

MONMOUTH COUNTY

REFERENCE TIDE GAUGE - SANDY HOOK

The Sandy Hook tide gauge is located on the bay side of Sandy Hook.

Raritan Bay

For the Raritan Bay shoreline in Monmouth County there is only a small difference in the times of the high and low tides when compared to the Sandy Hook gauge. The times vary by 10 minutes or less along the length of the county's Raritan Bay shoreline.

Oceanfront

The high and low tides on the oceanfront occur up to 45 minutes earlier than the high and low tides at the Sandy Hook gauge.

Data Acquisition

In order to access data from the Sandy Hook gauge, use the National Ocean Service web site at <http://tidesonline.nos.noaa.gov/> or the Advanced Hydrologic Prediction Service site at <http://water.weather.gov/ahps2/index.php?wfo=phi>.

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The tide heights from actual events referenced in the following table are those that were verified by the National Ocean Service.

In the table an asterisk (*) indicates that location experiences back bay type flooding. Being that the reference gauge is on Sandy Hook Bay, the tide level associated with that particular location may vary somewhat from event to event based on the number of tide cycles during which there is an onshore flow.

THE PERIOD OF RECORD FOR THE SANDY HOOK GAUGE BEGINS IN JANUARY 1910. PLEASE NOTE THAT THERE ARE GAPS WITHIN THE PERIOD OF RECORD DUE TO EQUIPMENT OUTAGES AND/OR DATA AVAILABILITY.

ALL HEIGHTS ARE IN MEAN LOWER LOW WATER (**MLLW**).

- 14.4 FT — October 29, 2012 (Post Tropical Cyclone Sandy). This is an estimated value. The tide gauge failed about an hour before the actual high water level occurred.
- 10.1 FT — September 12, 1960 (Hurricane Donna)
December 11, 1992
- 9.8 FT — August 28, 2011 (Hurricane Irene)
- 9.7 FT — November 7, 1953

9.4 FT — September 14, 1944 (Hurricane)
March 6, 1962

9.0 FT — November 25, 1950
March 13, 2010

8.9 FT — January 23, 1966

8.8 FT — November 12, 1968

8.7 FT — MAJOR TIDAL FLOODING BEGINS.

At this level, flooding starts to become severe enough to begin causing structural damage along with widespread flooding of roadways. Vulnerable homes and businesses may be severely damaged or destroyed as water levels rise further above this threshold. Numerous roads become impassable and some neighborhoods may be isolated. The flood waters become a danger to anyone who attempts to cross on foot or in a vehicle.

March 29, 1984

March 13, 1993

8.6 FT — September 27, 1985 (Hurricane Gloria)
January 2, 1987
October 31, 1991

8.5 FT — April 13, 1961

8.3 FT — February 19, 1972
March 19, 1996

8.2 FT — October 18, 2009
February 8, 2016

8.1 FT — January 31, 2006
April 16, 2007

8.0 FT — October 14, 1955
December 26, 1969
December 2, 1974
April 16, 2011
June 4, 2012
January 10, 2016

7.9 FT — August 31, 1954 (Hurricane Carol)
December 22, 1972
October 25, 1980
February 24, 1998
December 25, 2002
November 14, 2009
January 23, 2016

7.8 FT — October 14, 1977
November 8, 1977
March 3, 1994
December 20, 1995
January 29, 1998
March 30, 2010

7.7 FT — MODERATE TIDAL FLOODING BEGINS.

At this level, widespread flooding of roadways begins due to high water and/or wave action with many roads becoming impassable. Lives may be at risk when people put themselves in harm's way. Some damage to vulnerable structures may begin to occur.

March 20, 1958
October 22, 1961
November 10, 1962
December 25, 1978
December 3, 1986
January 4, 1994
December 13, 1996
November 14, 1997
January 3, 2003
January 3, 2006
February 12, 2006
October 7, 2006
May 12, 2008
December 12, 2008
May 17, 2011
December 27, 2012
January 3, 2014
April 29, 2014

7.5 FT — Flooding begins along sections of NJ Route 35 in Aberdeen, Keyport and Hazlet as water backs up into tidal streams in the communities.

Flooding begins along sections of NJ Route 36 in Keyport, Hazlet and Middletown Township as water backs up into tidal streams in the communities.

Flooding begins along the access road to the Gateway National Recreation Area's Sandy Hook Unit.

Flooding reaches the intersection of Ocean Avenue (NJ Route 36) and River Street in Sea Bright*.

Flooding reaches the 1400 block of Ocean Avenue (NJ Route 36) in Sea Bright*.

7.3 FT — Flooding begins on Ocean Avenue (NJ Route 36) in Sea Bright around the base of the Shrewsbury River Bridge (Monmouth County Route 520)*.

Flooding begins around the bridge between Neptune City* and Shark River Hills (Neptune Township*).

7.0 FT — COASTAL FLOOD ADVISORY THRESHOLD.

- 6.9 FT — Flooding begins in Aberdeen, Keyport (along West Front Street), Union Beach, Keansburg, Middletown Township and Highlands. Flooding begins in Rumson*, Little Silver*, Oceanport*, Asbury Park, Ocean Grove, Bradley Beach, Avon, Belmar*, Spring Lake, Sea Girt and Brielle*.
Flooding begins in Neptune Township*.
- 6.7 FT — MINOR TIDAL FLOODING BEGINS.**
Flooding begins in Sea Bright*, Monmouth Beach*, Long Branch* and Manasquan*.
- 2.0 FT — LOW WATER ADVISORY THRESHOLD.**
- 3.0 FT — March 7, 1939
February 26, 1956
January 28, 1963
January 27, 1971
December 17, 1972
March 4, 1996
- 3.1 FT — February 10, 1933
December 20, 1934
January 25, 1939
March 3, 1950
- 3.2 FT — December 26, 1966
March 9, 2005
- 3.3 FT — February 14, 1942
December 3, 1942
January 24, 1945
February 15, 1946
November 30, 1955
February 25, 1967
March 17, 1976
March 16, 1980
- 3.4 FT — January 31, 1966
January 2, 1969
December 22, 1976
December 10, 1977
- 3.5 FT — December 8, 1939
March 19, 1941
February 8, 1951
March 28, 1955
- 3.6 FT — March 24, 1940
December 11, 1943
December 1, 1944
- 3.7 FT — February 10, 1947
- 3.8 FT — March 11, 1933
- 4.1 FT — January 6, 1959

- 4.2 FT — January 24, 1936
- 4.3 FT — December 31, 1962
- 4.4 FT — January 10, 1978
- 4.7 FT — February 2, 1976