	1536	1.4F	<b>M</b>	1218	1454	1.2F	<b>Sa</b>	1412	1712	1.7E
	1836	2142	1.7E		1806	2118	1.4E		2012	2318	1.6F
<b>7</b>	0042	0354	1.8F	<b>19</b>	0012	0312	1.4F				
	0718	1030	2.0E		0642	1006	1.7E	<b>21</b>	0224	0518	1.6F
<b>Th</b>	1342	1630	1.6F	<b>Tu</b>	1324	1606	1.2F		0842	1200	1.8E
	1930	2242	2.0E		1912	2224	1.5E	<b>Th</b>	1506	1748	1.5F
<b>8</b>	0142	0454	2.0F	<b>20</b>	0124	0424	1.4F		2054		
	0812	1124	2.2E		0748	1106	1.7E	<b>22</b>		0012	1.8E
<b>F</b>	1430	1718	1.8F	<b>W</b>	1418	1700	1.4F		0312	0606	1.7F
	2024	2342	2.2E		2012	2324	1.6E	<b>F</b>	0924	1242	1.9E
<b>9</b>	0236	0542	2.2F	<b>21</b>	0224	0518	1.6F		1548	1830	1.6F
	0906	1218	2.3E		0842	1200	1.8E		2136		
<b>Sa</b>	1518	1806	2.0F	<b>Th</b>	1506	1748	1.5F				
	2118				2054			<b>23</b>		0054	1.9E
<b>10</b>		0030	2.4E	<b>22</b>		0012	1.8E		0354	0648	1.8F
	0430	0730	2.3F		0312	0606	1.7F	<b>Sa</b>	1006	1318	1.9E
<b>Su</b>	1054	1400	2.4E	<b>F</b>	0924	1242	1.9E		1624	1906	1.6F
<b>●</b>	1700	1954	2.1F		1548	1830	1.6F		2218		
	2306				2136			<b>24</b>		0130	1.9E
<b>11</b>		0224	2.5E	<b>23</b>		0054	1.9E		0430	0724	1.8F
	0524	0824	2.3F		0354	0648	1.8F	<b>Sa</b>	1042	1348	1.9E
<b>M</b>	1142	1448	2.4E		1006	1318	1.9E		1654	1942	1.7F
	1742	2042	2.2F		1624	1906	1.6F		2254		
	2354				2218						
<b>12</b>		0312	2.5E	<b>24</b>		0130	1.9E				
	0612	0912	2.2F		0430	0724	1.8F				
<b>Tu</b>	1224	1530	2.4E	<b>Su</b>	1042	1348	1.9E				
	1830	2130	2.2F		1654	1942	1.7F				
					2254						

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME/  
DAYLIGHT  
SAVING TIME**

**Times ARE adjusted  
for DST starting  
March 10.**



# BREAKWATER HARBOR, DELAWARE

APRIL 2024

STATION ID 8557380

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0157	4.2	128	<b>13</b>	0040	4.8	146	<b>25</b>	0414	0.2	6
	0827	0.6	18		0708	0.2	6		1023	3.7	113
	M 1423	3.0	91		Sa 1314	3.5	107		Th 1607	0.3	9
	2021	0.6	18		1857	0.3	9		2237	4.7	143
<b>2</b>	0259	4.2	128	<b>14</b>	0134	4.5	137	<b>26</b>	0452	0.2	6
	0930	0.6	18		0810	0.5	15		1100	3.6	110
	Tu 1533	3.0	91		Su 1412	3.2	98		F 1642	0.3	9
	2127	0.6	18		1955	0.6	18		2316	4.7	143
<b>3</b>	0410	4.2	128	<b>15</b>	0233	4.2	128	<b>27</b>	0534	0.3	9
	1036	0.5	15		0915	0.7	21		1140	3.4	104
	W 1649	3.2	98		M 1517	3.1	94		Sa 1723	0.4	12
	2238	0.4	12		2059	0.8	24		2359	4.7	143
<b>4</b>	0521	4.4	134	<b>16</b>	0339	4.0	122	<b>28</b>	0621	0.4	12
	1138	0.3	9		1021	0.8	24		1225	3.3	101
	Th 1755	3.6	110		Tu 1627	3.1	94		Su 1809	0.5	15
	2346	0.2	6		2207	0.9	27				
<b>5</b>	0623	4.5	137	<b>17</b>	0448	3.9	119	<b>29</b>	0047	4.6	140
	1234	0.0	0		1120	0.8	24		0714	0.5	15
	F 1852	4.0	122		W 1729	3.3	101		M 1316	3.3	101
					2313	0.9	27		1904	0.6	18
<b>6</b>	0049	-0.2	-6	<b>18</b>	0546	3.9	119	<b>30</b>	0140	4.5	137
	0719	4.7	143		1210	0.7	21		0810	0.5	15
	Sa 1326	-0.3	-9		Th 1819	3.5	107		Tu 1415	3.3	101
	1945	4.5	137						2006	0.6	18
<b>7</b>	0148	-0.5	-15	<b>19</b>	0010	0.8	24				
	0812	4.8	146		0635	3.9	119				
	Su 1414	-0.5	-15		F 1252	0.6	18				
	2036	4.9	149		1901	3.7	113				
<b>8</b>	0243	-0.7	-21	<b>20</b>	0100	0.6	18				
	0903	4.8	146		0717	3.9	119				
	M 1500	-0.6	-18		Sa 1328	0.5	15				
	2124	5.2	158		1940	4.0	122				
<b>9</b>	0335	-0.8	-24	<b>21</b>	0145	0.5	15				
	0952	4.6	140		0757	3.9	119				
	Tu 1544	-0.6	-18		Su 1401	0.4	12				
	2212	5.3	162		2016	4.2	128				
<b>10</b>	0425	-0.7	-21	<b>22</b>	0225	0.3	9				
	1041	4.4	134		0835	3.9	119				
	W 1628	-0.5	-15		M 1432	0.3	9				
	2300	5.3	162		2052	4.4	134				
<b>11</b>	0516	-0.5	-15	<b>23</b>	0302	0.2	6				
	1130	4.1	125		0911	3.9	119				
	Th 1714	-0.3	-9		Tu 1503	0.3	9				
	2349	5.1	155		2126	4.6	140				
<b>12</b>	0610	-0.2	-6	<b>24</b>	0338	0.2	6				
	1221	3.8	116		0947	3.8	116				
	F 1803	0.0	0		W 1534	0.3	9				
					2201	4.7	143				

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean lower low water which is the chart datum of soundings.

## DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# DELAWARE BAY ENTRANCE (LB10)

**APRIL 2024**

**db0502 (12 ft)**

F-Flood, Dir. 327° True				E-Ebb, Dir. 147° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>		0006	1.5F	<b>13</b>	0200	0524	2.1E	<b>25</b>		0242	2.0E
M	0318	0642	1.8E		0842	1124	1.6F	Th	0554	0854	1.6F
	1006	1300	1.3F	Sa	1430	1730	1.6E		1148	1448	1.8E
	1600	1906	1.5E		2030	2336	1.7F		1742	2054	1.8F
	2200										
<b>2</b>		0112	1.5F	<b>14</b>	0254	0618	1.9E	<b>26</b>	0000	0318	2.1E
Tu	0424	0748	1.7E		0936	1224	1.4F		0636	0930	1.6F
	1106	1400	1.3F	Su	1530	1830	1.4E	F	1230	1524	1.7E
●	1700	2012	1.5E		2130				1818	2130	1.7F
	2312										
<b>3</b>		0218	1.5F	<b>15</b>		0030	1.5F	<b>27</b>	0036	0354	2.1E
W	0536	0900	1.7E	M	0348	0724	1.7E		0712	1012	1.6F
	1212	1506	1.4F		1036	1318	1.3F	Sa	1312	1606	1.7E
	1812	2118	1.6E	●	1630	1942	1.3E		1900	2212	1.7F
					2236						
<b>4</b>	0018	0330	1.6F	<b>16</b>		0136	1.4F	<b>28</b>	0118	0442	2.1E
Th	0648	1006	1.8E		0454	0830	1.6E		0800	1100	1.6F
	1312	1606	1.5F	Tu	1142	1424	1.2F	Su	1400	1654	1.7E
	1912	2230	1.9E		1736	2048	1.3E		1948	2300	1.7F
					2348						
<b>5</b>	0130	0436	1.8F	<b>17</b>		0242	1.3F	<b>29</b>	0206	0530	2.0E
F	0754	1106	2.0E		0606	0930	1.5E		0848	1148	1.5F
	1412	1706	1.7F	W	1242	1524	1.2F	M	1448	1748	1.6E
	2012	2330	2.1E		1842	2154	1.4E		2048	2354	1.6F
<b>6</b>	0230	0530	2.0F	<b>18</b>	0054	0348	1.3F	<b>30</b>	0300	0624	1.9E
Sa	0848	1200	2.2E		0706	1030	1.6E		0942	1242	1.5F
	1500	1754	2.0F	Th	1336	1624	1.3F	Tu	1542	1848	1.6E
	2106				1936	2248	1.6E		2148		
<b>7</b>		0024	2.4E	<b>19</b>	0154	0448	1.4F				
Su	0324	0624	2.1F		0800	1118	1.7E				
	0942	1248	2.3E	F	1424	1712	1.5F				
	1548	1842	2.1F		2024	2342	1.7E				
	2200										
<b>8</b>		0118	2.5E	<b>20</b>	0242	0536	1.6F				
M	0418	0712	2.1F		0848	1200	1.7E				
	1030	1336	2.3E	Sa	1506	1754	1.6F				
●	1630	1930	2.3F		2106						
	2248										
<b>9</b>		0206	2.6E	<b>21</b>		0024	1.8E				
Tu	0512	0800	2.1F		0330	0618	1.6F				
	1118	1418	2.3E	Su	0930	1236	1.7E				
	1712	2018	2.3F		1542	1836	1.7F				
	2336				2148						
<b>10</b>		0254	2.6E	<b>22</b>		0100	1.9E				
W	0600	0854	2.0F		0412	0654	1.6F				
	1200	1506	2.2E	M	1006	1312	1.8E				
	1754	2100	2.2F		1612	1912	1.7F				
					2224						
<b>11</b>	0024	0342	2.5E	<b>23</b>		0136	2.0E				
Th	0654	0942	1.8F		0448	0736	1.6F				
	1248	1548	2.0E	Tu	1042	1342	1.8E				
	1842	2154	2.1F	○	1636	1942	1.8F				
					2254						
<b>12</b>	0112	0430	2.3E	<b>24</b>		0206	2.0E				
F	0748	1036	1.7F		0524	0812	1.6F				
	1336	1636	1.8E	W	1112	1412	1.8E				
	1936	2242	1.9F		1706	2018	1.8F				
					2330						

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**DAYLIGHT SAVING TIME**  
Times ARE adjusted for DST.

# BREAKWATER HARBOR, DELAWARE

**MAY 2024**

**STATION ID 8557380**

## Times and Heights of High and Low Waters

Time			Height			Time			Height					
Day	h.m.		ft.	cm	Day	h.m.		ft.	cm	Day	h.m.		ft.	cm
<b>1</b>	0240		4.4	134	<b>13</b>	0108		4.5	137	<b>25</b>	0435		0.2	6
	0909		0.5	15		0744		0.5	15		1042		3.5	107
	W 1521		3.4	104		M 1348		3.3	101		Sa 1620		0.3	9
	☉ 2113		0.6	18		1928		0.8	24		2258		5.0	152
<b>2</b>	0347		4.4	134	<b>14</b>	0200		4.3	131	<b>26</b>	0519		0.2	6
	1010		0.4	12		0840		0.7	21		1127		3.5	107
	Th 1631		3.7	113		Tu 1444		3.3	101		Su 1705		0.3	9
	2223		0.5	15		2028		1.0	30		2345		4.9	149
<b>3</b>	0455		4.4	134	<b>15</b>	0255		4.0	122	<b>27</b>	0607		0.3	9
	1108		0.2	6		0935		0.8	24		1216		3.5	107
	F 1734		4.1	125		W 1544		3.3	101		M 1756		0.4	12
	2331		0.3	9		☉ 2130		1.0	30					
<b>4</b>	0558		4.4	134	<b>16</b>	0354		3.8	116	<b>28</b>	0034		4.8	146
	1202		0.0	0		1026		0.8	24		0659		0.3	9
	Sa 1831		4.5	137		Th 1642		3.4	104		Tu 1309		3.5	107
						2232		1.0	30		1854		0.5	15
<b>5</b>	0035		0.0	0	<b>17</b>	0452		3.7	113	<b>29</b>	0127		4.7	143
	0655		4.4	134		1113		0.8	24		0753		0.3	9
	Su 1254		-0.2	-6		F 1733		3.7	113		W 1406		3.6	110
	1923		4.9	149		2330		1.0	30		1956		0.5	15
<b>6</b>	0134		-0.2	-6	<b>18</b>	0544		3.7	113	<b>30</b>	0224		4.5	137
	0749		4.4	134		1154		0.7	21		0848		0.2	6
	M 1343		-0.3	-9		Sa 1817		3.9	119		Th 1507		3.8	116
	2014		5.2	158							☉ 2101		0.5	15
<b>7</b>	0230		-0.4	-12	<b>19</b>	0022		0.8	24	<b>31</b>	0326		4.4	134
	0842		4.3	131		0630		3.7	113		0943		0.2	6
	Tu 1431		-0.4	-12		Su 1233		0.6	18		F 1611		4.1	125
	2103		5.4	165		1858		4.2	128		2209		0.5	15
<b>8</b>	0322		-0.5	-15	<b>20</b>	0110		0.7	21		Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.			
	0932		4.2	128		0714		3.6	110					
	W 1517		-0.4	-12		M 1310		0.5	15					
	☉ 2151		5.5	168		1938		4.4	134					
<b>9</b>	0412		-0.4	-12	<b>21</b>	0155		0.5	15					
	1022		4.0	122		0756		3.6	110					
	Th 1603		-0.2	-6		Tu 1347		0.5	15					
	2239		5.4	165		2017		4.6	140					
<b>10</b>	0501		-0.2	-6	<b>22</b>	0236		0.4	12					
	1111		3.8	116		0838		3.6	110					
	F 1649		0.0	0		W 1424		0.4	12					
	2327		5.1	155		2056		4.8	146					
<b>11</b>	0553		0.1	3	<b>23</b>	0316		0.3	9					
	1202		3.6	110		0919		3.6	110					
	Sa 1738		0.3	9		Th 1501		0.3	9					
						☉ 2135		4.9	149					
<b>12</b>	0017		4.9	149	<b>24</b>	0355		0.2	6					
	0648		0.3	9		1000		3.5	107					
	Su 1254		3.5	107		F 1539		0.3	9					
	1831		0.5	15		2216		4.9	149					

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

**DAYLIGHT  
 SAVING TIME**  
 Times ARE adjusted  
 for DST.

# DELAWARE BAY ENTRANCE (LB10)

**MAY 2024**

**db0502 (12 ft)**

F-Flood, Dir. 327° True				E-Ebb, Dir. 147° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0406	0054	1.6F	<b>13</b>	0224	0548	1.9E	<b>25</b>	0612	0300	2.1E
W	1042	0730	1.9E	M	0912	1200	1.4F	Sa	0912	0912	1.5F
●	1648	1342	1.5F		1506	1806	1.4E		1212	1506	1.7E
	2254	1954	1.7E		2100				1754	2106	1.8F
<b>2</b>		0200	1.6F	<b>14</b>		0006	1.5F	<b>26</b>	0018	0342	2.2E
Th	0518	0836	1.9E	Tu	0318	0648	1.7E	Su	0700	0954	1.6F
	1148	1442	1.6F		1006	1248	1.3F		1254	1554	1.7E
	1754	2106	1.8E		1600	1906	1.3E		1842	2154	1.8F
					2206						
<b>3</b>	0006	0306	1.7F	<b>15</b>		0106	1.4F	<b>27</b>	0106	0424	2.2E
F	0624	0942	1.9E	W	0418	0748	1.6E	M	0742	1042	1.6F
	1242	1542	1.7F	●	1100	1348	1.3F		1348	1642	1.8E
	1900	2212	2.0E		1700	2006	1.3E		1936	2248	1.8F
					2312						
<b>4</b>	0112	0412	1.8F	<b>16</b>		0206	1.3F	<b>28</b>	0154	0518	2.1E
Sa	0730	1036	2.0E	Th	0518	0842	1.5E	Tu	0836	1130	1.7F
	1336	1642	1.9F		1154	1442	1.3F		1436	1736	1.8E
	1954	2312	2.2E		1754	2112	1.4E		2036	2342	1.8F
<b>5</b>	0218	0512	1.9F	<b>17</b>	0012	0306	1.3F	<b>29</b>	0254	0612	2.1E
Su	0824	1130	2.1E	F	0618	0936	1.5E	W	0930	1224	1.7F
	1430	1730	2.1F		1248	1536	1.3F		1536	1836	1.8E
	2048				1854	2206	1.5E		2136		
<b>6</b>		0006	2.4E	<b>18</b>	0118	0406	1.3F	<b>30</b>		0042	1.8F
M	0312	0606	1.9F	Sa	0712	1024	1.5E	Th	0354	0712	2.1E
	0918	1224	2.2E		1330	1630	1.5F	●	1024	1324	1.7F
	1518	1818	2.3F		1942	2300	1.6E		1636	1942	1.8E
	2142								2242		
<b>7</b>		0100	2.5E	<b>19</b>	0212	0454	1.3F	<b>31</b>		0142	1.7F
Tu	0406	0654	1.9F	Su	0800	1106	1.5E	F	0454	0812	2.0E
	1006	1312	2.1E		1412	1712	1.6F		1118	1418	1.8F
	1600	1906	2.3F		2030	2348	1.7E		1736	2048	1.9E
	2230								2354		
<b>8</b>		0148	2.6E	<b>20</b>	0300	0542	1.4F				
W	0500	0742	1.9F	M	0842	1148	1.5E				
●	1054	1400	2.1E		1448	1754	1.7F				
	1642	1948	2.3F		2112						
	2318										
<b>9</b>		0236	2.5E	<b>21</b>	0342	0624	1.8E				
Th	0548	0836	1.8F	Tu	0924	1224	1.4F				
	1142	1442	1.9E		1518	1830	1.6E				
	1730	2036	2.1F		2148		1.7F				
<b>10</b>	0000	0324	2.4E	<b>22</b>		0106	1.9E				
F	0642	0924	1.7F	W	0424	0700	1.4F				
	1230	1530	1.8E		1000	1300	1.6E				
	1818	2124	2.0F		1554	1906	1.8F				
					2224						
<b>11</b>	0048	0412	2.3E	<b>23</b>		0142	2.0E				
Sa	0730	1018	1.6F	Th	0500	0742	1.4F				
	1324	1618	1.6E		1042	1342	1.6E				
	1906	2218	1.8F	○	1630	1942	1.8F				
					2300						
<b>12</b>	0136	0500	2.1E	<b>24</b>		0218	2.1E				
Su	0824	1106	1.5F	F	0536	0824	1.5F				
	1412	1706	1.5E		1124	1418	1.7E				
	2006	2312	1.7F		1712	2024	1.8F				
					2336						

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**DAYLIGHT SAVING TIME**  
Times ARE adjusted for DST.

# BREAKWATER HARBOR, DELAWARE

**JUNE 2024**

**STATION ID 8557380**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0431	4.2	128	<b>13</b>	0211	4.0	122	<b>25</b>	0550	0.0	0
	1038	0.1	3		0843	0.7	21		1204	3.8	116
	Sa 1713	4.4	134		Th 1455	3.5	107		Tu 1745	0.2	6
	2317	0.3	9		2048	1.0	30				
<b>2</b>	0534	4.1	125	<b>14</b>	0300	3.8	116	<b>26</b>	0021	5.0	152
	1132	0.0	0		0927	0.7	21		0640	0.0	0
	Su 1809	4.8	146		F 1547	3.6	110		W 1256	3.9	119
			● 2145		1.1	34	1844		0.3	9	
<b>3</b>	0021	0.2	6	<b>15</b>	0352	3.6	110	<b>27</b>	0113	4.8	146
	0632	4.0	122		1010	0.8	24		0731	0.0	0
	M 1224	-0.1	-3		Sa 1640	3.8	116		Th 1351	4.1	125
	1903	5.1	155		2243	1.0	30		1945	0.3	9
<b>4</b>	0122	0.0	0	<b>16</b>	0447	3.5	107	<b>28</b>	0207	4.5	137
	0729	3.9	119		1053	0.7	21		0822	0.0	0
	Tu 1315	-0.1	-3		Su 1728	4.0	122		F 1448	4.2	128
	1955	5.3	162		2339	1.0	30		● 2049	0.4	12
<b>5</b>	0219	-0.1	-3	<b>17</b>	0540	3.4	104	<b>29</b>	0305	4.2	128
	0823	3.9	119		1136	0.7	21		0915	0.0	0
	W 1406	-0.1	-3		M 1814	4.2	128		Sa 1549	4.4	134
	2045	5.3	162						2156	0.4	12
<b>6</b>	0311	-0.1	-3	<b>18</b>	0031	0.8	24	<b>30</b>	0408	4.0	122
	0915	3.8	116		0629	3.4	104		1009	0.1	3
	Th 1455	-0.1	-3		Tu 1219	0.6	18		Su 1651	4.7	143
	● 2134	5.3	162		1858	4.5	137		2305	0.4	12
<b>7</b>	0400	-0.1	-3	<b>19</b>	0121	0.7	21				
	1005	3.7	113		0717	3.3	101				
	F 1541	0.0	0		W 1303	0.5	15				
	2221	5.2	158		1942	4.7	143				
<b>8</b>	0447	0.0	0	<b>20</b>	0208	0.5	15				
	1053	3.6	110		0805	3.4	104				
	Sa 1628	0.1	3		Th 1348	0.4	12				
	2308	5.0	152		2027	4.9	149				
<b>9</b>	0534	0.2	6	<b>21</b>	0252	0.3	9				
	1141	3.6	110		0852	3.4	104				
	Su 1715	0.4	12		F 1432	0.3	9				
	2354	4.8	146		2112	5.0	152				
<b>10</b>	0623	0.3	9	<b>22</b>	0335	0.2	6				
	1229	3.5	107		0938	3.5	107				
	M 1805	0.6	18		Sa 1517	0.2	6				
					○ 2157	5.1	155				
<b>11</b>	0039	4.5	137	<b>23</b>	0418	0.1	3				
	0711	0.5	15		1025	3.6	110				
	Tu 1317	3.5	107		Su 1603	0.1	3				
	1858	0.8	24		2243	5.2	158				
<b>12</b>	0125	4.3	131	<b>24</b>	0503	0.0	0				
	0758	0.6	18		1113	3.7	113				
	W 1406	3.5	107		M 1652	0.1	3				
	1952	0.9	27		2331	5.1	155				

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean low water which is the chart datum of soundings.

### DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# DELAWARE BAY ENTRANCE (LB10)

**JUNE 2024**

**db0502 (12 ft)**

F-Flood, Dir. 327° True				E-Ebb, Dir. 147° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>		0248	1.7F	<b>13</b>	0030	0030	1.5F	<b>25</b>	0054	0412	2.3E
Sa	0600	0912	2.0E	Th	0336	0700	1.6E	Tu	0724	1024	1.7F
	1212	1518	1.9F		1018	1306	1.4F		1330	1630	1.9E
	1842	2154	2.1E		1618	1924	1.4E		1924	2236	1.9F
					2230						
<b>2</b>	0100	0348	1.7F	<b>14</b>		0124	1.3F	<b>26</b>	0148	0500	2.3E
Su	0700	1012	2.0E		0424	0748	1.5E		0818	1112	1.8F
	1306	1612	2.1F	F	1100	1400	1.4F	W	1424	1724	1.9E
	1936	2254	2.2E	○	1712	2024	1.4E		2024	2330	1.9F
					2330						
<b>3</b>	0206	0448	1.7F	<b>15</b>		0218	1.2F	<b>27</b>	0236	0554	2.3E
M	0754	1106	2.0E		0518	0836	1.5E		0906	1206	1.9F
	1400	1706	2.2F	Sa	1148	1448	1.4F	Th	1518	1824	2.0E
	2030	2354	2.4E		1806	2118	1.4E		2124		
<b>4</b>	0306	0548	1.7F	<b>16</b>	0030	0318	1.1F	<b>28</b>		0024	1.8F
Tu	0854	1200	2.0E		0612	0918	1.4E	F	0330	0648	2.2E
	1448	1754	2.2F	Su	1230	1542	1.5F		1000	1300	2.0F
	2124				1900	2212	1.5E	○	1618	1930	2.0E
									2230		
<b>5</b>		0048	2.5E	<b>17</b>	0130	0412	1.1F	<b>29</b>		0124	1.7F
W	0400	0636	1.7F		0700	1006	1.4E		0430	0748	2.1E
	0948	1248	1.9E	M	1312	1624	1.6F	Sa	1048	1354	2.0F
	1536	1842	2.2F		1948	2306	1.6E		1718	2030	2.0E
	2212								2336		
<b>6</b>		0136	2.5E	<b>18</b>	0224	0500	1.1F	<b>30</b>		0224	1.6F
Th	0448	0730	1.7F		0748	1054	1.4E	Su	0530	0848	2.0E
●	1036	1342	1.8E	Tu	1354	1712	1.6F		1142	1454	2.0F
	1624	1930	2.1F		2030	2348	1.7E		1824	2136	2.1E
	2254										
<b>7</b>		0224	2.4E	<b>19</b>	0312	0548	1.2F				
F	0536	0818	1.6F		0836	1136	1.5E				
	1130	1424	1.7E	W	1436	1754	1.7F				
	1712	2018	2.0F		2112						
	2342										
<b>8</b>		0306	2.3E	<b>20</b>		0030	1.9E				
Sa	0624	0906	1.6F	Th	0354	0630	1.3F				
	1218	1512	1.6E		0924	1224	1.5E				
	1800	2106	1.9F		1518	1830	1.8F				
					2154						
<b>9</b>	0030	0354	2.2E	<b>21</b>		0112	2.0E				
Su	0712	0954	1.5F		0430	0712	1.4F				
	1306	1600	1.6E	F	1012	1312	1.6E				
	1848	2154	1.8F		1600	1912	1.8F				
					2236						
<b>10</b>	0112	0436	2.1E	<b>22</b>		0154	2.1E				
M	0800	1042	1.5F		0512	0800	1.4F				
	1348	1648	1.5E	Sa	1100	1400	1.7E				
	1942	2248	1.7F	○	1648	2000	1.8F				
					2318						
<b>11</b>	0200	0524	1.9E	<b>23</b>		0236	2.2E				
Tu	0848	1130	1.4F		0554	0848	1.5F				
	1436	1736	1.4E	Su	1148	1448	1.8E				
	2036	2342	1.6F		1736	2048	1.9F				
<b>12</b>	0248	0612	-1.8E	<b>24</b>	0006	0324	2.2E				
W	0930	1218	1.4F		0636	0936	1.6F				
	1524	1830	-1.4E	M	1236	1536	1.9E				
	2130				1830	2142	1.9F				

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

## DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# BREAKWATER HARBOR, DELAWARE

**JULY 2024**

**STATION ID 8557380**

		Times and Heights of High and Low Waters										
Day	Time	Height		Day	Time	Height		Day	Time	Height		
	h.m.	ft.	cm		h.m.	ft.	cm		h.m.	ft.	cm	
<b>1</b> M	0513	3.8	116	<b>13</b> Sa ☉	0211	3.8	116	<b>25</b> Th	0004	5.1	155	
	1104	0.1	3		0830	0.7	21		0614	-0.1	-3	
	1750	4.9	149		1453	3.8	116		1236	4.5	137	
					2058	1.1	34		1831	0.1	3	
<b>2</b> Tu	0011	0.4	12	<b>14</b> Su	0258	3.5	107	<b>26</b> F	0056	4.8	146	
	0615	3.6	110		0912	0.8	24		0704	-0.1	-3	
	1159	0.1	3		1543	3.9	119		1329	4.6	140	
	1846	5.0	152		2154	1.1	34		1933	0.3	9	
<b>3</b> W	0113	0.3	9	<b>15</b> M	0351	3.3	101	<b>27</b> Sa	0149	4.4	134	
	0713	3.6	110		0956	0.8	24		0755	0.0	0	
	1254	0.1	3		1637	4.1	125		1425	4.7	143	
	1940	5.1	155		2253	1.1	34		2036	0.4	12	
<b>4</b> Th	0211	0.2	6	<b>16</b> Tu	0450	3.2	98	<b>28</b> Su ☉	0246	4.1	125	
	0809	3.6	110		1044	0.8	24		0847	0.1	3	
	1347	0.1	3		1730	4.3	131		1526	4.7	143	
	2032	5.1	155		2351	1.0	30		2144	0.6	18	
<b>5</b> F ●	0302	0.2	6	<b>17</b> W	0547	3.2	98	<b>29</b> M	0349	3.8	116	
	0901	3.6	110		1135	0.7	21		0943	0.3	9	
	1437	0.1	3		1821	4.5	137		1631	4.8	146	
	2120	5.1	155					2254	0.6	18		
<b>6</b> Sa	0347	0.2	6	<b>18</b> Th	0046	0.8	24	<b>30</b> Tu	0458	3.5	107	
	0949	3.6	110		0641	3.3	101		1042	0.4	12	
	1525	0.2	6		1226	0.6	18		1735	4.8	146	
	2205	5.0	152		1911	4.8	146					
<b>7</b> Su	0430	0.2	6	<b>19</b> F	0138	0.6	18	<b>31</b> W	0002	0.6	18	
	1034	3.6	110		0734	3.4	104		0603	3.5	107	
	1609	0.3	9		1318	0.4	12		1141	0.4	12	
	2247	4.9	149		2001	5.0	152		1834	4.9	149	
<b>8</b> M	0510	0.3	9	<b>20</b> Sa	0227	0.4	12		Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.			
	1117	3.7	113		0826	3.5	107					
	1653	0.4	12		1409	0.2	6					
	2328	4.7	143		2050	5.2	158					
<b>9</b> Tu	0551	0.4	12	<b>21</b> Su ○	0312	0.2	6					
	1159	3.7	113		0916	3.7	113					
	1738	0.6	18		1459	0.0	0					
					2139	5.3	162					
<b>10</b> W	0008	4.5	137	<b>22</b> M	0356	0.0	0					
	0631	0.5	15		1005	3.9	119					
	1242	3.7	113		1549	-0.1	-3					
	1826	0.7	21		2226	5.3	162					
<b>11</b> Th	0048	4.3	131	<b>23</b> Tu	0440	-0.1	-3		<b>DAYLIGHT SAVING TIME</b>  Times ARE adjusted for DST.			
	0711	0.6	18		1054	4.1	125					
	1324	3.7	113		1640	-0.1	-3					
	1915	0.9	27		2315	5.3	162					
<b>12</b> F	0129	4.0	122	<b>24</b> W	0526	-0.2	-6					
	0750	0.7	21		1144	4.3	131					
	1407	3.8	116		1733	0.0	0					
	2005	1.0	30									

# DELAWARE BAY ENTRANCE (LB10)

**JULY 2024**

**db0502 (12 ft)**

F-Flood, Dir. 327° True				E-Ebb, Dir. 147° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b> M	0048	0330	1.5F	<b>13</b> Sa ●	0336	0048	1.3F	<b>25</b> Th	0130	0442	2.4E
	0630	0942	1.9E		1006	0648	1.6E		0748	1048	2.0F
	1242	1548	2.1F		1624	1312	1.5F		1400	1706	2.1E
	1918	2242	2.2E		2242	1930	1.4E		2006	2312	2.0F
<b>2</b> Tu	0154	0430	1.5F	<b>14</b> Su	0418	0136	1.2F	<b>26</b> F	0218	0530	2.3E
	0736	1042	1.9E		1048	0736	1.5E		0842	1142	2.1F
	1336	1648	2.1F		1718	1400	1.5F		1500	1806	2.1E
	2018	2336	2.3E		2342	2024	1.4E		2112		
<b>3</b> W	0254	0530	1.5F	<b>15</b> M	0512	0230	1.0F	<b>27</b> Sa	0306	0624	1.8F
	0836	1142	1.8E		1130	0824	1.4E		0930	1236	2.1F
	1424	1736	2.1F		1812	1448	1.5F		1600	1912	2.0E
	2106				1812	2124	1.5E		2218		
<b>4</b> Th		0030	2.4E	<b>16</b> Tu	0048	0324	1.0F	<b>28</b> Su ●		0106	1.6F
	0348	0624	1.6F		0606	0912	1.4E		0406	0724	2.0E
	0930	1236	1.8E		1218	1542	1.5F		1024	1330	2.1F
	1518	1824	2.1F		1900	2218	1.5E		1700	2012	2.0E
	2154								2324		
<b>5</b> F ●		0118	2.4E	<b>17</b> W	0142	0418	1.0F	<b>29</b> M		0206	1.5F
	0436	0712	1.6F		0706	1006	1.4E		0506	0818	1.9E
	1024	1324	1.7E		1306	1630	1.6F		1118	1430	2.0F
	1606	1912	2.0F		1948	2306	1.7E		1800	2118	2.0E
	2242										
<b>6</b> Sa		0206	2.3E	<b>18</b> Th	0230	0512	1.1F	<b>30</b> Tu		0312	1.4F
	0524	0800	1.6F		0800	1100	1.4E		0612	0924	1.8E
	1112	1412	1.7E		1354	1718	1.7F		1218	1530	2.0F
	1654	2000	1.9F		2036			1900	2224	2.1E	
	2324										
<b>7</b> Su		0254	2.3E	<b>19</b> F	0318	0600	1.2F	<b>31</b> W		0412	1.4F
	0606	0848	1.5F		0854	1154	1.5E		0718	1024	1.7E
	1200	1454	1.6E		1448	1806	1.8F		1318	1630	1.9F
	1742	2048	1.8F		2124			2000	2324	2.2E	
<b>8</b> M	0012	0330	2.2E	<b>20</b> Sa	0400	0048	2.0E		Time meridian 75° W.		
	0648	0936	1.5F		0942	1248	1.7E		0000 is midnight.		
	1242	1536	1.6E		1536	1848	1.9F		1200 is noon.		
	1830	2136	1.8F		2212						
<b>9</b> Tu	0054	0412	2.1E	<b>21</b> Su ○	0448	0130	2.1E		DAYLIGHT		
	0736	1018	1.5F		1036	0730	1.5F		SAVING TIME		
	1324	1618	1.5E		1630	1336	1.8E		Times ARE adjusted		
	1912	2224	1.7F		2300	1942	2.0F	for DST.			
<b>10</b> W	0136	0454	1.9E	<b>22</b> M	0530	0218	2.2E		DAYLIGHT		
	0812	1100	1.5F		1124	0818	1.6F		SAVING TIME		
	1406	1700	1.5E		1718	1430	1.9E		Times ARE adjusted		
	2006	2312	1.6F		2348	2030	2.0F	for DST.			
<b>11</b> Th	0212	0530	1.8E	<b>23</b> Tu	0618	0306	2.3E		DAYLIGHT		
	0854	1142	1.5F		1218	0912	1.7F		SAVING TIME		
	1448	1748	1.5E		1812	1518	2.0E		Times ARE adjusted		
	2054	2354	1.5F		1812	2124	2.1F	for DST.			
<b>12</b> F	0254	0606	1.7E	<b>24</b> W	0042	0354	2.4E		DAYLIGHT		
	0930	1230	1.5F		0706	1000	1.9F		SAVING TIME		
	1536	1836	1.4E		1306	1612	2.1E		Times ARE adjusted		
	2148				1912	2218	2.1F	for DST.			



# BREAKWATER HARBOR, DELAWARE

**AUGUST 2024**

**STATION ID 8557380**

		Times and Heights of High and Low Waters									
		Time		Time		Time		Time			
		Height		Height		Height		Height			
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.		
<b>1</b> Th	0105	0.6	18	<b>13</b> Tu	0303	3.3	101	<b>25</b> Su	0130	4.3	131
	0702	3.5	107		0907	0.9	27		0726	0.2	6
	1239	0.4	12		1548	4.2	128		1401	5.0	152
	1929	5.0	152		2211	1.2	37		2022	0.5	15
<b>2</b> F	0201	0.5	15	<b>14</b> W	0405	3.2	98	<b>26</b> M ☉	0228	3.9	119
	0757	3.6	110		1000	0.9	27		0821	0.4	12
	1334	0.4	12		1649	4.4	134		1503	4.9	149
	2019	5.0	152		2313	1.2	37		2131	0.8	24
<b>3</b> Sa	0248	0.4	12	<b>15</b> Th	0511	3.2	98	<b>27</b> Tu	0334	3.7	113
	0846	3.7	113		1058	0.8	24		0921	0.6	18
	1424	0.4	12		1748	4.6	140		1611	4.8	146
	2105	5.0	152						2244	0.9	27
<b>4</b> Su ●	0329	0.4	12	<b>16</b> F	0012	1.0	30	<b>28</b> W	0447	3.5	107
	0929	3.8	116		0612	3.4	104		1024	0.7	21
	1510	0.3	9		1157	0.7	21		1720	4.8	146
	2145	4.9	149		1844	4.9	149		2352	0.9	27
<b>5</b> M	0405	0.4	12	<b>17</b> Sa	0107	0.7	21	<b>29</b> Th	0554	3.5	107
	1009	3.9	119		0708	3.6	110		1129	0.8	24
	1551	0.4	12		1254	0.4	12		1821	4.8	146
	2223	4.8	146		1936	5.1	155				
<b>6</b> Tu	0439	0.4	12	<b>18</b> Su	0158	0.4	12	<b>30</b> F	0052	0.8	24
	1047	4.0	122		0801	3.9	119		0651	3.6	110
	1631	0.5	15		1350	0.2	6		1229	0.7	21
	2259	4.7	143		2028	5.3	162		1914	4.8	146
<b>7</b> W	0513	0.5	15	<b>19</b> M ○	0245	0.2	6	<b>31</b> Sa	0143	0.7	21
	1125	4.0	122		0853	4.2	128		0741	3.8	116
	1711	0.6	18		1443	0.0	0		1323	0.7	21
	2335	4.5	137		2117	5.5	168		2001	4.9	149
<b>8</b> Th	0547	0.6	18	<b>20</b> Tu	0329	-0.1	-3		Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.		
	1202	4.0	122		0942	4.5	137				
	1753	0.7	21		1535	-0.2	-6				
					2206	5.5	168				
<b>9</b> F	0012	4.3	131	<b>21</b> W	0413	-0.2	-6				
	0622	0.7	21		1031	4.8	146				
	1241	4.1	125		1626	-0.2	-6				
	1838	0.9	27		2254	5.3	162				
<b>10</b> Sa	0049	4.0	122	<b>22</b> Th	0458	-0.2	-6				
	0659	0.8	24		1120	5.0	152				
	1321	4.1	125		1719	-0.1	-3				
	1926	1.0	30		2344	5.1	155				
<b>11</b> Su	0129	3.8	116	<b>23</b> F	0544	-0.1	-3		<b>DAYLIGHT SAVING TIME</b>  Times ARE adjusted for DST.		
	0738	0.8	24		1212	5.1	155				
	1404	4.1	125		1817	0.1	3				
	2016	1.2	37								
<b>12</b> M ☉	0213	3.5	107	<b>24</b> Sa	0036	4.7	143				
	0820	0.9	27		0634	0.0	0				
	1452	4.2	128		1305	5.1	155				
	2111	1.2	37		1918	0.3	9				

# DELAWARE BAY ENTRANCE(LB10)

**AUGUST 2024**

**db0502 (12 ft)**

F-Flood, Dir. 327° True				E-Ebb, Dir. 147° True								
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current		
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	
<b>1</b>	0236	0512	1.4F	<b>13</b>	0148	0148	1.0F	<b>25</b>	0242	0554	2.1E	
Th	0818	1124	1.7E	Tu	0424	0736	1.4E	Su	0900	1206	2.1F	
	1412	1724	1.9F		1042	1400	1.5F		1530	1848	2.0E	
	2054				1718	2036	1.5E		2200			
<b>2</b>		0018	2.2E	<b>14</b>	0000	0242	1.0F	<b>26</b>		0042	1.5F	
F	0330	0606	1.5F		0524	0836	1.4E	M	0342	0654	1.9E	
	0918	1218	1.7E	W	1136	1454	1.5F	○	0954	1306	2.0F	
	1506	1812	1.9F		1818	2136	1.5E		1636	1954	2.0E	
	2142								2306			
<b>3</b>		0106	2.3E	<b>15</b>	0100	0342	1.0F	<b>27</b>		0142	1.4F	
Sa	0418	0654	1.6F		0624	0930	1.4E	Tu	0448	0800	1.7E	
	1006	1312	1.7E	Th	1230	1554	1.5F		1054	1406	1.8F	
	1600	1900	1.9F		1918	2236	1.7E		1742	2100	1.9E	
	2224											
<b>4</b>		0148	2.2E	<b>16</b>	0154	0442	1.1F	<b>28</b>		0018	0248	1.3F
Su	0500	0742	1.6F		0730	1036	1.5E	W	0554	0906	1.6E	
	1054	1354	1.7E	F	1330	1648	1.7F		1200	1506	1.7F	
●	1642	1942	1.9F		2012	2330	1.8E		1842	2206	2.0E	
	2312											
<b>5</b>		0230	2.2E	<b>17</b>	0248	0530	1.3F	<b>29</b>		0118	0354	1.3F
M	0542	0824	1.5F		0824	1130	1.7E	Th	0706	1012	1.6E	
	1136	1436	1.7E	Sa	1424	1742	1.9F		1306	1612	1.7F	
	1724	2030	1.9F		2106				1942	2306	2.0E	
	2348											
<b>6</b>		0306	2.1E	<b>18</b>	0330	0618	1.5F	<b>30</b>		0218	0500	1.4F
Tu	0624	0906	1.5F		0918	1224	1.9E	F	0806	1112	1.7E	
	1212	1518	1.7E	Su	1518	1830	2.0F		1406	1712	1.8F	
	1806	2112	1.8F		2154				2036			
<b>7</b>		0342	2.0E	<b>19</b>	0418	0706	1.6F	<b>31</b>		0000	2.1E	
W	0700	0948	1.5F		1006	1318	2.0E	Sa	0312	0554	1.5F	
	1254	1554	1.6E	M	1612	1918	2.1F		0900	1206	1.8E	
	1848	2154	1.7F	○	2242				1500	1800	1.9F	
<b>8</b>		0412	1.9E	<b>20</b>		0154	2.3E		2124			
Th	0736	1030	1.5F		0500	0754	1.8F					
	1330	1630	1.6E	Tu	1100	1412	2.2E					
	1936	2242	1.6F		1706	2012	2.2F					
					2330							
<b>9</b>		0448	1.8E	<b>21</b>		0242	2.4E					
F	0806	1106	1.5F		0548	0842	1.9F					
	1412	1706	1.6E	W	1154	1500	2.3E					
	2018	2324	1.5F		1800	2106	2.1F					
<b>10</b>		0518	1.7E	<b>22</b>		0330	2.4E					
Sa	0836	1148	1.5F		0630	0930	2.0F					
	1448	1754	1.5E	Th	1248	1554	2.3E					
	2106				1854	2154	2.1F					
<b>11</b>		0006	1.3F	<b>23</b>		0412	2.4E					
Su	0254	0600	1.6E		0106	0718	2.1F					
	0912	1224	1.5F	F	1342	1648	2.2E					
	1536	1842	1.5E		1954	2248	1.9F					
	2200											
<b>12</b>		0054	1.2F	<b>24</b>		0506	2.3E					
M	0336	0648	1.5E		0806	1112	2.1F					
	0954	1312	1.5F	Sa	1436	1748	2.1E					
○	1624	1936	1.4E		2054	2342	1.7F					
	2300											

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

## DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# BREAKWATER HARBOR, DELAWARE

**SEPTEMBER 2024**

**STATION ID 8557380**

## Times and Heights of High and Low Waters

	Time		Height			Time		Height			Time		Height	
	Day	h.m.	ft.	cm		Day	h.m.	ft.	cm		Day	h.m.	ft.	cm
<b>1</b> Su	0226	0.7	21		<b>13</b> F	0443	3.4	104		<b>25</b> W	0319	3.6	110	
	0825	4.0	122			1030	1.0	30			0900	0.9	27	
	1411	0.6	18			1719	4.7	143			1550	4.7	143	
	2043	4.8	146			2341	1.0	30			2228	1.0	30	
<b>2</b> M	0302	0.6	18		<b>14</b> Sa	0548	3.6	110		<b>26</b> Th	0433	3.6	110	
	0904	4.1	125			1134	0.7	21			1009	1.0	30	
	1453	0.5	15			1817	5.0	152			1700	4.6	140	
	2120	4.8	146								2333	1.0	30	
<b>3</b> Tu	0334	0.5	15		<b>15</b> Su	0036	0.7	21		<b>27</b> F	0538	3.7	113	
	0941	4.3	131			0645	4.0	122			1116	1.0	30	
	1532	0.5	15			1235	0.5	15			1800	4.6	140	
	2155	4.7	143			1911	5.2	158						
<b>4</b> W	0403	0.5	15		<b>16</b> M	0126	0.4	12		<b>28</b> Sa	0028	0.9	27	
	1015	4.4	134			0738	4.4	134			0632	3.8	116	
	1608	0.5	15			1332	0.2	6			1215	0.9	27	
	2228	4.6	140			2003	5.4	165			1851	4.6	140	
<b>5</b> Th	0433	0.6	18		<b>17</b> Tu	0214	0.1	3		<b>29</b> Su	0113	0.8	24	
	1049	4.4	134			0828	4.8	146			0717	4.0	122	
	1645	0.6	18			1427	-0.1	-3			1307	0.8	24	
	2302	4.4	134			2054	5.4	165			1934	4.6	140	
<b>6</b> F	0503	0.7	21		<b>18</b> W	0259	-0.1	-3		<b>30</b> M	0152	0.7	21	
	1123	4.5	137			0918	5.2	158			0758	4.2	128	
	1723	0.8	24			1520	-0.3	-9			1353	0.7	21	
	2337	4.2	128			2143	5.3	162			2013	4.6	140	
<b>7</b> Sa	0535	0.8	24		<b>19</b> Th	0343	-0.2	-6						
	1200	4.5	137			1006	5.4	165						
	1805	0.9	27			1611	-0.3	-9						
						2232	5.1	155						
<b>8</b> Su	0013	4.0	122		<b>20</b> F	0428	-0.2	-6						
	0611	0.9	27			1055	5.5	168						
	1239	4.5	137			1704	-0.2	-6						
	1851	1.1	34			2322	4.8	146						
<b>9</b> M	0053	3.7	113		<b>21</b> Sa	0514	-0.1	-3						
	0651	1.0	30			1146	5.5	168						
	1322	4.4	134			1801	0.1	3						
	1941	1.2	37											
<b>10</b> Tu	0137	3.5	107		<b>22</b> Su	0015	4.5	137						
	0736	1.1	34			0604	0.2	6						
	1411	4.4	134			1240	5.4	165						
	2036	1.3	40			1902	0.4	12						
<b>11</b> W	0228	3.4	104		<b>23</b> M	0111	4.1	125						
	0827	1.1	34			0658	0.4	12						
	1507	4.4	134			1338	5.2	158						
	2136	1.3	40			2007	0.7	21						
<b>12</b> Th	0331	3.3	101		<b>24</b> Tu	0211	3.8	116						
	0926	1.1	34			0757	0.7	21						
	1613	4.5	137			1440	4.9	149						
	2240	1.2	37			2116	0.9	27						

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean lower low water which is the chart datum of soundings.

**DAYLIGHT SAVING TIME**  
 Times ARE adjusted for DST.

# DELAWARE BAY ENTRANCE (LB10)

**SEPTEMBER 2024**

**db0502 (12 ft)**

F-Flood, Dir. 327° True				E-Ebb, Dir. 147° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>		0042	.2E	<b>13</b>	0018	0312	1.1F	<b>25</b>		0124	1.3F
Su	0354	0636	1.6F		0600	0906	1.5E	W	0430	0742	1.5E
	0948	1254	1.8E	F	1206	1524	1.6F		1036	1342	1.6F
	1542	1842	1.9F		1848	2206	1.7E		1712	2042	1.8E
	2206								2354		
<b>2</b>		0124	.2E	<b>14</b>	0118	0406	1.2F	<b>26</b>		0230	1.3F
M	0436	0718	1.6F		0706	1012	1.6E	Th	0542	0854	1.5E
	1030	1336	1.8E	Sa	1312	1630	1.7F		1148	1448	1.6F
	1624	1924	1.9F		1948	2300	1.9E		1818	2142	1.8E
	2248										
<b>3</b>		0206	.1E	<b>15</b>	0212	0506	1.4F	<b>27</b>		0336	1.3F
Tu	0512	0754	1.6F		0800	1112	1.9E	F	0054	0648	1.6E
	1106	1412	1.8E	Su	1412	1724	2.0F		1254	1554	1.6F
	1706	2006	1.9F		2042	2354	2.1E		1924	2242	1.9E
●	2324										
<b>4</b>		0236	.1E	<b>16</b>	0300	0554	1.7F	<b>28</b>		0436	1.4F
W	0548	0836	1.6F		0854	1206	2.1E	Sa	0742	1054	1.7E
	1142	1448	1.8E	M	1506	1812	2.1F		1354	1654	1.7F
	1742	2048	1.8F		2130				2012	2330	2.0E
<b>5</b>		0306	.0E	<b>17</b>		0042	2.3E	<b>29</b>		0530	1.5F
Th	0000	0618	1.6F		0348	0636	1.9F	Su	0242	0836	1.8E
	0618	0912	1.6F	Tu	0948	1300	2.3E		0836	1148	1.8E
	1218	1524	1.8E		1600	1900	2.2F		1442	1742	1.8F
	1824	2130	1.7F		2218				2100		
<b>6</b>		0336	1.9E	<b>18</b>		0130	2.4E	<b>30</b>		0018	2.1E
F	0030	0648	1.6F		0430	0724	2.0F	M	0330	0612	1.6F
	0648	0948	1.6F	W	1036	1348	2.4E		0918	1230	1.9E
	1254	1554	1.7E	O	1648	1948	2.2F		1530	1824	1.9F
	1906	2206	1.6F		2306				2142		
<b>7</b>		0406	1.8E	<b>19</b>		0218	2.4E				
Sa	0106	0718	1.6F		0512	0812	2.2F				
	0718	1024	1.6F	Th	1130	1442	2.4E				
	1330	1636	1.7E		1742	2042	2.1F				
	1948	2248	1.4F		2354						
<b>8</b>		0442	1.7E	<b>20</b>		0300	2.4E				
Su	0136	0754	1.6F		0600	0900	2.2F				
	0754	1100	1.6F	F	1218	1530	2.4E				
	1412	1718	1.6E		1836	2136	2.0F				
	2036	2330	1.3F								
<b>9</b>		0524	1.6E	<b>21</b>		0348	2.3E				
M	0218	0830	1.5F		0648	0954	2.2F				
	0830	1142	1.5F	Sa	1312	1624	2.3E				
	1454	1800	1.6E		1936	2230	1.8F				
	2124										
<b>10</b>		0018	1.2F	<b>22</b>		0436	2.1E				
Tu	0300	0612	1.5E		0736	1042	2.1F				
	0612	0912	1.5F	Su	1406	1724	2.1E				
	0912	1230	1.5F		2036	2324	1.6F				
	1542	1854	1.5E								
	2218										
<b>11</b>		0112	1.1F	<b>23</b>		0530	1.9E				
W	0354	0706	1.4E		0830	1136	2.0F				
	0706	1006	1.4F	M	1506	1824	2.0E				
	1006	1318	1.4F		2142						
	1636	1954	1.5E								
●	2318										
<b>12</b>		0206	1.1F	<b>24</b>		0024	1.4F				
Th	0454	0806	1.4E		0324	0630	1.7E				
	0806	1106	1.4E	Tu	0930	1236	1.8F				
	1106	1424	1.5F	●	1606	1930	1.8E				
	1742	2100	1.6E		2248						

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

## DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# BREAKWATER HARBOR, DELAWARE

**OCTOBER 2024**

**STATION ID 8557380**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height		
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	
<b>1</b> Tu	0226	0.7	21	<b>13</b>	0526	3.9	119	<b>25</b>	0407	3.5	107	
	0834	4.4	134		1115	0.7	21		0946	1.1	34	
	1433	0.6	18	Su	1751	4.8	146		F	1627	4.3	131
	2049	4.6	140						2300	0.9	27	
<b>2</b> W ●	0256	0.6	18	<b>14</b>	0003	0.5	15	<b>26</b>	0511	3.6	110	
	0908	4.6	140		0622	4.3	131		M	1053	1.1	34
	1510	0.6	18	1218	0.4	12	Sa		1727	4.2	128	
	2124	4.5	137	1846	5.0	152			2350	0.8	24	
<b>3</b> Th	0325	0.6	18	<b>15</b>	0054	0.2	6	<b>27</b>	0602	3.8	116	
	0942	4.7	143		0714	4.8	146		Tu	1152	1.0	30
	1546	0.6	18	Tu	1317	0.1	3		Su	1816	4.2	128
	2157	4.4	134	1939	5.1	155						
<b>4</b> F	0353	0.6	18	<b>16</b>	0142	-0.1	-3	<b>28</b>	0032	0.8	24	
	1015	4.7	143		0805	5.2	158		M	0646	4.0	122
	1621	0.6	18	W	1412	-0.2	-6		1243	0.8	24	
	2231	4.2	128	2030	5.0	152	1859		4.2	128		
<b>5</b> Sa	0423	0.7	21	<b>17</b>	0229	-0.3	-9	<b>29</b>	0109	0.7	21	
	1049	4.8	146		0854	5.5	168		Tu	0724	4.3	131
	1658	0.7	21	Th	1506	-0.3	-9		Tu	1328	0.7	21
	2306	4.0	122	○	2121	4.9	149			1938	4.2	128
<b>6</b> Su	0455	0.8	24	<b>18</b>	0314	-0.3	-9	<b>30</b>	0143	0.6	18	
	1125	4.7	143		0943	5.7	174		W	0800	4.5	137
	1738	0.8	24	F	1557	-0.3	-9		1410	0.6	18	
	2343	3.8	116	2211	4.7	143	2016		4.1	125		
<b>7</b> M	0531	0.9	27	<b>19</b>	0400	-0.3	-9	<b>31</b>	0215	0.5	15	
	1205	4.7	143		1032	5.8	177		Th	0836	4.6	140
	1823	1.0	30	Sa	1649	-0.2	-6		1448	0.5	15	
				2302	4.4	134	2052		4.0	122		
<b>8</b> Tu	0024	3.6	110	<b>20</b>	0447	-0.1	-3	Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.				
	0612	1.0	30		1123	5.6	171					
	1249	4.6	140	Su	1744	0.1	3					
	1913	1.1	34	2355	4.1	125						
<b>9</b> W	0110	3.4	104	<b>21</b>	0537	0.2	6					
	0701	1.1	34		1217	5.4	165					
	1339	4.5	137	M	1844	0.4	12					
	2009	1.2	37									
<b>10</b> Th ●	0204	3.4	104	<b>22</b>	0052	3.8	116					
	0758	1.1	34		0632	0.5	15					
	1437	4.5	137	Tu	1314	5.1	155					
	2108	1.1	34	1948	0.6	18						
<b>11</b> F	0309	3.4	104	<b>23</b>	0152	3.6	110					
	0901	1.1	34		0733	0.8	24					
	1542	4.5	137	W	1414	4.7	143					
	2210	1.0	30	2054	0.8	24						
<b>12</b> Sa	0421	3.5	107	<b>24</b>	0257	3.5	107					
	1009	0.9	27		0838	1.0	30					
	1650	4.7	143	Th	1520	4.5	137					
	2309	0.8	24	●	2200	0.9	27					

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.  
Heights are referred to mean  
lower low water which is the  
chart datum of soundings.

### DAYLIGHT SAVING TIME

Times ARE adjusted  
for DST.

# DELAWARE BAY ENTRANCE (LB10)

**OCTOBER 2024**

**db0502 (12 ft)**

F-Flood, Dir. 327° True				E-Ebb, Dir. 147° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>		0054	2.1E	<b>13</b>	0048	0342	1.4F	<b>25</b>		0200	1.3F
Tu	0406	0648	1.7F	Su	0642	0954	1.8E	F	0512	0830	1.4E
	1000	1312	1.9E		1254	1606	1.8F		1124	1424	1.4F
	1606	1900	1.9F		1924	2236	2.0E		1748	2112	1.7E
	2218										
<b>2</b>		0130	2.0E	<b>14</b>	0142	0436	1.6F	<b>26</b>	0024	0306	1.3F
W	0436	0724	1.7F	M	0742	1054	2.0E	Sa	0618	0930	1.5E
●	1036	1348	1.9E		1354	1700	2.0F		1230	1530	1.5F
	1648	1942	1.8F		2018	2330	2.2E		1848	2206	1.8E
	2254										
<b>3</b>		0200	2.0E	<b>15</b>	0230	0530	1.9F	<b>27</b>	0118	0406	1.4F
Th	0506	0800	1.7F	Tu	0836	1148	2.3E	Su	0718	1030	1.6E
	1112	1424	1.9E		1454	1754	2.1F		1330	1624	1.6F
	1724	2018	1.7F		2106				1942	2300	1.8E
	2324										
<b>4</b>		0230	1.9E	<b>16</b>		0018	2.3E	<b>28</b>	0206	0454	1.5F
F	0536	0836	1.7F	W	0318	0612	2.1F	M	0806	1118	1.8E
	1148	1454	1.9E		0924	1242	2.4E		1418	1712	1.7F
	1800	2100	1.6F		1542	1842	2.2F		2024	2342	1.9E
	2354				2154						
<b>5</b>		0300	1.8E	<b>17</b>		0106	2.4E	<b>29</b>	0248	0542	1.7F
Sa	0600	0912	1.7F	Th	0400	0700	2.3F	Tu	0848	1206	1.9E
	1218	1530	1.8E	O	1018	1336	2.5E		1506	1754	1.7F
	1842	2136	1.5F		1636	1930	2.1F		2106		
					2242						
<b>6</b>	0030	0330	1.8E	<b>18</b>		0148	2.3E	<b>30</b>		0018	1.9E
Su	0636	0948	1.6F	F	0442	0742	2.3F	W	0324	0618	1.8F
	1254	1600	1.8E		1106	1424	2.5E		0930	1242	1.9E
	1918	2218	1.4F		1730	2018	2.0F		1548	1836	1.7F
					2330				2142		
<b>7</b>	0106	0412	1.7E	<b>19</b>		0236	2.2E	<b>31</b>		0054	1.9E
M	0712	1024	1.6F	Sa	0530	0836	2.3F	Th	0354	0654	1.8F
	1330	1642	1.7E		1154	1512	2.5E		1006	1318	2.0E
	2006	2300	1.3F		1824	2112	1.8F		1624	1912	1.7F
									2218		
<b>8</b>	0148	0454	1.6E	<b>20</b>	0018	0324	2.1E				
Tu	0754	1106	1.5F	Su	0618	0924	2.2F				
	1418	1730	1.7E		1248	1606	2.3E				
	2054	2348	1.2F		1918	2206	1.7F				
<b>9</b>	0236	0542	1.5E	<b>21</b>	0106	0412	1.9E				
W	0842	1154	1.5F	M	0706	1018	2.0F				
	1506	1824	1.6E		1342	1700	2.1E				
	2148				2018	2300	1.5F				
<b>10</b>		0042	1.2F	<b>22</b>	0206	0506	1.7E				
Th	0330	0642	1.5E	Tu	0806	1112	1.8F				
●	0942	1254	1.5F		1436	1800	1.9E				
	1606	1930	1.6E		2118						
	2248										
<b>11</b>		0142	1.2F	<b>23</b>		0000	1.4F				
F	0436	0742	1.5E	W	0300	0612	1.5E				
	1042	1400	1.5F		0906	1212	1.6F				
	1718	2036	1.7E		1536	1906	1.8E				
	2348				2218						
<b>12</b>		0242	1.3F	<b>24</b>		0100	1.3F				
Sa	0542	0848	1.6E	Th	0406	0718	1.4E				
	1148	1500	1.6F		1012	1318	1.5F				
	1824	2136	1.8E	●	1642	2012	1.7E				
					2324						

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

## DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# BREAKWATER HARBOR, DELAWARE

**NOVEMBER 2024**

**STATION ID 8557380**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0246	0.5	15	<b>13</b>	0552	4.9	149	<b>25</b>	0420	3.6	110
	0910	4.8	146		1202	-0.1	-3		1017	0.9	27
	F 1524	0.4	12		W 1816	4.4	134		M 1630	3.6	110
	● 2128	3.9	119						2241	0.6	18
<b>2</b>	0317	0.5	15	<b>14</b>	0012	-0.3	-9	<b>26</b>	0505	3.8	116
	0945	4.8	146		0643	5.3	162		1110	0.8	24
	Sa 1559	0.5	15		Th 1300	-0.3	-9		Tu 1716	3.6	110
	2204	3.8	116		1909	4.4	134		2320	0.5	15
<b>3</b>	0250	0.5	15	<b>15</b>	0101	-0.4	-12	<b>27</b>	0546	4.1	125
	0921	4.8	146		0734	5.5	168		1159	0.6	18
	Su 1536	0.5	15		F 1354	-0.4	-12		W 1759	3.5	107
	2141	3.6	110		O 2001	4.3	131		2357	0.4	12
<b>4</b>	0324	0.5	15	<b>16</b>	0149	-0.5	-15	<b>28</b>	0625	4.3	131
	0959	4.8	146		0824	5.6	171		1243	0.5	15
	M 1616	0.6	18		Sa 1445	-0.4	-12		Th 1841	3.5	107
	2220	3.5	107		2053	4.1	125				
<b>5</b>	0402	0.6	18	<b>17</b>	0236	-0.4	-12	<b>29</b>	0033	0.3	9
	1040	4.7	143		0913	5.6	171		F 0704	4.5	137
	Tu 1701	0.7	21		Su 1536	-0.3	-9		F 1324	0.3	9
	2304	3.4	104		2144	3.9	119		1922	3.4	104
<b>6</b>	0446	0.7	21	<b>18</b>	0324	-0.2	-6	<b>30</b>	0110	0.3	9
	1126	4.6	140		1004	5.4	165		0742	4.6	140
	W 1752	0.8	24		M 1628	-0.1	-3		Sa 1403	0.2	6
	2353	3.3	101		2236	3.7	113		2002	3.4	104
<b>7</b>	0538	0.8	24	<b>19</b>	0414	0.0	0				
	1217	4.5	137		1056	5.1	155				
	Th 1846	0.8	24		Tu 1724	0.2	6				
					2331	3.5	107				
<b>8</b>	0049	3.3	101	<b>20</b>	0508	0.3	9				
	0638	0.8	24		1149	4.7	143				
	F 1313	4.5	137		W 1823	0.4	12				
	1943	0.7	21								
<b>9</b>	0151	3.4	104	<b>21</b>	0027	3.4	104				
	0742	0.8	24		0606	0.6	18				
	Sa 1415	4.4	134		Th 1243	4.4	134				
	● 2040	0.6	18		1921	0.5	15				
<b>10</b>	0259	3.6	110	<b>22</b>	0126	3.3	101				
	0850	0.7	21		0708	0.8	24				
	Su 1521	4.4	134		F 1340	4.1	125				
	2137	0.4	12		2017	0.6	18				
<b>11</b>	0403	4.0	122	<b>23</b>	0227	3.3	101				
	0958	0.5	15		0812	0.9	27				
	M 1624	4.4	134		Sa 1438	3.9	119				
	2231	0.1	3		● 2111	0.7	21				
<b>12</b>	0500	4.5	137	<b>24</b>	0327	3.4	104				
	1102	0.2	6		0916	0.9	27				
	Tu 1722	4.4	134		Su 1537	3.7	113				
	2322	-0.1	-3		2159	0.6	18				

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

### EASTERN STANDARD TIME/ DAYLIGHT SAVING TIME

**Times ARE adjusted  
for DST until  
November 3.**

# DELAWARE BAY ENTRANCE (LB10)

**NOVEMBER 2024**

**db0502 (12 ft)**

F-Flood, Dir. 327° True				E-Ebb, Dir. 147° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0424	0124	1.8E	<b>13</b>	0100	0406	2.1F	<b>25</b>	0224	0224	1.4F
F	1042	0724	1.8F	W	0718	1036	2.4E	M	0536	0854	1.5E
●	1706	1354	1.9E		1342	1636	2.0F		1154	1442	1.4F
	2254	1954	1.6F		1942	2254	2.2E		1754	2112	1.6E
<b>2</b>		0154	1.8E	<b>14</b>	0148	0448	2.3F	<b>26</b>	0024	0312	1.5F
Sa	0454	0800	1.8F	Th	0812	1130	2.5E	Tu	0630	0942	1.6E
	1112	1424	1.9E		1436	1724	2.0F		1254	1536	1.4F
	1736	2030	1.5F		2030	2342	2.2E		1842	2200	1.6E
<b>3</b>		0130	1.7E	<b>15</b>	0230	0536	2.4F	<b>27</b>	0100	0400	1.6F
Su	0424	0736	1.7F	F	0900	1218	2.6E	W	0718	1030	1.8E
	1048	1400	1.9E		1530	1812	1.9F		1342	1624	1.5F
	1718	2012	1.4F	○	2124				1930	2236	1.7E
<b>4</b>		0206	1.7E	<b>16</b>	0318	0624	2.4F	<b>28</b>	0142	0442	1.7F
M	0500	0812	1.7F	Sa	0948	1306	2.6E	Th	0800	1112	1.8E
	1124	1436	1.9E		1618	1900	1.8F		1424	1706	1.5F
	1754	2054	1.4F		2212				2006	2312	1.7E
<b>5</b>		0242	1.7E	<b>17</b>	0406	0712	2.1E	<b>29</b>	0212	0518	1.8F
Tu	0542	0854	1.6F	Su	1036	1400	2.5E	F	0836	1154	1.9E
	1206	1518	1.9E		1712	1954	1.7F		1506	1748	1.5F
	1836	2136	1.4F		2300				2048	2348	1.7E
<b>6</b>	0030	0330	1.6E	<b>18</b>		0206	1.9E	<b>30</b>	0248	0554	1.8F
W	0630	0936	1.6F	M	0454	0800	2.1F	Sa	0912	1230	1.9E
	1248	1606	1.8E		1124	1448	2.3E		1542	1824	1.4F
	1930	2224	1.3F		1800	2048	1.6F		2124		
<b>7</b>	0118	0424	1.6E	<b>19</b>		0254	1.8E				
Th	0724	1030	1.6F	Tu	0542	0854	1.9F				
	1342	1700	1.8E		1218	1536	2.1E				
	2024	2318	1.3F		1854	2142	1.5F				
<b>8</b>	0212	0518	1.6E	<b>20</b>	0042	0342	1.6E				
F	0818	1130	1.6F	W	0642	0948	1.7F				
	1442	1806	1.8E		1306	1630	1.9E				
	2118				1948	2236	1.4F				
<b>9</b>		0018	1.4F	<b>21</b>	0136	0442	1.5E				
Sa	0312	0624	1.6E	Th	0742	1048	1.6F				
○	0924	1236	1.6F		1406	1730	1.7E				
	1548	1912	1.8E		2048	2330	1.3F				
	2218										
<b>10</b>		0118	1.4F	<b>22</b>	0236	0548	1.4E				
Su	0418	0730	1.7E	F	0842	1148	1.5F				
	1030	1342	1.7F		1506	1830	1.6E				
	1700	2012	1.9E		2148						
	2318										
<b>11</b>		0218	1.6F	<b>23</b>	0336	0654	1.4E				
M	0524	0836	1.9E	Sa	0948	1248	1.4F				
	1136	1442	1.8F	○	1606	1930	1.6E				
	1800	2106	2.1E		2242						
<b>12</b>	0012	0312	1.8F	<b>24</b>		0124	1.3F				
Tu	0624	0936	2.1E	Su	0442	0754	1.4E				
	1242	1542	1.9F		1054	1348	1.4F				
	1854	2200	2.2E		1706	2024	1.6E				
					2336						

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME/  
DAYLIGHT  
SAVING TIME**

**Times ARE adjusted  
for DST until  
November 3.**



# BREAKWATER HARBOR, DELAWARE

**DECEMBER 2024**

**STATION ID 8557380**

Times and Heights of High and Low Waters											
Time Height			Time Height			Time Height			Time Height		
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b> Su ●	0146	0.2	6	<b>13</b> F	0627	5.0	152	<b>25</b> W	0417	3.5	107
	0820	4.7	143		1250	-0.3	-9		1028	0.7	21
	1440	0.2	6		1853	3.7	113		1628	3.0	91
	2041	3.3	101						2226	0.4	12
<b>2</b> M	0223	0.2	6	<b>14</b> Sa	0039	-0.5	-15	<b>26</b> Th	0504	3.8	116
	0859	4.7	143		0719	5.2	158		1123	0.6	18
	1518	0.2	6		1345	-0.5	-15		1719	2.9	88
	2121	3.3	101		1947	3.6	110		2310	0.3	9
<b>3</b> Tu	0301	0.1	3	<b>15</b> Su ○	0130	-0.6	-18	<b>27</b> F	0549	4.0	122
	0940	4.7	143		0810	5.2	158		1213	0.4	12
	1559	0.2	6		1435	-0.5	-15		1807	2.9	88
	2203	3.2	98		2039	3.6	110		2354	0.2	6
<b>4</b> W	0343	0.2	6	<b>16</b> M	0219	-0.5	-15	<b>28</b> Sa	0633	4.2	128
	1023	4.7	143		0859	5.1	155		1259	0.2	6
	1643	0.2	6		1523	-0.4	-12		1853	3.0	91
	2249	3.2	98		2128	3.5	107				
<b>5</b> Th	0429	0.2	6	<b>17</b> Tu	0306	-0.4	-12	<b>29</b> Su	0037	0.1	3
	1109	4.6	140		0947	5.0	152		0716	4.4	134
	1732	0.2	6		1611	-0.3	-9		1341	0.1	3
	2339	3.2	98		2217	3.4	104		1937	3.0	91
<b>6</b> F	0523	0.3	9	<b>18</b> W	0354	-0.2	-6	<b>30</b> M ●	0120	-0.1	-3
	1159	4.4	134		1034	4.7	143		0759	4.5	137
	1823	0.2	6		1659	-0.1	-3		1421	-0.1	-3
					2306	3.3	101		2021	3.1	94
<b>7</b> Sa	0033	3.3	101	<b>19</b> Th	0444	0.0	0	<b>31</b> Tu	0202	-0.2	-6
	0622	0.4	12		1121	4.4	134		0841	4.6	140
	1252	4.3	131		1749	0.1	3		1500	-0.2	-6
	1916	0.1	3		2356	3.3	101		2102	3.2	98
<b>8</b> Su ●	0131	3.5	107	<b>20</b> F	0537	0.3	9	Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.			
	0726	0.4	12		1208	4.1	125				
	1350	4.1	125		1837	0.2	6				
	2010	0.1	3								
<b>9</b> M	0234	3.7	113	<b>21</b> Sa	0045	3.2	98	Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.			
	0833	0.3	9		0632	0.5	15				
	1453	3.9	119		1254	3.8	116				
	2105	-0.1	-3		1924	0.3	9				
<b>10</b> Tu	0338	4.0	122	<b>22</b> Su ●	0136	3.2	98	Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.			
	0942	0.2	6		0729	0.6	18				
	1559	3.8	116		1343	3.5	107				
	2200	-0.2	-6		2010	0.4	12				
<b>11</b> W	0438	4.4	134	<b>23</b> M	0229	3.3	101	Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.			
	1048	0.0	0		0828	0.7	21				
	1700	3.7	113		1436	3.2	98				
	2254	-0.3	-9		2056	0.4	12				
<b>12</b> Th	0533	4.8	146	<b>24</b> Tu	0325	3.4	104	Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.			
	1151	-0.2	-6		0929	0.8	24				
	1758	3.7	113		1533	3.1	94				
	2347	-0.4	-12		2141	0.4	12				

**EASTERN  
STANDARD TIME**

# DELAWARE BAY ENTRANCE (LB10)

**DECEMBER 2024**

**db0502 (12 ft)**

F-Flood, Dir. 327° True				E-Ebb, Dir. 147° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0318	0024	1.7E	<b>13</b>	0124	0430	2.2F	<b>25</b>	0224	0224	1.4F
Su	0948	0630	1.8F	F	0754	1118	2.5E	W	0548	0900	1.5E
●	1618	1300	2.0E		1424	1712	1.8F		1218	1454	1.2F
	2200	1906	1.4F		2018	2324	2.1E		1754	2100	1.4E
<b>2</b>		0100	1.7E	<b>14</b>	0212	0518	2.3F	<b>26</b>	0006	0318	1.5F
M	0354	0706	1.7F	Sa	0848	1206	2.5E	Th	0636	0954	1.6E
	1024	1336	2.0E		1518	1800	1.8F		1312	1548	1.2F
	1654	1948	1.4F		2106				1842	2148	1.4E
<b>3</b>		0142	1.7E	<b>15</b>		0012	2.0E	<b>27</b>	0048	0406	1.6F
Tu	0436	0748	1.7F	Su	0300	0606	2.3F	F	0724	1042	1.7E
	1100	1418	2.0E	O	0936	1254	2.5E		1400	1636	1.2F
	1730	2030	1.5F		1606	1848	1.7F		1930	2230	1.5E
	2324			<b>16</b>		0100	1.9E	<b>28</b>	0130	0448	1.7F
<b>4</b>		0224	1.7E	M	0348	0654	2.1F	Sa	0806	1124	1.8E
W	0518	0830	1.7F		1018	1342	2.4E		1442	1718	1.3F
	1148	1500	2.0E		1654	1936	1.7F		2012	2318	1.6E
	1818	2112	1.5F	<b>17</b>		0148	1.9E	<b>29</b>	0212	0524	1.7F
<b>5</b>	0012	0312	1.7E	Tu	0436	0742	2.0F	Su	0842	1200	1.9E
Th	0612	0924	1.7F		1106	1430	2.3E		1518	1800	1.4F
	1236	1548	2.0E		1742	2030	1.6F		2054		
	1906	2206	1.5F	<b>18</b>		0236	1.8E	<b>30</b>		0000	1.7E
<b>6</b>	0100	0406	1.7E	W	0524	0836	1.9F	M	0254	0606	1.8F
F	0706	1018	1.7F		1154	1518	2.1E	●	0924	1242	2.0E
	1324	1642	2.0E		1830	2118	1.5F		1554	1842	1.4F
	2000	2254	1.5F	<b>19</b>	0024	0324	1.6E		2136		
<b>7</b>	0154	0500	1.7E	Th	0618	0924	1.8F	<b>31</b>		0042	1.7E
Sa	0806	1112	1.7F		1242	1600	1.9E	Tu	0336	0642	1.8F
	1424	1742	2.0E		1924	2206	1.4F		1006	1318	2.0E
	2054	2348	1.6F	<b>20</b>	0112	0412	1.5E		1630	1924	1.5F
<b>8</b>	0254	0606	1.8E	F	0712	1018	1.7F		2224		
Su	0906	1212	1.7F		1330	1654	1.8E				
●	1524	1842	2.0E		2012	2254	1.4F				
	2148			<b>21</b>	0200	0506	1.4E				
<b>9</b>	0400	0048	1.6F	Sa	0806	1112	1.5F				
M	1012	1318	1.7F		1418	1742	1.6E				
	1630	1942	2.0E		2100	2348	1.3F				
	2248			<b>22</b>	0254	0606	1.4E				
<b>10</b>		0148	1.8F	Su	0906	1206	1.4F				
Tu	0506	0818	2.0E	●	1512	1836	1.5E				
	1124	1418	1.7F		2148						
	1730	2042	2.0E	<b>23</b>		0036	1.3F				
	2342			M	0348	0706	1.4E				
<b>11</b>	0606	0242	1.9F		1012	1300	1.3F				
W	1230	1518	1.7F		1606	1924	1.4E				
	1830	2136	2.0E		2236						
<b>12</b>	0030	0342	2.1F	<b>24</b>		0130	1.3F				
Th	0700	1024	2.3E	Tu	0448	0806	1.4E				
	1330	1618	1.8F		1118	1400	1.2F				
	1924	2230	2.1E		1700	2012	1.4E				
					2324						

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME**



**2024**

**TIDES AND CURRENTS**

**REEDY POINT, DELAWARE**

**AND**

**CHESAPEAKE AND**

**DELAWARE CANAL**

**(Chesapeake City, MD)**

# REEDY POINT, DELAWARE

**JANUARY 2024**

**STATION ID 8551910**

## Times and Heights of High and Low Waters

Day	Time		Height		Day	Time		Height		Day	Time		Height			
	h.m.	ft.	cm	ft.		cm	h.m.	ft.	cm		h.m.	ft.	cm			
<b>1</b> M	0227	4.3	131	<b>13</b>	0001	4.7	143	<b>25</b>	0454	-0.2	-6	Th	1046	5.2	158	
	0842	0.2	6		0639	-0.6	-18		1744	-0.2	-6					
	1434	4.8	146		Sa	1220	5.7		174	○	2313		4.5	137		
	2129	0.1	3		1928	-0.6	-18									
<b>2</b> Tu	0312	4.3	131	<b>14</b>	0050	4.8	146	<b>26</b>	0537	-0.2	-6	F	1128	5.1	155	
	0928	0.3	9		0731	-0.6	-18		1824	-0.2	-6					
	1520	4.7	143		Su	1311	5.7		174	2354	4.4		134			
	2209	0.1	3		2016	-0.6	-18									
<b>3</b> W	0358	4.3	131	<b>15</b>	0142	4.9	149	<b>27</b>	0618	-0.1	-3	Sa	1207	5.1	155	
	1020	0.3	9		0824	-0.6	-18		1902	-0.2	-6					
	1610	4.6	140		M	1404	5.5		168							
	2252	0.1	3		2104	-0.5	-15									
<b>4</b> Th	0447	4.4	134	<b>16</b>	0236	5.0	152	<b>28</b>	0034	4.4	134	Su	0657	-0.1	-3	
	1117	0.3	9		0920	-0.4	-12		1244	5.0	152					
	1705	4.4	134		Tu	1500	5.3		162	1937	-0.1		-3			
	⦿ 2338	0.1	3		2154	-0.5	-15									
<b>5</b> F	0539	4.5	137	<b>17</b>	0332	5.1	155	<b>29</b>	0112	4.4	134	M	0735	0.0	0	
	1217	0.3	9		1019	-0.3	-9		1321	4.9	149					
	1802	4.3	131		W	1557	5.1		155	2011	-0.1		-3			
					2245	-0.4	-12									
<b>6</b> Sa	0028	0.0	0	<b>18</b>	0430	5.1	155	<b>30</b>	0148	4.5	137	Tu	0813	0.0	0	
	0631	4.7	143		1120	-0.2	-6		1358	4.8	146					
	1318	0.2	6		Th	1657	4.8		146	2043	0.0		0			
	1900	4.2	128		⦿ 2338	-0.3	-9									
<b>7</b> Su	0120	0.0	0	<b>19</b>	0530	5.1	155	<b>31</b>	0225	4.5	137	W	0854	0.1	3	
	0723	4.9	149		1222	-0.1	-3		1438	4.6	140					
	1418	0.1	3		F	1758	4.6		140	2116	0.0		0			
	1955	4.2	128													
<b>8</b> M	0214	-0.1	-3	<b>20</b>	0033	-0.2	-6	Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.								
	0814	5.1	155		0630	5.2	158									
	1516	0.0	0		Sa	1324	0.0								0	
	2047	4.3	131		1859	4.5	137									
<b>9</b> Tu	0308	-0.2	-6	<b>21</b>	0128	-0.2	-6									
	0904	5.3	162		0729	5.2	158									
	1610	-0.2	-6		Su	1424	-0.1									-3
	2137	4.3	131		1957	4.4	134									
<b>10</b> W	0402	-0.3	-9	<b>22</b>	0223	-0.2	-6									
	0952	5.5	168		0824	5.2	158									
	1703	-0.3	-9		M	1520	-0.1									-3
	2225	4.5	137		2051	4.4	134									
<b>11</b> Th	0455	-0.4	-12	<b>23</b>	0317	-0.2	-6									
	1041	5.6	171		0915	5.3	162									
	1752	-0.4	-12		Tu	1612	-0.2									-6
	● 2312	4.6	140		2142	4.5	137									
<b>12</b> F	0547	-0.5	-15	<b>24</b>	0407	-0.2	-6									
	1130	5.7	174		1003	5.2	158									
	1841	-0.5	-15		W	1700	-0.2									-6
					2229	4.5	137									

# CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)

**JANUARY 2024**

**cb1301**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b> M	0154	0424	1.4E	<b>13</b> Sa	0000	0224	1.4E	<b>25</b> Th O	0348 0912 1636 2306	0106	1.1E
	0742	1018	1.6F		0518	0806	2.1F			0612	1.4F
	1306	1612	1.9E		1100	1418	2.6E			1236	2.1E
	1954	2254	1.8F		1818	2106	2.1F			1954	2.0F
<b>2</b> Tu	0224	0506	1.5E	<b>14</b> Su	0036	0306	1.5E	<b>26</b> F	0436 1000 1712 2342	0142	1.3E
	0824	1106	1.6F		0606	0900	2.2F			0700	1.5F
	1354	1706	1.7E		1200	1512	2.5E			1312	2.1E
	2036	2336	1.7F		1906	2148	2.1F			2012	2.0F
<b>3</b> W	0254	0548	1.6E	<b>15</b> M	0106	0348	1.7E	<b>27</b> Sa	0512 1042 1748	0212	1.4E
	0912	1154	1.6F		0700	0954	2.3F			0742	1.6F
	1454	1754	1.5E		1300	1600	2.3E			1348	2.1E
	2112				1954	2230	1.9F			2036	1.9F
<b>4</b> Th ●		0018	1.7F	<b>16</b> Tu	0142	0430	1.8E	<b>28</b> Su	0012 1124 1818	0242	1.5E
	0330	0636	1.7E		0754	1048	2.3F			0824	1.7F
	1006	1248	1.5F		1406	1654	2.0E			1430	2.0E
	1600	1854	1.3E		2036	2312	1.8F			2106	1.9F
<b>5</b> F		0100	1.6F	<b>17</b> W	0218	0524	2.0E	<b>29</b> M	0036 0630 1206 1848	0312	1.6E
	0406	0724	1.8E		0854	1142	2.2F			0906	1.7F
	1112	1348	1.5F		1512	1754	1.6E			1506	1.9E
	1718	1948	1.1E		2124					2136	1.9F
<b>6</b> Sa		0154	1.6F	<b>18</b> Th ●		0000	1.7F	<b>30</b> Tu	0100 0706 1248 1918	0348	1.7E
	0454	0812	1.9E		0300	0612	2.1E			0954	1.8F
	1212	1448	1.4F		1000	1248	2.0F			1548	1.8E
	1830	2048	1.0E		1624	1900	1.3E			2212	1.8F
<b>7</b> Su		0242	1.5F	<b>19</b> F		0048	1.6F	<b>31</b> W	0124 0748 1336 1948	0424	1.8E
	0542	0906	2.1E		0348	0712	2.1E			1036	1.7F
	1318	1554	1.5F		1106	1354	1.9F			1636	1.6E
	1942	2154	0.9E		1742	2000	1.1E			2254	1.8F
<b>8</b> M	0036	0342	1.5F	<b>20</b> Sa		0142	1.5F	Time meridian 75° W. 0000 is midnight. 1200 is noon.			
	0630	1000	2.2E		0442	0812	2.2E				
	1418	1700	1.6F		1218	1518	1.8F				
	2048	2254	0.8E		1900	2106	0.9E				
<b>9</b> Tu	0136	0436	1.6F	<b>21</b> Su	0000	0236	1.4F				
	0724	1054	2.3E		0536	0912	2.2E				
	1512	1800	1.8F		1324	1648	1.8F				
	2148	2354	0.9E		2006	2218	0.8E				
<b>10</b> W	0242	0530	1.7F	<b>22</b> M	0100	0330	1.3F				
	0818	1148	2.5E		0636	1006	2.2E				
	1600	1848	2.0F		1424	1748	1.9F				
	2236				2106	2324	0.9E				
<b>11</b> Th ●		0048	1.0E	<b>23</b> Tu	0200	0430	1.3F	<b>EASTERN STANDARD TIME</b>			
	0336	0624	1.8F		0730	1100	2.2E				
	0912	1236	2.6E		1512	1836	2.0F				
	1648	1936	2.1F		2154						
<b>12</b> F		0136	1.2E	<b>24</b> W		0012	1.0E				
	0424	0712	1.9F		0300	0524	1.4F				
	1006	1330	2.6E		0824	1154	2.2E				
	1736	2024	2.2F		1600	1918	2.0F				

# REEDY POINT, DELAWARE

**FEBRUARY 2024**

**STATION ID 8551910**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0303	4.6	140	<b>13</b>	0120	5.4	165	<b>25</b>	0557	-0.1	-3
	0941	0.2	6		0809	-0.7	-21		1144	5.2	158
	Th 1522	4.5	137		Tu 1346	5.5	168		Su 1829	-0.1	-3
	2154	0.0	0		2035	-0.6	-18				
<b>2</b>	0345	4.6	140	<b>14</b>	0211	5.5	168	<b>26</b>	0006	4.8	146
	1036	0.3	9		0903	-0.5	-15		0635	-0.1	-3
	F 1613	4.3	131		W 1439	5.3	162		M 1219	5.1	155
	☉ 2239	0.1	3		2123	-0.4	-12		1902	0.0	0
<b>3</b>	0435	4.7	143	<b>15</b>	0305	5.4	165	<b>27</b>	0039	4.9	149
	1137	0.3	9		1000	-0.3	-9		0713	0.0	0
	Sa 1713	4.1	125		Th 1535	5.0	152		Tu 1253	5.0	152
	2333	0.1	3		2214	-0.2	-6		1932	0.1	3
<b>4</b>	0533	4.8	146	<b>16</b>	0401	5.3	162	<b>28</b>	0110	4.9	149
	1243	0.3	9		1059	0.0	0		0750	0.1	3
	Su 1816	4.1	125		F 1634	4.7	143		W 1326	4.8	146
					☉ 2307	0.0	0		2000	0.1	3
<b>5</b>	0034	0.1	3	<b>17</b>	0501	5.2	158	<b>29</b>	0140	5.0	152
	0636	4.9	149		1201	0.1	3		0828	0.2	6
	M 1347	0.2	6		Sa 1736	4.5	137		Th 1402	4.7	143
	1919	4.1	125						2029	0.2	6
<b>6</b>	0138	0.0	0	<b>18</b>	0004	0.1	3				
	0738	5.1	155		0604	5.1	155				
	Tu 1448	0.1	3		Su 1302	0.2	6				
	2018	4.3	131		1838	4.4	134				
<b>7</b>	0242	-0.1	-3	<b>19</b>	0102	0.2	6				
	0837	5.3	162		0706	5.1	155				
	W 1545	-0.1	-3		M 1401	0.2	6				
	2112	4.5	137		1938	4.4	134				
<b>8</b>	0341	-0.3	-9	<b>20</b>	0200	0.2	6				
	0932	5.5	168		0804	5.1	155				
	Th 1638	-0.3	-9		Tu 1457	0.1	3				
	2203	4.7	143		2033	4.5	137				
<b>9</b>	0438	-0.6	-18	<b>21</b>	0254	0.1	3				
	1024	5.7	174		0857	5.2	158				
	F 1728	-0.5	-15		W 1548	0.0	0				
	● 2253	5.0	152		2123	4.6	140				
<b>10</b>	0532	-0.7	-21	<b>22</b>	0346	0.0	0				
	1115	5.8	177		0944	5.2	158				
	Sa 1816	-0.6	-18		Th 1634	-0.1	-3				
	2341	5.2	158		2209	4.7	143				
<b>11</b>	0624	-0.8	-24	<b>23</b>	0433	-0.1	-3				
	1205	5.8	177		1027	5.2	158				
	Su 1903	-0.7	-21		F 1716	-0.1	-3				
					2251	4.8	146				
<b>12</b>	0030	5.3	162	<b>24</b>	0516	-0.1	-3				
	0716	-0.8	-24		1107	5.2	158				
	M 1255	5.7	174		Sa 1754	-0.1	-3				
	1949	-0.7	-21		☉ 2330	4.8	146				

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

**EASTERN  
 STANDARD TIME**

# CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)

**FEBRUARY 2024**

**cb1301**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b> Th	0154	0506	1.9E	<b>13</b> Tu	0024	0318	2.1E	<b>25</b> Su	0136	0136	1.6E
	0836	1124	1.7F		0642	0936	2.5F		0448	0724	1.7F
	1430	1724	1.4E		1300	1548	2.1E		1036	1330	1.8E
<b>2</b> F	0230	0554	1.9E	<b>14</b> W	0100	0400	2.2E	<b>26</b> M	1712	2000	1.8F
	0936	1218	1.6F		0736	1030	2.4F		2324	0206	1.7E
	1536	1818	1.2E		1400	1642	1.7E		0524	0806	1.8F
<b>3</b> Sa	2106	0024	1.7F	<b>15</b> Th	2006	2242	1.8F	<b>27</b> Tu	1118	1406	1.8E
	0312	0642	2.0E		0136	0454	2.3E		1742	2030	1.8F
	1036	1312	1.5F		0842	1130	2.2F		2342	0236	1.8E
<b>4</b> Su	1648	1918	1.0E	<b>16</b> F	1512	1736	1.4E	<b>28</b> W	0600	0848	1.9F
	2154	0112	1.6F		2054	2330	1.6F		1200	1448	1.7E
	0400	0736	2.1E		0224	0542	2.3E		1812	2100	1.8F
<b>5</b> M	1136	1418	1.4F	<b>17</b> Sa	0948	1236	2.0F	<b>29</b> Th	0006	0306	1.9E
	1812	2018	0.8E		1624	1842	1.1E		0642	0930	1.8F
	2248	0212	1.6F		2142	0018	1.5F		1242	1524	1.6E
<b>6</b> Tu	0454	0830	2.2E	<b>18</b> Su	0312	0642	2.2E	<b>20</b> Tu	1836	2142	1.8F
	1242	1524	1.5F		1054	1348	1.8F		0030	0342	2.0E
	1918	2124	0.8E		1736	1948	0.9E		0724	1012	1.8F
<b>7</b> W	2236	0306	1.6F	<b>19</b> M	2236	0112	1.4F	<b>21</b> W	1324	1606	1.4E
	0554	0930	2.2E		0412	0742	2.1E		1906	2218	1.8F
	1342	1630	1.6F		1200	1518	1.7F		Time meridian 75° W. 0000 is midnight. 1200 is noon.		
2024	2230	0.9E	1848	2100	0.8E						
0106	0406	1.6F	2336	0206	1.3F						
<b>8</b> Th	0654	1024	2.3E	<b>20</b> Tu	0512	0842	2.1E	<b>22</b> Th	0842	1130	1.9E
	1442	1730	1.8F		1300	1636	1.8F		1530	1848	1.9F
	2118	2330	1.0E		1942	2206	0.9E		2154	0036	1.3E
<b>9</b> F	0218	0506	1.8F	<b>21</b> W	0042	0306	1.2F	<b>23</b> F	0554	0842	1.4F
	0754	1124	2.4E		0612	0948	2.0E		1212	1506	1.9E
	1536	1818	2.0F		1354	1730	1.9F		1912	2230	1.8F
<b>10</b> Sa	2200	0018	1.2E	<b>22</b> Th	2036	2306	1.0E	<b>24</b> Sa	0106	0636	1.6F
	0312	0600	2.0F		0148	0412	1.2F		0948	1254	1.9E
	0900	1218	2.5E		0712	1042	1.9E		1642	1930	1.8F
<b>11</b> Su	1624	1906	2.1F	<b>23</b> F	2118	2354	1.2E	<b>25</b> M	0106	0636	1.6F
	2236	0106	1.5E		0242	0506	1.3F		0948	1254	1.9E
	0406	0654	2.2F		0812	1130	1.9E		1642	1930	1.8F
<b>12</b> M	1000	1312	2.6E	<b>24</b> Sa	2154	0036	1.3E	<b>26</b> W	0106	0636	1.6F
	1712	1954	2.1F		0330	0554	1.4F		0948	1254	1.9E
	2312	0154	1.7E		0900	1212	1.9E		1642	1930	1.8F
<b>13</b> Tu	0454	0748	2.4F	<b>25</b> M	1606	1912	1.8F	<b>27</b> Tu	0106	0636	1.6F
	1100	1406	2.5E		2230	0106	1.5E		0948	1254	1.9E
	1754	2036	2.1F		0412	0636	1.6F		1642	1930	1.8F
<b>14</b> W	2348	0236	1.9E	<b>26</b> W	0948	1254	1.9E	<b>28</b> Th	0106	0636	1.6F
	0548	0842	2.5F		1642	1930	1.8F		0948	1254	1.9E
	1200	1454	2.3E		2254	0106	1.5E		1642	1930	1.8F
<b>15</b> Th	1842	2118	2.0F	<b>27</b> Tu	0412	0742	2.1E	<b>29</b> Th	0106	0636	1.6F
	0548	0842	2.5F		0948	1254	1.9E		0948	1254	1.9E
	1200	1454	2.3E		1642	1930	1.8F		1642	1930	1.8F



# REEDY POINT, DELAWARE

**MARCH 2024**

**STATION ID 8551910**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b> F	0213	5.1	155	<b>13</b> W	0155	6.0	183	<b>25</b> M O	0002	5.3	162
	0911	0.3	9		0851	-0.5	-15		0634	0.1	3
	1443	4.6	140		1424	5.6	171		1218	5.2	158
	2105	0.2	6		2105	-0.3	-9		1854	0.2	6
<b>2</b> Sa	0253	5.1	155	<b>14</b> Th	0245	6.0	183	<b>26</b> Tu	0036	5.4	165
	1003	0.4	12		0944	-0.3	-9		0714	0.1	3
	1532	4.4	134		1516	5.3	162		1253	5.1	155
	2151	0.3	9		2152	0.0	0		1926	0.3	9
<b>3</b> Su ☉	0344	5.1	155	<b>15</b> F	0336	5.8	177	<b>27</b> W	0106	5.4	165
	1105	0.5	15		1039	0.0	0		0753	0.2	6
	1632	4.3	131		1612	5.0	152		1326	5.0	152
	2251	0.4	12		2243	0.2	6		1955	0.4	12
<b>4</b> M	0446	5.1	155	<b>16</b> Sa	0431	5.6	171	<b>28</b> Th	0134	5.5	168
	1212	0.6	18		1137	0.3	9		0831	0.3	9
	1741	4.3	131		1710	4.7	143		1359	4.9	149
					2337	0.4	12		2023	0.4	12
<b>5</b> Tu	0001	0.4	12	<b>17</b> Su ☉	0531	5.4	165	<b>29</b> F	0202	5.5	168
	0557	5.1	155		1236	0.4	12		0910	0.4	12
	1318	0.5	15		Su 1812	4.6	140		1435	4.8	146
	1849	4.4	134		☉				2053	0.5	15
<b>6</b> W	0113	0.3	9	<b>18</b> M	0035	0.6	18	<b>30</b> Sa	0236	5.6	171
	0709	5.3	162		0634	5.2	158		0954	0.5	15
	1420	0.3	9		1335	0.5	15		1516	4.7	143
	1952	4.6	140		1915	4.6	140		2132	0.6	18
<b>7</b> Th	0220	0.1	3	<b>19</b> Tu	0135	0.6	18	<b>31</b> Su	0319	5.6	171
	0813	5.5	168		0738	5.1	155		1045	0.7	21
	1518	0.1	3		1432	0.5	15		1606	4.6	140
	2048	5.0	152		2014	4.7	143		2223	0.6	18
<b>8</b> F	0323	-0.2	-6	<b>20</b> W	0233	0.6	18	Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.			
	0911	5.8	177		0838	5.2	158				
	1611	-0.2	-6		1526	0.4	12				
	2141	5.3	162		2109	4.8	146				
<b>9</b> Sa	0420	-0.5	-15	<b>21</b> Th	0328	0.4	12				
	1005	5.9	180		0931	5.3	162				
	1701	-0.4	-12		1615	0.2	6				
	2231	5.6	171		2159	5.0	152				
<b>10</b> Su ●	0615	-0.6	-18	<b>22</b> F	0420	0.3	9				
	1155	6.0	183		1019	5.3	162				
	1848	-0.5	-15		1700	0.2	6				
					2244	5.2	158				
<b>11</b> M	0019	5.8	177	<b>23</b> Sa	0508	0.2	6	<b>EASTERN STANDARD TIME/ DAYLIGHT SAVING TIME</b>			
	0708	-0.7	-21		1101	5.4	165				
	1245	6.0	183		1741	0.1	3				
	1934	-0.5	-15		2325	5.3	162				
<b>12</b> Tu	0107	6.0	183	<b>24</b> Su	0552	0.1	3	Times ARE adjusted for DST starting March 10.			
	0759	-0.7	-21		1141	5.3	162				
	1334	5.8	177		Su 1819	0.1	3				
	2019	-0.4	-12								

# CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)

**MARCH 2024**

**cb1301**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0106	0424	2.1E	<b>13</b>	0036	0348	2.4E	<b>25</b>	0200	0800	1.8E
F	0812	1100	1.7F		0724	1024	2.6F		0524	0800	1.8F
	1418	1654	1.2E	W	1354	1630	1.7E	M	1124	1406	1.6E
	1942	2306	1.8F		1948	2224	1.8F	O	1736	2018	1.7F
									2330		
<b>2</b>	0142	0512	2.1E	<b>14</b>	0118	0430	2.5E	<b>26</b>	0230	0842	1.9E
Sa	0906	1154	1.6F		0824	1118	2.4F		0606	0842	1.9F
	1524	1748	1.0E	Th	1500	1724	1.4E	Tu	1212	1448	1.5E
	2030	2354	1.7F		2036	2312	1.7F		1806	2048	1.7F
									2354		
<b>3</b>	0224	0600	2.2E	<b>15</b>	0200	0518	2.4E	<b>27</b>	0300	0924	2.1E
Su	1000	1248	1.5F		0924	1218	2.1F		0642	0924	1.9F
	1636	1854	0.9E	F	1606	1824	1.1E	W	1254	1524	1.4E
	2124				2124				1830	2130	1.7F
●				<b>16</b>	0000	0612	1.6F				
<b>4</b>		0042	1.6F		0248	0612	2.3E	<b>28</b>	0018	0336	2.2E
M	0318	0700	2.2E	Sa	1030	1318	1.9F		0724	1006	1.9F
	1106	1348	1.5F		1712	1924	0.9E	Th	1336	1606	1.3E
	1748	1954	0.8E		2218				1900	2206	1.7F
	2230			<b>17</b>	0000	0448	1.4F				
<b>5</b>		0142	1.6F		0336	0712	2.2E	<b>29</b>	0048	0412	2.3E
Tu	0418	0754	2.2E	Su	1130	1430	1.8F		0806	1054	1.8F
	1206	1454	1.6F	●	1818	2036	0.9E	F	1424	1648	1.1E
	1848	2100	0.9E		2318				1936	2248	1.7F
	2342			<b>18</b>	0148	0812	1.3F				
<b>6</b>		0242	1.6F		0436	0812	2.0E	<b>30</b>	0124	0454	2.3E
W	0524	0900	2.2E	M	1230	1554	1.7F		0848	1142	1.7F
	1306	1600	1.7F		1918	2136	0.9E	Sa	1518	1736	1.0E
	1942	2200	1.1E	<b>19</b>	0024	0242	1.2F		2018	2336	1.7F
<b>7</b>	0048	0342	1.7F		0548	0918	1.9E	<b>31</b>	0206	0542	2.3E
Th	0636	1000	2.3E	Tu	1324	1700	1.7F		0942	1236	1.7F
	1406	1654	1.8F		2006	2242	1.1E	Su	1618	1836	0.9E
	2030	2254	1.3E	<b>20</b>	0130	0348	1.2F		2112		
<b>8</b>	0154	0448	1.9F		0654	1018	1.7E				
F	0748	1100	2.3E	W	1418	1754	1.8F				
	1506	1748	1.9F		2054	2330	1.2E				
	2112	2342	1.5E	<b>21</b>	0230	0448	1.2F				
<b>9</b>	0254	0542	2.2F		0800	1112	1.7E				
Sa	0854	1200	2.4E	Th	1506	1830	1.7F				
	1554	1830	2.0F		2130						
	2148			<b>22</b>	0018	0548	1.4E				
<b>10</b>		0030	1.8E		0318	0548	1.4F				
Su	0448	0742	2.4F	F	0900	1200	1.6E				
	1054	1354	2.3E		1554	1854	1.7F				
	1742	2018	2.0F	<b>23</b>	0054	0636	1.6E				
●	2324				0406	0954	1.5F				
<b>11</b>		0218	2.1E	Sa	0954	1248	1.6E				
M	0536	0836	2.6F		1630	1918	1.7F				
	1154	1448	2.2E		2236						
	1824	2100	1.9F	<b>24</b>	0130	0718	1.7E				
<b>12</b>	0000	0300	2.3E		0448	0718	1.7F				
Tu	0630	0930	2.6F	Su	1042	1330	1.6E				
	1254	1542	2.0E		1706	1948	1.7F				
	1906	2142	1.9F		2306						

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME/  
DAYLIGHT  
SAVING TIME**

Times ARE adjusted  
for DST starting  
March 10.

# REEDY POINT, DELAWARE

**APRIL 2024**

**STATION ID 8551910**

## Times and Heights of High and Low Waters

Time			Height			Time			Height		
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b> M	0412	5.5	168	<b>13</b> Sa	0308	6.0	183	<b>25</b> Th	0034	5.8	177
	1145	0.7	21		1018	0.3	9		0735	0.4	12
	1707	4.6	140		1549	5.0	152		1301	5.0	152
	2328	0.7	21		2213	0.7	21		1924	0.6	18
<b>2</b> Tu ☉	0517	5.5	168	<b>14</b> Su	0402	5.8	177	<b>26</b> F	0103	5.9	180
	1249	0.7	21		1112	0.5	15		0816	0.5	15
	1816	4.6	140		1646	4.9	149		1337	4.9	149
					2307	0.9	27		1957	0.7	21
<b>3</b> W	0043	0.7	21	<b>15</b> M ☉	0500	5.5	168	<b>27</b> Sa	0135	5.9	180
	0631	5.4	165		1207	0.7	21		0858	0.6	18
	1352	0.6	18		1746	4.8	146		1415	4.8	146
	1924	4.8	146						2034	0.7	21
<b>4</b> Th	0155	0.5	15	<b>16</b> Tu	0004	1.0	30	<b>28</b> Su	0213	5.9	180
	0745	5.5	168		0602	5.3	162		0943	0.7	21
	1452	0.5	15		1302	0.7	21		1500	4.8	146
	2028	5.2	158		1846	4.8	146		2119	0.8	24
<b>5</b> F	0302	0.3	9	<b>17</b> W	0103	1.0	30	<b>29</b> M	0300	5.9	180
	0851	5.7	174		0704	5.2	158		1034	0.7	21
	1548	0.2	6		1356	0.7	21		1552	4.8	146
	2125	5.5	168		1945	5.0	152		2215	0.8	24
<b>6</b> Sa	0404	0.0	0	<b>18</b> Th	0201	0.9	27	<b>30</b> Tu	0356	5.8	177
	0949	5.9	180		0803	5.3	162		1129	0.8	24
	1641	0.0	0		1447	0.6	18		1652	4.9	149
	2218	5.9	180		2038	5.2	158		2321	0.9	27
<b>7</b> Su	0503	-0.2	-6	<b>19</b> F	0257	0.8	24				
	1043	6.0	183		0857	5.3	162				
	1731	-0.1	-3		1535	0.5	15				
	2307	6.2	189		2128	5.4	165				
<b>8</b> M ●	0558	-0.4	-12	<b>20</b> Sa	0349	0.6	18				
	1133	6.0	183		0945	5.4	165				
	1819	-0.2	-6		1620	0.4	12				
	2355	6.4	195		2212	5.5	168				
<b>9</b> Tu	0651	-0.4	-12	<b>21</b> Su	0439	0.5	15				
	1223	5.9	180		1030	5.4	165				
	1905	-0.2	-6		1701	0.4	12				
					2253	5.7	174				
<b>10</b> W	0042	6.5	198	<b>22</b> M	0526	0.4	12				
	0742	-0.3	-9		1111	5.3	162				
	1312	5.7	174		1740	0.4	12				
	1950	0.0	0		2330	5.7	174				
<b>11</b> Th	0130	6.4	195	<b>23</b> Tu ○	0610	0.3	9				
	0833	-0.2	-6		1150	5.2	158				
	1402	5.5	168		1817	0.5	15				
	2036	0.2	6								
<b>12</b> F	0218	6.3	192	<b>24</b> W	0003	5.8	177				
	0925	0.1	3		0653	0.3	9				
	1454	5.3	162		1226	5.1	155				
	2123	0.4	12		1851	0.5	15				

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean lower low water which is the chart datum of soundings.

### DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)

**APRIL 2024**

**cb1301**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b> M	0254	0030	1.6F	<b>13</b> Sa	0124	0454	2.5E	<b>25</b> Th	0624	0230	2.3E
	1036	0630	2.2E		0906	1200	2.1F		1254	0912	1.9F
	1724	1330	1.7F		1554	1800	1.0E		1754	1506	1.1E
	2212	1936	0.9E		2100	2330	1.5F		2336	2054	1.7F
<b>2</b> Tu	0348	0124	1.6F	<b>14</b> Su	0212	0542	2.3E	<b>26</b> F	0706	0306	2.4E
	1136	0730	2.2E		1000	1300	1.9F		1342	0954	1.9F
	1818	1424	1.7F		1654	1906	0.9E		1830	1548	1.0E
	2324	2036	1.0E		2200				2142	2142	1.6F
<b>3</b> W	0500	0218	1.6F	<b>15</b> M	0306	0636	2.0E	<b>27</b> Sa	0012	0348	2.4E
	1236	0830	2.1E		1054	1400	1.8F		0748	1042	1.9F
	1912	1524	1.7F		1748	2012	1.0E		1430	1636	0.9E
		2136	1.1E		2306				1912	2224	1.6F
<b>4</b> Th	0030	0324	1.7F	<b>16</b> Tu	0406	0118	1.2F	<b>28</b> Su	0048	0424	2.4E
	0612	0936	2.1E		1148	0736	1.8E		0830	1130	1.8F
	1336	1618	1.7F		1836	1500	1.7F		1518	1724	0.9E
	2000	2230	1.4E			2112	1.1E		2006	2312	1.6F
<b>5</b> F	0136	0424	1.8F	<b>17</b> W	0006	0218	1.1F	<b>29</b> M	0136	0512	2.3E
	0730	1036	2.1E		0518	0836	1.7E		0918	1218	1.8F
	1436	1718	1.8F		1242	1554	1.7F		1612	1824	0.9E
	2042	2324	1.6E		1918	2200	1.3E		2106		
<b>6</b> Sa	0236	0530	2.1F	<b>18</b> Th	0106	0318	1.2F	<b>30</b> Tu	0230	0006	1.5F
	0842	1142	2.1E		0630	0936	1.5E		1012	0606	2.2E
	1530	1806	1.8F		1330	1642	1.6F		1700	1306	1.8F
	2118				2000	2248	1.5E		2212	1918	1.0E
<b>7</b> Su	0330	0012	1.9E	<b>19</b> F	0200	0424	1.3F	Time meridian 75° W. 0000 is midnight. 1200 is noon.  <b>DAYLIGHT SAVING TIME</b>  Times ARE adjusted for DST.			
	0948	0624	2.4F		0736	1036	1.5E				
	1624	1236	2.0E		1418	1718	1.6F				
	2200	1854	1.8F		2036	2330	1.6E				
<b>8</b> M	0430	0100	2.2E	<b>20</b> Sa	0248	0518	1.4F				
	1054	0724	2.5F		0842	1130	1.4E				
	1706	1336	1.9E		1506	1748	1.6F				
	2236	1942	1.8F		2112						
<b>9</b> Tu	0524	0142	2.4E	<b>21</b> Su	0336	0006	1.8E				
	1154	0818	2.6F		0936	0612	1.6F				
	1748	1430	1.8E		1548	1218	1.4E				
	2312	2024	1.8F		2142	1824	1.6F				
<b>10</b> W	0618	0230	2.6E	<b>22</b> M	0418	0042	1.9E				
	1254	0912	2.6F		1030	0700	1.7F				
	1830	1524	1.6E		1624	1300	1.3E				
	2354	2106	1.8F		2212	1900	1.6F				
<b>11</b> Th	0712	0318	2.7E	<b>23</b> Tu	0500	0118	2.1E				
	1354	1006	2.5F		1118	0742	1.8F				
	1918	1612	1.3E		1654	1348	1.3E				
		2154	1.7F		2236	1936	1.6F				
<b>12</b> F	0036	0406	2.6E	<b>24</b> W	0542	0154	2.2E				
	0806	1106	2.3F		1206	0824	1.9F				
	1454	1706	1.1E		1724	1424	1.2E				
	2000	2242	1.6F		2306	2018	1.6F				

# REEDY POINT, DELAWARE

**MAY 2024**

**STATION ID 8551910**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height		
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	
<b>1</b> W ●	0502	5.7	174	<b>13</b> M	0333	5.8	177	<b>25</b> Sa	0040	6.1	186	
	1228	0.7	21		1044	0.6	18		0800	0.5	15	
	1758	5.0	152		1620	5.0	152		1319	4.9	149	
					2236	1.1	34		1941	0.8	24	
<b>2</b> Th	0031	0.8	24	<b>14</b> Tu	0427	5.6	171	<b>26</b> Su	0118	6.1	186	
	0613	5.7	174		1134	0.7	21		0845	0.5	15	
	1326	0.6	18		1716	4.9	149		1401	4.9	149	
	1903	5.3	162		2331	1.1	34		2026	0.8	24	
<b>3</b> F	0140	0.7	21	<b>15</b> W ●	0525	5.4	165	<b>27</b> M	0202	6.1	186	
	0723	5.7	174		1224	0.8	24		0931	0.6	18	
	1423	0.5	15		1812	5.0	152		1449	5.0	152	
	2005	5.6	171						2116	0.8	24	
<b>4</b> Sa	0245	0.5	15	<b>16</b> Th	0027	1.1	34	<b>28</b> Tu	0252	6.1	186	
	0827	5.8	177		0624	5.3	162		1020	0.6	18	
	1518	0.3	9		1313	0.7	21		1541	5.1	155	
	2102	6.0	183		1908	5.1	155		2213	0.8	24	
<b>5</b> Su	0347	0.3	9	<b>17</b> F	0124	1.1	34	<b>29</b> W	0349	6.0	183	
	0926	5.9	180		0721	5.3	162		1112	0.6	18	
	1610	0.1	3		1402	0.7	21		1639	5.2	158	
	2155	6.3	192		2001	5.3	162		2315	0.8	24	
<b>6</b> M	0445	0.1	3	<b>18</b> Sa	0220	1.0	30	<b>30</b> Th ●	0452	5.9	180	
	1020	5.9	180		0816	5.3	162		1205	0.5	15	
	1701	0.1	3		1448	0.6	18		1740	5.4	165	
	2244	6.6	201		2050	5.5	168					
<b>7</b> Tu	0541	0.0	0	<b>19</b> Su	0315	0.8	24	<b>31</b> F	0020	0.8	24	
	1111	5.8	177		0906	5.2	158		0557	5.8	177	
	1749	0.1	3		1534	0.6	18		1259	0.5	15	
	2332	6.7	204		2135	5.7	174		1842	5.7	174	
<b>8</b> W ●	0634	-0.1	-3	<b>20</b> M	0407	0.7	21	Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.  <b>DAYLIGHT                      SAVING TIME</b>  Times ARE adjusted for DST.				
	1201	5.7	174		0954	5.2	158					
	1837	0.2	6		1617	0.6	18					
			2217	5.9	180							
<b>9</b> Th	0019	6.7	204	<b>21</b> Tu	0457	0.5	15					
	0726	0.0	0		1038	5.1	155					
	1251	5.5	168		1659	0.6	18					
	1923	0.3	9		2255	6.0	183					
<b>10</b> F	0106	6.5	198	<b>22</b> W	0545	0.5	15					
	0816	0.1	3		1120	5.0	152					
	1341	5.3	162		1740	0.6	18					
	2009	0.5	15		2331	6.0	183					
<b>11</b> Sa	0153	6.3	192	<b>23</b> Th ○	0631	0.4	12					
	0905	0.3	9		1200	4.9	149					
	1432	5.2	158		1820	0.7	21					
	2056	0.7	21									
<b>12</b> Su	0241	6.1	186	<b>24</b> F	0005	6.1	186					
	0954	0.5	15		0716	0.4	12					
	1525	5.0	152		1239	4.9	149					
	2145	0.9	27		1900	0.7	21					

# CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)

**MAY 2024**

**cb1301**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0336	0106	1.6F	<b>13</b>	0142	0512	2.2E	<b>25</b>		0242	2.5E
W	1106	0706	2.1E		0924	1230	2.0F	Sa	0648	0942	1.9F
●	1748	1400	1.8F	M	1618	1842	1.1E		1336	1536	0.8E
	2318	2018	1.2E		2142				1812	2118	1.6F
									2342		
<b>2</b>		0206	1.6F	<b>14</b>		0000	1.2F	<b>26</b>		0324	2.5E
Th	0448	0812	2.0E	Tu	0236	0600	1.9E		0730	1024	2.0F
	1206	1454	1.8F		1012	1312	1.8F	Su	1424	1624	0.9E
	1830	2112	1.4E		1706	1936	1.2E		1906	2206	1.6F
					2242						
						0054	1.1F	<b>27</b>	0030	0406	2.5E
<b>3</b>	0018	0306	1.8F	<b>15</b>	0336	0700	1.7E		0818	1112	2.0F
	0612	0912	1.9E	W	1100	1400	1.8F	M	1506	1712	0.9E
F	1306	1548	1.7F	●	1748	2030	1.3E		2000	2254	1.6F
	1912	2200	1.7E		2342						
<b>4</b>	0118	0412	2.0F	<b>16</b>		0148	1.2F	<b>28</b>	0124	0454	2.3E
Sa	0730	1018	1.9E	Th	0448	0800	1.5E		0900	1200	1.9F
	1400	1642	1.7F		1148	1442	1.7F	Tu	1548	1806	1.1E
	1954	2248	2.0E		1824	2112	1.5E		2100	2354	1.6F
<b>5</b>	0218	0512	2.2F	<b>17</b>	0036	0248	1.2F	<b>29</b>	0224	0554	2.2E
	0836	1118	1.8E		0606	0854	1.4E	W	0954	1248	1.9F
Su	1454	1730	1.7F	F	1236	1524	1.6F		1630	1900	1.2E
	2030	2342	2.3E		1906	2154	1.7E		2206		
<b>6</b>	0318	0612	2.4F	<b>18</b>	0124	0348	1.3F	<b>30</b>		0048	1.7F
	0948	1218	1.6E	Sa	0712	0954	1.3E	Th	0336	0654	2.0E
M	1542	1818	1.8F		1324	1612	1.6F		1048	1336	1.8F
	2112				1942	2242	1.8E	●	1706	1954	1.5E
									2306		
<b>7</b>		0030	2.5E	<b>19</b>	0218	0448	1.5F	<b>31</b>		0148	1.8F
	0418	0712	2.5F		0818	1048	1.2E	F	0454	0800	1.9E
Tu	1048	1318	1.5E	Su	1406	1654	1.6F		1136	1424	1.8F
	1630	1906	1.8F		2012	2318	2.0E		1748	2042	1.8E
	2154										
				<b>20</b>	0306	0542	1.6F				
<b>8</b>		0118	2.7E		0918	1142	1.1E				
W	0512	0812	2.5F	M	1448	1736	1.6F				
●	1148	1412	1.3E		2048						
	1712	1948	1.8F								
	2236			<b>21</b>		0000	2.1E				
				Tu	0354	0636	1.7F				
<b>9</b>		0206	2.8E		1012	1230	1.1E				
Th	0606	0906	2.5F		1530	1818	1.6F				
	1248	1506	1.2E		2118						
	1800	2036	1.7F	<b>22</b>		0042	2.3E				
	2318			W	0442	0724	1.8F				
					1112	1318	1.0E				
<b>10</b>		0254	2.8E		1612	1900	1.6F				
F	0700	1000	2.4F		2148						
	1348	1554	1.1E	<b>23</b>		0118	2.4E				
	1848	2124	1.6F	Th	0524	0806	1.9F				
					1200	1406	0.9E				
<b>11</b>	0006	0336	2.6E	○	1648	1942	1.6F				
Sa	0748	1048	2.2F		2224						
	1436	1648	1.0E	<b>24</b>		0200	2.5E				
	1936	2212	1.5F	F	0606	0854	1.9F				
					1248	1454	0.8E				
<b>12</b>	0048	0424	2.4E		1730	2030	1.6F				
Su	0836	1142	2.1F		2300						
	1530	1742	1.0E								
	2036	2306	1.3F								

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**DAYLIGHT SAVING TIME**  
Times ARE adjusted for DST.

# REEDY POINT, DELAWARE

**JUNE 2024**

**STATION ID 8551910**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0125	0.7	21	<b>13</b>	0445	5.5	168	<b>25</b>	0154	6.3	192
	0702	5.7	174		1140	0.7	21		0914	0.4	12
	Sa 1354	0.4	12		Th 1732	5.1	155		Tu 1435	5.2	158
	1942	6.0	183		2348	1.2	37		2110	0.6	18
<b>2</b>	0228	0.6	18	<b>14</b>	0539	5.3	162	<b>26</b>	0246	6.2	189
	0805	5.7	174		F 1225	0.7	21		1001	0.3	9
	Su 1448	0.3	9		● 1824	5.2	158		W 1527	5.4	165
	2039	6.2	189						2205	0.6	18
<b>3</b>	0330	0.4	12	<b>15</b>	0044	1.1	34	<b>27</b>	0340	6.1	186
	0903	5.6	171		0634	5.2	158		1049	0.3	9
	M 1541	0.3	9		Sa 1310	0.7	21		Th 1623	5.6	171
	2133	6.5	198		1915	5.4	165		2304	0.7	21
<b>4</b>	0429	0.3	9	<b>16</b>	0141	1.1	34	<b>28</b>	0439	5.9	180
	0959	5.6	171		0730	5.1	155		1140	0.3	9
	Tu 1633	0.3	9		Su 1357	0.7	21		F 1720	5.8	177
	2223	6.6	201		2005	5.5	168		●		
<b>5</b>	0525	0.2	6	<b>17</b>	0238	1.0	30	<b>29</b>	0006	0.7	21
	1051	5.5	168		0824	5.0	152		0540	5.7	174
	W 1723	0.3	9		M 1444	0.7	21		Sa 1232	0.3	9
	2312	6.6	201		2053	5.7	174		1820	5.9	180
<b>6</b>	0618	0.2	6	<b>18</b>	0333	0.8	24	<b>30</b>	0109	0.7	21
	1142	5.4	165		0915	4.9	149		0642	5.6	171
	Th 1812	0.4	12		Tu 1531	0.7	21		Su 1326	0.3	9
	● 2359	6.5	198		2137	5.9	180		1920	6.1	186
<b>7</b>	0709	0.2	6	<b>19</b>	0428	0.7	21				
	1232	5.3	162		1004	4.9	149				
	F 1900	0.6	18		W 1619	0.7	21				
					2220	6.0	183				
<b>8</b>	0045	6.4	195	<b>20</b>	0519	0.6	18				
	0756	0.3	9		1050	4.9	149				
	Sa 1321	5.2	158		Th 1706	0.7	21				
	1946	0.7	21		2300	6.1	186				
<b>9</b>	0131	6.2	189	<b>21</b>	0608	0.5	15				
	0842	0.4	12		1134	4.9	149				
	Su 1410	5.1	155		F 1754	0.7	21				
	2031	0.9	27		2341	6.2	189				
<b>10</b>	0217	6.0	183	<b>22</b>	0656	0.4	12				
	0927	0.5	15		1217	4.9	149				
	M 1500	5.0	152		Sa 1841	0.6	18				
	2117	1.0	30		○						
<b>11</b>	0304	5.8	177	<b>23</b>	0022	6.2	189				
	1011	0.6	18		0742	0.4	12				
	Tu 1550	5.0	152		Su 1301	5.0	152				
	2204	1.1	34		1928	0.6	18				
<b>12</b>	0354	5.6	171	<b>24</b>	0107	6.3	192				
	1055	0.7	21		0828	0.4	12				
	W 1640	5.0	152		M 1347	5.1	155				
	2255	1.1	34		2018	0.6	18				

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

**DAYLIGHT  
 SAVING TIME**  
 Times ARE adjusted  
 for DST.

# CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)

**JUNE 2024**

**cb1301**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b> Sa	0006	0248	1.9F	<b>13</b> Th	0306	0024	1.2F	<b>25</b> Tu	0024	0354	2.5E
	0612	0900	1.7E		0306	0624	1.6E		0800	1048	2.0F
	1230	1512	1.7F		1006	1306	1.8F		1436	1654	1.2E
	1830	2130	2.0E		1648	1936	1.5E		1948	2242	1.7F
					2300						
<b>2</b> Su	0112	0354	2.0F	<b>14</b> F	0418	0118	1.2F	<b>26</b> W	0118	0442	2.3E
	0730	1000	1.5E		1048	0718	1.4E		0842	1136	2.0F
	1324	1606	1.7F		1724	1348	1.7F		1512	1742	1.3E
	1912	2224	2.3E		2354	2024	1.6E		2048	2336	1.8F
				☉							
<b>3</b> M	0212	0500	2.1F	<b>15</b> Sa	0530	0212	1.3F	<b>27</b> Th	0224	0536	2.1E
	0836	1106	1.4E		0530	0818	1.3E		0930	1218	1.9F
	1412	1700	1.7F		1136	1430	1.7F		1548	1830	1.5E
	1954	2318	2.5E		1800	2106	1.8E		2148		
<b>4</b> Tu	0312	0606	2.2F	<b>16</b> Su	0048	0312	1.4F	<b>28</b> F	0036	0036	1.8F
	0948	1200	1.2E		0642	0912	1.2E		0336	0642	1.9E
	1500	1748	1.7F		1218	1518	1.6F		1024	1306	1.8F
	2036				1836	2148	2.0E		1624	1924	1.8E
							☉	2254			
<b>5</b> W	0412	0706	2.3F	<b>17</b> M	0142	0412	1.4F	<b>29</b> Sa	0454	0742	1.6E
	1048	1300	1.1E		0748	1006	1.0E		1112	1354	1.8F
	1554	1836	1.7F		1306	1606	1.6F		1706	2018	2.0E
	2124				1918	2236	2.2E				
<b>6</b> Th	0506	0054	2.8E	<b>18</b> Tu	0236	0512	1.5F	<b>30</b> Su	0000	0236	1.9F
	1148	0806	2.3F		0854	1106	0.9E		0612	0848	1.4E
	1642	1354	1.0E		1348	1654	1.6F		1200	1442	1.7F
	2206	1924	1.7F		1954	2318	2.3E		1748	2112	2.3E
<b>7</b> F	0554	0142	2.8E	<b>19</b> W	0330	0612	1.7F				
	1242	0900	2.3F		1000	1200	0.8E				
	1730	1448	1.0E		1436	1742	1.6F				
	2254	2012	1.6F		2030						
<b>8</b> Sa	0642	0224	2.7E	<b>20</b> Th	0418	0006	2.5E				
	1330	0948	2.2F		1054	0700	1.8F				
	1824	1536	1.0E		1524	1254	0.8E				
	2336	2100	1.5F		2112	1830	1.7F				
<b>9</b> Su	0724	0312	2.5E	<b>21</b> F	0506	0048	2.6E				
	1412	1024	2.2F		1148	0748	1.9F				
	1918	1630	1.1E		1618	1342	0.8E				
		2148	1.4F		2154	1918	1.7F				
<b>10</b> M	0024	0354	2.3E	<b>22</b> Sa	0548	0130	2.6E				
	0806	1106	2.1F		1236	0836	2.0F				
	1454	1712	1.1E		1706	1436	0.8E				
	2018	2236	1.3F		2242	2006	1.7F				
<b>11</b> Tu	0112	0436	2.1E	<b>23</b> Su	0630	0218	2.6E				
	0842	1148	2.0F		1318	0924	2.0F				
	1536	1800	1.2E		1800	1524	0.9E				
	2112	2330	1.2F		2330	2054	1.7F				
<b>12</b> W	0206	0530	1.8E	<b>24</b> M	0712	0306	2.6E				
	0924	1224	1.9F		1400	1006	2.1F				
	1612	1848	1.3E		1854	1606	1.0E				
	2212					2148	1.7F				

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

## DAYLIGHT SAVING TIME

**Times ARE adjusted for DST.**



# REEDY POINT, DELAWARE

**JULY 2024**

**STATION ID 8551910**

## Times and Heights of High and Low Waters

		Height				Height				Height	
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
Day h.m.	ft. cm	Day h.m.	ft. cm	Day h.m.	ft. cm	Day h.m.	ft. cm	Day h.m.	ft. cm	Day h.m.	ft. cm
<b>1</b>	0212	0.7	21	<b>13</b>	0452	5.3	162	<b>25</b>	0233	6.3	192
	0744	5.4	165		1132	0.7	21		0936	0.2	6
M	1420	0.4	12	Sa	1733	5.3	162	Th	1508	5.8	177
	2018	6.3	192	●					2152	0.5	15
<b>2</b>	0314	0.6	18	<b>14</b>	0002	1.2	37	<b>26</b>	0326	6.1	186
	0844	5.3	162		0545	5.1	155		1023	0.2	6
Tu	1515	0.4	12	Su	1215	0.7	21	F	1601	6.0	183
	2113	6.4	195		1822	5.4	165		2250	0.6	18
<b>3</b>	0413	0.5	15	<b>15</b>	0100	1.2	37	<b>27</b>	0422	5.9	180
	0941	5.3	162		0641	4.9	149		1112	0.3	9
W	1609	0.5	15	M	1302	0.8	24	Sa	1658	6.1	186
	2205	6.4	195		1914	5.5	168		2351	0.7	21
<b>4</b>	0509	0.4	12	<b>16</b>	0200	1.1	34	<b>28</b>	0521	5.6	171
	1034	5.2	158		0740	4.8	146		1205	0.4	12
Th	1702	0.5	15	Tu	1353	0.8	24	Su	1757	6.1	186
	2255	6.4	195		2006	5.7	174	●			
<b>5</b>	0601	0.4	12	<b>17</b>	0259	1.0	30	<b>29</b>	0053	0.8	24
	1125	5.2	158		0836	4.8	146		0623	5.4	165
F	1752	0.6	18	W	1447	0.8	24	M	1259	0.5	15
●	2342	6.3	192		2056	5.8	177		1857	6.2	189
<b>6</b>	0649	0.4	12	<b>18</b>	0357	0.9	27	<b>30</b>	0155	0.8	24
	1214	5.2	158		0930	4.8	146		0726	5.2	158
Sa	1840	0.7	21	Th	1542	0.8	24	Tu	1356	0.6	18
					2146	6.0	183		1958	6.2	189
<b>7</b>	0027	6.2	189	<b>19</b>	0452	0.7	21	<b>31</b>	0257	0.8	24
	0734	0.4	12		1020	4.9	149		0827	5.2	158
Su	1301	5.2	158	F	1637	0.7	21	W	1453	0.6	18
	1925	0.8	24		2233	6.2	189		2056	6.2	189
<b>8</b>	0110	6.1	186	<b>20</b>	0543	0.5	15				
	0817	0.5	15		1108	5.0	152				
M	1346	5.1	155	Sa	1731	0.6	18				
	2008	0.9	27		2320	6.3	192				
<b>9</b>	0153	5.9	180	<b>21</b>	0632	0.4	12				
	0857	0.5	15		1154	5.1	155				
Tu	1431	5.1	155	Su	1823	0.5	15				
	2050	0.9	27	○							
<b>10</b>	0235	5.8	177	<b>22</b>	0007	6.4	195				
	0935	0.6	18		0719	0.3	9				
W	1515	5.1	155	M	1240	5.3	162				
	2133	1.0	30		1914	0.4	12				
<b>11</b>	0318	5.7	174	<b>23</b>	0054	6.5	198				
	1013	0.6	18		0805	0.2	6				
Th	1600	5.2	158	Tu	1327	5.5	168				
	2218	1.1	34		2005	0.3	9				
<b>12</b>	0404	5.5	168	<b>24</b>	0143	6.4	195				
	1052	0.7	21		0850	0.2	6				
F	1645	5.2	158	W	1416	5.7	174				
	2308	1.1	34		2058	0.4	12				

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

**DAYLIGHT  
 SAVING TIME**  
 Times ARE adjusted  
 for DST.

# CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)

**JULY 2024**

**cb1301**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b> M	0100	0348	1.9F	<b>13</b> Sa ●	0342	0042	1.3F	<b>25</b> Th	0124	0430	2.2E
	0730	0948	1.2E		0954	0642	1.4E		0824	1106	2.0F
	1248	1536	1.7F		1624	1300	1.8F		1424	1706	1.7E
	1836	2206	2.5E		2312	1930	1.8E		2030	2318	2.0F
<b>2</b> Tu	0206	0500	2.0F	<b>14</b> Su	0454	0136	1.3F	<b>26</b> F	0230	0524	2.0E
	0842	1048	1.0E		1036	0736	1.2E		0906	1148	1.9F
	1336	1624	1.7F		1700	1348	1.7F		1500	1800	1.9E
	1924	2254	2.6E		2018	2018	1.9E		2136		
<b>3</b> W	0306	0612	2.1F	<b>15</b> M	0012	0236	1.4F	<b>27</b> Sa		0018	2.0F
	0948	1148	0.9E		0612	0836	1.0E		0342	0624	1.6E
	1430	1718	1.7F		1118	1436	1.7F		0954	1236	1.8F
	2012	2348	2.7E		1736	2106	2.1E		1542	1854	2.0E
<b>4</b> Th	0400	0712	2.2F	<b>16</b> Tu	0112	0336	1.4F	<b>28</b> Su ●		0124	1.9F
	1042	1248	0.9E		0724	0930	0.9E		0454	0730	1.3E
	1530	1812	1.6F		1206	1524	1.7F		1042	1324	1.7F
	2100				1824	2154	2.3E		1624	1948	2.2E
<b>5</b> F ●		0036	2.7E	<b>17</b> W	0206	0442	1.5F	<b>29</b> M		0230	1.9F
	0454	0806	2.2F		0836	1030	0.8E		0612	0830	1.1E
	1136	1342	0.9E		1254	1612	1.7F		1130	1412	1.7F
	1624	1900	1.6F		1906	2242	2.4E		1718	2048	2.4E
<b>6</b> Sa		0124	2.6E	<b>18</b> Th	0300	0542	1.6F	<b>30</b> Tu	0054	0348	1.8F
	0536	0848	2.2F		0936	1130	0.7E		0730	0936	0.9E
	1218	1436	1.0E		1354	1706	1.7F		1218	1506	1.6F
	1718	1948	1.5F		1954	2330	2.5E		1812	2142	2.5E
<b>7</b> Su		0206	2.4E	<b>19</b> F	0354	0636	1.8F	<b>31</b> W	0154	0512	1.9F
	0618	0924	2.1F		1030	1230	0.7E		0836	1042	0.8E
	1300	1518	1.1E		1454	1800	1.7F		1318	1600	1.6F
	1812	2036	1.5F		2042				1906	2242	2.5E
<b>8</b> M		0248	2.3E	<b>20</b> Sa	0436	0018	2.6E	Time meridian 75° W. 0000 is midnight. 1200 is noon.			
	0654	0954	2.1F		0724	0724	1.9F				
	1336	1600	1.2E		1118	1318	0.8E				
	1900	2124	1.4F		1554	1854	1.8F				
<b>9</b> Tu		0248	2.3E	<b>21</b> Su ○	2136	0106	2.6E	<b>DAYLIGHT SAVING TIME</b>  Times ARE adjusted for DST.			
	0006	0330	2.1E		0524	0812	2.0F				
	0730	1030	2.0F		1200	1412	1.0E				
	1412	1636	1.3E		1654	1942	1.8F				
<b>10</b> W	1948	2212	1.4F	<b>22</b> M	2230	0200	2.6E				
	0054	0412	2.0E		0606	0854	2.1F				
	0806	1100	1.9F		1242	1454	1.1E				
	1442	1718	1.4E		1742	2036	1.9F				
<b>11</b> Th	2036	2300	1.4F	<b>23</b> Tu	2324	0248	2.6E				
	0148	0454	1.8E		0654	0942	2.1F				
	0836	1136	1.9F		1318	1542	1.3E				
	1518	1800	1.5E		1836	2130	2.0F				
<b>12</b> F	2130	2354	1.4F	<b>24</b> W		0024	2.4E				
	0242	0548	1.6E		0024	0336	2.4E				
	0918	1218	1.8F		0736	1018	2.0F				
	1548	1842	1.6E		1348	1624	1.5E				
	2218			1930	2224	2.0F					

# REEDY POINT, DELAWARE

**AUGUST 2024**

**STATION ID 8551910**

## Times and Heights of High and Low Waters

		Times and Heights of High and Low Waters					Times and Heights of High and Low Waters				
	Time	Height			Time	Height			Time	Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0355	0.7	21	<b>13</b>	0021	1.3	40	<b>25</b>	0403	5.8	177
	0925	5.2	158		0553	4.8	146		1044	0.4	12
	Th 1549	0.7	21		Tu 1208	0.9	27		Su 1632	6.3	192
	2150	6.3	192		1817	5.6	171		2333	0.8	24
<b>2</b>	0450	0.6	18	<b>14</b>	0124	1.3	40	<b>26</b>	0502	5.5	168
	1019	5.2	158		0656	4.7	143		1138	0.6	18
	F 1643	0.7	21		W 1307	0.9	27		M 1732	6.2	189
	2240	6.3	192		1917	5.7	174		●		
<b>3</b>	0540	0.5	15	<b>15</b>	0226	1.2	37	<b>27</b>	0035	0.9	27
	1108	5.3	162		0758	4.8	146		0605	5.3	162
	Sa 1733	0.7	21		Th 1410	0.9	27		Tu 1235	0.8	24
	2326	6.2	189		2018	5.9	180		1835	6.1	186
<b>4</b>	0626	0.5	15	<b>16</b>	0326	1.0	30	<b>28</b>	0137	0.9	27
	1155	5.3	162		0857	4.9	149		0709	5.1	155
	Su 1819	0.7	21		F 1513	0.8	24		W 1334	0.9	27
	●				2115	6.1	186		1938	6.1	186
<b>5</b>	0008	6.1	186	<b>17</b>	0422	0.8	24	<b>29</b>	0237	0.9	27
	0708	0.5	15		0951	5.1	155		0811	5.2	158
	M 1238	5.3	162		Sa 1613	0.7	21		Th 1433	0.9	27
	1903	0.8	24		2209	6.3	192		2038	6.1	186
<b>6</b>	0049	6.0	183	<b>18</b>	0515	0.6	18	<b>30</b>	0334	0.8	24
	0747	0.5	15		1041	5.3	162		0908	5.3	162
	Tu 1320	5.3	162		Su 1710	0.5	15		F 1529	0.8	24
	1944	0.8	24		2259	6.5	198		2133	6.1	186
<b>7</b>	0127	5.9	180	<b>19</b>	0604	0.4	12	<b>31</b>	0426	0.7	21
	0823	0.6	18		1130	5.6	171		1001	5.4	165
	W 1359	5.3	162		M 1805	0.3	9		Sa 1623	0.8	24
	2023	0.9	27		○ 2348	6.6	201		2222	6.2	189
<b>8</b>	0205	5.8	177	<b>20</b>	0651	0.2	6				
	0857	0.6	18		1217	5.8	177				
	Th 1438	5.4	165		Tu 1857	0.2	6				
	2103	1.0	30								
<b>9</b>	0243	5.6	171	<b>21</b>	0036	6.6	201				
	0929	0.7	21		0737	0.1	3				
	F 1516	5.4	165		W 1305	6.1	186				
	2144	1.1	34		1949	0.2	6				
<b>10</b>	0323	5.5	168	<b>22</b>	0125	6.5	198				
	1001	0.7	21		0822	0.1	3				
	Sa 1554	5.5	168		Th 1353	6.2	189				
	2230	1.2	37		2042	0.2	6				
<b>11</b>	0407	5.2	158	<b>23</b>	0215	6.4	195				
	1036	0.8	24		0907	0.1	3				
	Su 1636	5.5	168		F 1444	6.3	192				
	2323	1.2	37		2137	0.4	12				
<b>12</b>	0456	5.0	152	<b>24</b>	0307	6.1	186				
	1118	0.8	24		0955	0.3	9				
	M 1723	5.6	171		Sa 1536	6.3	192				
	●				2234	0.6	18				

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

**DAYLIGHT  
 SAVING TIME**  
 Times ARE adjusted  
 for DST.

# CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)

**AUGUST 2024**

**cb1301**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b> Th	0254	0618	2.0F	<b>13</b> Tu	0542	0206	1.4F	<b>25</b> Su	0342	0006	2.1F
	0936	1142	0.8E		1024	0800	0.9E		0924	0606	1.4E
	1418	1700	1.6F		1642	1354	1.8F		1500	1206	1.8F
	2000	2330	2.5E			2018	2.2E		2224	1824	2.3E
<b>2</b> F	0348	0706	2.1F	<b>14</b> W	0036	0306	1.4F	<b>26</b> M	0454	0112	1.9F
	1024	1242	0.9E		0700	0900	0.8E		1012	0712	1.1E
	1518	1754	1.5F		1118	1448	1.7F		1554	1254	1.7F
	2054				1736	2112	2.3E		2336	1924	2.3E
<b>3</b> Sa		0018	2.4E	<b>15</b> Th	0130	0406	1.4F	<b>27</b> Tu	0606	0218	1.8F
	0436	0754	2.1F		0806	1000	0.7E		1100	0818	0.9E
	1106	1330	1.1E		1218	1542	1.7F		1648	1348	1.6F
	1612	1848	1.5F		1830	2206	2.4E			2024	2.3E
<b>4</b> Su		0106	2.3E	<b>16</b> F	0224	0512	1.6F	<b>28</b> W	0036	0348	1.8F
	0518	0824	2.1F		0906	1100	0.8E		0718	0924	0.8E
	1148	1412	1.2E		1324	1642	1.7F		1200	1442	1.5F
	1706	1930	1.5F		1924	2300	2.5E		1748	2124	2.3E
<b>5</b> M		0148	2.2E	<b>17</b> Sa	0318	0606	1.8F	<b>29</b> Th	0136	0500	1.8F
	0554	0854	2.0F		0954	1200	0.9E		0818	1030	0.9E
	1224	1454	1.3E		1436	1736	1.8F		1306	1542	1.5F
	1754	2018	1.5F		2024	2354	2.5E		1848	2224	2.2E
<b>6</b> Tu		0224	2.1E	<b>18</b> Su	0412	0654	1.9F	<b>30</b> F	0236	0600	1.9F
	0624	0918	1.9F		1036	1248	1.1E		0906	1130	1.0E
	1254	1524	1.4E		1536	1830	1.9F		1412	1642	1.5F
	1836	2106	1.5F		2124				1948	2318	2.1E
<b>7</b> W	0000	0306	1.9E	<b>19</b> M	0454	0048	2.6E	<b>31</b> Sa	0324	0648	1.9F
	0654	0948	1.9F		1118	0742	2.0F		0954	1224	1.1E
	1324	1600	1.5F		1630	1336	1.3E		1512	1742	1.5F
	1918	2148	1.5F		2224	1924	2.1F		2048		
<b>8</b> Th	0042	0348	1.8E	<b>20</b> Tu		0142	2.6E	Time meridian 75° W. 0000 is midnight. 1200 is noon.  <b>DAYLIGHT SAVING TIME</b>  Times ARE adjusted for DST.			
	0724	1024	1.9F		0542	0824	2.0F				
	1348	1636	1.6E		1154	1424	1.5E				
	2000	2236	1.5F		1724	2018	2.2F				
<b>9</b> F	0130	0430	1.7E	<b>21</b> W		0236	2.5E				
	0754	1100	1.8F		0630	0906	2.0F				
	1418	1712	1.7E		1230	1506	1.7E				
	2048	2324	1.5F		1818	2112	2.3F				
<b>10</b> Sa	0224	0512	1.5E	<b>22</b> Th	0024	0324	2.3E				
	0830	1136	1.8F		0712	0948	2.0F				
	1448	1754	1.8E		1300	1554	1.9E				
	2142				1912	2206	2.3F				
<b>11</b> Su		0012	1.4F	<b>23</b> F	0124	0418	2.1E				
	0318	0606	1.3E		0754	1036	1.9F				
	0900	1218	1.8F		1336	1636	2.1E				
	1518	1842	1.9E		2012	2306	2.2F				
<b>12</b> M		0106	1.4F	<b>24</b> Sa	0230	0512	1.7E				
	0430	0700	1.0E		0836	1118	1.9F				
	0942	1306	1.8F		1418	1730	2.2E				
	1600	1930	2.1E		2118						

# REEDY POINT, DELAWARE

**SEPTEMBER 2024**

**STATION ID 8551910**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b> Su	0514	0.6	18	<b>13</b> F	0155	1.2	37	<b>25</b> W	0014	0.9	27
	1048	5.5	168		0725	4.9	149		0545	5.1	155
	1712	0.7	21		1342	1.0	30		1211	1.0	30
	2306	6.2	189		1944	5.9	180		1811	5.9	180
<b>2</b> M	0557	0.5	15	<b>14</b> Sa	0255	1.0	30	<b>26</b> Th	0114	1.0	30
	1132	5.6	171		0827	5.1	155		0649	5.1	155
	1757	0.7	21		1449	0.8	24		1311	1.0	30
	2346	6.1	186		2047	6.1	186		1916	5.9	180
<b>3</b> Tu ●	0636	0.5	15	<b>15</b> Su	0352	0.8	24	<b>27</b> F	0211	0.9	27
	1213	5.6	171		0923	5.4	165		0750	5.2	158
	1840	0.7	21		1552	0.6	18		1410	1.0	30
					2144	6.4	195		2016	5.9	180
<b>4</b> W	0024	6.0	183	<b>16</b> M	0444	0.5	15	<b>28</b> Sa	0305	0.8	24
	0713	0.5	15		1015	5.7	174		0847	5.3	162
	1251	5.6	171		1650	0.3	9		1506	0.9	27
	1920	0.8	24		2237	6.6	201		2109	5.9	180
<b>5</b> Th	0101	5.9	180	<b>17</b> Tu	0534	0.3	9	<b>29</b> Su	0355	0.6	18
	0746	0.6	18		1104	6.1	186		0938	5.5	168
	1326	5.6	171		1746	0.2	6		1558	0.8	24
	1959	0.9	27		2326	6.6	201		2157	6.0	183
<b>6</b> F	0136	5.7	174	<b>18</b> W ○	0621	0.1	3	<b>30</b> M	0441	0.5	15
	0817	0.7	21		1152	6.3	192		1024	5.7	174
	1359	5.6	171		1840	0.1	3		1647	0.7	21
	2037	1.0	30						2240	6.0	183
<b>7</b> Sa	0211	5.5	168	<b>19</b> Th	0015	6.6	201				
	0845	0.8	24		0707	0.1	3				
	1430	5.7	174		1240	6.5	198				
	2116	1.1	34		1932	0.1	3				
<b>8</b> Su	0246	5.3	162	<b>20</b> F	0104	6.4	195				
	0913	0.8	24		0752	0.1	3				
	1503	5.7	174		1328	6.6	201				
	2159	1.2	37		2025	0.2	6				
<b>9</b> M	0326	5.1	155	<b>21</b> Sa	0154	6.2	189				
	0947	0.9	27		0838	0.2	6				
	1541	5.7	174		1418	6.6	201				
	2250	1.3	40		2120	0.4	12				
<b>10</b> Tu	0414	5.0	152	<b>22</b> Su	0247	5.9	180				
	1030	1.0	30		0926	0.4	12				
	1628	5.7	174		1510	6.5	198				
	2349	1.3	40		2216	0.6	18				
<b>11</b> W ●	0511	4.8	146	<b>23</b> M	0343	5.6	171				
	1126	1.0	30		1017	0.6	18				
	1727	5.7	174		1607	6.3	192				
					2314	0.8	24				
<b>12</b> Th	0052	1.3	40	<b>24</b> Tu ●	0442	5.3	162				
	0617	4.8	146		1112	0.8	24				
	1232	1.1	34		1707	6.1	186				
	1835	5.8	177								

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean lower low water which is the chart datum of soundings.

### DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

**CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)**  
**SEPTEMBER 2024** cb1301

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>		0006	2.0E	<b>13</b>	0054	0330	1.5F	<b>25</b>		0206	1.8F
Su	0406	0724	1.9F	F	0730	0930	0.8E	W	0548	0806	0.9E
	1030	1306	1.3E		1200	1512	1.7F		1042	1324	1.5F
	1600	1830	1.5F		1800	2136	2.3E		1624	1954	2.2E
	2136										
<b>2</b>		0048	2.0E	<b>14</b>	0148	0430	1.6F	<b>26</b>	0012	0324	1.7F
M	0448	0754	1.9F	Sa	0818	1030	1.0E	Th	0648	0906	0.9E
	1106	1342	1.4E		1312	1618	1.8F		1148	1418	1.4F
	1648	1918	1.6F		1906	2236	2.4E		1730	2100	2.0E
	2224										
<b>3</b>		0130	1.9E	<b>15</b>	0242	0530	1.7F	<b>27</b>	0106	0436	1.7F
Tu	0524	0812	1.8F	Su	0906	1124	1.1E	F	0742	1006	1.1E
	1136	1418	1.5E		1412	1718	1.9F		1254	1524	1.4F
	1730	2000	1.6F		2012	2330	2.4E		1836	2200	1.9E
	2312										
<b>4</b>		0212	1.8E	<b>16</b>	0336	0618	1.8F	<b>28</b>	0200	0524	1.7F
W	0554	0842	1.8F	M	0948	1212	1.4E	Sa	0824	1100	1.2E
	1206	1448	1.6E		1518	1812	2.1F		1354	1624	1.4F
	1812	2042	1.7F		2118				1936	2254	1.8E
	2354										
<b>5</b>		0248	1.7E	<b>17</b>	0430	0030	2.4E	<b>29</b>	0248	0612	1.7F
Th	0624	0912	1.8F	Tu	0706	0706	1.9F	Su	0906	1148	1.4E
	1230	1524	1.7E		1024	1306	1.6E		1454	1724	1.4F
	1848	2130	1.7F		1612	1906	2.3F		2036	2342	1.7E
					2218						
<b>6</b>		0324	1.6E	<b>18</b>	0512	0124	2.4E	<b>30</b>	0336	0642	1.7F
F	0648	0942	1.8F	W	0748	0748	1.9F	M	0948	1230	1.5E
	1254	1554	1.9E	O	1106	1348	1.9E		1542	1812	1.5F
	1930	2212	1.6F		1706	2006	2.4F		2130		
					2324						
<b>7</b>		0406	1.5E	<b>19</b>	0600	0218	2.2E				
Sa	0718	1024	1.8F	Th	0836	0836	1.9F				
	1324	1630	2.0E		1136	1436	2.1E				
	2018	2254	1.6F		1800	2100	2.5F				
<b>8</b>		0448	1.3E	<b>20</b>	0024	0312	2.1E				
Su	0742	1100	1.8F	F	0642	0918	1.9F				
	1354	1712	2.1E		1218	1524	2.3E				
	2106	2348	1.5F		1900	2154	2.4F				
<b>9</b>		0536	1.1E	<b>21</b>	0124	0400	1.8E				
M	0818	1142	1.8F	Sa	0724	1000	1.9F				
	1430	1800	2.1E		1254	1612	2.4E				
	2200				2000	2254	2.3F				
<b>10</b>		0036	1.4F	<b>22</b>	0230	0454	1.5E				
Tu	0406	0630	0.9E	Su	0806	1048	1.8F				
	0900	1230	1.8F		1342	1700	2.5E				
	1512	1848	2.2E		2106	2354	2.1F				
	2300										
<b>11</b>		0136	1.4F	<b>23</b>	0336	0554	1.2E				
W	0518	0730	0.8E	M	0854	1136	1.8F				
	0954	1324	1.7F		1430	1754	2.4E				
	1600	1942	2.2E		2206						
	2354										
<b>12</b>		0230	1.4F	<b>24</b>	0442	0054	1.9F				
Th	0630	0830	0.8E	Tu	0942	0654	1.0E				
	1054	1418	1.7F		1524	1230	1.6F				
	1700	2036	2.3E	●	2312	1854	2.3E				

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**DAYLIGHT  
SAVING TIME**

**Times ARE adjusted  
for DST.**

# REEDY POINT, DELAWARE

**OCTOBER 2024**

**STATION ID 8551910**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0522	0.5	15	<b>13</b>	0225	0.8	24	<b>25</b>	0044	0.8	24
	1106	5.8	177		0759	5.2	158		0624	4.9	149
	Tu 1733	0.6	18		Su 1429	0.7	21		F 1243	0.9	27
	2320	5.9	180		2021	6.0	183		1845	5.6	171
<b>2</b>	0601	0.5	15	<b>14</b>	0320	0.5	15	<b>26</b>	0138	0.7	21
	1145	5.8	177		0856	5.6	171		0723	5.0	152
	W 1816	0.6	18		M 1532	0.4	12		Sa 1341	0.9	27
	● 2358	5.8	177		2119	6.2	189		1944	5.6	171
<b>3</b>	0636	0.5	15	<b>15</b>	0412	0.3	9	<b>27</b>	0229	0.6	18
	1220	5.8	177		0949	6.0	183		0818	5.2	158
	Th 1857	0.7	21		Tu 1631	0.2	6		Su 1436	0.8	24
					2213	6.3	192		2037	5.6	171
<b>4</b>	0034	5.6	171	<b>16</b>	0502	0.1	3	<b>28</b>	0317	0.5	15
	0709	0.6	18		1039	6.3	192		0908	5.4	165
	F 1253	5.8	177		W 1728	0.0	0		M 1529	0.6	18
	1937	0.8	24		2303	6.3	192		2125	5.6	171
<b>5</b>	0108	5.4	165	<b>17</b>	0550	0.0	0	<b>29</b>	0401	0.4	12
	0739	0.7	21		1128	6.6	201		0954	5.6	171
	Sa 1322	5.8	177		Th 1822	-0.1	-3		Tu 1619	0.5	15
	2016	0.9	27		○ 2353	6.2	189		2210	5.6	171
<b>6</b>	0142	5.2	158	<b>18</b>	0637	0.0	0	<b>30</b>	0443	0.3	9
	0807	0.8	24		1215	6.7	204		1036	5.7	174
	Su 1351	5.8	177		F 1916	0.0	0		W 1706	0.4	12
	2055	1.0	30						2251	5.5	168
<b>7</b>	0216	5.1	155	<b>19</b>	0042	6.0	183	<b>31</b>	0522	0.3	9
	0836	0.8	24		0724	0.0	0		1114	5.8	177
	M 1422	5.8	177		Sa 1303	6.7	204		Th 1752	0.4	12
	2138	1.1	34		2008	0.1	3		2331	5.3	162
<b>8</b>	0255	4.9	149	<b>20</b>	0133	5.8	177				
	0912	0.9	27		0811	0.2	6				
	Tu 1502	5.8	177		Su 1353	6.5	198				
	2228	1.2	37		2102	0.3	9				
<b>9</b>	0343	4.8	146	<b>21</b>	0226	5.5	168				
	0959	1.0	30		0900	0.4	12				
	W 1552	5.8	177		M 1445	6.3	192				
	2325	1.2	37		2156	0.5	15				
<b>10</b>	0440	4.8	146	<b>22</b>	0322	5.2	158				
	1100	1.0	30		0951	0.6	18				
	Th 1653	5.7	174		Tu 1541	6.1	186				
	●				2252	0.7	21				
<b>11</b>	0026	1.2	37	<b>23</b>	0421	5.0	152				
	0547	4.8	146		1046	0.8	24				
	F 1210	1.0	30		W 1641	5.8	177				
	1805	5.7	174		2348	0.8	24				
<b>12</b>	0126	1.0	30	<b>24</b>	0522	4.9	149				
	0655	4.9	149		1144	0.9	27				
	Sa 1322	0.9	27		Th 1743	5.6	171				
	1916	5.8	177		●						

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean lower low water which is the chart datum of soundings.

**DAYLIGHT SAVING TIME**  
 Times ARE adjusted for DST.

# CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)

**OCTOBER 2024**

**cb1301**

Slack Water		F-Flood, Dir. 097° True			E-Ebb, Dir. 278° True			Slack Water		Maximum Current		
		Maximum Current	Slack Water	Maximum Current	Slack Water	Maximum Current						
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	
<b>1</b> Tu	0412	0030	1.7E	<b>13</b> Su	0112	0354	1.6F	<b>25</b> F	0230	0230	1.7F	
	1018	0706	1.7F		0730	0954	1.2E		0606	0836	1.2E	
	1630	1306	1.6E		1254	1554	1.8F		1136	1354	1.4F	
	2218	1900	1.6F		1854	2206	2.2E		1706	2024	1.8E	
<b>2</b> W ●	0448	0112	1.6E	<b>14</b> M	0206	0448	1.7F	<b>26</b> Sa	0024	0324	1.6F	
	1048	0730	1.7E		0812	1048	1.5E		0654	0930	1.3E	
	1712	1342	1.7E		1354	1654	2.0F		1236	1454	1.3F	
	2306	1942	1.7F		2006	2306	2.1E		1812	2124	1.6E	
<b>3</b> Th	0524	0148	1.5E	<b>15</b> Tu	0306	0542	1.7F	<b>27</b> Su	0112	0418	1.5F	
	1118	0800	1.7F		0854	1142	1.7E		0736	1024	1.4E	
	1748	1418	1.9E		1454	1754	2.2F		1330	1600	1.3F	
	2354	2024	1.7F		2112				1918	2212	1.5E	
<b>4</b> F	0548	0230	1.5E	<b>16</b> W	0354	0006	2.1E	<b>28</b> M	0206	0506	1.5F	
	1142	0836	1.7F		0936	0630	1.8F		0818	1106	1.6E	
	1830	1448	2.0E		1554	1230	2.0E		1424	1700	1.4F	
		2106	1.7F		2218	1854	2.4F		2024	2312	1.4E	
<b>5</b> Sa	0036	0306	1.4E	<b>17</b> Th ○	0442	0106	2.0E	<b>29</b> Tu	0248	0536	1.5F	
	0612	0912	1.7F		1018	0712	1.8F		0854	1148	1.7E	
	1206	1524	2.1E		1654	1318	2.2E		1518	1754	1.5F	
	1912	2154	1.7F		2318	1948	2.5F		2118			
<b>6</b> Su	0124	0348	1.2E	<b>18</b> F	0530	0200	1.9E	<b>30</b> W	0330	0000	1.4E	
	0642	0948	1.8F		1054	0800	1.9F		0930	0612	1.5F	
	1236	1600	2.2E		1748	1406	2.5E		1606	1230	1.8E	
	1954	2236	1.7F			2048	2.5F		2212	1842	1.6F	
<b>7</b> M	0206	0430	1.1E	<b>19</b> Sa	0024	0254	1.7E	<b>31</b> Th	0412	0048	1.3E	
	0712	1030	1.8F		0612	0848	1.9F		1000	0648	1.5F	
	1312	1636	2.3E		1136	1454	2.6E		1648	1306	1.9E	
	2042	2324	1.6F		1848	2142	2.5F		2300	1930	1.7F	
<b>8</b> Tu	0300	0518	1.0E	<b>20</b> Su	0124	0348	1.5E	Time meridian 75° W. 0000 is midnight. 1200 is noon.				
	0748	1118	1.8F		0654	0930	1.9F					
	1354	1724	2.3E		1218	1542	2.7E					
	2130				1948	2242	2.3F					
<b>9</b> W	0354	0012	1.6F	<b>21</b> M	0224	0436	1.3E					
	0836	0606	0.9E		0736	1024	1.8F					
	1436	1206	1.7F		1306	1636	2.6E					
	2224	1812	2.3E		2042	2336	2.1F					
<b>10</b> Th ●	0454	0106	1.6F	<b>22</b> Tu	0324	0536	1.1E	<b>DAYLIGHT SAVING TIME</b>  Times ARE adjusted for DST.				
	0936	0706	0.8E		0830	1112	1.7F					
	1530	1300	1.7F		1400	1724	2.4E					
	2318	1906	2.2E		2142							
<b>11</b> F	0548	0200	1.6F	<b>23</b> W	0418	0036	2.0F					
	1042	0806	0.9E		0924	0636	1.0E					
	1630	1354	1.7F		1454	1206	1.6F					
		2006	2.2E		2236	1824	2.2E					
<b>12</b> Sa	0012	0254	1.6F	<b>24</b> Th ●	0512	0136	1.8F					
	0642	0900	1.0E		1030	0742	1.1E					
	1148	1454	1.7F		1554	1300	1.5F					
	1742	2106	2.2E		2330	1924	2.0E					



# REEDY POINT, DELAWARE

**NOVEMBER 2024**

**STATION ID 8551910**

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0559	0.4	12	<b>13</b>	0240	0.0	0	<b>25</b>	0045	0.3	9
	1149	5.8	177		0825	6.0	183		0641	4.9	149
	F 1835	0.5	15		W 1514	0.0	0		M 1301	0.6	18
●				2050	5.8	177		1858	5.0	152	
<b>2</b>	0008	5.1	155	<b>14</b>	0331	-0.2	-6	<b>26</b>	0132	0.2	6
	0634	0.5	15		0916	6.3	192		0731	5.1	155
	Sa 1221	5.7	174		Th 1611	-0.2	-6		Tu 1355	0.4	12
	1917	0.5	15		2142	5.7	174		1948	5.0	152
<b>3</b>	0044	4.9	149	<b>15</b>	0421	-0.2	-6	<b>27</b>	0217	0.1	3
	0607	0.5	15		1005	6.4	195		0818	5.3	162
	Su 1151	5.7	174		F 1706	-0.2	-6		W 1448	0.3	9
	1858	0.6	18		○ 2232	5.6	171		2036	4.9	149
<b>4</b>	0019	4.8	146	<b>16</b>	0510	-0.2	-6	<b>28</b>	0301	0.1	3
	0639	0.6	18		1053	6.5	198		0902	5.4	165
	M 1221	5.7	174		Sa 1800	-0.2	-6		Th 1538	0.2	6
	1940	0.7	21		2323	5.4	165		2121	4.8	146
<b>5</b>	0055	4.7	143	<b>17</b>	0559	-0.1	-3	<b>29</b>	0343	0.1	3
	0714	0.7	21		1142	6.4	195		0942	5.5	168
	Tu 1256	5.7	174		Su 1852	-0.1	-3		F 1627	0.2	6
	2024	0.8	24						2203	4.7	143
<b>6</b>	0135	4.6	140	<b>18</b>	0014	5.2	158	<b>30</b>	0424	0.1	3
	0755	0.7	21		0647	0.1	3		1019	5.5	168
	W 1339	5.7	174		M 1231	6.2	189		Sa 1713	0.1	3
	2112	0.8	24		1943	0.1	3		2244	4.6	140
<b>7</b>	0223	4.6	140	<b>19</b>	0106	5.0	152				
	0846	0.7	21		0736	0.2	6				
	Th 1432	5.6	171		Tu 1322	5.9	180				
	2205	0.8	24		2034	0.2	6				
<b>8</b>	0320	4.6	140	<b>20</b>	0200	4.8	146				
	0948	0.7	21		0826	0.4	12				
	F 1534	5.6	171		W 1416	5.7	174				
	2301	0.8	24		2125	0.4	12				
<b>9</b>	0424	4.7	143	<b>21</b>	0256	4.7	143				
	1056	0.7	21		0919	0.6	18				
	Sa 1642	5.6	171		Th 1511	5.4	165				
	● 2358	0.6	18		2216	0.4	12				
<b>10</b>	0529	5.0	152	<b>22</b>	0353	4.7	143				
	1205	0.6	18		1013	0.7	21				
	Su 1751	5.6	171		F 1609	5.3	162				
					2307	0.4	12				
<b>11</b>	0053	0.4	12	<b>23</b>	0450	4.7	143				
	0632	5.3	162		1109	0.7	21				
	M 1311	0.4	12		Sa 1707	5.1	155				
	1856	5.7	174		● 2357	0.4	12				
<b>12</b>	0148	0.2	6	<b>24</b>	0547	4.8	146				
	0730	5.6	171		1206	0.7	21				
	Tu 1413	0.2	6		Su 1804	5.1	155				
	1955	5.8	177								

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

### EASTERN STANDARD TIME/ DAYLIGHT SAVING TIME

**Times ARE adjusted  
for DST until  
November 3.**

# CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)

**NOVEMBER 2024**

**cb1301**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b> F	0448	0130	1.2E	<b>13</b> W	0124	0400	1.6F	<b>25</b> M	0536	0200	1.5F
	1030	0724	1.6F		0706	1006	2.0E		1200	0830	1.6E
	1736	1342	2.1E		1342	1642	2.2F		1754	1424	1.3F
	2348	2012	1.8F		2012	2248	1.7E		2036	2036	1.3E
<b>2</b> Sa	0518	0212	1.2E	<b>14</b> Th	0218	0454	1.7F	<b>26</b> Tu	0006	0248	1.4E
	1100	0800	1.6F		0748	1100	2.3E		0618	0918	1.7E
	1818	1418	2.2E		1448	1742	2.3F		1254	1524	1.4F
		2054	1.8F		2118	2348	1.6E		1900	2130	1.2E
<b>3</b> Su	0036	0154	1.1E	<b>15</b> F	0306	0542	1.8F	<b>27</b> W	0054	0336	1.4F
	0442	0742	1.7F		0836	1154	2.5E		0654	1000	1.8E
	1030	1354	2.3E		1548	1842	2.4F		1348	1624	1.5F
	1754	2042	1.8F		2224				2000	2224	1.1E
<b>4</b> M	0024	0236	1.0E	<b>16</b> Sa	0354	0630	1.8F	<b>28</b> Th	0142	0418	1.4F
	0518	0824	1.7F		0918	1242	2.7E		0730	1048	1.9E
	1100	1430	2.4E		1642	1942	2.4F		1442	1724	1.6F
	1836	2124	1.8F		2318				2100	2318	1.0E
<b>5</b> Tu	0106	0318	1.0E	<b>17</b> Su	0442	0718	1.8F	<b>29</b> F	0224	0506	1.4F
	0554	0906	1.7F		1006	1336	2.7E		0806	1130	2.1E
	1142	1512	2.4E		1736	2036	2.4F		1530	1812	1.7F
	1918	2206	1.7F						2154		
<b>6</b> W	0154	0400	0.9E	<b>18</b> M	0018	0236	1.3E	<b>30</b> Sa	0306	0012	0.9E
	0636	0954	1.7F		0524	0806	1.8F		0842	0548	1.5F
	1224	1554	2.4E		1054	1424	2.7E		1618	1212	2.2E
	2006	2254	1.7F		1830	2130	2.3F		2248	1900	1.8F
<b>7</b> Th	0236	0454	0.9E	<b>19</b> Tu	0106	0324	1.2E	Time meridian 75° W. 0000 is midnight. 1200 is noon.			
	0730	1042	1.7F		0618	0854	1.8F				
	1318	1648	2.3E		1142	1512	2.6E				
	2048	2342	1.7F		1918	2218	2.1F				
<b>8</b> F	0324	0542	1.0E	<b>20</b> W	0154	0412	1.2E	<b>EASTERN STANDARD TIME/ DAYLIGHT SAVING TIME</b>  <b>Times ARE adjusted for DST until November 3.</b>			
	0830	1136	1.7F		0712	0948	1.7F				
	1412	1742	2.2E		1236	1600	2.3E				
	2142				2012	2306	2.0F				
<b>9</b> Sa	0406	0030	1.7F	<b>21</b> Th	0242	0506	1.2E				
	0930	0636	1.1E		0806	1036	1.6F				
	1518	1230	1.8F		1330	1648	2.0E				
	2236	1842	2.1E		2054	2348	1.8F				
<b>10</b> Su	0454	0124	1.7F	<b>22</b> F	0330	0600	1.3E				
	1030	0730	1.3E		0906	1130	1.5F				
	1630	1330	1.8F		1430	1742	1.8E				
	2336	1942	2.0E		2142						
<b>11</b> M	0536	0218	1.6F	<b>23</b> Sa	0412	0036	1.7F				
	1136	0824	1.5E		1006	0654	1.4E				
	1748	1430	1.9F		1536	1230	1.4F				
		2048	1.9E		2230	1842	1.6E				
<b>12</b> Tu	0030	0306	1.6F	<b>24</b> Su	0454	0118	1.6F				
	0624	0918	1.8E		1100	0742	1.5E				
	1242	1536	2.1F		1642	1324	1.3F				
	1900	2148	1.8E		2318	1936	1.4E				

# REEDY POINT, DELAWARE

**DECEMBER 2024**

**STATION ID 8551910**

Times and Heights of High and Low Waters											
		Time		Height				Time		Height	
Day	Time h.m.	ft.	cm	Day	Time h.m.	ft.	cm	Day	Time h.m.	ft.	cm
<b>1</b>	0504	0.2	6	<b>13</b>	0305	-0.3	-9	<b>25</b>	0042	0.1	3
	1054	5.5	168		0855	5.9	180		0647	4.7	143
	Su 1757	0.2	6		F 1556	-0.3	-9		W 1318	0.3	9
	● 2322	4.5	137		2123	5.1	155		1908	4.4	134
<b>2</b>	0543	0.2	6	<b>14</b>	0357	-0.4	-12	<b>26</b>	0129	0.0	0
	1128	5.5	168		0946	6.0	183		0737	4.9	149
	M 1841	0.2	6		Sa 1651	-0.4	-12		Th 1414	0.2	6
	2359	4.4	134		2215	5.0	152		2000	4.3	131
<b>3</b>	0623	0.2	6	<b>15</b>	0449	-0.3	-9	<b>27</b>	0217	0.0	0
	1203	5.5	168		1036	6.0	183		0824	5.0	152
	Tu 1924	0.3	9		Su 1744	-0.4	-12		F 1509	0.1	3
					○ 2306	4.9	149		2050	4.3	131
<b>4</b>	0038	4.4	134	<b>16</b>	0539	-0.3	-9	<b>28</b>	0305	0.0	0
	0704	0.2	6		1124	5.9	180		0908	5.1	155
	W 1243	5.5	168		M 1834	-0.3	-9		Sa 1600	0.0	0
	2008	0.3	9		2356	4.8	146		2136	4.2	128
<b>5</b>	0120	4.4	134	<b>17</b>	0627	-0.2	-6	<b>29</b>	0352	0.0	0
	0749	0.2	6		1213	5.7	174		0950	5.2	158
	Th 1329	5.5	168		Tu 1922	-0.2	-6		Su 1649	-0.1	-3
	2054	0.3	9						2219	4.2	128
<b>6</b>	0209	4.5	137	<b>18</b>	0046	4.7	143	<b>30</b>	0439	-0.1	-3
	0841	0.2	6		0714	0.0	0		1030	5.3	162
	F 1421	5.4	165		W 1301	5.5	168		M 1736	-0.1	-3
	2143	0.3	9		2008	-0.1	-3		● 2300	4.2	128
<b>7</b>	0303	4.6	140	<b>19</b>	0136	4.6	140	<b>31</b>	0524	-0.1	-3
	0940	0.3	9		0801	0.1	3		1110	5.3	162
	Sa 1520	5.4	165		Th 1349	5.3	162		Tu 1821	-0.2	-6
	2235	0.2	6		2054	0.0	0		2337	4.4	134
<b>8</b>	0402	4.7	143	<b>20</b>	0226	4.5	137				
	1044	0.2	6		0849	0.2	6				
	Su 1623	5.3	162		F 1439	5.1	155				
	● 2328	0.1	3		2139	0.1	3				
<b>9</b>	0504	5.0	152	<b>21</b>	0317	4.5	137				
	1149	0.2	6		0939	0.3	9				
	M 1728	5.2	158		Sa 1530	4.9	149				
					2224	0.1	3				
<b>10</b>	0023	-0.1	-3	<b>22</b>	0409	4.5	137				
	0606	5.2	158		1031	0.4	12				
	Tu 1254	0.1	3		Su 1623	4.8	146				
	1832	5.2	158		● 2309	0.1	3				
<b>11</b>	0117	-0.2	-6	<b>23</b>	0502	4.5	137				
	0705	5.5	168		1125	0.4	12				
	W 1357	0.0	0		M 1718	4.6	140				
	1932	5.2	158		2355	0.1	3				
<b>12</b>	0211	-0.3	-9	<b>24</b>	0555	4.6	140				
	0802	5.8	177		1222	0.4	12				
	Th 1458	-0.2	-6		Tu 1813	4.5	137				
	2029	5.1	155								

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean lower low water which is the chart datum of soundings.

**EASTERN  
STANDARD TIME**

**CHESAPEAKE AND DELAWARE CANAL (Chesapeake City)**  
**DECEMBER 2024** **cb1301**

		F-Flood, Dir. 097° True			E-Ebb, Dir. 278° True				
Slack Water		Maximum Current			Maximum Current			Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.
<b>1</b>		0054	0.9E	<b>13</b>	0142	0424	1.6F	<b>25</b>	0154
Su	0342	0630	1.6F		0712	1036	2.4E	0512	0824
	0918	1254	2.3E	F	1442	1742	2.2F	W	1218
	1700	1942	1.8F		2118	2336	1.2E		1830
●	2336								2048
									2348
<b>2</b>		0142	0.9E	<b>14</b>	0236	0512	1.7F	<b>26</b>	0242
M	0424	0712	1.7F		0806	1130	2.6E	Th	0554
	1000	1330	2.4E	Sa	1542	1842	2.3F		1318
	1742	2024	1.9F		2218				1942
									2148
<b>3</b>		0018	0.9E	<b>15</b>		0036	1.1E	<b>27</b>	0042
Tu	0500	0800	1.7F	Su	0330	0606	1.7F		0636
	1042	1412	2.5E	O	0854	1224	2.7E	F	1000
	1818	2106	1.9F		1636	1936	2.3F		1412
					2312				1700
									2248
<b>4</b>		0054	1.0E	<b>16</b>		0130	1.2E	<b>28</b>	0136
W	0548	0848	1.8F	M	0418	0654	1.8F		0718
	1124	1454	2.5E		0948	1318	2.7E	Sa	1054
	1900	2148	1.9F		1724	2030	2.3F		1506
									1800
<b>5</b>		0130	1.1E	<b>17</b>		0000	1.3E		2142
Th	0630	0936	1.8F	Tu	0512	0748	1.8F	<b>29</b>	0224
	1212	1536	2.4E		1036	1406	2.6E	Su	0806
	1942	2230	1.9F		1812	2112	2.2F		1142
									1848
<b>6</b>		0206	1.2E	<b>18</b>		0042	1.3E	<b>30</b>	0036
F	0724	1024	1.8F	W	0600	0836	1.8F		0606
	1306	1624	2.3E		1130	1448	2.4E	M	0606
	2024	2312	1.8F		1854	2148	2.1F		1224
								●	1636
<b>7</b>		0242	1.3E	<b>19</b>		0124	1.4E		1930
Sa	0818	1118	1.9F	Th	0654	0924	1.7F	<b>31</b>	0124
	1406	1724	2.1E		1218	1530	2.2E		0654
	2112				1930	2224	2.0F	Tu	1312
									2006
<b>8</b>		0000	1.8F	<b>20</b>		0200	1.5E		2354
Su	0324	0606	1.4E	F	0742	1012	1.6F		
●	0912	1212	1.9F		1312	1618	1.9E		
	1512	1818	2.0E		2012	2300	1.9F		
	2206								
<b>9</b>		0048	1.7F	<b>21</b>		0236	1.5E		
M	0406	0700	1.6E	Sa	0836	1106	1.5F		
	1018	1312	1.9F		1406	1706	1.7E		
	1624	1924	1.8E		2048	2342	1.7F		
	2300								
<b>10</b>		0142	1.6F	<b>22</b>		0312	1.6E		
Tu	0448	0748	1.8E	Su	0930	1154	1.5F		
	1124	1412	2.0F	●	1506	1800	1.5E		
	1742	2024	1.6E		2130				
	2354								
<b>11</b>		0236	1.6F	<b>23</b>			0024	1.6F	
W	0536	0848	2.0E	M	0354	0648	1.6E		
	1230	1524	2.0F		1018	1248	1.4F		
	1900	2130	1.4E		1606	1854	1.3E		
					2218				
<b>12</b>		0048	1.6F	<b>24</b>			0106	1.5F	
Th	0624	0942	2.2E	Tu	0430	0736	1.7E		
	1336	1636	2.1F		1118	1342	1.4F		
	2012	2236	1.3E		1718	1948	1.1E		
					2300				

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME**



**2024**

**TIDES AND CURRENTS**

**MARCUS HOOK, PA  
AND  
MARCUS HOOK BAR (North)**

# MARCUS HOOK, PENNSYLVANIA

JANUARY 2024

STATION ID 8540433

## Times and Heights of High and Low Waters

	Time		Height			Time		Height			Time		Height		
	Day	h.m.	ft.	cm		Day	h.m.	ft.	cm		Day	h.m.	ft.	cm	
<b>1</b> M	0335	4.5	137		<b>13</b> Sa	0107	5.0	152		<b>25</b> Th O	0616	0.0	0		
	1008	0.3	9			0806	-0.5	-15			1150	5.7	174		
	1543	5.1	155			1327	6.2	189			1905	-0.1	-3		
	2253	0.2	6			2053	-0.5	-15							
<b>2</b> Tu	0421	4.5	137		<b>14</b> Su	0157	5.1	155		<b>26</b> F	0017	4.8	146		
	1055	0.4	12			0858	-0.5	-15			0701	0.0	0		
	1632	4.8	146			1418	6.1	186			1232	5.6	171		
	2334	0.2	6			2140	-0.5	-15			1946	-0.1	-3		
<b>3</b> W	0510	4.5	137		<b>15</b> M	0249	5.2	158		<b>27</b> Sa	0100	4.7	143		
	1148	0.4	12			0951	-0.5	-15			0742	0.0	0		
	1726	4.6	140			1511	5.9	180			1313	5.5	168		
						2228	-0.5	-15			2024	0.0	0		
<b>4</b> Th O	0017	0.1	3		<b>16</b> Tu	0343	5.3	162		<b>28</b> Su	0141	4.7	143		
	0601	4.6	140			1047	-0.4	-12			0822	0.1	3		
	1245	0.3	9			1607	5.6	171			1352	5.4	165		
	1822	4.4	134			2318	-0.4	-12			2101	0.0	0		
<b>5</b> F	0104	0.1	3		<b>17</b> W	0440	5.3	162		<b>29</b> M	0219	4.7	143		
	0653	4.8	146			1145	-0.3	-9			0901	0.1	3		
	1345	0.3	9			1707	5.2	158			1430	5.2	158		
	1918	4.3	131								2135	0.1	3		
<b>6</b> Sa	0154	0.1	3		<b>18</b> Th O	0010	-0.4	-12		<b>30</b> Tu	0257	4.7	143		
	0745	5.0	152			0539	5.3	162			0940	0.1	3		
	1446	0.2	6			1245	-0.2	-6			1508	5.0	152		
	2014	4.3	131			1808	5.0	152			2209	0.1	3		
<b>7</b> Su	0247	0.0	0		<b>19</b> F	0103	-0.3	-9		<b>31</b> W	0334	4.8	146		
	0837	5.3	162			0639	5.4	165			1023	0.2	6		
	1546	0.1	3			1345	-0.1	-3			1549	4.7	143		
	2107	4.3	131			1908	4.8	146			2244	0.1	3		
<b>8</b> M	0342	0.0	0		<b>20</b> Sa	0158	-0.2	-6		Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.  <b>EASTERN                      STANDARD TIME</b>					
	0927	5.6	171			0739	5.4	165							
	1642	0.0	0			1446	-0.1	-3							
	2157	4.4	134			2008	4.7	143							
<b>9</b> Tu	0436	-0.1	-3		<b>21</b> Su	0254	-0.2	-6							
	1015	5.8	177			0836	5.5	168							
	1736	-0.1	-3			1545	-0.1	-3							
	2244	4.5	137			2105	4.7	143							
<b>10</b> W	0530	-0.2	-6		<b>22</b> M	0348	-0.1	-3							
	1102	6.1	186			0930	5.6	171							
	1828	-0.3	-9			1641	-0.2	-6							
	2331	4.7	143			2158	4.7	143							
<b>11</b> Th O	0622	-0.4	-12		<b>23</b> Tu	0440	-0.1	-3							
	1149	6.2	189			1020	5.7	174							
	1918	-0.4	-12			1732	-0.2	-6							
						2246	4.7	143							
<b>12</b> F	0019	4.8	146		<b>24</b> W	0530	-0.1	-3							
	0714	-0.5	-15			1106	5.7	174							
	1237	6.3	192			1820	-0.2	-6							
	2006	-0.5	-15			2333	4.8	146							

# MARCUS HOOK BAR (North)

**JANUARY 2024**

**deb2119 (16 ft.)**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>		0124	1.3F	<b>13</b>	0242	0606	1.7E	<b>25</b>	0048	0448	1.4E
M	0454	0754	1.5E		0918	1124	2.0F		0724	0930	1.4F
	1130	1330	1.5F	Sa	1500	1918	2.0E	Th	1300	1754	1.8E
	1654	2012	1.6E		2212			O	2018	2312	1.2F
<b>2</b>	0006	0206	1.3F	<b>14</b>		0012	1.5F	<b>26</b>	0136	0512	1.4E
	0542	0836	1.6E		0330	0706	1.8E		0806	1006	1.4F
Tu	1218	1418	1.5F	Su	1012	1218	1.9F	F	1342	1830	1.7E
	1748	2100	1.6E		1548	2000	2.0E		2054	2330	1.2F
					2254						
<b>3</b>	0048	0248	1.4F	<b>15</b>		0100	1.6F	<b>27</b>	0218	0524	1.4E
	0624	0930	1.7E		0424	0800	1.9E		0848	1048	1.4F
W	1312	1506	1.4F	M	1106	1312	1.9F	Sa	1418	1842	1.6E
	1842	2142	1.6E		1642	2048	1.9E		2136	2336	1.2F
					2342						
<b>4</b>	0130	0336	1.5F	<b>16</b>		0148	1.7F	<b>28</b>	0300	0554	1.4E
	0718	1018	1.7E		0512	0854	1.9E		0930	1130	1.5F
Th	1406	1600	1.3F	Tu	1200	1406	1.9F	Su	1500	1818	1.6E
●	1936	2230	1.6E		1742	2130	1.9E		2212		
<b>5</b>	0218	0424	1.5F	<b>17</b>	0030	0236	1.7F	<b>29</b>		0012	1.3F
	0806	1112	1.7E		0606	0954	2.0E		0336	0636	1.5E
F	1506	1700	1.2F	W	1254	1506	1.7F	M	1012	1218	1.5F
	2030	2324	1.6E		1836	2212	1.9E		1542	1854	1.6E
									2248		
<b>6</b>	0312	0518	1.5F	<b>18</b>	0124	0330	1.6F	<b>30</b>		0048	1.4F
	0906	1212	1.6E		0706	1054	1.9E		0418	0718	1.6E
Sa	1606	1800	1.1F	Th	1354	1606	1.6F	●	1100	1300	1.5F
	2124			●	1930	2300	1.8E	Tu	1624	1930	1.7E
									2324		
<b>7</b>		0012	1.5E	<b>19</b>	0212	0424	1.5F	<b>31</b>		0130	1.5F
	0400	0618	1.6F		0800	1206	1.9E		0454	0800	1.7E
Su	1000	1318	1.6E	F	1454	1724	1.4F	W	1148	1348	1.5F
	1712	1900	1.1F		2024	2348	1.7E		1712	2018	1.7E
	2218										
<b>8</b>		0106	1.5E	<b>20</b>	0306	0530	1.5F				
	0454	0712	1.7F		0900	1324	1.8E				
M	1054	1518	1.7E	Sa	1554	1854	1.3F				
	1806	2000	1.1F		2124						
	2312										
<b>9</b>		0206	1.5E	<b>21</b>		0048	1.6E				
	0548	0800	1.8F		0406	0654	1.4F				
Tu	1142	1618	1.8E	Su	0954	1430	1.8E				
	1900	2054	1.1F		1700	2000	1.3F				
					2218						
<b>10</b>	0000	0306	1.5E	<b>22</b>		0206	1.6E				
	0636	0854	1.9F		0500	0800	1.4F				
W	1230	1712	1.9E	M	1048	1530	1.9E				
	1948	2142	1.2F		1754	2054	1.3F				
					2312						
<b>11</b>	0054	0406	1.5E	<b>23</b>		0312	1.5E				
	0730	0942	1.9F		0548	0848	1.4F				
Th	1318	1800	1.9E	Tu	1142	1624	1.9E				
●	2036	2236	1.3F		1848	2148	1.3F				
<b>12</b>	0148	0506	1.6E	<b>24</b>	0000	0406	1.5E				
	0824	1036	2.0F		0636	0906	1.4F				
F	1406	1842	1.9E	W	1224	1712	1.9E				
	2124	2324	1.4F		1936	2230	1.3F				

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME**



# MARCUS HOOK, PENNSYLVANIA

FEBRUARY 2024

STATION ID 8540433

## Times and Heights of High and Low Waters

Day	Time		Height		Day	Time		Height		Day	Time		Height	
	h.m.		ft.	cm		h.m.		ft.	cm		h.m.		ft.	cm
<b>1</b> Th	0414		4.8	146	<b>13</b> Tu	0227		5.8	177	<b>25</b> Su	0035		5.1	155
	1112		0.2	6		0934		-0.6	-18		0720		0.1	3
	1635		4.5	137		1453		5.8	177		1251		5.5	168
	2323		0.1	3		2200		-0.4	-12		1952		0.1	3
<b>2</b> F ☉	0501		4.8	146	<b>14</b> W	0318		5.8	177	<b>26</b> M	0113		5.2	158
	1208		0.3	9		1028		-0.4	-12		0801		0.1	3
	1730		4.3	131		1547		5.5	168		1328		5.4	165
						2249		-0.3	-9		2026		0.2	6
<b>3</b> Sa	0009		0.1	3	<b>15</b> Th	0412		5.7	174	<b>27</b> Tu	0147		5.2	158
	0554		4.9	149		1125		-0.2	-6		0839		0.1	3
	1309		0.3	9		1644		5.2	158		1403		5.2	158
	1830		4.1	125		2340		-0.1	-3		2058		0.2	6
<b>4</b> Su	0103		0.1	3	<b>16</b> F ☾	0510		5.6	171	<b>28</b> W	0219		5.3	162
	0653		5.1	155		1223		-0.1	-3		0918		0.2	6
	1413		0.3	9		1744		4.9	149		1437		5.0	152
	1932		4.1	125							2129		0.3	9
<b>5</b> M	0204		0.1	3	<b>17</b> Sa	0033		0.0	0	<b>29</b> Th	0250		5.3	162
	0754		5.3	162		0611		5.5	168		0959		0.3	9
	1516		0.2	6		1322		0.1	3		1512		4.8	146
	2032		4.2	128		1846		4.7	143		2200		0.3	9
<b>6</b> Tu	0308		0.0	0	<b>18</b> Su	0129		0.1	3					
	0853		5.5	168		0712		5.4	165					
	1615		0.1	3		1423		0.1	3					
	2128		4.4	134		1946		4.6	140					
<b>7</b> W	0410		-0.1	-3	<b>19</b> M	0226		0.1	3					
	0948		5.8	177		0813		5.4	165					
	1711		-0.1	-3		1521		0.1	3					
	2220		4.7	143		2045		4.6	140					
<b>8</b> Th	0508		-0.3	-9	<b>20</b> Tu	0323		0.1	3					
	1040		6.1	186		0910		5.5	168					
	1803		-0.3	-9		1616		0.0	0					
	2309		4.9	149		2139		4.8	146					
<b>9</b> F ●	0604		-0.5	-15	<b>21</b> W	0416		0.1	3					
	1130		6.3	192		1002		5.6	171					
	1853		-0.4	-12		1707		0.0	0					
	2358		5.2	158		2228		4.9	149					
<b>10</b> Sa	0658		-0.6	-18	<b>22</b> Th	0506		0.0	0					
	1221		6.3	192		1048		5.6	171					
	1941		-0.5	-15		1753		0.0	0					
						2313		5.0	152					
<b>11</b> Su	0048		5.5	168	<b>23</b> F	0554		0.0	0					
	0750		-0.7	-21		1131		5.6	171					
	1311		6.3	192		1836		0.0	0					
	2027		-0.6	-18		2355		5.1	155					
<b>12</b> M	0137		5.7	174	<b>24</b> Sa ☽	0638		0.0	0					
	0842		-0.7	-21		1212		5.6	171					
	1401		6.1	186		1915		0.1	3					
	2113		-0.5	-15										

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean lower low water which is the chart datum of soundings.

**EASTERN  
STANDARD TIME**

# MARCUS HOOK BAR (North)

FEBRUARY 2024

deb2119 (16 ft.)

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0006	0212	1.6F	<b>13</b>	0036	0036	1.8F	<b>25</b>	0148	0506	1.5E
Th	0542	0854	1.7E	Tu	0400	0748	2.0E	Su	0824	1024	1.4F
	1242	1436	1.4F		1048	1300	1.9F		1354	1730	1.6E
	1754	2100	1.7E		1624	2012	2.0E		2100	2300	1.4F
					2312						
<b>2</b>	0048	0300	1.7F	<b>14</b>	0048	0124	1.8F	<b>26</b>	0224	0536	1.6E
F	0630	0942	1.7E	W	0448	0848	2.0E	M	0906	1106	1.5F
	1336	1530	1.3F		1142	1354	1.8F		1436	1742	1.6E
	1848	2148	1.6E		1718	2054	1.9E		2136	2336	1.5F
<b>3</b>	0130	0348	1.7F	<b>15</b>	0000	0212	1.7F	<b>27</b>	0300	0606	1.6E
Sa	0724	1036	1.6E	Th	0542	0942	2.0E	Tu	0948	1148	1.5F
	1436	1624	1.1F		1236	1448	1.7F		1512	1818	1.6E
	1942	2242	1.6E		1812	2142	1.8E		2212		
<b>4</b>	0224	0442	1.7F	<b>16</b>	0054	0300	1.7F	<b>28</b>		0012	1.6F
Su	0824	1130	1.6E	F	0642	1048	1.9E	W	0336	0648	1.7E
	1542	1724	1.0F		1336	1548	1.4F		1036	1236	1.5F
	2042	2336	1.5E		1906	2224	1.8E		1554	1854	1.7E
<b>5</b>	0324	0536	1.7F	<b>17</b>	0142	0354	1.5F	<b>29</b>		0054	1.7F
M	0924	1248	1.6E	Sa	0736	1154	1.8E	Th	0418	0730	1.7E
	1642	1830	0.9F		1436	1718	1.2F		1124	1324	1.5F
	2142				2000	2318	1.7E		1636	1936	1.7E
<b>6</b>		0036	1.5E	<b>18</b>	0236	0454	1.4F		2324		
Tu	0424	0636	1.7F	Su	0836	1306	1.7E				
	1018	1500	1.6E		1536	1842	1.2F				
	1742	1936	1.0F		2054						
	2242										
<b>7</b>		0142	1.4E	<b>19</b>		0012	1.5E				
W	0518	0736	1.8F	M	0336	0642	1.3F				
	1112	1600	1.8E		0936	1412	1.8E				
	1836	2036	1.2F		1642	1948	1.2F				
	2342				2154						
<b>8</b>		0248	1.5E	<b>20</b>		0142	1.5E				
Th	0618	0830	1.9F	Tu	0430	0748	1.3F				
	1206	1648	1.9E		1024	1506	1.8E				
	1924	2130	1.3F		1736	2042	1.3F				
					2248						
<b>9</b>	0036	0406	1.6E	<b>21</b>		0254	1.5E				
F	0712	0924	1.9F	W	0524	0836	1.3F				
	1300	1730	2.0E		1112	1600	1.9E				
	2012	2218	1.5F		1824	2130	1.3F				
					2342						
<b>10</b>	0130	0506	1.8E	<b>22</b>		0348	1.5E				
Sa	0806	1018	2.0F	Th	0612	0906	1.3F				
	1348	1812	2.0E		1154	1642	1.9E				
	2054	2306	1.6F		1906	2212	1.4F				
<b>11</b>	0218	0600	1.9E	<b>23</b>	0030	0430	1.5E				
Su	0900	1112	2.0F	F	0700	0912	1.3F				
	1442	1854	2.0E		1236	1718	1.8E				
	2142	2348	1.7F		1948	2248	1.3F				
<b>12</b>	0306	0654	2.0E	<b>24</b>	0112	0500	1.5E				
M	0954	1206	2.0F	Sa	0742	0948	1.4F				
	1536	1936	2.0E		1318	1748	1.7E				
	2230				2024	2248	1.3F				

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME**

# MARCUS HOOK, PENNSYLVANIA

MARCH 2024

STATION ID 8540433

## Times and Heights of High and Low Waters

Day	Time		Height		Day	Time		Height		Day	Time		Height	
	h.m.	ft.	cm	ft.		cm	h.m.	ft.	cm		h.m.	ft.	cm	
<b>1</b> F	0324	5.4	165	<b>13</b> W	0302	6.4	195	<b>25</b> M O	0107	5.7	174	0758	0.2	6
	1046	0.4	12		1016	-0.4	-12		1326	5.5	168			
	1553	4.6	140		1532	5.9	180		2018	0.4	12			
	2236	0.3	9		2231	0.0	0							
<b>2</b> Sa	0407	5.4	165	<b>14</b> Th	0351	6.3	192	<b>26</b> Tu	0142	5.8	177	0839	0.3	9
	1140	0.5	15		1108	-0.2	-6		1402	5.4	165			
	1645	4.5	137		1625	5.6	171		2052	0.5	15			
	2325	0.3	9		2319	0.1	3							
<b>3</b> Su ☉	0502	5.4	165	<b>15</b> F	0443	6.1	186	<b>27</b> W	0214	5.8	177	0920	0.3	9
	1241	0.5	15		1203	0.0	0		1437	5.2	158			
	1749	4.3	131		1721	5.3	162		2125	0.6	18			
<b>4</b> M	0024	0.3	9	<b>16</b> Sa	0010	0.3	9	<b>28</b> Th	0244	5.9	180	1000	0.4	12
	0607	5.4	165		0540	5.9	180		1510	5.1	155			
	1344	0.5	15		1259	0.3	9		2156	0.6	18			
	1856	4.3	131		1820	5.0	152							
<b>5</b> Tu	0133	0.3	9	<b>17</b> Su ☾	0103	0.5	15	<b>29</b> F	0314	6.0	183	1042	0.5	15
	0716	5.5	168		0640	5.7	174		1545	5.0	152			
	1448	0.5	15		1357	0.4	12		2228	0.6	18			
	2001	4.5	137		1921	4.8	146							
<b>6</b> W	0243	0.2	6	<b>18</b> M	0159	0.6	18	<b>30</b> Sa	0349	6.0	183	1128	0.6	18
	0823	5.7	174		0743	5.5	168		1625	4.9	149			
	1548	0.3	9		1455	0.5	15		2307	0.6	18			
	2101	4.8	146		2022	4.8	146							
<b>7</b> Th	0348	0.1	3	<b>19</b> Tu	0257	0.6	18	<b>31</b> Su	0433	6.0	183	1221	0.7	21
	0923	6.0	183		0846	5.5	168		1717	4.7	143			
	1643	0.1	3		1552	0.4	12							
	2156	5.2	158		2121	4.9	149							
<b>8</b> F	0449	-0.1	-3	<b>20</b> W	0354	0.5	15	Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.						
	1019	6.2	189		0945	5.5	168							
	1736	-0.1	-3		1646	0.4	12							
	2247	5.6	171		2215	5.1	155							
<b>9</b> Sa	0546	-0.3	-9	<b>21</b> Th	0449	0.4	12	<b>EASTERN STANDARD TIME/ DAYLIGHT SAVING TIME</b>						
	1110	6.4	195		1038	5.6	171		<b>Times ARE adjusted for DST starting March 10.</b>					
	1825	-0.2	-6		1735	0.3	9							
	2336	5.9	180		2304	5.3	162							
<b>10</b> Su ●	0741	-0.5	-15	<b>22</b> F	0541	0.3	9							
	1301	6.4	195		1125	5.7	174							
	2013	-0.3	-9		1820	0.3	9							
					2349	5.5	168							
<b>11</b> M	0125	6.2	189	<b>23</b> Sa	0629	0.2	6							
	0833	-0.5	-15		1208	5.7	174							
	1351	6.3	192		1902	0.3	9							
	2059	-0.3	-9											
<b>12</b> Tu	0213	6.4	195	<b>24</b> Su	0029	5.6	171							
	0925	-0.5	-15		0714	0.2	6							
	1441	6.2	189		1248	5.6	171							
	2145	-0.2	-6		1941	0.4	12							

# MARCUS HOOK BAR (North)

**MARCH 2024**

**deb2119 (16 ft.)**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>		0142	1.8F	<b>13</b>		0106	1.8F	<b>25</b>	0218	0548	1.7E
F	0500	0812	1.7E	W	0430	0836	2.0E	O	0900	1106	1.5F
	1218	1412	1.4F		1124	1342	1.9F	M	1430	1748	1.6E
	1718	2024	1.7E		1700	2042	1.9E		2124	2324	1.5F
					2342						
<b>2</b>	0006	0224	1.8F	<b>14</b>		0154	1.8F	<b>26</b>	0254	0612	1.7E
Sa	0554	0906	1.6E	Th	0524	0936	2.0E	Tu	0942	1142	1.5F
	1312	1500	1.2F		1218	1430	1.7F		1512	1812	1.6E
	1806	2118	1.6E		1748	2118	1.8E		2200		
<b>3</b>	0054	0318	1.8F	<b>15</b>	0030	0242	1.7F	<b>27</b>		0000	1.6F
Su	0648	1000	1.6E	F	0618	1036	1.9E	W	0330	0642	1.7E
●	1412	1554	1.1F		1318	1524	1.5F		1030	1224	1.5F
	1906	2212	1.5E		1842	2200	1.8E		1548	1842	1.6E
									2236		
<b>4</b>	0148	0412	1.8F	<b>16</b>	0124	0330	1.6F	<b>28</b>		0042	1.7F
M	0748	1100	1.5E	Sa	0712	1136	1.8E	Th	0406	0718	1.7E
	1512	1654	1.0F		1412	1624	1.3F		1118	1312	1.4F
	2012	2306	1.5E		1936	2254	1.7E		1624	1924	1.6E
<b>5</b>	0254	0506	1.7F	<b>17</b>	0212	0418	1.5F	<b>29</b>		0124	1.8F
Tu	0848	1218	1.5E	Su	0812	1242	1.7E	F	0448	0800	1.7E
	1618	1800	1.0F	●	1512	1812	1.1F		1206	1354	1.4F
	2118				2030	2348	1.6E		1700	2006	1.6E
<b>6</b>		0012	1.4E	<b>18</b>	0306	0512	1.3F	<b>30</b>		0212	1.9F
W	0354	0612	1.7F	M	0906	1342	1.7E	Sa	0530	0848	1.6E
	0948	1424	1.6E		1612	1924	1.1F		1254	1448	1.3F
	1712	1912	1.1F		2130				1748	2054	1.6E
	2224			<b>19</b>		0048	1.5E	<b>31</b>	0036	0300	1.9F
<b>7</b>		0124	1.5E	Tu	0406	0618	1.2F	Su	0624	0942	1.6E
Th	0500	0712	1.7F		1000	1442	1.7E		1348	1536	1.2F
	1048	1530	1.8E		1712	2024	1.2F		1842	2148	1.5E
	1806	2018	1.3F		2230						
	2324			<b>20</b>	0506	0206	1.4E				
<b>8</b>		0242	1.6E	W	1054	0824	1.2F				
F	0600	0812	1.8F		1806	1536	1.7E				
	1142	1618	1.9E		2330	2118	1.3F				
	1854	2112	1.5F	<b>21</b>		0324	1.5E				
<b>9</b>	0018	0400	1.8E	Th	0600	0918	1.2F				
Sa	0654	0912	1.9F		1142	1624	1.8E				
	1236	1700	2.0E		1854	2200	1.4F				
	1942	2154	1.7F	<b>22</b>	0018	0418	1.5E				
<b>10</b>	0106	0554	1.9E	F	0648	0948	1.3F				
Su	0848	1106	2.0F		1230	1706	1.8E				
●	1430	1842	2.0E		1936	2242	1.4F				
	2124	2336	1.8F	<b>23</b>	0100	0500	1.6E				
<b>11</b>	0254	0648	2.0E	Sa	0736	0954	1.3F				
M	0942	1154	2.0F		1312	1742	1.7E				
	1524	1924	2.0E		2012	2306	1.4F				
	2212			<b>24</b>	0142	0530	1.6E				
<b>12</b>		0024	1.8F	Su	0818	1030	1.4F				
Tu	0342	0742	2.1E		1354	1800	1.6E				
	1036	1248	2.0F		2048	2300	1.4F				
	1612	2000	2.0E								
	2300										

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME/  
DAYLIGHT  
SAVING TIME**

**Times ARE adjusted  
for DST starting  
March 10.**

# MARCUS HOOK, PENNSYLVANIA

APRIL 2024

STATION ID 8540433

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0000	0.6	18	<b>13</b>	0415	6.4	195	<b>25</b>	0142	6.3	192
	0529	5.9	180		1140	0.4	12		0901	0.5	15
	M 1319	0.7	21		Sa 1656	5.4	165		Th 1411	5.2	158
	1821	4.7	143		2340	0.8	24		2055	0.8	24
<b>2</b>	0104	0.7	21	<b>14</b>	0509	6.1	186	<b>26</b>	0214	6.4	195
	0637	5.8	177		1234	0.6	18		0944	0.6	18
	Tu 1420	0.7	21		Su 1755	5.1	155		F 1447	5.1	155
	● 1930	4.7	143						2131	0.8	24
<b>3</b>	0214	0.6	18	<b>15</b>	0033	0.9	27	<b>27</b>	0248	6.4	195
	0749	5.8	177		M 0609	5.9	180		1028	0.6	18
	W 1520	0.6	18		● 1328	0.7	21		Sa 1525	5.1	155
	2036	5.0	152		● 1855	5.0	152		2210	0.8	24
<b>4</b>	0324	0.5	15	<b>16</b>	0128	1.0	30	<b>28</b>	0327	6.4	195
	0857	5.9	180		0711	5.7	174		1115	0.7	21
	Th 1619	0.5	15		Tu 1422	0.7	21		Su 1609	5.0	152
	2137	5.4	165		1954	5.1	155		2255	0.8	24
<b>5</b>	0430	0.3	9	<b>17</b>	0225	1.0	30	<b>29</b>	0414	6.4	195
	1000	6.1	186		0813	5.6	171		1206	0.8	24
	F 1714	0.3	9		W 1516	0.7	21		M 1702	5.0	152
	2233	5.8	177		2052	5.2	158		2351	0.9	27
<b>6</b>	0531	0.1	3	<b>18</b>	0322	0.9	27	<b>30</b>	0511	6.2	189
	1057	6.3	192		0912	5.6	171		1300	0.8	24
	Sa 1806	0.1	3		Th 1607	0.6	18		Tu 1805	5.0	152
	2324	6.3	192		2146	5.4	165				
<b>7</b>	0628	-0.1	-3	<b>19</b>	0418	0.7	21				
	1149	6.4	195		1006	5.6	171				
	Su 1856	0.1	3		F 1656	0.6	18				
					2235	5.7	174				
<b>8</b>	0013	6.6	201	<b>20</b>	0511	0.6	18				
	0723	-0.2	-6		1055	5.6	171				
	M 1239	6.4	195		Sa 1740	0.6	18				
	● 1944	0.1	3		2319	5.9	180				
<b>9</b>	0101	6.8	207	<b>21</b>	0601	0.5	15				
	0816	-0.2	-6		1139	5.6	171				
	Tu 1330	6.3	192		Su 1823	0.6	18				
	2031	0.2	6		2359	6.1	186				
<b>10</b>	0148	6.9	210	<b>22</b>	0648	0.4	12				
	0907	-0.2	-6		1220	5.6	171				
	W 1420	6.1	186		M 1903	0.7	21				
	2117	0.3	9								
<b>11</b>	0236	6.9	210	<b>23</b>	0036	6.2	189				
	0957	0.0	0		0734	0.4	12				
	Th 1510	5.9	180		Tu 1258	5.4	165				
	2203	0.5	15		○ 1942	0.7	21				
<b>12</b>	0324	6.7	204	<b>24</b>	0110	6.3	192				
	1048	0.2	6		0818	0.4	12				
	F 1602	5.6	171		W 1335	5.3	162				
	2250	0.6	18		2019	0.8	24				

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean lower low water which is the chart datum of soundings.

## DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# MARCUS HOOK BAR (North)

APRIL 2024

deb2119 (16 ft.)

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0130	0348	1.9F	<b>13</b>	0006	0212	1.7F	<b>25</b>	0306	0630	1.7E
M	0718	1036	1.6E	Sa	0554	1024	1.8E		1012	1206	1.3F
	1448	1630	1.1F		1254	1506	1.3F	Th	1518	1818	1.6E
	1942	2248	1.5E		1812	2130	1.6E		2200		
<b>2</b>	0224	0442	1.8F	<b>14</b>	0054	0300	1.6F	<b>26</b>		0018	1.8F
Tu	0818	1136	1.6E		0642	1118	1.7E	F	0342	0706	1.7E
●	1548	1730	1.0F	Su	1348	1606	1.1F		1100	1248	1.3F
	2054	2348	1.4E		1912	2224	1.5E		1600	1900	1.6E
									2242		
<b>3</b>	0330	0542	1.7F	<b>15</b>	0142	0348	1.4F	<b>27</b>		0100	1.9F
W	0918	1242	1.6E	M	0736	1212	1.7E	Sa	0424	0742	1.6E
	1648	1836	1.1F	●	1442	1742	1.1F		1148	1336	1.2F
	2200				2006	2318	1.5E		1642	1948	1.5E
									2330		
<b>4</b>		0054	1.5E	<b>16</b>	0236	0436	1.3F	<b>28</b>		0148	1.9F
Th	0436	0648	1.6F		0830	1306	1.6E	Su	0512	0830	1.6E
	1024	1424	1.7E	Tu	1542	1854	1.1F		1242	1424	1.2F
	1742	1948	1.2F		2106				1730	2036	1.5E
	2300										
<b>5</b>		0212	1.6E	<b>17</b>		0018	1.4E	<b>29</b>	0018	0236	1.9F
F	0542	0754	1.7F	W	0336	0536	1.1F	M	0600	0924	1.6E
	1124	1548	1.8E		0924	1400	1.6E		1330	1518	1.2F
	1836	2054	1.4F		1630	1954	1.2F		1830	2136	1.5E
					2206						
<b>6</b>	0000	0330	1.7E	<b>18</b>		0118	1.4E	<b>30</b>	0112	0330	1.8F
Sa	0642	0900	1.8F	Th	0430	0642	1.1F	Tu	0654	1024	1.6E
	1224	1642	1.9E		1018	1448	1.6E		1424	1612	1.2F
	1924	2142	1.6F		1724	2042	1.3F		1936	2236	1.5E
					2254						
<b>7</b>	0048	0448	1.9E	<b>19</b>		0236	1.5E				
Su	0736	0954	1.9F	F	0530	0842	1.2F				
	1318	1730	2.0E		1106	1536	1.6E				
	2012	2230	1.7F		1812	2130	1.4F				
					2342						
<b>8</b>	0136	0542	2.1E	<b>20</b>		0330	1.6E				
M	0830	1048	2.0F	Sa	0624	0912	1.2F				
●	1406	1812	2.0E		1200	1618	1.6E				
	2054	2312	1.8F		1854	2200	1.4F				
<b>9</b>	0224	0636	2.1E	<b>21</b>	0030	0418	1.7E				
Tu	0924	1142	1.9F	Su	0712	0930	1.3F				
	1500	1848	1.9E		1242	1648	1.6E				
	2142	2354	1.8F		1930	2200	1.4F				
<b>10</b>	0318	0730	2.1E	<b>22</b>	0106	0500	1.7E				
W	1012	1230	1.8F	M	0754	1006	1.4F				
	1548	1924	1.9E		1324	1648	1.6E				
	2230				2012	2218	1.5F				
<b>11</b>		0036	1.8F	<b>23</b>	0148	0530	1.8E				
Th	0406	0830	2.0E	Tu	0842	1042	1.4F				
	1106	1318	1.7F		1406	1712	1.6E				
	1630	2000	1.8E	○	2048	2254	1.6F				
	2318										
<b>12</b>		0124	1.8F	<b>24</b>	0224	0554	1.7E				
F	0500	0924	1.9E	W	0924	1118	1.4F				
	1200	1412	1.5F		1442	1742	1.6E				
	1724	2042	1.7E		2124	2330	1.7F				

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**DAYLIGHT SAVING TIME**  
Times ARE adjusted for DST.

# MARCUS HOOK, PENNSYLVANIA

MAY 2024

STATION ID 8540433

Times and Heights of High and Low Waters											
Day	Time		Height		Day	Time		Height			
	h.m.	ft.	cm	ft.		cm	h.m.	ft.	cm		
<b>1</b> W ☉	0055	0.9	27	<b>13</b>	0440	6.2	189	<b>25</b>	0150	6.7	204
	0618	6.1	186		1205	0.7	21		0927	0.6	18
	1356	0.7	21		M 1727	5.2	158		Sa 1427	5.1	155
	1911	5.2	158						2113	0.9	27
<b>2</b> Th	0202	0.8	24	<b>14</b>	0001	1.2	37	<b>26</b>	0230	6.7	204
	0728	6.0	183		0536	6.0	183		1012	0.6	18
	1453	0.6	18		Tu 1255	0.8	24		Su 1510	5.1	155
	2015	5.5	168		1824	5.2	158		2159	0.8	24
<b>3</b> F	0308	0.7	21	<b>15</b>	0055	1.2	37	<b>27</b>	0314	6.7	204
	0835	6.0	183		0636	5.7	174		1059	0.6	18
	1549	0.5	15		W 1344	0.8	24		M 1557	5.2	158
	2115	5.9	180		☉ 1921	5.2	158		2249	0.8	24
<b>4</b> Sa	0412	0.5	15	<b>16</b>	0150	1.1	34	<b>28</b>	0404	6.5	198
	0937	6.1	186		0735	5.6	171		1148	0.6	18
	1644	0.4	12		Th 1434	0.8	24		Tu 1651	5.3	162
	2210	6.3	192		2017	5.4	165		2345	0.8	24
<b>5</b> Su	0513	0.3	9	<b>17</b>	0247	1.1	34	<b>29</b>	0500	6.4	195
	1034	6.2	189		0833	5.5	168		1239	0.5	15
	1736	0.3	9		F 1523	0.8	24		W 1751	5.4	165
	2302	6.7	204		2109	5.6	171				
<b>6</b> M	0610	0.2	6	<b>18</b>	0343	0.9	27	<b>30</b>	0046	0.8	24
	1127	6.2	189		0928	5.4	165		0604	6.2	189
	1827	0.3	9		Sa 1610	0.7	21		Th 1331	0.5	15
	2350	7.0	213		2158	5.8	177		☉ 1853	5.6	171
<b>7</b> Tu	0705	0.1	3	<b>19</b>	0438	0.8	24	<b>31</b>	0149	0.8	24
	1218	6.2	189		1019	5.4	165		0710	6.0	183
	1916	0.4	12		Su 1656	0.7	21		F 1425	0.4	12
					2243	6.1	186		1953	5.9	180
<b>8</b> W ●	0037	7.1	216	<b>20</b>	0531	0.6	18				
	0758	0.1	3		1105	5.4	165				
	1308	6.1	186		M 1741	0.7	21				
	2004	0.5	15		2324	6.3	192				
<b>9</b> Th	0124	7.1	216	<b>21</b>	0621	0.6	18				
	0849	0.1	3		1148	5.3	162				
	1358	5.9	180		Tu 1824	0.8	24				
	2051	0.7	21								
<b>10</b> F	0211	7.0	213	<b>22</b>	0002	6.4	195				
	0938	0.3	9		0709	0.5	15				
	1448	5.7	174		W 1229	5.2	158				
	2137	0.8	24		1906	0.8	24				
<b>11</b> Sa	0259	6.8	207	<b>23</b>	0038	6.5	198				
	1027	0.4	12		0756	0.5	15				
	1539	5.6	171		Th 1308	5.2	158				
	2223	1.0	30		○ 1949	0.9	27				
<b>12</b> Su	0348	6.5	198	<b>24</b>	0114	6.6	201				
	1116	0.6	18		0842	0.5	15				
	1632	5.4	165		F 1347	5.1	155				
	2311	1.1	34		2031	0.9	27				

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean low water which is the chart datum of soundings.

## DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# MARCUS HOOK BAR (North)

MAY 2024

deb2119 (16 ft.)

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True								
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current		
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	
<b>1</b>	0212	0424	1.7F	<b>13</b>	0024	0224	1.5F	<b>25</b>	0324	0712	1.7E	
W	0754	1118	1.7E	M	0606	1048	1.6E		1042	1230	1.2F	
●	1518	1706	1.2F		1324	1530	1.1F	Sa	1542	1842	1.5E	
<b>2</b>	0312	0524	1.6F		1842	2154	1.4E		2224			
Th	0900	1224	1.7E	<b>14</b>	0112	0312	1.4F	<b>26</b>		0036	1.9F	
	1612	1812	1.3F	Tu	0700	1136	1.6E	Su	0406	0748	1.7E	
	2142				1412	1624	1.1F		1130	1318	1.2F	
					1942	2248	1.4E		1630	1936	1.5E	
		0048	1.6E						2312			
<b>3</b>	0418	0624	1.6F	<b>15</b>	0206	0400	1.3F	<b>27</b>		0124	1.9F	
F	1000	1336	1.7E	W	0748	1206	1.6E	M	0454	0836	1.7E	
	1706	1918	1.4F	●	1500	1806	1.1F		1218	1406	1.3F	
	2236				2036	2336	1.5E		1724	2030	1.5E	
<b>4</b>		0200	1.7E	<b>16</b>	0300	0454	1.2F	<b>28</b>		0006	0218	1.9F
Sa	0524	0736	1.7F	Th	0842	1236	1.5E	Tu	0542	0924	1.7E	
	1106	1454	1.8E		1548	1906	1.2F		1306	1500	1.3F	
	1800	2024	1.5F		2124				1824	2130	1.5E	
	2330											
<b>5</b>		0318	1.9E	<b>17</b>		0030	1.5E	<b>29</b>	0100	0312	1.8F	
Su	0624	0842	1.7F	F	0400	0554	1.1F	W	0636	1018	1.7E	
	1200	1606	1.8E		0936	1312	1.5E		1400	1554	1.4F	
	1854	2112	1.7F		1636	1954	1.2F		1918	2230	1.6E	
					2218							
<b>6</b>	0024	0430	2.0E	<b>18</b>		0124	1.6E	<b>30</b>	0200	0406	1.7F	
M	0718	0942	1.8F	Sa	0454	0700	1.2F	Th	0736	1106	1.7E	
	1254	1700	1.9E		1030	1348	1.5E	●	1448	1648	1.4F	
	1942	2200	1.8F		1724	2030	1.3F		2018	2330	1.7E	
					2306							
<b>7</b>	0112	0536	2.0E	<b>19</b>		0224	1.7E	<b>31</b>	0300	0506	1.7F	
Tu	0812	1036	1.8F	Su	0548	0806	1.2F	F	0842	1200	1.7E	
	1342	1736	1.9E		1124	1442	1.5E		1542	1742	1.4F	
	2030	2242	1.8F		1812	2030	1.4F		2118			
					2348							
<b>8</b>	0206	0630	2.0E	<b>20</b>		0324	1.7E					
W	0906	1124	1.7F	M	0642	0900	1.3F					
●	1430	1812	1.8E		1212	1518	1.5E					
	2112	2330	1.8F		1854	2106	1.5F					
<b>9</b>	0254	0724	2.0E	<b>21</b>	0036	0424	1.8E					
Th	0954	1212	1.6F	Tu	0730	0936	1.3F					
	1518	1848	1.7E		1254	1554	1.6E					
	2200				1930	2142	1.6F					
<b>10</b>		0012	1.8F	<b>22</b>	0118	0512	1.8E					
F	0342	0818	1.9E	W	0818	1018	1.3F					
	1048	1300	1.4F		1336	1636	1.5E					
	1606	1924	1.6E		2012	2224	1.7F					
	2248											
<b>11</b>		0054	1.7F	<b>23</b>	0200	0600	1.8E					
Sa	0430	0912	1.8E	Th	0906	1100	1.2F					
	1142	1348	1.3F		1418	1718	1.5E					
	1654	2006	1.6E	○	2054	2306	1.8F					
	2336											
<b>12</b>		0142	1.6F	<b>24</b>	0242	0636	1.7E					
Su	0518	1006	1.7E	F	0954	1142	1.2F					
	1230	1442	1.2F		1500	1754	1.5E					
	1748	2100	1.5E		2136	2348	1.9F					

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**DAYLIGHT SAVING TIME**  
Times ARE adjusted for DST.



# MARCUS HOOK, PENNSYLVANIA

JUNE 2024

STATION ID 8540433

## Times and Heights of High and Low Waters

	Time		Height			Time		Height					
	Day	h.m.	ft.	cm		Day	h.m.	ft.	cm				
<b>1</b> Sa	0252	0.7	21		<b>13</b> Th	0020	1.2	37		<b>25</b> Tu	0303	6.7	204
	0814	5.9	180			0557	5.7	174			1039	0.3	9
	1520	0.4	12			1302	0.8	24			1543	5.5	168
	2052	6.2	189			1842	5.3	162			2239	0.6	18
<b>2</b> Su	0355	0.6	18		<b>14</b> F	0113	1.1	34		<b>26</b> W	0354	6.6	201
	0915	5.9	180			0653	5.4	165			1126	0.3	9
	1614	0.4	12			1347	0.8	24			1636	5.6	171
	2148	6.6	201			1935	5.4	165			2335	0.6	18
<b>3</b> M	0456	0.4	12		<b>15</b> Sa	0208	1.1	34		<b>27</b> Th	0449	6.4	195
	1013	5.9	180			0750	5.3	162			1215	0.3	9
	1708	0.4	12			1433	0.8	24			1733	5.8	177
	2240	6.8	207			2026	5.6	171					
<b>4</b> Tu	0553	0.3	9		<b>16</b> Su	0306	1.0	30		<b>28</b> F	0033	0.7	21
	1107	5.9	180			0845	5.1	155			0549	6.1	186
	1800	0.5	15			1521	0.8	24			1306	0.3	9
	2329	7.0	213			2116	5.8	177			1832	6.0	183
<b>5</b> W	0648	0.3	9		<b>17</b> M	0403	0.9	27		<b>29</b> Sa	0134	0.7	21
	1158	5.8	177			0938	5.0	152			0652	5.8	177
	1850	0.6	18			1609	0.8	24			1358	0.3	9
						2203	6.0	183			1931	6.2	189
<b>6</b> Th	0016	7.0	213		<b>18</b> Tu	0459	0.8	24		<b>30</b> Su	0235	0.6	18
	0740	0.3	9			1028	5.0	152			0754	5.7	174
	1248	5.8	177			1657	0.8	24			1452	0.3	9
	1939	0.7	21			2247	6.3	192			2029	6.4	195
<b>7</b> F	0103	7.0	213		<b>19</b> W	0552	0.7	21					
	0830	0.3	9			1114	5.0	152					
	1337	5.7	174			1745	0.8	24					
	2027	0.8	24			2328	6.5	198					
<b>8</b> Sa	0150	6.9	210		<b>20</b> Th	0643	0.6	18					
	0918	0.4	12			1158	5.0	152					
	1427	5.5	168			1833	0.8	24					
	2113	1.0	30										
<b>9</b> Su	0236	6.7	204		<b>21</b> F	0009	6.6	201					
	1004	0.5	15			0733	0.5	15					
	1516	5.4	165			1241	5.0	152					
	2157	1.1	34			1921	0.8	24					
<b>10</b> M	0323	6.5	198		<b>22</b> Sa	0049	6.7	204					
	1049	0.6	18			0821	0.5	15					
	1605	5.3	162			1323	5.1	155					
	2242	1.1	34			2010	0.7	21					
<b>11</b> Tu	0412	6.2	189		<b>23</b> Su	0131	6.8	207					
	1133	0.7	21			0907	0.4	12					
	1656	5.3	162			1408	5.2	158					
	2329	1.2	37			2058	0.7	21					
<b>12</b> W	0503	5.9	180		<b>24</b> M	0216	6.8	207					
	1217	0.7	21			0953	0.4	12					
	1749	5.3	162			1454	5.3	162					
						2147	0.6	18					

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean lower low water which is the chart datum of soundings.

## DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# MARCUS HOOK BAR (North)

**JUNE 2024**

**deb2119 (16 ft.)**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>		0030	1.7E	<b>13</b>	0136	0330	1.3F	<b>25</b>		0106	1.9F
Sa	0400	0612	1.6F	Th	0706	1030	1.6E	Tu	0436	0842	1.8E
	0942	1300	1.7E		1412	1612	1.2F		1154	1354	1.4F
	1636	1848	1.5F		1954	2254	1.6E		1718	2030	1.6E
	2212								2354		
<b>2</b>		0148	1.8E	<b>14</b>	0224	0424	1.3F	<b>26</b>		0200	1.9F
Su	0506	0718	1.6F		0800	1112	1.6E	W	0530	0918	1.8E
	1042	1412	1.7E	F	1500	1700	1.2F		1242	1442	1.5F
	1730	1954	1.6F	o	2042	2342	1.6E		1806	2130	1.7E
	2306										
<b>3</b>		0312	1.9E	<b>15</b>	0318	0518	1.2F	<b>27</b>		0254	1.8F
M	0606	0836	1.6F		0854	1200	1.6E	Th	0624	1006	1.8E
	1136	1518	1.8E	Sa	1548	1748	1.3F		1330	1530	1.6F
	1824	2048	1.6F		2130				1900	2224	1.8E
<b>4</b>		0424	1.9E	<b>16</b>		0036	1.7E	<b>28</b>		0348	1.8F
Tu	0700	0936	1.6F	Su	0418	0618	1.2F	F	0142	0724	1.8E
	1230	1624	1.8E		0954	1248	1.5E	o	0724	1054	1.8E
	1912	2136	1.7F		1636	1842	1.3F		1418	1624	1.6F
					2224				1954	2318	1.8E
<b>5</b>		0530	2.0E	<b>17</b>		0130	1.7E	<b>29</b>		0448	1.7F
W	0054	0754	1.6F	M	0518	0718	1.2F	Sa	0242	0818	1.8E
	0754	1030	1.6F		1042	1336	1.5E		0818	1142	1.8E
	1318	1712	1.7E		1724	1930	1.4F		1512	1718	1.6F
	2000	2224	1.7F		2312				2048		
<b>6</b>		0624	2.0E	<b>18</b>		0236	1.7E	<b>30</b>		0024	1.8E
Th	0142	0848	1.5F	Tu	0612	0818	1.1F	Su	0342	0548	1.6F
	0848	1118	1.5F		1136	1424	1.5E		0918	1236	1.8E
	1406	1748	1.7E		1812	2024	1.6F		1606	1818	1.5F
o	2048	2306	1.7F						2148		
<b>7</b>		0718	1.9E	<b>19</b>		0406	1.7E				
F	0236	0942	1.4F	W	0712	0912	1.1F				
	0942	1212	1.4F		1224	1518	1.5E				
	1454	1824	1.6E		1854	2112	1.7F				
	2136	2342	1.6F								
<b>8</b>		0806	1.8E	<b>20</b>		0512	1.8E				
Sa	0318	1030	1.3F	Th	0800	0954	1.1F				
	1030	1254	1.3F		1306	1606	1.5E				
	1542	1900	1.5E		1942	2154	1.8F				
	2218										
<b>9</b>		0030	1.6F	<b>21</b>		0612	1.8E				
Su	0406	0854	1.7E	F	0136	0854	1.1F				
	1118	1336	1.2F		0854	1042	1.1F				
	1636	1942	1.4E		1354	1654	1.5E				
	2306				2030	2242	1.9F				
<b>10</b>		0112	1.5F	<b>22</b>		0654	1.8E				
M	0448	0936	1.6E	Sa	0218	0936	1.2F				
	1206	1412	1.2F		0936	1130	1.2F				
	1724	2030	1.4E		1442	1748	1.5E				
	2354			o	2118	2330	1.9F				
<b>11</b>		0154	1.4F	<b>23</b>		0736	1.8E				
Tu	0530	1006	1.6E	Su	0306	1024	1.2F				
	1248	1454	1.2F		1024	1212	1.2F				
	1812	2118	1.4E		1530	1836	1.5E				
					2206						
<b>12</b>		0242	1.4F	<b>24</b>		0018	1.9F				
W	0042	0618	1.6E	M	0348	0812	1.8E				
	0618	1006	1.6E		1112	1300	1.3F				
	1330	1530	1.2F		1624	1936	1.5E				
	1906	2206	1.5E		2300						

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

## DAYLIGHT SAVING TIME

**Times ARE adjusted for DST.**

# MARCUS HOOK, PENNSYLVANIA

JULY 2024

STATION ID 8540433

## Times and Heights of High and Low Waters

Day	Time		Height		Day	Time		Height		Day	Time		Height					
	h.m.	ft.	cm	ft.		cm	h.m.	ft.	cm		h.m.	ft.	cm	h.m.	ft.	cm		
<b>1</b> M	0337	0.6	18	<b>13</b> Sa ☉	0036	1.1	34	<b>25</b> Th	0341	6.6	201	M	0855	5.6	171			
	1547	0.4	12		0608	5.3	162		1101	0.1	3		1547	0.4	12	0720	5.7	168
	2126	6.6	201		1257	0.7	21		1616	6.1	186		2126	6.6	201	0855	5.6	171
					1846	5.5	168		2320	0.5	15					1547	0.4	12
<b>2</b> Tu	0438	0.5	15	<b>14</b> Su	0130	1.1	34	<b>26</b> F	0434	6.3	192	W	0954	5.5	168			
	1642	0.5	15		0703	5.1	155		1148	0.2	6		0954	5.5	168	1642	0.5	15
	2220	6.7	204		1340	0.8	24		1710	6.2	189		2220	6.7	204	1642	0.5	15
					1936	5.6	171									1642	0.5	15
<b>3</b> W	0535	0.4	12	<b>15</b> M	0227	1.1	34	<b>27</b> Sa	0018	0.5	15	Th	1048	5.5	168			
	1736	0.6	18		0759	4.9	149		0532	6.0	183		1048	5.5	168	1736	0.6	18
	2311	6.8	207		1427	0.8	24		1808	6.3	192		2311	6.8	207	1736	0.6	18
					2027	5.8	177									1736	0.6	18
<b>4</b> Th	0630	0.4	12	<b>16</b> Tu	0327	1.0	30	<b>28</b> Su ☉	0117	0.6	18	F	1140	5.5	168			
	1827	0.7	21		0855	4.8	146		0632	5.7	174		1140	5.5	168	1827	0.7	21
	2359	6.8	207		1520	0.8	24		1331	0.4	12		2359	6.8	207	1827	0.7	21
					2119	6.0	183		1907	6.3	192					1827	0.7	21
<b>5</b> F ●	0722	0.4	12	<b>17</b> W	0426	0.9	27	<b>29</b> M	0217	0.7	21	Tu	1229	5.5	168			
	1917	0.8	24		0950	4.8	146		0734	5.5	168		1229	5.5	168	1917	0.8	24
					1615	0.8	24		1425	0.5	15					1917	0.8	24
					2208	6.2	189		2007	6.4	195					1917	0.8	24
<b>6</b> Sa	0045	6.8	207	<b>18</b> Th	0523	0.8	24	<b>30</b> Tu	0319	0.7	21	W	0810	0.4	12			
	1318	5.5	168		1040	4.8	146		0836	5.4	165		0810	0.4	12	1318	5.5	168
	2005	0.9	27		1710	0.8	24		1522	0.6	18		2005	0.9	27	1318	5.5	168
					2256	6.5	198		2106	6.4	195					1318	5.5	168
<b>7</b> Su	0131	6.7	204	<b>19</b> F	0616	0.6	18	<b>31</b> W	0419	0.6	18	Th	0855	0.5	15			
	1405	5.4	165		1128	5.0	152		0936	5.3	162		0855	0.5	15	1405	5.4	165
	2050	0.9	27		1804	0.7	21		1619	0.6	18		2050	0.9	27	1405	5.4	165
					2342	6.7	204		2202	6.5	198					1405	5.4	165
<b>8</b> M	0215	6.5	198	<b>20</b> Sa	0707	0.5	15	F	0707	0.5	15	Su	0938	0.6	18			
	1452	5.4	165		1214	5.1	155		0936	5.3	162		0938	0.6	18	1452	5.4	165
	2133	1.0	30		1858	0.6	18		1619	0.6	18		2133	1.0	30	1452	5.4	165
									2202	6.5	198					1452	5.4	165
<b>9</b> Tu	0259	6.3	192	<b>21</b> Su ○	0027	6.8	207	<b>31</b> W	0419	0.6	18	Th	1018	0.6	18			
	1537	5.4	165		0756	0.4	12		0936	5.3	162		1018	0.6	18	1537	5.4	165
	2215	1.1	34		1300	5.3	162		1619	0.6	18		2215	1.1	34	1537	5.4	165
					1950	0.5	15		2202	6.5	198					1537	5.4	165
<b>10</b> W	0343	6.1	186	<b>22</b> M	0113	6.9	210	F	0217	0.7	21	Su	1058	0.7	21			
	1622	5.4	165		0843	0.3	9		0734	5.5	168		1058	0.7	21	1622	5.4	165
	2259	1.1	34		1347	5.5	168		1425	0.5	15		2259	1.1	34	1622	5.4	165
					2042	0.4	12		2007	6.4	195					1622	5.4	165
<b>11</b> Th	0428	5.9	180	<b>23</b> Tu	0201	6.9	210	F	0419	0.6	18	Su	1137	0.7	21			
	1708	5.4	165		0929	0.2	6		0936	5.3	162		1137	0.7	21	1708	5.4	165
	2345	1.1	34		1435	5.8	177		1619	0.6	18		2345	1.1	34	1708	5.4	165
					2133	0.4	12		2202	6.5	198					1708	5.4	165
<b>12</b> F	0516	5.6	171	<b>24</b> W	0250	6.8	207	Su	0419	0.6	18	Th	1216	0.7	21			
	1756	5.4	165		1014	0.1	3		0936	5.3	162		1216	0.7	21	1756	5.4	165
					1524	6.0	183		1619	0.6	18					1756	5.4	165
					2226	0.4	12		2202	6.5	198					1756	5.4	165

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean low water which is the chart datum of soundings.

## DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# MARCUS HOOK BAR (North)

**JULY 2024**

**deb2119 (16 ft.)**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>		0142	1.8E	<b>13</b>	0148	0348	1.4F	<b>25</b>		0148	1.9F
M	0442	0706	1.5F		0718	1024	1.6E	Th	0512	0900	1.9E
	1018	1336	1.7E	Sa	1412	1612	1.4F		1218	1418	1.7F
	1700	1924	1.5F	●	1954	2300	1.7E		1748	2118	1.9E
<b>2</b>		0312	1.8E	<b>14</b>	0248	0442	1.3F	<b>26</b>	0030	0236	1.9F
Tu	0548	0830	1.5F		0812	1112	1.6E		0606	0948	1.9E
	1112	1442	1.7E	Su	1454	1706	1.5F	F	1300	1506	1.7F
	1754	2030	1.6F		2048	2348	1.7E		1836	2218	1.9E
	2342										
<b>3</b>		0418	1.9E	<b>15</b>	0342	0536	1.2F	<b>27</b>	0124	0336	1.8F
W	0648	0936	1.4F		0906	1200	1.6E		0700	1030	1.9E
	1206	1554	1.6E	M	1548	1754	1.5F	Sa	1354	1600	1.7F
	1848	2124	1.6F		2142				1930	2318	1.9E
<b>4</b>		0518	1.9E	<b>16</b>		0048	1.6E	<b>28</b>	0224	0430	1.7F
Th	0036	0742	1.4F		0448	0636	1.0F		0800	1118	1.8E
	0742	1030	1.4F	Tu	1000	1254	1.5E		1442	1648	1.6F
	1254	1700	1.6E		1636	1848	1.5F	●	2030		
	1936	2206	1.6F		2236						
<b>5</b>		0612	2.0E	<b>17</b>		0148	1.6E	<b>29</b>		0018	1.8E
F	0836	1124	1.3F		0548	0736	1.0F		0324	0536	1.5F
●	1348	1742	1.6E	W	1054	1348	1.5E	M	0854	1206	1.8E
	2024	2242	1.6F		1730	1948	1.6F		1536	1748	1.6F
					2330				2130		
<b>6</b>		0700	1.9E	<b>18</b>		0354	1.7E	<b>30</b>		0148	1.8E
Sa	0924	1212	1.3F		0648	0842	1.0F		0424	0706	1.3F
	1436	1824	1.5E	Th	1148	1442	1.4E	Tu	0954	1306	1.7E
	2112	2318	1.5F		1824	2036	1.7F		1636	1854	1.5F
<b>7</b>		0742	1.8E	<b>19</b>	0024	0500	1.8E	<b>31</b>		0300	1.8E
Su	1006	1248	1.2F		0742	0936	1.0F		0530	0830	1.3F
	1524	1848	1.4E	F	1242	1542	1.4E	W	1048	1412	1.6E
	2154				1918	2130	1.8F		1730	2018	1.5F
<b>8</b>		0000	1.4F	<b>20</b>	0112	0554	1.8E		2324		
M	0336	0824	1.7E		0830	1024	1.1F				
	1048	1312	1.2F	Sa	1336	1642	1.5E				
	1612	1918	1.4E		2006	2218	1.9F				
	2242										
<b>9</b>		0042	1.4F	<b>21</b>	0200	0636	1.9E				
Tu	0412	0854	1.6E		0912	1112	1.3F				
	1130	1336	1.2F	Su	1430	1742	1.5E				
	1654	1954	1.4E		2100	2312	1.9F				
	2330			○							
<b>10</b>		0124	1.4F	<b>22</b>	0242	0718	1.9E				
W	0454	0824	1.6E		1000	1200	1.4F				
	1212	1412	1.3F	M	1518	1842	1.6E				
	1736	2036	1.5E		2154						
<b>11</b>		0212	1.4F	<b>23</b>		0000	1.9F				
Th	0012	0542	1.6E		0330	0754	1.9E				
	0542	0854	1.6E	Tu	1042	1242	1.5F				
	1248	1448	1.3F		1606	1936	1.7E				
	1824	2124	1.6E		2242						
<b>12</b>		0300	1.4F	<b>24</b>		0054	1.9F				
F	0100	0630	1.6E		0424	0824	1.9E				
	0630	0936	1.6E	W	1130	1330	1.6F				
	1330	1530	1.4F		1654	2030	1.8E				
	1906	2212	1.7E		2336						

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

## DAYLIGHT SAVING TIME

Times ARE adjusted for DST.

# MARCUS HOOK, PENNSYLVANIA

AUGUST 2024

STATION ID 8540433

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b> Th	0516	0.6	18	<b>13</b> Tu	0152	1.2	37	<b>25</b> Su	0000	0.6	18
	1032	5.4	165		0712	4.8	146		0512	5.9	180
	1714	0.7	21		1336	0.9	27		1211	0.4	12
	2254	6.6	201		1936	5.9	180		1741	6.5	198
<b>2</b> F	0610	0.5	15	<b>14</b> W	0253	1.2	37	<b>26</b> M	0058	0.7	21
	1123	5.4	165		0812	4.7	143		0612	5.6	171
	1806	0.7	21		1434	0.9	27		1305	0.6	18
	2343	6.6	201		2034	6.0	183		1842	6.4	195
<b>3</b> Sa	0700	0.5	15	<b>15</b> Th	0354	1.1	34	<b>27</b> Tu	0157	0.8	24
	1212	5.5	168		0912	4.7	143		0715	5.4	165
	1856	0.8	24		1538	0.9	27		1400	0.7	21
					2131	6.3	192		1944	6.3	192
<b>4</b> Su	0028	6.6	201	<b>16</b> F	0453	0.9	27	<b>28</b> W	0258	0.8	24
	0746	0.5	15		1008	4.9	149		0817	5.3	162
	1258	5.6	171		1641	0.8	24		1458	0.8	24
	1943	0.8	24		2226	6.5	198		2045	6.3	192
<b>5</b> M	0112	6.5	198	<b>17</b> Sa	0548	0.7	21	<b>29</b> Th	0357	0.8	24
	0829	0.5	15		1100	5.2	158		0918	5.3	162
	1343	5.6	171		1740	0.6	18		1556	0.8	24
	2027	0.9	27		2317	6.8	207		2144	6.4	195
<b>6</b> Tu	0154	6.4	195	<b>18</b> Su	0639	0.5	15	<b>30</b> F	0453	0.7	21
	0908	0.6	18		1148	5.5	168		1014	5.4	165
	1425	5.6	171		1837	0.5	15		1652	0.8	24
	2109	1.0	30						2238	6.4	195
<b>7</b> W	0235	6.2	189	<b>19</b> M	0006	6.9	210	<b>31</b> Sa	0545	0.6	18
	0945	0.7	21		0729	0.4	12		1106	5.6	171
	1506	5.6	171		1236	5.8	177		1744	0.8	24
	2150	1.0	30		1932	0.4	12		2326	6.5	198
<b>8</b> Th	0315	6.0	183	<b>20</b> Tu	0054	7.0	213		Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.		
	1020	0.7	21		0816	0.2	6				
	1545	5.7	174		1324	6.1	186				
	2230	1.1	34		2025	0.3	9				
<b>9</b> F	0355	5.8	177	<b>21</b> W	0143	7.0	213				
	1054	0.8	24		0902	0.2	6				
	1624	5.7	174		1412	6.4	195				
	2313	1.1	34		2117	0.2	6				
<b>10</b> Sa	0436	5.5	168	<b>22</b> Th	0232	6.8	207				
	1128	0.8	24		0947	0.1	3				
	1705	5.7	174		1501	6.6	201				
					2209	0.3	9				
<b>11</b> Su	0001	1.1	34	<b>23</b> F	0323	6.6	201		<b>DAYLIGHT SAVING TIME</b>  Times ARE adjusted for DST.		
	0521	5.2	158		1033	0.2	6				
	1204	0.8	24		1551	6.6	201				
	1750	5.7	174		2303	0.4	12				
<b>12</b> M	0054	1.2	37	<b>24</b> Sa	0416	6.3	192				
	0614	5.0	152		1121	0.3	9				
	1246	0.8	24		1644	6.6	201				
	1840	5.8	177								

# MARCUS HOOK BAR (North)

**AUGUST 2024**

**deb2119 (16 ft.)**

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0630	0406	1.9E	<b>13</b>	0312	0500	1.1F	<b>25</b>	0106	0318	1.7F
Th	1142	0930	1.3F	Tu	0824	1118	1.6E	Su	0642	1006	1.9E
	1824	1548	1.6E		1500	1718	1.7F		1324	1530	1.8F
		2124	1.5F		2100				1912	2312	1.9E
<b>2</b>	0018	0500	1.9E	<b>14</b>		0012	1.6E	<b>26</b>	0206	0412	1.5F
F	0730	1024	1.3F	W	0418	0600	0.9F	M	0736	1054	1.8E
	1242	1648	1.6E		0918	1212	1.5E		1418	1624	1.7F
	1918	2206	1.5F		1554	1812	1.6F	●	2006		
<b>3</b>	0106	0548	1.9E	<b>15</b>		0118	1.6E	<b>27</b>		0024	1.8E
Sa	0818	1112	1.4F	Th	0524	0706	0.9F	Tu	0306	0518	1.3F
	1330	1742	1.5E		1024	1312	1.4E		0830	1142	1.7E
	2006	2230	1.4F		1654	1912	1.6F		1512	1718	1.5F
<b>4</b>	0148	0636	1.9E		2300				2112		
Su	0900	1154	1.3F	<b>16</b>		0330	1.6E	<b>28</b>		0136	1.8E
	1418	1818	1.5E	F	0624	0812	0.9F	W	0412	0712	1.2F
●	2048	2300	1.4F		1124	1412	1.4E		0930	1242	1.6E
<b>5</b>	0230	0712	1.8E		1754	2012	1.7F		1606	1830	1.4F
M	0942	1230	1.3F	<b>17</b>		0436	1.7E	<b>29</b>		0242	1.8E
	1500	1842	1.5E	Sa	0712	0912	1.1F	Th	0512	0818	1.2F
	2136	2336	1.4F		1224	1524	1.4E		1030	1406	1.5E
<b>6</b>	0306	0748	1.6E		1854	2106	1.8F		1706	2018	1.4F
Tu	1018	1230	1.3F	<b>18</b>		0042	1.9E	<b>30</b>		0342	1.8E
	1542	1854	1.5E	Su	0800	1006	1.3F	F	0612	0918	1.3F
	2218				1318	1636	1.6E		1130	1530	1.5E
<b>7</b>		0018	1.4F		1948	2200	1.8F		1806	2118	1.4F
W	0348	0718	1.6E	<b>19</b>		0136	1.9E	<b>31</b>		0436	1.9E
	1054	1254	1.3F	M	0848	1054	1.5F	Sa	0706	1006	1.4F
	1618	1924	1.5E		1406	1742	1.7E		1224	1630	1.6E
	2300			○	2042	2254	1.9F		1854	2206	1.4F
<b>8</b>		0100	1.5F	<b>20</b>		0224	2.0E				
Th	0424	0736	1.6E	Tu	0930	1136	1.6F				
	1130	1330	1.4F		1454	1836	1.8E				
	1700	2000	1.6E		2136	2348	2.0F				
	2342			<b>21</b>		0312	2.0E				
<b>9</b>		0142	1.5F	W	1012	1224	1.7F				
F	0506	0812	1.6E		1542	1924	1.9E				
	1206	1406	1.5F	<b>22</b>		0406	2.0F				
	1736	2042	1.7E	Th	1100	1306	1.8F				
<b>10</b>		0230	1.5F		1630	2018	2.0E				
Sa	0030	0230	1.5F	<b>23</b>		0130	2.0F				
	0554	0854	1.7E	F	0454	0836	2.0E				
	1248	1448	1.6F		1148	1354	1.8F				
	1818	2130	1.7E		1718	2112	2.0E				
<b>11</b>		0318	1.4F	<b>24</b>		0012	1.9F				
Su	0118	0318	1.4F	Sa	0548	0918	1.9E				
	0636	0942	1.6E		1236	1442	1.8F				
	1324	1536	1.7F		1812	2212	1.9E				
	1906	2218	1.7E								
<b>12</b>		0406	1.3F								
M	0212	0406	1.3F								
●	0730	1030	1.6E								
	1412	1624	1.7F								
	2000	2312	1.6E								

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**DAYLIGHT SAVING TIME**  
Times ARE adjusted for DST.

# MARCUS HOOK, PENNSYLVANIA

SEPTEMBER 2024

STATION ID 8540433

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b> Su	0633	0.6	18	<b>13</b> F	0324	1.1	34	<b>25</b> W	0135	0.9	27
	1153	5.7	174		0837	4.9	149		0654	5.3	162
	1833	0.8	24		1510	0.9	27		1335	0.9	27
					2058	6.3	192		1919	6.2	189
<b>2</b> M	0010	6.5	198	<b>14</b> Sa	0422	0.9	27	<b>26</b> Th	0233	0.9	27
	0717	0.6	18		0938	5.1	155		0756	5.3	162
	1236	5.8	177		1617	0.8	24		1433	1.0	30
	1920	0.8	24		2158	6.5	198		2022	6.2	189
<b>3</b> Tu	0051	6.4	195	<b>15</b> Su	0517	0.7	21	<b>27</b> F	0330	0.8	24
	0757	0.6	18		1033	5.5	168		0857	5.3	162
	1318	5.9	180		1719	0.6	18		1531	0.9	27
●	2004	0.9	27		2253	6.8	207		2122	6.2	189
<b>4</b> W	0131	6.3	192	<b>16</b> M	0609	0.5	15	<b>28</b> Sa	0425	0.7	21
	0835	0.7	21		1123	6.0	183		0953	5.5	168
	1357	6.0	183		1817	0.4	12		1627	0.8	24
	2046	0.9	27		2343	6.9	210		2215	6.2	189
<b>5</b> Th	0210	6.1	186	<b>17</b> Tu	0658	0.3	9	<b>29</b> Su	0514	0.6	18
	0910	0.8	24		1211	6.4	195		1044	5.7	174
	1434	6.0	183		1913	0.3	9		1720	0.8	24
	2126	1.0	30						2303	6.3	192
<b>6</b> F	0247	5.9	180	<b>18</b> W	0033	7.0	213	<b>30</b> M	0600	0.6	18
	0943	0.9	27		0746	0.2	6		1129	5.9	180
	1508	6.0	183		1259	6.7	204		1809	0.7	21
	2205	1.0	30	○	2007	0.2	6		2347	6.3	192
<b>7</b> Sa	0323	5.7	174	<b>19</b> Th	0122	6.9	210				
	1013	0.9	27		0833	0.2	6				
	1541	6.0	183		1347	6.9	210				
	2247	1.1	34		2059	0.2	6				
<b>8</b> Su	0358	5.4	165	<b>20</b> F	0212	6.7	204				
	1043	0.9	27		0919	0.3	9				
	1614	6.0	183		1436	7.0	213				
	2332	1.2	37		2152	0.3	9				
<b>9</b> M	0437	5.2	158	<b>21</b> Sa	0302	6.5	198				
	1116	0.9	27		1005	0.4	12				
	1654	6.0	183		1525	7.0	213				
					2245	0.4	12				
<b>10</b> Tu	0024	1.3	40	<b>22</b> Su	0355	6.2	189				
	0526	5.0	152		1053	0.5	15				
	1200	0.9	27		1618	6.8	207				
	1745	6.0	183		2340	0.6	18				
<b>11</b> W	0121	1.3	40	<b>23</b> M	0451	5.8	177				
	0626	4.8	146		1144	0.7	21				
	1255	1.0	30		1714	6.6	201				
●	1847	6.0	183								
<b>12</b> Th	0222	1.2	37	<b>24</b> Tu	0037	0.8	24				
	0733	4.7	143		0551	5.5	168				
	1401	1.0	30		1238	0.8	24				
	1953	6.1	186	●	1815	6.4	195				

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

## DAYLIGHT SAVING TIME

Times ARE adjusted  
for DST.

# MARCUS HOOK BAR (North)

SEPTEMBER 2024

deb2119 (16 ft.)

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0042	0524	1.9E	<b>13</b>	0042	0042	1.5E	<b>25</b>		0012	1.8E
	0748	1054	1.4F		0454	0630	0.9F		0248	0518	1.2F
Su	1312	1718	1.6E	F	0954	1248	1.4E	W	0806	1130	1.6E
	1942	2230	1.3F		1630	1842	1.6F		1442	1654	1.4F
					2224				2042		
<b>2</b>	0124	0606	1.8E	<b>14</b>		0206	1.6E	<b>26</b>		0118	1.8E
	0830	1130	1.4F		0548	0742	1.0F		0348	0654	1.2F
M	1354	1754	1.6E	Sa	1100	1354	1.4E	Th	0906	1230	1.5E
	2030	2242	1.3F		1736	1948	1.6F		1542	1754	1.3F
					2324				2142		
<b>3</b>	0200	0636	1.7E	<b>15</b>		0354	1.7E	<b>27</b>		0218	1.8E
	0906	1154	1.3F		0642	0848	1.2F		0448	0800	1.2F
Tu	1436	1818	1.6E	Su	1200	1506	1.5E	F	1006	1354	1.5E
●	2112	2312	1.4F		1836	2048	1.7F		1642	2006	1.2F
									2236		
<b>4</b>	0242	0654	1.6E	<b>16</b>	0018	0448	1.8E	<b>28</b>		0312	1.8E
	0942	1148	1.4F		0730	0942	1.4F		0542	0854	1.3F
W	1512	1824	1.6E	M	1254	1630	1.7E	Sa	1106	1506	1.5E
	2154	2354	1.5F		1930	2142	1.8F		1742	2100	1.3F
									2324		
<b>5</b>	0318	0630	1.6E	<b>17</b>	0112	0530	1.9E	<b>29</b>		0400	1.8E
	1018	1218	1.4F		0812	1024	1.6F		0630	0942	1.4F
Th	1542	1854	1.6E	Tu	1342	1724	1.9E	Su	1200	1600	1.6E
	2236				2024	2236	1.9F		1836	2148	1.3F
<b>6</b>		0030	1.5F	<b>18</b>	0200	0612	2.0E	<b>30</b>	0012	0448	1.8E
	0400	0700	1.6E		0900	1112	1.8F		0712	1024	1.5F
F	1054	1254	1.5F	W	1430	1818	2.0E	M	1242	1648	1.7E
	1618	1924	1.7E		2118	2330	2.0F		1918	2212	1.3F
	2318			○							
<b>7</b>		0118	1.5F	<b>19</b>	0254	0648	2.0E				
	0436	0736	1.6E		0942	1154	1.8F				
Sa	1124	1336	1.7F	Th	1518	1906	2.0E				
	1700	2006	1.7E		2206						
<b>8</b>	0006	0200	1.5F	<b>20</b>		0018	2.0F				
	0518	0818	1.6E		0342	0724	2.0E				
Su	1206	1418	1.8F	F	1030	1242	1.9F				
	1742	2054	1.7E		1606	2006	2.0E				
					2300						
<b>9</b>	0054	0248	1.4F	<b>21</b>		0112	1.9F				
	0600	0906	1.6E		0430	0806	1.9E				
M	1242	1506	1.8F	Sa	1118	1330	1.9F				
	1830	2142	1.7E		1654	2106	2.0E				
					2354						
<b>10</b>	0148	0336	1.2F	<b>22</b>		0206	1.7F				
	0648	0954	1.6E		0524	0848	1.9E				
Tu	1330	1554	1.8F	Su	1206	1418	1.8F				
	1924	2236	1.6E		1748	2212	1.9E				
<b>11</b>	0248	0430	1.1F	<b>23</b>	0048	0300	1.6F				
	0742	1048	1.5E		0612	0942	1.8E				
W	1424	1642	1.8F	M	1254	1506	1.8F				
●	2024	2336	1.6E		1848	2312	1.8E				
<b>12</b>	0348	0530	0.9F	<b>24</b>	0148	0354	1.4F				
	0848	1142	1.4E		0712	1030	1.7E				
Th	1524	1742	1.7F	Tu	1348	1554	1.6F				
	2124			○	1948						

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**DAYLIGHT SAVING TIME**  
Times ARE adjusted for DST.



# MARCUS HOOK, PENNSYLVANIA

OCTOBER 2024

STATION ID 8540433

## Times and Heights of High and Low Waters

Day	Time		Height		Day	Time		Height			
	h.m.	ft.	cm	ft.		cm	h.m.	ft.	cm		
<b>1</b> Tu	0643	0.6	18	<b>13</b> Su	0351	0.8	24	<b>25</b> F	0203	0.8	24
	1211	6.1	186		0910	5.4	165		0731	5.1	155
	1856	0.7	21		1558	0.7	21		1404	0.9	27
					2131	6.4	195		1952	5.9	180
<b>2</b> W ●	0028	6.2	189	<b>14</b> M	0446	0.5	15	<b>26</b> Sa	0257	0.7	21
	0722	0.7	21		1007	5.8	177		0830	5.2	158
	1250	6.2	189		1700	0.5	15		1502	0.9	27
	1940	0.7	21		2228	6.5	198		2051	5.8	177
<b>3</b> Th	0107	6.0	183	<b>15</b> Tu	0538	0.4	12	<b>27</b> Su	0349	0.6	18
	0800	0.8	24		1058	6.3	192		0925	5.4	165
	1327	6.2	189		1759	0.3	9		1558	0.8	24
	2023	0.8	24		2321	6.6	201		2146	5.8	177
<b>4</b> F	0144	5.8	177	<b>16</b> W	0628	0.2	6	<b>28</b> M	0437	0.5	15
	0835	0.8	24		1147	6.7	204		1015	5.7	174
	1401	6.2	189		1855	0.2	6		1652	0.6	18
	2104	0.9	27						2235	5.8	177
<b>5</b> Sa	0220	5.6	171	<b>17</b> Th ○	0011	6.7	204	<b>29</b> Tu	0522	0.5	15
	0908	0.9	27		0716	0.2	6		1101	5.9	180
	1432	6.2	189		1235	7.0	213		1742	0.5	15
	2144	1.0	30		1949	0.1	3		2320	5.8	177
<b>6</b> Su	0254	5.4	165	<b>18</b> F	0100	6.6	201	<b>30</b> W	0605	0.5	15
	0938	0.9	27		0804	0.2	6		1142	6.1	186
	1502	6.2	189		1322	7.2	219		1830	0.5	15
	2226	1.1	34		2042	0.1	3				
<b>7</b> M	0327	5.2	158	<b>19</b> Sa	0150	6.4	195	<b>31</b> Th	0001	5.7	174
	1008	1.0	30		0852	0.3	9		0645	0.5	15
	1535	6.3	192		1411	7.1	216		1221	6.2	189
	2311	1.1	34		2134	0.2	6		1916	0.5	15
<b>8</b> Tu	0404	5.1	155	<b>20</b> Su	0241	6.1	186	<p>Time meridian 75° W. 0000 is midnight. 1200 is noon. Heights are referred to mean lower low water which is the chart datum of soundings.</p> <p><b>DAYLIGHT SAVING TIME</b></p> <p>Times ARE adjusted for DST.</p>			
	1044	0.9	27		0939	0.4	12				
	1615	6.2	189		1500	7.0	213				
<b>9</b> W	0002	1.2	37	<b>21</b> M	2225	0.4	12				
	0451	4.9	149		0333	5.8	177				
	1131	1.0	30		1027	0.6	18				
	1706	6.2	189		1552	6.8	207				
<b>10</b> Th ●	0057	1.2	37	<b>22</b> Tu	2319	0.6	18				
	0552	4.8	146		0428	5.5	168				
	1232	1.0	30		1117	0.8	24				
	1810	6.1	186		1647	6.5	198				
<b>11</b> F	0155	1.1	34	<b>23</b> W	0013	0.7	21				
	0701	4.8	146		0527	5.3	162				
	1341	1.0	30		1211	0.9	27				
	1921	6.1	186		1747	6.2	189				
<b>12</b> Sa	0254	1.0	30	<b>24</b> Th ●	0108	0.8	24				
	0808	5.0	152		0629	5.1	155				
	1451	0.9	27		1307	0.9	27				
	2029	6.2	189		1850	6.0	183				

# MARCUS HOOK BAR (North)

OCTOBER 2024

deb2119 (16 ft.)

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0054	0524	1.7E	<b>13</b>	0512	0112	1.6E	<b>25</b>	0048	0048	1.7E
Tu	0754	1054	1.4F	Su	0712	0712	1.2F	F	0630	0630	1.2F
	1324	1724	1.7E		1036	1336	1.5E		0848	1206	1.5E
	2006	2224	1.4F		1712	1924	1.6F		1518	1718	1.2F
					2254				2106		
<b>2</b>	0136	0554	1.6E	<b>14</b>	0236	0236	1.7E	<b>26</b>	0136	0136	1.7E
W	0830	1054	1.4F		0606	0812	1.4F	Sa	0412	0730	1.3F
●	1400	1742	1.7E	M	1130	1454	1.7E		0942	1318	1.5E
	2048	2254	1.4F		1812	2024	1.7F		1612	1924	1.1F
					2354				2200		
<b>3</b>	0218	0542	1.6E	<b>15</b>	0400	0400	1.8E	<b>27</b>	0230	0230	1.7E
Th	0906	1112	1.4F	Tu	0654	0912	1.6F	Su	0500	0818	1.3F
	1436	1754	1.7E		1224	1606	1.8E		1036	1418	1.6E
	2130	2330	1.4F		1912	2124	1.8F		1712	2030	1.2F
<b>4</b>	0254	0554	1.6E	<b>16</b>	0048	0448	1.9E	<b>28</b>	0318	0318	1.6E
F	0942	1142	1.5F	W	0742	0954	1.7F	M	0548	0906	1.4F
	1512	1824	1.7E		1312	1712	2.0E		1124	1518	1.6E
	2212				2006	2224	1.9F		1806	2112	1.3F
<b>5</b>		0006	1.4F	<b>17</b>	0142	0530	1.9E	<b>29</b>	0400	0400	1.6E
Sa	0330	0624	1.6E	Th	0830	1042	1.8F	Tu	0636	0948	1.4F
	1012	1224	1.7F	O	1400	1806	2.1E		1206	1606	1.7E
	1548	1900	1.7E		2054	2312	1.9F		1854	2142	1.3F
	2300			<b>18</b>	0230	0612	1.9E	<b>30</b>	0024	0436	1.6E
<b>6</b>		0054	1.4F	F	0918	1130	1.9F	W	0712	1000	1.4F
Su	0406	0706	1.6E		1448	1900	2.1E		1248	1654	1.7E
	1048	1306	1.8F		2148				1936	2200	1.3F
	1624	1942	1.7E	<b>19</b>	0318	0648	1.9E	<b>31</b>	0106	0442	1.6E
	2348			Sa	1000	1212	1.9F	Th	0754	1006	1.4F
<b>7</b>		0136	1.3F		1542	2000	2.0E		1330	1718	1.7E
M	0448	0748	1.6E		2242				2024	2230	1.4F
	1130	1348	1.9F	<b>20</b>	0406	0054	1.7F				
	1712	2024	1.6E	Su	1048	0736	1.8E				
<b>8</b>	0036	0224	1.2F		1636	1300	1.9F				
Tu	0530	0836	1.5E		2336	2100	1.9E				
	1212	1436	1.9F	<b>21</b>	0500	0148	1.5F				
	1754	2118	1.6E	M	1142	0824	1.8E				
<b>9</b>	0130	0312	1.1F		1730	1348	1.8F				
W	0618	0924	1.5E			2200	1.9E				
	1300	1524	1.9F	<b>22</b>	0036	0242	1.4F				
	1848	2212	1.6E	Tu	0554	0912	1.7E				
<b>10</b>	0224	0406	1.1F		1230	1436	1.7F				
Th	0718	1024	1.4E		1824	2300	1.8E				
●	1400	1618	1.8F	<b>23</b>	0130	0342	1.2F				
	1948	2312	1.6E	W	0648	1006	1.6E				
<b>11</b>	0318	0506	1.0F		1324	1530	1.5F				
F	0824	1124	1.4E		1918	2354	1.8E				
	1500	1718	1.7F	<b>24</b>	0224	0518	1.2F				
	2048			Th	0748	1112	1.6E				
<b>12</b>		0006	1.6E	●	1418	1624	1.4F				
Sa	0418	0606	1.1F		2012						
	0936	1230	1.4E								
	1606	1818	1.6F								
	2154										

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**DAYLIGHT SAVING TIME**  
Times ARE adjusted for DST.

# MARCUS HOOK, PENNSYLVANIA

NOVEMBER 2024

STATION ID 8540433

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0041	5.5	168	<b>13</b>	0407	0.1	3	<b>25</b>	0206	0.4	12
	0724	0.6	18		0934	6.4	195		0749	5.2	158
	F 1256	6.2	189		W 1641	0.1	3		M 1424	0.5	15
	● 2000	0.6	18		2159	6.1	186		2010	5.2	158
<b>2</b>	0118	5.4	165	<b>14</b>	0458	0.0	0	<b>26</b>	0254	0.3	9
	0801	0.7	21		1024	6.7	204		0840	5.4	165
	Sa 1330	6.2	189		Th 1737	0.0	0		Tu 1519	0.4	12
	2043	0.6	18		2250	6.1	186		2101	5.2	158
<b>3</b>	0154	5.2	158	<b>15</b>	0549	0.0	0	<b>27</b>	0340	0.3	9
	0737	0.7	21		1112	6.9	210		0927	5.6	171
	Su 1302	6.2	189		F 1832	-0.1	-3		W 1612	0.3	9
	2026	0.7	21		○ 2340	6.0	183		2148	5.1	155
<b>4</b>	0129	5.0	152	<b>16</b>	0638	0.1	3	<b>28</b>	0424	0.3	9
	0812	0.8	24		1200	6.9	210		1010	5.8	177
	M 1334	6.2	189		Sa 1924	0.0	0		Th 1702	0.2	6
	2109	0.8	24						2232	5.0	152
<b>5</b>	0204	4.9	149	<b>17</b>	0030	5.8	177	<b>29</b>	0507	0.3	9
	0848	0.8	24		0727	0.2	6		1050	5.9	180
	Tu 1409	6.2	189		Su 1248	6.9	210		F 1751	0.2	6
	2154	0.8	24		2015	0.1	3		2313	4.9	149
<b>6</b>	0243	4.8	146	<b>18</b>	0121	5.6	171	<b>30</b>	0550	0.3	9
	0929	0.7	21		0815	0.3	9		1127	6.0	183
	W 1452	6.2	189		M 1337	6.7	204		Sa 1837	0.2	6
	2243	0.9	27		2105	0.2	6		2352	4.8	146
<b>7</b>	0330	4.8	146	<b>19</b>	0212	5.4	165				
	1019	0.7	21		0902	0.4	12				
	Th 1544	6.1	186		Tu 1428	6.4	195				
	2335	0.8	24		2155	0.3	9				
<b>8</b>	0430	4.8	146	<b>20</b>	0305	5.2	158				
	1121	0.7	21		0951	0.6	18				
	F 1647	6.0	183		W 1521	6.2	189				
					2246	0.4	12				
<b>9</b>	0029	0.7	21	<b>21</b>	0401	5.0	152				
	0537	4.9	149		1042	0.7	21				
	Sa 1228	0.7	21		Th 1617	5.9	180				
	● 1756	5.9	180		2337	0.5	15				
<b>10</b>	0124	0.6	18	<b>22</b>	0459	4.9	149				
	0642	5.1	155		1136	0.7	21				
	Su 1334	0.6	18		F 1717	5.6	171				
	1903	5.9	180								
<b>11</b>	0220	0.4	12	<b>23</b>	0027	0.5	15				
	0744	5.5	168		0558	4.9	149				
	M 1440	0.4	12		Sa 1231	0.7	21				
	2006	5.9	180		● 1816	5.4	165				
<b>12</b>	0314	0.2	6	<b>24</b>	0117	0.5	15				
	0841	5.9	180		0655	5.0	152				
	Tu 1542	0.3	9		Su 1328	0.7	21				
	2105	6.0	183		1914	5.3	162				

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

**EASTERN  
 STANDARD TIME/  
 DAYLIGHT  
 SAVING TIME**

**Times ARE adjusted  
 for DST until  
 November 3.**

# MARCUS HOOK BAR (North)

NOVEMBER 2024

deb2119 (16 ft.)

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True							
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current	
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots
<b>1</b>	0148	0454	1.6E	<b>13</b>	0154	0154	1.8E	<b>25</b>	0000	0000	1.5E
F	0830	1036	1.6F	W	0524	0736	1.6F	M	0312	0636	1.2F
●	1406	1742	1.7E		1054	1454	1.9E		0854	1212	1.6E
	2106	2306	1.3F		1748	2012	1.8F		1536	1748	1.1F
					2324				2112		
<b>2</b>	0224	0524	1.5E	<b>14</b>	0612	0300	1.8E	<b>26</b>	0400	0036	1.5E
	0906	1112	1.7F	Th	1148	0830	1.8F	Tu	0942	0718	1.3F
Sa	1442	1812	1.7E		1848	1600	2.0E		1630	1312	1.6E
	2154	2348	1.3F			2106	1.8F		2206	1918	1.2F
<b>3</b>	0206	0500	1.5E	<b>15</b>	0018	0354	1.8E	<b>27</b>	0448	0118	1.5E
	0842	1054	1.8F	0700	0918	1.8F		W	1030	0730	1.3F
Su	1424	1748	1.7E	F	1236	1700	2.0E		1724	1406	1.7E
	2142	2330	1.2F	O	1942	2200	1.7F		2254	2000	1.2F
<b>4</b>	0242	0536	1.5E	<b>16</b>	0106	0436	1.8E	<b>28</b>	0530	0200	1.5E
	0918	1136	1.8F	0748	1006	1.9F		Th	1112	0748	1.4F
M	1506	1824	1.6E	Sa	1330	1800	2.0E		1812	1512	1.7E
	2230				2036	2254	1.6F		2336	2030	1.2F
<b>5</b>		0018	1.2F	<b>17</b>	0154	0518	1.8E	<b>29</b>		0236	1.5E
	0324	0624	1.5E	0836	1048	1.9F		F	0612	0824	1.5F
Tu	1006	1224	1.9F	Su	1418	1854	2.0E		1200	1606	1.8E
	1548	1912	1.6E		2130	2342	1.5F		1900	2106	1.2F
	2318			<b>18</b>	0242	0606	1.7E				
<b>6</b>		0100	1.2F	0924	1136	1.8F		<b>30</b>	0018	0318	1.5E
	0412	0712	1.4E	M	1512	1954	1.9E	Sa	0654	0906	1.7F
W	1054	1312	1.9F		2218				1242	1654	1.7E
	1630	2000	1.6E	<b>19</b>		0036	1.4F		1954	2142	1.2F
<b>7</b>	0006	0154	1.2F	0336	0700	1.6E					
	0506	0812	1.4E	Tu	1012	1224	1.7F				
Th	1148	1400	1.8F		1606	2048	1.8E				
	1724	2054	1.6E		2312						
<b>8</b>	0100	0242	1.2F	<b>20</b>	0430	0130	1.3F				
	0606	0906	1.4E	0754	0754	1.6E					
F	1242	1454	1.7F	W	1106	1312	1.6F				
	1824	2148	1.7E		1654	2136	1.8E				
<b>9</b>	0148	0342	1.2F	<b>21</b>	0000	0230	1.2F				
	0706	1012	1.5E	0524	0848	1.5E					
Sa	1348	1554	1.6F	Th	1200	1400	1.4F				
●	1924	2242	1.7E		1742	2218	1.7E				
<b>10</b>	0242	0436	1.3F	<b>22</b>	0048	0330	1.2F				
	0812	1112	1.6E	0618	0942	1.5E					
Su	1448	1654	1.6F	F	1248	1448	1.3F				
	2030	2342	1.7E		1836	2300	1.6E				
<b>11</b>	0336	0536	1.4F	<b>23</b>	0136	0442	1.2F				
	0906	1212	1.7E	0712	1036	1.6E					
M	1554	1800	1.6F	Sa	1342	1542	1.2F				
	2130			●	1924	2336	1.6E				
<b>12</b>		0048	1.7E	<b>24</b>	0224	0542	1.2F				
	0430	0642	1.5F	0806	1118	1.6E					
Tu	1000	1324	1.8E	Su	1442	1642	1.1F				
	1654	1906	1.7F		2018						
	2230										

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME/  
DAYLIGHT  
SAVING TIME**

**Times ARE adjusted  
for DST until  
November 3.**

# MARCUS HOOK, PENNSYLVANIA

DECEMBER 2024

STATION ID 8540433

## Times and Heights of High and Low Waters

Time		Height		Time		Height		Time		Height			
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm		
<b>1</b> Su ●	0631	0.4	12	<b>13</b>	0433	-0.2	-6	<b>25</b>	0205	0.2	6		
	1203	6.0	183		1003	6.3	192		W	0758	5.0	152	
	1923	0.3	9		F	1720	-0.2		-6	W	1444	0.3	9
					2231	5.4	165		2023	4.5	137		
<b>2</b> M	0030	4.7	143	<b>14</b>	0525	-0.2	-6	<b>26</b>	0254	0.1	3		
	0712	0.4	12		1053	6.5	198		Th	0847	5.2	158	
	1238	6.1	186		Sa	1815	-0.2		-6	Th	1540	0.2	6
	2007	0.3	9		2321	5.3	162		2114	4.4	134		
<b>3</b> Tu	0108	4.6	140	<b>15</b>	0616	-0.1	-3	<b>27</b>	0342	0.1	3		
	0753	0.3	9		1141	6.5	198		F	0934	5.4	165	
	1314	6.1	186		Su	1907	-0.2		-6	F	1633	0.1	3
	2051	0.3	9	○				2201	4.4	134			
<b>4</b> W	0146	4.6	140	<b>16</b>	0011	5.3	162	<b>28</b>	0430	0.1	3		
	0835	0.3	9		0705	0.0	0		Sa	1017	5.6	171	
	1354	6.1	186		M	1229	6.4		195	Sa	1724	0.0	0
	2136	0.3	9		1956	-0.1	-3		2245	4.4	134		
<b>5</b> Th	0228	4.6	140	<b>17</b>	0101	5.1	155	<b>29</b>	0517	0.0	0		
	0921	0.3	9		0753	0.1	3		Su	1058	5.7	174	
	1439	6.0	183		Tu	1317	6.2		189	Su	1813	0.0	0
	2222	0.3	9	○	2043	-0.1	-3		2326	4.4	134		
<b>6</b> F	0317	4.7	143	<b>18</b>	0151	5.0	152	<b>30</b>	0604	0.0	0		
	1013	0.3	9		0839	0.2	6		M	1138	5.8	177	
	1531	5.9	180		W	1406	6.0		183	●	M	1900	-0.1
	2311	0.2	6		2129	0.0	0						
<b>7</b> Sa	0413	4.8	146	<b>19</b>	0241	4.9	149	<b>31</b>	0006	4.4	134		
	1112	0.3	9		0925	0.3	9		0651	-0.1	-3		
	1630	5.7	174		Th	1455	5.8		177	Tu	1218	5.9	180
					2215	0.1	3						
<b>8</b> Su ●	0002	0.1	3	<b>20</b>	0331	4.8	146						
	0515	4.9	149		1013	0.3	9						
	1215	0.3	9		F	1546	5.5	168					
	1735	5.5	168		2300	0.2	6						
<b>9</b> M	0055	0.0	0	<b>21</b>	0424	4.7	143						
	0617	5.2	158		1103	0.4	12						
	1318	0.2	6		Sa	1640	5.2	158					
	1840	5.4	165		2345	0.2	6						
<b>10</b> Tu	0149	0.0	0	<b>22</b>	0518	4.7	143	●	0518	4.7	143		
	0718	5.5	168		Su	1155	0.4		12	Su	1155	0.4	12
	1422	0.1	3		●	1736	5.0		152	●	1736	5.0	152
	1943	5.4	165										
<b>11</b> W	0244	-0.1	-3	<b>23</b>	0031	0.2	6						
	0817	5.8	177		0612	4.8	146						
	1525	0.0	0		M	1250	0.4	12					
	2043	5.4	165		1832	4.7	143						
<b>12</b> Th	0339	-0.2	-6	<b>24</b>	0117	0.2	6						
	0912	6.1	186		0705	4.9	149						
	1624	-0.1	-3		Tu	1346	0.3	9					
	2139	5.4	165		1928	4.6	140						

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

**EASTERN  
 STANDARD TIME**

# MARCUS HOOK BAR (North)

DECEMBER 2024

deb2119 (16 ft.)

F-Flood, Dir. 097° True				E-Ebb, Dir. 278° True								
Slack Water		Maximum Current		Slack Water		Maximum Current		Slack Water		Maximum Current		
Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	Day	Time h.m.	Time h.m.	Vel. knots	
<b>1</b>	0100	0354	1.5E	<b>13</b>		0218	1.7E	<b>25</b>	0312	0518	1.3F	
Su	0736	0942	1.8F	F	0542	0806	1.7F	W	0900	1206	1.6E	
●	1324	1730	1.7E		1124	1600	1.9E		1554	1754	1.1F	
	2036	2224	1.1F		1830	2100	1.6F		2124			
					2354							
<b>2</b>	0142	0436	1.4E	<b>14</b>		0324	1.7E	<b>26</b>		0012	1.5E	
M	0812	1030	1.8F	Sa	0636	0854	1.8F	Th	0400	0612	1.4F	
	1400	1800	1.7E		1218	1700	2.0E		0954	1312	1.6E	
	2124	2312	1.1F		1924	2154	1.5F		1654	1900	1.1F	
									2212			
<b>3</b>	0224	0524	1.4E	<b>15</b>	0042	0418	1.7E	<b>27</b>		0100	1.5E	
Tu	0900	1112	1.9F	Su	0724	0942	1.8F	F	0448	0700	1.5F	
	1442	1830	1.7E	O	1312	1754	2.0E		1042	1448	1.7E	
	2212	2354	1.2F		2018	2248	1.4F		1748	1954	1.1F	
									2306			
<b>4</b>	0312	0612	1.4E	<b>16</b>	0130	0506	1.7E	<b>28</b>		0154	1.4E	
W	0948	1200	1.9F	M	0812	1024	1.7F	Sa	0536	0748	1.6F	
	1530	1906	1.7E		1400	1842	1.9E		1130	1600	1.7E	
	2300				2112	2336	1.3F		1842	2048	1.1F	
									2354			
<b>5</b>		0042	1.2F	<b>17</b>	0224	0554	1.6E	<b>29</b>		0248	1.4E	
Th	0406	0706	1.4E	Tu	0900	1112	1.7F	Su	0624	0836	1.7F	
	1042	1254	1.8F		1448	1936	1.9E		1218	1654	1.8E	
	1612	1948	1.7E		2200				1936	2130	1.1F	
	2342											
<b>6</b>		0136	1.3F	<b>18</b>	0318	0642	1.5E	<b>30</b>		0036	0336	1.4E
F	0454	0800	1.5E	W	0948	1154	1.6F	M	0706	0918	1.8F	
	1136	1342	1.8F		1536	2018	1.8E	●	1300	1736	1.8E	
	1706	2036	1.7E		2248				2018	2212	1.1F	
<b>7</b>	0030	0224	1.4F	<b>19</b>		0112	1.3F	<b>31</b>		0124	0430	1.4E
Sa	0554	0900	1.6E	Th	0406	0730	1.5E	Tu	0754	1006	1.8F	
	1230	1436	1.7F		1042	1242	1.5F		1342	1818	1.8E	
	1800	2130	1.7E		1618	2100	1.7E		2106	2254	1.2F	
					2330							
<b>8</b>	0118	0318	1.5F	<b>20</b>		0142	1.2F					
Su	0648	0954	1.6E	F	0454	0812	1.5E					
●	1330	1536	1.7F		1130	1330	1.4F					
	1906	2218	1.8E		1706	2130	1.6E					
<b>9</b>	0206	0412	1.5F	<b>21</b>	0012	0218	1.3F					
M	0742	1054	1.7E	Sa	0548	0900	1.6E					
	1430	1636	1.6F		1218	1418	1.3F					
	2006	2318	1.8E		1754	2130	1.6E					
<b>10</b>	0300	0506	1.5F	<b>22</b>	0054	0300	1.3F					
Tu	0842	1154	1.8E	Su	0636	0942	1.6E					
	1530	1742	1.6F		1312	1506	1.3F					
	2106			●	1842	2200	1.6E					
<b>11</b>		0012	1.7E	<b>23</b>	0142	0342	1.3F					
W	0400	0606	1.6F	M	0724	1030	1.6E					
	0936	1312	1.8E		1400	1600	1.2F					
	1636	1848	1.6F		1936	2242	1.6E					
	2206											
<b>12</b>		0112	1.7E	<b>24</b>	0224	0430	1.3F					
Th	0454	0706	1.6F	Tu	0812	1118	1.6E					
	1030	1448	1.9E		1500	1654	1.2F					
	1736	2000	1.6F		2030	2324	1.5E					
	2300											

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME**



**2024**

**TIDES**

**PHILADELPHIA, PENNSYLVANIA**



**PHILADELPHIA, PA • US COAST GUARD STATION**  
**JANUARY 2024** **STATION ID 8545240**

Times and Heights of High and Low Waters											
Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b> M	0502	5.0	152	<b>13</b> Sa	0236	5.4	165	<b>25</b> Th ○	0053	5.2	158
	1127	0.4	12		0918	-0.3	-9		0727	0.1	3
	1713	5.7	174		1453	6.6	201		1311	6.1	186
					2204	-0.3	-9		2014	0.0	0
<b>2</b> Tu	0007	0.2	6	<b>14</b> Su	0326	5.5	168	<b>26</b> F	0139	5.2	158
	0549	5.1	155		1010	-0.4	-12		0812	0.1	3
	1214	0.4	12		1545	6.5	198		1354	6.0	183
	1803	5.5	168		2252	-0.4	-12		2056	0.1	3
<b>3</b> W	0049	0.1	3	<b>15</b> M	0418	5.6	171	<b>27</b> Sa	0222	5.2	158
	0638	5.2	158		1104	-0.4	-12		0854	0.2	6
	1305	0.4	12		1638	6.3	192		1436	5.9	180
	1855	5.3	162		2341	-0.4	-12		2135	0.1	3
<b>4</b> Th ☉	0133	0.1	3	<b>16</b> Tu	0512	5.7	174	<b>28</b> Su	0305	5.2	158
	0728	5.3	162		1159	-0.3	-9		0936	0.2	6
	1401	0.4	12		1733	6.0	183		1517	5.8	177
	1949	5.1	155					2213	0.1	3	
<b>5</b> F	0220	0.1	3	<b>17</b> W	0030	-0.4	-12	<b>29</b> M	0346	5.2	158
	0819	5.4	165		0607	5.8	177		1017	0.2	6
	1500	0.4	12		1256	-0.2	-6		1558	5.7	174
	2044	5.0	152		1830	5.7	174		2250	0.1	3
<b>6</b> Sa	0311	0.2	6	<b>18</b> Th ☾	0121	-0.4	-12	<b>30</b> Tu	0427	5.3	162
	0910	5.6	171		0704	5.9	180		1059	0.2	6
	1559	0.4	12		1355	-0.1	-3		1640	5.6	171
	2139	4.9	149		1928	5.5	168		2326	0.1	3
<b>7</b> Su	0403	0.2	6	<b>19</b> F	0213	-0.3	-9	<b>31</b> W	0508	5.3	162
	1000	5.8	177		0801	6.0	183		1143	0.3	9
	1657	0.3	9		1455	0.0	0		1724	5.4	165
	2231	4.9	149		2027	5.3	162				
<b>8</b> M	0457	0.2	6	<b>20</b> Sa	0308	-0.2	-6				
	1049	6.1	186		0859	6.1	186				
	1753	0.2	6		1556	0.0	0				
	2322	5.0	152		2126	5.2	158				
<b>9</b> Tu	0551	0.1	3	<b>21</b> Su	0403	-0.1	-3				
	1137	6.3	192		0954	6.1	186				
	1847	0.1	3		1654	0.0	0				
					2222	5.1	155				
<b>10</b> W	0011	5.1	155	<b>22</b> M	0457	0.0	0				
	0644	0.0	0		1048	6.1	186				
	1226	6.4	195		1750	0.0	0				
	1938	0.0	0		2315	5.2	158				
<b>11</b> Th ●	0059	5.2	158	<b>23</b> Tu	0550	0.0	0				
	0736	-0.1	-3		1138	6.1	186				
	1314	6.5	198		1841	0.0	0				
	2028	-0.1	-3								
<b>12</b> F	0147	5.3	162	<b>24</b> W	0006	5.2	158				
	0827	-0.3	-9		0640	0.0	0				
	1403	6.6	201		1226	6.1	186				
	2116	-0.2	-6		1929	0.0	0				

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean lower low water which is the chart datum of soundings.

**EASTERN  
STANDARD TIME**

**PHILADELPHIA, PA • US COAST GUARD STATION**  
**FEBRUARY 2024** **STATION ID 8545240**

**Times and Heights of High and Low Waters**

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0003	0.1	3	<b>13</b>	0355	6.2	189	<b>25</b>	0158	5.6	171
	0550	5.4	165		1047	-0.4	-12		0832	0.2	6
	Th 1231	0.3	9		Tu 1618	6.2	189		Su 1413	6.0	183
	1813	5.1	155		2313	-0.4	-12		2103	0.2	6
<b>2</b>	0044	0.1	3	<b>14</b>	0446	6.2	189	<b>26</b>	0237	5.6	171
	0636	5.5	168		1141	-0.3	-9		0913	0.3	9
	F 1325	0.4	12		W 1712	5.9	180		M 1452	5.9	180
	☉ 1906	5.0	152						2139	0.3	9
<b>3</b>	0130	0.2	6	<b>15</b>	0001	-0.3	-9	<b>27</b>	0315	5.7	174
	0727	5.5	168		0540	6.2	189		0954	0.3	9
	Sa 1424	0.4	12		Th 1236	-0.1	-3		Tu 1531	5.7	174
	2003	4.8	146		1807	5.6	171		2214	0.3	9
<b>4</b>	0224	0.2	6	<b>16</b>	0051	-0.2	-6	<b>28</b>	0351	5.7	174
	0822	5.7	174		0635	6.2	189		1035	0.3	9
	Su 1525	0.4	12		F 1334	0.0	0		W 1610	5.6	171
	2101	4.8	146		☾ 1905	5.4	165		2247	0.3	9
<b>5</b>	0324	0.3	9	<b>17</b>	0144	0.0	0	<b>29</b>	0426	5.8	177
	0919	5.8	177		0733	6.1	186		1118	0.4	12
	M 1627	0.4	12		Sa 1433	0.2	6		Th 1651	5.4	165
	2158	4.9	149		2005	5.2	158		2323	0.3	9
<b>6</b>	0425	0.2	6	<b>18</b>	0239	0.1	3				
	1015	6.0	183		0832	6.0	183				
	Tu 1725	0.3	9		Su 1532	0.2	6				
	2252	5.0	152		2104	5.1	155				
<b>7</b>	0524	0.1	3	<b>19</b>	0336	0.2	6				
	1110	6.2	189		0930	6.0	183				
	W 1821	0.1	3		M 1630	0.2	6				
	2344	5.2	158		2201	5.2	158				
<b>8</b>	0621	-0.1	-3	<b>20</b>	0432	0.2	6				
	1203	6.5	198		1026	6.0	183				
	Th 1913	0.0	0		Tu 1725	0.2	6				
					2255	5.3	162				
<b>9</b>	0035	5.4	165	<b>21</b>	0526	0.2	6				
	0716	-0.3	-9		1119	6.0	183				
	F 1255	6.6	201		W 1816	0.2	6				
	☀ 2003	-0.2	-6		2346	5.4	165				
<b>10</b>	0124	5.7	174	<b>22</b>	0617	0.2	6				
	0809	-0.4	-12		1207	6.1	186				
	Sa 1346	6.7	204		Th 1902	0.1	3				
	2051	-0.3	-9								
<b>11</b>	0214	5.9	180	<b>23</b>	0033	5.5	168				
	0901	-0.5	-15		0705	0.2	6				
	Su 1436	6.6	201		F 1251	6.1	186				
	2139	-0.4	-12		1946	0.2	6				
<b>12</b>	0304	6.0	183	<b>24</b>	0117	5.5	168				
	0954	-0.5	-15		0749	0.2	6				
	M 1527	6.5	198		Sa 1333	6.0	183				
	2225	-0.4	-12		☽ 2026	0.2	6				

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME**

**PHILADELPHIA, PA • US COAST GUARD STATION**  
**MARCH 2024** **STATION ID 8545240**

Times and Heights of High and Low Waters								
Time	Height		Time	Height		Time	Height	
Day h.m.	ft.	cm	Day h.m.	ft.	cm	Day h.m.	ft.	cm
<b>1</b> 0502	5.9	180	<b>13</b> 0428	6.8	207	<b>25</b> 0231	6.1	186
1204	0.4	12	1128	-0.2	-6	0909	0.4	12
F 1736	5.2	158	W 1656	6.2	189	M 1449	6.0	183
			2343	0.0	0	○ 2129	0.5	15
<b>2</b> 0002	0.3	9	<b>14</b> 0518	6.8	207	<b>26</b> 0308	6.2	189
0543	5.9	180	1221	-0.1	-3	0951	0.4	12
Sa 1256	0.5	15	Th 1749	5.9	180	Tu 1527	5.9	180
1828	5.1	155				2205	0.6	18
<b>3</b> 0050	0.4	12	<b>15</b> 0031	0.1	3	<b>27</b> 0343	6.2	189
0634	5.9	180	0610	6.6	201	1033	0.5	15
Su 1354	0.6	18	F 1315	0.1	3	W 1605	5.7	174
● 1926	5.0	152	1844	5.7	174	2240	0.6	18
<b>4</b> 0148	0.5	15	<b>16</b> 0121	0.3	9	<b>28</b> 0415	6.3	192
0737	5.9	180	0705	6.4	195	1115	0.5	15
M 1456	0.7	21	Sa 1410	0.3	9	Th 1644	5.6	171
2027	5.0	152	1942	5.5	168	2314	0.7	21
<b>5</b> 0252	0.5	15	<b>17</b> 0214	0.5	15	<b>29</b> 0447	6.4	195
0843	6.0	183	0803	6.2	189	1158	0.6	18
Tu 1558	0.6	18	Su 1507	0.5	15	F 1724	5.5	168
2127	5.1	155	● 2041	5.3	162	2351	0.7	21
<b>6</b> 0358	0.4	12	<b>18</b> 0310	0.6	18	<b>30</b> 0520	6.4	195
0946	6.2	189	0903	6.1	186	1244	0.6	18
W 1657	0.5	15	M 1604	0.5	15	Sa 1808	5.4	165
2225	5.4	165	2140	5.3	162			
<b>7</b> 0501	0.3	9	<b>19</b> 0408	0.6	18	<b>31</b> 0034	0.7	21
1045	6.4	195	1003	6.0	183	0602	6.4	195
Th 1753	0.3	9	Tu 1701	0.6	18	Su 1334	0.7	21
2319	5.7	174	2237	5.4	165	1900	5.3	162
<b>8</b> 0600	0.0	0	<b>20</b> 0505	0.6	18	Time meridian 75° W.		
1141	6.6	201	1100	6.0	183	0000 is midnight.		
F 1846	0.1	3	W 1754	0.5	15	1200 is noon.		
			2331	5.6	171	Heights are referred to mean		
<b>9</b> 0011	6.0	183	<b>21</b> 0600	0.5	15	lower low water which is the		
0657	-0.2	-6	1153	6.1	186	chart datum of soundings.		
Sa 1234	6.8	207	Th 1844	0.4	12			
1936	0.0	0						
<b>10</b> 0101	6.3	192	<b>22</b> 0021	5.8	177	<b>EASTERN</b>		
0851	-0.3	-9	0651	0.5	15	<b>STANDARD TIME/</b>		
Su 1425	6.8	207	F 1242	6.1	186	<b>DAYLIGHT</b>		
● 2124	-0.2	-6	1930	0.4	12	<b>SAVING TIME</b>		
<b>11</b> 0250	6.6	201	<b>23</b> 0108	5.9	180	<b>Times ARE adjusted</b>		
0944	-0.4	-12	0740	0.4	12	<b>for DST starting</b>		
M 1515	6.7	204	Sa 1327	6.2	189	<b>March 10.</b>		
2211	-0.2	-6	2012	0.4	12			
<b>12</b> 0339	6.7	204	<b>24</b> 0151	6.1	186			
1036	-0.3	-9	0826	0.4	12			
Tu 1605	6.5	198	Su 1409	6.1	186			
2257	-0.1	-3	2052	0.4	12			

**PHILADELPHIA, PA • US COAST GUARD STATION**  
**APRIL 2024** **STATION ID 8545240**

Times and Heights of High and Low Waters											
Day	Time		Height		Day	Time		Height			
	h.m.	ft.	cm	ft.		cm	h.m.	ft.	cm		
<b>1</b> M	0125	0.7	21	<b>13</b> Sa	0003	0.6	18	<b>25</b> Th	0311	6.7	204
	0658	6.3	192		0541	6.9	210		1013	0.6	18
	1430	0.8	24		1252	0.4	12		1541	5.7	174
	1958	5.3	162		1820	5.7	174		2210	0.9	27
<b>2</b> Tu ☉	0225	0.8	24	<b>14</b> Su	0053	0.8	24	<b>26</b> F	0344	6.7	204
	0805	6.3	192		0635	6.6	201		1056	0.7	21
	1530	0.8	24		1344	0.6	18		1621	5.6	171
	2100	5.4	165		1917	5.6	171		2249	1.0	30
<b>3</b> W	0331	0.7	21	<b>15</b> M ☽	0145	0.9	27	<b>27</b> Sa	0417	6.7	204
	0915	6.3	192		0732	6.4	195		1141	0.7	21
	1630	0.8	24		1438	0.7	21		1702	5.5	168
	2201	5.6	171		2014	5.5	168		2331	0.9	27
<b>4</b> Th	0437	0.6	18	<b>16</b> Tu	0240	1.0	30	<b>28</b> Su	0455	6.7	204
	1021	6.4	195		0832	6.2	189		1227	0.8	24
	1729	0.6	18		1532	0.8	24		1748	5.5	168
	2300	5.9	180		2112	5.6	171				
<b>5</b> F	0541	0.5	15	<b>17</b> W	0337	1.0	30	<b>29</b> M	0018	0.9	27
	1121	6.6	201		0931	6.1	186		0542	6.7	204
	1824	0.4	12		1626	0.8	24		1317	0.8	24
	2355	6.3	192		2208	5.7	174		1840	5.5	168
<b>6</b> Sa	0641	0.3	9	<b>18</b> Th	0434	0.9	27	<b>30</b> Tu	0111	0.9	27
	1217	6.7	204		1028	6.1	186		0641	6.6	201
	1917	0.3	9		1717	0.7	21		1411	0.8	24
					2302	5.9	180		1938	5.6	171
<b>7</b> Su	0047	6.7	204	<b>19</b> F	0529	0.8	24				
	0738	0.1	3		1121	6.1	186				
	1310	6.8	207		1806	0.6	18				
	2007	0.2	6		2352	6.2	189				
<b>8</b> M ●	0137	7.0	213	<b>20</b> Sa	0622	0.7	21				
	0833	0.0	0		1211	6.2	189				
	1402	6.7	204		1852	0.6	18				
	2055	0.1	3								
<b>9</b> Tu	0225	7.2	219	<b>21</b> Su	0038	6.4	195	Time meridian 75° W. 0000 is midnight. 1200 is noon.			
	0926	-0.1	-3		0712	0.7	21				
	1452	6.6	201		1257	6.1	186				
	2142	0.2	6		1934	0.6	18				
<b>10</b> W	0313	7.3	223	<b>22</b> M	0120	6.5	198	<b>DAYLIGHT SAVING TIME</b>  Times ARE adjusted for DST.			
	1018	0.0	0		0800	0.6	18				
	1542	6.4	195		1340	6.1	186				
	2228	0.3	9		2015	0.7	21				
<b>11</b> Th	0401	7.3	223	<b>23</b> Tu ○	0159	6.6	201				
	1109	0.1	3		0845	0.6	18				
	1634	6.2	189		1421	5.9	180				
	2315	0.4	12		2054	0.8	24				
<b>12</b> F	0450	7.1	216	<b>24</b> W	0236	6.7	204				
	1200	0.2	6		0929	0.6	18				
	1726	5.9	180		1502	5.8	177				
					2132	0.9	27				

**PHILADELPHIA, PA • US COAST GUARD STATION**  
**MAY 2024** **STATION ID 8545240**

Times and Heights of High and Low Waters											
Time			Time			Time					
Height			Height			Height					
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0211	0.9	27	<b>13</b>	0025	1.0	30	<b>25</b>	0318	6.9	210
	0747	6.5	198		0606	6.7	204		1037	0.7	21
	W 1507	0.8	24		M 1316	0.7	21		Sa 1559	5.5	168
	☉ 2039	5.8	177		1850	5.7	174		2229	1.0	30
<b>2</b>	0315	0.9	27	<b>14</b>	0115	1.1	34	<b>26</b>	0358	6.9	210
	0854	6.5	198		0701	6.4	195		1123	0.7	21
	Th 1604	0.7	21		Tu 1406	0.8	24		Su 1644	5.6	171
	2139	6.0	183		1944	5.7	174		2316	0.9	27
<b>3</b>	0419	0.8	24	<b>15</b>	0208	1.1	34	<b>27</b>	0442	6.9	210
	0958	6.5	198		0758	6.2	189		1211	0.7	21
	F 1700	0.6	18		W 1455	0.8	24		M 1732	5.6	171
	2237	6.4	195		☉ 2040	5.8	177				
<b>4</b>	0522	0.6	18	<b>16</b>	0303	1.1	34	<b>28</b>	0006	0.9	27
	1058	6.6	201		0855	6.1	186		0534	6.8	207
	Sa 1755	0.5	15		Th 1545	0.8	24		Tu 1300	0.7	21
	2331	6.8	207		2134	5.9	180		1824	5.7	174
<b>5</b>	0622	0.5	15	<b>17</b>	0359	1.1	34	<b>29</b>	0100	0.9	27
	1154	6.6	201		0950	6.1	186		0631	6.7	204
	Su 1847	0.4	12		F 1634	0.8	24		W 1350	0.6	18
					2227	6.1	186		1920	5.9	180
<b>6</b>	0023	7.1	216	<b>18</b>	0455	1.0	30	<b>30</b>	0158	0.9	27
	0720	0.3	9		1044	6.0	183		0732	6.6	201
	M 1247	6.6	201		Sa 1722	0.7	21		Th 1443	0.6	18
	1937	0.3	9		2316	6.4	195		☉ 2019	6.1	186
<b>7</b>	0113	7.4	226	<b>19</b>	0550	0.9	27	<b>31</b>	0300	0.8	24
	0815	0.2	6		1135	6.0	183		0835	6.5	198
	Tu 1339	6.5	198		Su 1809	0.7	21		F 1537	0.5	15
	2026	0.4	12						2117	6.4	195
<b>8</b>	0201	7.5	229	<b>20</b>	0002	6.6	201				
	0908	0.2	6		0642	0.8	24				
	W 1430	6.3	192		M 1223	5.9	180				
	☉ 2114	0.5	15		1854	0.8	24				
<b>9</b>	0248	7.5	229	<b>21</b>	0045	6.7	204				
	0959	0.3	9		0732	0.7	21				
	Th 1520	6.2	189		Tu 1309	5.8	177				
	2201	0.7	21		1937	0.8	24				
<b>10</b>	0335	7.4	226	<b>22</b>	0126	6.8	207				
	1049	0.4	12		0820	0.7	21				
	F 1611	6.0	183		W 1353	5.7	174				
	2249	0.8	24		2020	0.9	27				
<b>11</b>	0424	7.2	219	<b>23</b>	0204	6.9	210				
	1138	0.5	15		0907	0.7	21				
	Sa 1703	5.9	180		Th 1435	5.6	171				
	2336	0.9	27		☉ 2102	1.0	30				
<b>12</b>	0514	6.9	210	<b>24</b>	0241	6.9	210				
	1227	0.6	18		0952	0.7	21				
	Su 1756	5.8	177		F 1517	5.6	171				
					2145	1.0	30				

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

**DAYLIGHT  
 SAVING TIME**

**Times ARE adjusted  
 for DST.**

**PHILADELPHIA, PA • US COAST GUARD STATION**  
**JUNE 2024** **STATION ID 8545240**

Times and Heights of High and Low Waters											
Day	Time		Height		Day	Time		Height			
	h.m.		ft.	cm		h.m.		ft.	cm		
<b>1</b> Sa	0402	0.8	24	<b>13</b> Th	0135	1.2	37	<b>25</b> Tu	0432	7.0	213
	0936	6.4	195		0722	6.2	189		1151	0.5	15
	1631	0.4	12		1415	0.7	21		1714	5.9	180
	2214	6.7	204		2003	5.9	180		2353	0.7	21
<b>2</b> Su	0504	0.7	21	<b>14</b> F ☉	0227	1.2	37	<b>26</b> W	0524	6.9	210
	1035	6.4	195		0816	6.1	186		1238	0.4	12
	1725	0.4	12		1501	0.7	21		1806	6.0	183
	2309	7.1	216		2055	6.0	183				
<b>3</b> M	0605	0.6	18	<b>15</b> Sa	0322	1.2	37	<b>27</b> Th	0047	0.7	21
	1132	6.3	192		0910	5.9	180		0618	6.8	207
	1818	0.4	12		1547	0.7	21		1327	0.4	12
				2146	6.2	189	1901	6.2	189		
<b>4</b> Tu	0000	7.3	223	<b>16</b> Su	0418	1.1	34	<b>28</b> F ☾	0145	0.7	21
	0702	0.5	15		1004	5.8	177		0716	6.6	201
	1226	6.2	189		1635	0.7	21		1418	0.3	9
	1910	0.5	15		2236	6.4	195		1958	6.5	198
<b>5</b> W	0050	7.5	229	<b>17</b> M	0515	1.0	30	<b>29</b> Sa	0244	0.7	21
	0757	0.4	12		1057	5.7	174		0815	6.4	195
	1318	6.1	186		1724	0.8	24		1510	0.3	9
	2000	0.6	18		2323	6.6	201		2055	6.7	204
<b>6</b> Th ●	0138	7.5	229	<b>18</b> Tu	0610	0.9	27	<b>30</b> Su	0345	0.8	24
	0850	0.4	12		1148	5.6	171		0915	6.2	189
	1409	6.0	183		1812	0.9	27		1603	0.3	9
	2049	0.7	21						2151	6.9	210
<b>7</b> F	0226	7.4	226	<b>19</b> W	0008	6.8	207				
	0940	0.5	15		0703	0.8	24				
	1459	5.9	180		1237	5.6	171				
	2137	0.9	27		1900	0.9	27				
<b>8</b> Sa	0313	7.2	219	<b>20</b> Th	0052	6.9	210				
	1028	0.5	15		0754	0.8	24				
	1549	5.8	177		1323	5.6	171				
	2224	1.0	30		1948	0.9	27				
<b>9</b> Su	0400	7.0	213	<b>21</b> F	0134	7.0	213	Time meridian 75° W. 0000 is midnight. 1200 is noon.			
	1115	0.6	18		0843	0.7	21				
	1639	5.8	177		1408	5.5	168				
	2310	1.1	34		2035	0.9	27				
<b>10</b> M	0448	6.8	207	<b>22</b> Sa ○	0216	7.0	213				
	1200	0.7	21		0930	0.7	21				
	1729	5.7	174		1453	5.6	171				
	2357	1.1	34		2123	0.9	27				
<b>11</b> Tu	0538	6.6	201	<b>23</b> Su	0259	7.0	213	<b>DAYLIGHT SAVING TIME</b> Times ARE adjusted for DST.			
	1245	0.7	21		1017	0.7	21				
	1820	5.7	174		1538	5.6	171				
				2212	0.8	24					
<b>12</b> W	0045	1.2	37	<b>24</b> M	0344	7.0	213				
	0629	6.4	195		1104	0.6	18				
	1330	0.7	21		1625	5.7	174				
	1911	5.8	177		2301	0.8	24				

**PHILADELPHIA, PA • US COAST GUARD STATION**  
**JULY 2024** **STATION ID 8545240**

**Times and Heights of High and Low Waters**

	Time		Height			Time		Height			Time		Height												
	Day	h.m.	ft.	cm		Day	h.m.	ft.	cm		Day	h.m.	ft.	cm											
<b>1</b> M	0446	0.7	21	<b>13</b> Sa ☉	0151	1.2	37	<b>25</b> Th	0508	7.0	213		1014	6.1	186	0736	5.9	180	1213	0.3	9	1744	6.5	198	
	1658	0.4	12		1413	0.7	21		2246	7.1	216		2011	6.1	186										
			0245		1.2	37			0602	6.8	207				F		1301	0.2		6	1838		6.7	204	
							0829						5.7	174											
<b>2</b> Tu	0547	0.7	21	<b>15</b> M	0341	1.1		34	<b>27</b> Sa	0129	0.6	18				1112	6.0	183	0924	5.6	171	1351	0.3	9	1934
	1752	0.5	15		1547	0.8	24	0658		6.5	198	1207	5.9	180		2151	6.4	195		1934	6.8		207		
			0439		1.1	34				0227	0.7	21				Su	1442	0.3		9	2031		6.9	210	
							1019	5.5					168												
<b>3</b> W	0644	0.6	18	<b>17</b> W	0537	1.0			30	<b>29</b> M	0327	0.8		24		1207	5.9	180	1732	0.9	27	1537	0.5	15	2128
	1846	0.6	18		2331	6.7	204	0856	6.0		183	1350	5.9	180		2331	6.7	204		2128	6.9		210		
			0633		0.9	27			0428		0.8	24				Tu	1633	0.6		18	2225		7.0	213	
							1204	5.5					168												
<b>4</b> Th	0030	7.3	223	<b>18</b> Th	0633	0.9			27	<b>30</b> Tu	0428	0.8		24		0739	0.5	15	1826	0.9	27	0956	5.8	177	1633
	1259	5.9	180		1204	5.5	168	0956	5.8		177	2225	7.0	213											
			0439		1.1	34			0527		0.8	24				F	1253	5.5		168	1920		0.8	24	
							1019	5.5					168												
<b>5</b> F	0119	7.2	219	<b>19</b> F	0019	6.9			210	<b>31</b> W	0527	0.8		24		0830	0.5	15	0726	0.8	24	1253	5.5	168	1920
	2027	0.8	24		0726	0.8	24	1054	5.8		177	2320	7.0	213											
			0633		0.9	27			0527		0.8	24				M	1537	0.5		15	2128		6.9	210	
							1204	5.5					168												
<b>6</b> Sa	0207	7.1	216	<b>20</b> Sa	0106	7.0			213	<b>30</b> Tu	0428	0.8		24		0919	0.6	18	1826	0.9	27	0956	5.8	177	1633
	1439	5.8	177		0817	0.7	21	0956	5.8		177	2225	7.0	213											
			0633		0.9	27			0527		0.8	24				F	1253	5.5		168	1920		0.8	24	
							1204	5.5					168												
<b>7</b> Su	0253	7.0	213	<b>21</b> Su	0153	7.1			216	<b>31</b> W	0527	0.8		24		1005	0.6	18	0726	0.8	24	1253	5.5	168	1920
	1527	5.8	177		0906	0.7	21	1054	5.8		177	2320	7.0	213											
			0633		0.9	27			0527		0.8	24				M	1537	0.5		15	2128		6.9	210	
							1204	5.5					168												
<b>8</b> M	0338	6.9	210	<b>22</b> M	0106	7.0			213	<b>30</b> Tu	0428	0.8		24		1048	0.7	21	1826	0.9	27	0956	5.8	177	1633
	1614	5.8	177		0817	0.7	21	0956	5.8		177	2225	7.0	213											
			0633		0.9	27			0527		0.8	24				F	1253	5.5		168	1920		0.8	24	
							1204	5.5					168												
<b>9</b> Tu	0424	6.7	204	<b>23</b> Tu	0153	7.1			216	<b>30</b> Tu	0428	0.8		24		1701	5.8	177	0726	0.8	24	1253	5.5	168	1920
	2330	1.1	34		0906	0.7	21	1054	5.8		177	2320	7.0	213											
			0633		0.9	27			0527		0.8	24				M	1514	5.9		180	2154		0.6	18	
							1204	5.5					168												
<b>10</b> W	0509	6.6	201	<b>24</b> W	0240	7.2			219	<b>30</b> Tu	0428	0.8		24		1211	0.7	21	0726	0.8	24	1253	5.5	168	1920
	1747	5.8	177		0953	0.5	15	1054	5.8		177	2320	7.0	213											
			0633		0.9	27			0527		0.8	24				F	1331	0.7		21	2128		6.9	210	
							1204	5.5					168												
<b>11</b> Th	0015	1.1	34	<b>24</b> W	0328	7.2			219	<b>30</b> Tu	0428	0.8		24		1834	5.9	180	0726	0.8	24	1253	5.5	168	1920
	0556	6.4	195		1040	0.4	12	1054	5.8		177	2320	7.0	213											
			0633		0.9	27			0527		0.8	24				M	1653	6.3		192	2338		0.5	15	
							1204	5.5					168												
<b>12</b> F	0101	1.1	34	<b>24</b> W	0417	7.1			216	<b>30</b> Tu	0428	0.8		24		0644	6.2	189	0726	0.8	24	1253	5.5	168	1920
	1331	0.7	21		1127	0.3	9	1054	5.8		177	2320	7.0	213											
			0633		0.9	27			0527		0.8	24				F	1331	0.7		21	2128		6.9	210	
							1204	5.5					168												
<b>12</b> F	0101	1.1	34	<b>24</b> W	0417	7.1			216	<b>30</b> Tu	0428	0.8		24		1922	6.0	183	0726	0.8	24	1253	5.5	168	1920
	0644	6.2	189		1127	0.3	9	1054	5.8		177	2320	7.0	213											
			0633		0.9	27			0527		0.8	24				M	1653	6.3		192	2338		0.5	15	
							1204	5.5					168												

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.  
 Heights are referred to mean  
 lower low water which is the  
 chart datum of soundings.

**DAYLIGHT  
 SAVING TIME**

**Times ARE adjusted  
 for DST.**

**PHILADELPHIA, PA • US COAST GUARD STATION**  
**AUGUST 2024** **STATION ID 8545240**

**Times and Heights of High and Low Waters**

Day	Time		Height		Day	Time		Height		Day	Time		Height	
	h.m.		ft.	cm		h.m.		ft.	cm		h.m.		ft.	cm
<b>1</b> Th	0625		0.7	21	<b>13</b> Tu	0306		1.2	37	<b>25</b> Su	0111		0.6	18
	1149		5.8	177		0845		5.5	168		0638		6.3	192
	1824		0.7	21		1501		0.9	27		1324		0.4	12
					2105		6.4	195			1907		7.0	213
<b>2</b> F	0013		7.0	213	<b>14</b> W	0405		1.2	37	<b>26</b> M ☉	0208		0.8	24
	0718		0.7	21		0942		5.4	165		0736		6.1	186
	1242		5.9	180		1558		1.0	30		1416		0.6	18
	1916		0.8	24		2200		6.5	198		2005		6.9	210
<b>3</b> Sa	0102		7.0	213	<b>15</b> Th	0504		1.2	37	<b>27</b> Tu	0307		0.9	27
	0808		0.6	18		1038		5.4	165		0836		5.9	180
	1331		5.9	180		1658		1.0	30		1512		0.7	21
	2006		0.8	24		2255		6.7	204		2105		6.9	210
<b>4</b> Su ●	0149		7.0	213	<b>16</b> F	0602		1.1	34	<b>28</b> W	0407		0.9	27
	0855		0.7	21		1132		5.6	171		0937		5.8	177
	1419		6.0	183		1757		0.9	27		1609		0.8	24
	2053		0.9	27		2349		6.9	210		2204		6.8	207
<b>5</b> M	0234		6.9	210	<b>17</b> Sa	0657		0.9	27	<b>29</b> Th	0505		0.9	27
	0938		0.7	21		1223		5.8	177		1036		5.8	177
	1504		6.0	183		1854		0.8	24		1706		0.8	24
	2138		1.0	30							2302		6.8	207
<b>6</b> Tu	0316		6.8	207	<b>18</b> Su	0041		7.1	216	<b>30</b> F	0601		0.8	24
	1018		0.7	21		0749		0.8	24		1131		5.9	180
	1548		6.0	183		1313		6.0	183		1802		0.8	24
	2221		1.1	34		1949		0.6	18		2355		6.9	210
<b>7</b> W	0358		6.7	204	<b>19</b> M ○	0130		7.3	223	<b>31</b> Sa	0654		0.7	21
	1057		0.8	24		0839		0.6	18		1223		6.0	183
	1630		6.0	183		1401		6.2	189		1855		0.8	24
	2303		1.1	34		2043		0.5	15					
<b>8</b> Th	0440		6.5	198	<b>20</b> Tu	0219		7.3	223					
	1134		0.8	24		0926		0.5	15					
	1712		6.1	186		1449		6.5	198					
	2346		1.1	34		2135		0.4	12					
<b>9</b> F	0523		6.3	192	<b>21</b> W	0308		7.3	223					
	1211		0.8	24		1013		0.4	12					
	1754		6.1	186		1538		6.7	204					
						2228		0.4	12					
<b>10</b> Sa	0030		1.2	37	<b>22</b> Th	0358		7.2	219					
	0608		6.1	186		1059		0.3	9					
	1247		0.8	24		1628		6.9	210					
	1837		6.2	189		2321		0.4	12					
<b>11</b> Su	0118		1.2	37	<b>23</b> F	0449		6.9	210					
	0656		5.8	177		1146		0.3	9					
	1326		0.8	24		1719		7.0	213					
	1923		6.3	192										
<b>12</b> M ☾	0210		1.2	37	<b>24</b> Sa	0015		0.5	15					
	0749		5.6	171		0542		6.7	204					
	1410		0.9	27		1234		0.3	9					
	2012		6.3	192		1812		7.0	213					

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**DAYLIGHT  
SAVING TIME**

**Times ARE adjusted  
for DST.**



**PHILADELPHIA, PA • US COAST GUARD STATION**  
**SEPTEMBER 2024** **STATION ID 8545240**

**Times and Heights of High and Low Waters**

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b> Su	0044	6.9	210	<b>13</b> F	0433	1.3	40	<b>25</b> W	0245	0.9	27
	0742	0.7	21		1005	5.5	168		0815	5.8	177
	1311	6.2	189		1629	1.0	30		1447	0.9	27
	1944	0.8	24		2223	6.7	204		2040	6.7	204
<b>2</b> M	0129	6.9	210	<b>14</b> Sa	0532	1.1	34	<b>26</b> Th	0342	0.9	27
	0826	0.7	21		1102	5.8	177		0916	5.8	177
	1356	6.3	192		1732	0.9	27		1544	0.9	27
	2030	0.9	27		2321	7.0	213		2141	6.6	201
<b>3</b> Tu	0212	6.8	207	<b>15</b> Su	0627	0.9	27	<b>27</b> F	0439	0.9	27
	0907	0.7	21		1155	6.1	186		1014	5.9	180
	1439	6.3	192		1832	0.7	21		1642	0.9	27
	2115	1.0	30						2239	6.6	201
<b>4</b> W	0253	6.7	204	<b>16</b> M	0015	7.2	219	<b>28</b> Sa	0533	0.8	24
	0946	0.8	24		0720	0.7	21		1109	6.0	183
	1520	6.3	192		1246	6.4	195		1738	0.9	27
	2157	1.0	30		1929	0.5	15		2332	6.7	204
<b>5</b> Th	0333	6.6	201	<b>17</b> Tu	0107	7.3	223	<b>29</b> Su	0623	0.7	21
	1022	0.8	24		0809	0.5	15		1200	6.2	189
	1558	6.4	195		1335	6.7	204		1830	0.8	24
	2239	1.1	34		2023	0.4	12				
<b>6</b> F	0413	6.4	195	<b>18</b> W	0157	7.3	223	<b>30</b> M	0020	6.7	204
	1057	0.9	27		0857	0.4	12		0710	0.7	21
	1636	6.4	195		1424	7.0	213		1247	6.4	195
	2320	1.1	34		2117	0.3	9		1920	0.8	24
<b>7</b> Sa	0453	6.2	189	<b>19</b> Th	0246	7.2	219				
	1131	0.9	27		0944	0.3	9				
	1713	6.4	195		1512	7.2	219				
					2210	0.3	9				
<b>8</b> Su	0003	1.2	37	<b>20</b> F	0336	7.0	213				
	0535	5.9	180		1030	0.3	9				
	1206	0.9	27		1601	7.3	223				
	1750	6.5	198		2303	0.4	12				
<b>9</b> M	0049	1.2	37	<b>21</b> Sa	0427	6.8	207				
	0620	5.7	174		1117	0.4	12				
	1244	1.0	30		1652	7.3	223				
	1832	6.5	198		2357	0.5	15				
<b>10</b> Tu	0139	1.3	40	<b>22</b> Su	0521	6.4	195				
	0711	5.5	168		1206	0.5	15				
	1329	1.0	30		1744	7.2	219				
	1921	6.5	198								
<b>11</b> W	0234	1.3	40	<b>23</b> M	0052	0.7	21				
	0807	5.4	165		0616	6.2	189				
	1423	1.1	34		1257	0.7	21				
	2019	6.5	198		1840	7.1	216				
<b>12</b> Th	0333	1.3	40	<b>24</b> Tu	0147	0.8	24				
	0907	5.4	165		0715	5.9	180				
	1525	1.1	34		1350	0.8	24				
	2122	6.6	201		1939	6.9	210				

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean lower low water which is the chart datum of soundings.

**DAYLIGHT  
SAVING TIME**

Times ARE adjusted for DST.

**PHILADELPHIA, PA · US COAST GUARD STATION**  
**OCTOBER 2024** **STATION ID 8545240**

**Times and Heights of High and Low Waters**

	Time		Height			Time		Height			Time		Height	
	Day	h.m.	ft.	cm		Day	h.m.	ft.	cm		Day	h.m.	ft.	cm
<b>1</b>		0105	6.7	204	<b>13</b>		0501	0.9	27	<b>25</b>		0312	0.8	24
		0753	0.6	18			1034	6.0	183			0849	5.6	171
	Tu	1331	6.5	198			1710	0.8	24		F	1516	0.9	27
		2007	0.8	24			2255	6.8	207			2111	6.3	192
<b>2</b>		0147	6.6	201	<b>14</b>		0556	0.7	21	<b>26</b>		0406	0.8	24
		0833	0.7	21			1129	6.3	192			0947	5.8	177
	W	1412	6.6	201		M	1811	0.6	18		Sa	1613	0.9	27
	●	2051	0.9	27			2350	7.0	213			2208	6.3	192
<b>3</b>		0228	6.5	198	<b>15</b>		0649	0.5	15	<b>27</b>		0458	0.7	21
		0911	0.8	24			1220	6.8	207			1041	6.0	183
	Th	1450	6.6	201		Tu	1909	0.4	12		Su	1709	0.8	24
		2134	0.9	27								2301	6.3	192
<b>4</b>		0307	6.3	192	<b>16</b>		0042	7.0	213	<b>28</b>		0547	0.6	18
		0947	0.9	27			0739	0.3	9			1132	6.2	189
	F	1526	6.6	201		W	1310	7.1	216		M	1802	0.7	21
		2216	1.0	30			2005	0.3	9			2350	6.3	192
<b>5</b>		0347	6.1	186	<b>17</b>		0133	7.0	213	<b>29</b>		0633	0.5	15
		1022	1.0	30			0827	0.3	9			1219	6.4	195
	Sa	1601	6.6	201		Th	1358	7.4	226		Tu	1853	0.7	21
		2258	1.1	34		○	2059	0.2	6					
<b>6</b>		0426	5.9	180	<b>18</b>		0223	6.9	210	<b>30</b>		0036	6.3	192
		1056	1.0	30			0915	0.3	9			0716	0.5	15
	Su	1634	6.6	201		F	1446	7.5	229		W	1302	6.5	198
		2341	1.1	34			2152	0.2	6			1941	0.6	18
<b>7</b>		0506	5.7	174	<b>19</b>		0314	6.6	201	<b>31</b>		0120	6.2	189
		1132	1.0	30			1002	0.3	9			0757	0.6	18
	M	1707	6.6	201		Sa	1535	7.5	229		Th	1342	6.6	201
							2245	0.3	9			2027	0.6	18
<b>8</b>		0026	1.2	37	<b>20</b>		0405	6.4	195					
		0549	5.5	168			1050	0.5	15					
	Tu	1213	1.0	30		Su	1625	7.4	226					
		1747	6.6	201			2337	0.4	12					
<b>9</b>		0115	1.2	37	<b>21</b>		0459	6.1	186					
		0638	5.4	165			1140	0.6	18					
	W	1301	1.0	30		M	1718	7.1	216					
		1838	6.5	198										
<b>10</b>		0208	1.2	37	<b>22</b>		0030	0.6	18					
		0735	5.4	165			0554	5.9	180					
	Th	1358	1.0	30		Tu	1231	0.7	21					
	●	1943	6.5	198			1813	6.9	210					
<b>11</b>		0306	1.2	37	<b>23</b>		0124	0.7	21					
		0836	5.5	168			0652	5.7	174					
	F	1501	1.0	30		W	1324	0.8	24					
		2051	6.5	198			1911	6.6	201					
<b>12</b>		0404	1.1	34	<b>24</b>		0218	0.8	24					
		0936	5.6	171			0750	5.6	171					
	Sa	1606	0.9	27		Th	1419	0.9	27					
		2155	6.7	204		●	2012	6.4	195					

Time meridian 75° W.  
 0000 is midnight.  
 1200 is noon.

**DAYLIGHT  
 SAVING TIME**

**Times ARE adjusted  
 for DST.**

**PHILADELPHIA, PA • US COAST GUARD STATION**  
**NOVEMBER 2024** **STATION ID 8545240**

**Times and Heights of High and Low Waters**

Time		Height		Time		Height		Time		Height	
Day	h.m.	ft.	cm	Day	h.m.	ft.	cm	Day	h.m.	ft.	cm
<b>1</b>	0202	6.0	183	<b>13</b>	0518	0.2	6	<b>25</b>	0316	0.4	12
	0836	0.7	21		1055	6.8	207		0906	5.7	174
	F 1420	6.6	201		W 1751	0.2	6		M 1536	0.6	18
	● 2111	0.7	21		2319	6.5	198		2125	5.8	177
<b>2</b>	0243	5.8	177	<b>14</b>	0609	0.1	3	<b>26</b>	0405	0.3	9
	0914	0.8	24		1145	7.1	216		0957	6.0	183
	Sa 1456	6.6	201		Th 1847	0.1	3		Tu 1631	0.6	18
	2154	0.8	24						2216	5.7	174
<b>3</b>	0223	5.6	171	<b>15</b>	0011	6.4	195	<b>27</b>	0451	0.3	9
	0851	0.8	24		0659	0.1	3		1045	6.2	189
	Su 1430	6.6	201		F 1234	7.3	223		W 1723	0.5	15
	2137	0.8	24		○ 1941	0.0	0		2305	5.7	174
<b>4</b>	0302	5.5	168	<b>16</b>	0102	6.3	192	<b>28</b>	0536	0.3	9
	0929	0.9	27		0748	0.1	3		1129	6.3	192
	M 1503	6.5	198		Sa 1323	7.3	223		Th 1814	0.4	12
	2221	0.9	27		2034	0.1	3		2351	5.6	171
<b>5</b>	0342	5.4	165	<b>17</b>	0153	6.1	186	<b>29</b>	0620	0.4	12
	1009	0.9	27		0837	0.2	6		1211	6.4	195
	Tu 1539	6.5	198		Su 1411	7.2	219		F 1902	0.4	12
	2306	0.9	27		2126	0.1	3				
<b>6</b>	0425	5.3	162	<b>18</b>	0244	5.9	180	<b>30</b>	0036	5.4	165
	1054	0.8	24		0926	0.4	12		0703	0.4	12
	W 1621	6.5	198		M 1501	7.0	213		Sa 1250	6.4	195
	2354	0.9	27		2216	0.3	9		1948	0.4	12
<b>7</b>	0514	5.3	162	<b>19</b>	0337	5.7	174				
	1144	0.8	24		1015	0.5	15				
	Th 1715	6.4	195		Tu 1553	6.8	207				
					2307	0.4	12				
<b>8</b>	0046	0.9	27	<b>20</b>	0430	5.5	168				
	0609	5.3	162		1105	0.6	18				
	F 1241	0.8	24		W 1647	6.5	198				
	1819	6.4	195		2357	0.5	15				
<b>9</b>	0140	0.8	24	<b>21</b>	0525	5.4	165				
	0709	5.4	165		1156	0.6	18				
	Sa 1343	0.7	21		Th 1742	6.3	192				
	● 1925	6.3	192								
<b>10</b>	0235	0.7	21	<b>22</b>	0047	0.5	15				
	0809	5.7	174		0621	5.4	165				
	Su 1447	0.7	21		F 1249	0.7	21				
	2029	6.4	195		1839	6.1	186				
<b>11</b>	0331	0.5	15	<b>23</b>	0137	0.5	15				
	0908	6.0	183		0717	5.4	165				
	M 1550	0.5	15		Sa 1344	0.7	21				
	2129	6.4	195		● 1936	5.9	180				
<b>12</b>	0425	0.3	9	<b>24</b>	0227	0.4	12				
	1003	6.4	195		0813	5.6	171				
	Tu 1652	0.4	12		Su 1440	0.7	21				
	2225	6.5	198		2031	5.8	177				

Time meridian 75° W.

0000 is midnight.

1200 is noon.

Heights are referred to mean lower low water which is the chart datum of soundings.

**EASTERN  
STANDARD TIME/  
DAYLIGHT  
SAVING TIME**

**Times ARE adjusted  
for DST until  
November 3.**

**PHILADELPHIA, PA • US COAST GUARD STATION**  
**DECEMBER 2024** **STATION ID 8545240**

**Times and Heights of High and Low Waters**

	Time		Height			Time		Height			Time		Height		
	Day	h.m.	ft.	cm		Day	h.m.	ft.	cm		Day	h.m.	ft.	cm	
<b>1</b> Su ●	0118	5.3	162	<b>13</b> F	0543	-0.1	-3	<b>25</b> W	0318	0.2	6	●	0916	5.7	174
	0745	0.5	15		1123	6.8	207		1556	0.4	12				
	1328	6.4	195		1830	-0.1	-3		2140	5.1	155				
	2033	0.4	12		2351	5.7	174								
<b>2</b> M	0159	5.2	158	<b>14</b> Sa	0635	-0.1	-3	<b>26</b> Th	0407	0.2	6		1006	5.8	177
	0826	0.5	15		1214	6.9	210		1651	0.3	9				
	1405	6.4	195		1924	-0.1	-3		2232	5.1	155				
	2117	0.5	15												
<b>3</b> Tu	0240	5.1	155	<b>15</b> Su ○	0043	5.7	174	<b>27</b> F	0456	0.2	6		1053	6.0	183
	0909	0.5	15		0726	0.0	0		1744	0.2	6				
	1443	6.3	192		1303	6.9	210		2321	5.0	152				
	2202	0.5	15		2016	-0.1	-3								
<b>4</b> W	0321	5.1	155	<b>16</b> M	0134	5.6	171	<b>28</b> Sa	0544	0.2	6		1138	6.1	186
	0953	0.5	15		0815	0.1	3		1835	0.2	6				
	1524	6.3	192		1352	6.8	207								
	2247	0.5	15		2106	0.0	0								
<b>5</b> Th	0405	5.1	155	<b>17</b> Tu	0224	5.5	168	<b>29</b> Su	0008	5.0	152		0632	0.2	6
	1040	0.4	12		0904	0.1	3		1221	6.1	186				
	1610	6.3	192		1441	6.6	201		1923	0.2	6				
	2334	0.4	12		2154	0.0	0								
<b>6</b> F	0454	5.2	158	<b>18</b> W	0315	5.4	165	<b>30</b> M ●	0052	5.0	152		0718	0.2	6
	1131	0.4	12		0952	0.2	6		1303	6.2	189				
	1703	6.2	189		1530	6.4	195		2010	0.2	6				
					2241	0.1	3								
<b>7</b> Sa	0023	0.3	9	<b>19</b> Th	0405	5.3	162	<b>31</b> Tu	0135	5.0	152		0805	0.1	3
	0547	5.3	162		1039	0.3	9		1345	6.2	189				
	1227	0.4	12		1620	6.2	189		2052	0.0	0				
	1801	6.1	186		2326	0.2	6								
<b>8</b> Su ●	0114	0.2	6	<b>20</b> F	0456	5.2	158								
	0645	5.5	168		1128	0.4	12								
	1327	0.3	9		1711	6.0	183								
	1903	6.0	183												
<b>9</b> M	0207	0.1	3	<b>21</b> Sa	0012	0.2	6								
	0744	5.7	174		0548	5.2	158								
	1429	0.3	9		1217	0.4	12								
	2004	5.9	180		1803	5.7	174								
<b>10</b> Tu	0301	0.0	0	<b>22</b> Su ●	0057	0.2	6								
	0842	6.0	183		0640	5.3	162								
	1532	0.2	6		1309	0.5	15								
	2105	5.9	180		1857	5.5	168								
<b>11</b> W	0355	-0.1	-3	<b>23</b> M	0143	0.2	6								
	0938	6.4	195		0733	5.4	165								
	1634	0.1	3		1403	0.5	15								
	2203	5.8	177		1951	5.4	165								
<b>12</b> Th	0449	-0.1	-3	<b>24</b> Tu	0230	0.2	6								
	1032	6.7	204		0825	5.5	168								
	1733	0.0	0		1459	0.5	15								
	2258	5.8	177		2046	5.2	158								

Time meridian 75° W.  
0000 is midnight.  
1200 is noon.

**EASTERN  
STANDARD TIME**

# NOTES

