

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.

There is a somewhat unique problem with the tidal streams in the county that drain north into Raritan Bay. Winds with a northerly component do not permit them to drain into the bay. Therefore, even after a "northeaster" has affected the region, the northwest winds on the back side of the system will continue to cause a buildup of water on the streams. The problem has worsened during recent years due to urban development in that area.

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://storms.nos.noaa.gov/>.

REFERENCE TIDE GAUGE - SANDY HOOK

The tide heights from actual events referenced in the following table are those that were verified by the National Ocean Service. They may vary slightly from figures found in National Weather Service publications.

In the table, an asterisk (*) indicates that location experiences back bay type flooding. Being that the reference gauge is on Raritan 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.

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

- 10.1 FT — September 12, 1960 (Hurricane Donna) and December 11, 1992.
- 9.7 FT — November 7, 1953.
- 9.4 FT — September 14, 1944 (Hurricane) and March 6, 1962.
- 9.0 FT — November 25, 1950.
- 8.8 FT — January 23, 1966 and November 12, 1968.
- 8.7 FT — SEVERE TIDAL FLOODING BEGINS.**
March 29, 1984 and March 13, 1993.
- 8.6 FT — September 27, 1985 (Hurricane Gloria); January 2, 1987 and October 31, 1991.
- 8.5 FT — April 13, 1961.
- 8.3 FT — February 19, 1972 and March 19, 1996.
- 8.1 FT — January 31, 2006 and April 16, 2007.
- 8.0 FT — October 14, 1955 and December 2, 1974.
- 7.9 FT — August 31, 1954 (Hurricane Carol); December 26, 1969; December 22, 1972; October 25, 1980; February 24, 1998 and December 25, 2002.
- 7.8 FT — October 14, 1977; March 3, 1994; December 20, 1995 and January 29, 1998.
- 7.7 FT — MODERATE TIDAL FLOODING BEGINS.**
March 20, 1958; October 22, 1961; November 10, 1962; December 25, 1978; December 3, 1986; January 4, 1994; December 13, 1996; November 14, 1997; February 5, 1998; January 3, 2003; January 3, 2006; February 12, 2006; October 7, 2006; May 12, 2008 and December 12, 2008.
Flooding occurs along sections of NJ Route 35 in Keyport and Hazlet as water backs up into tidal streams in the communities.
Flooding occurs along sections of NJ Route 36 in Keyport, Hazlet and Middletown Township as water backs up into tidal streams in the communities.
- 7.5 FT — Flooding occurs along the access road to the Gateway National Recreation Area's Sandy Hook Unit.
- 7.3 FT — Flooding occurs around the bridge between Neptune City* and Shark River Hills (Neptune Township*).
- 6.9 FT — Flooding begins in Aberdeen, Keyport, Union Beach, Middletown Township and Highlands.
Flooding begins in Rumson*, Little Silver*, Oceanport*, Asbury Park, Ocean Grove, Bradley Beach, Avon, Belmar*, Spring Lake and Brielle*.
Flooding occurs in the Shark River Hills section of Neptune Township*.
- 6.7 FT — MINOR TIDAL FLOODING BEGINS.**
Flooding begins in Sea Bright*, Monmouth Beach*, Long Branch* and Manasquan*.
- 1.8 FT — BLOWOUT TIDE.**
- 3.2 FT — March 9, 2005.
- 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.

UPDATED AUGUST 2009