

Saugerties Waterfront Tidal Flood Levels and Recent Crests

Water level relative to datum (ft)	NAVD88	NAVD29	MLLW	Source	Impacts
Superstorm Sandy, 10/30/2012	9.67		11.47	estimate relative to lighthouse benchmark, elev 6.75' NAVD88	~22" higher than Irene
Base Flood Elevation	8.2	9	10.8	FEMA Flood Map, Zone AE	
Hurricane Irene, 8/28/2011	7.83		9.63	estimate relative to lighthouse benchmark, elev 6.75' NAVD88	
Winter storm Gerri, 1/12/2024	6.62		8.42	8518962 Turkey Point Hudson River NERRS, NY	
Winter storm Elliott, 12/23/2022	6.51		8.31	8518962 Turkey Point Hudson River NERRS, NY	
Major flood level	6.4	7.2	8.2	Steven's Institute Tivoli Bays South	Flooding affects homes on Lighthouse Drive and Ferry Street, entering garages, crawlspaces, and ground-level floors; water over Lighthouse Drive
Moderate flood level	5.4	6.2	7.2	Steven's Institute Tivoli Bays South	The tidal Esopus Creek begins to spill over its banks and enter yards on Lighthouse Drive and Ferry Street
Minor flood level	4.4	5.2	6.2	Steven's Institute Tivoli Bays South	
Near flood level, or spring high tide (SHT)	3.4	4.2	5.2	Steven's Institute Tivoli Bays South	Water over low-lying sections of trail to the lighthouse
Mean Higher High Water (MHHW)	2.6	3.4	4.28	8518962 Turkey Point Hudson River NERRS, NY	
Links	Steven's Institute Tivoli Bays South: https://hudson.dl.stevens-tech.edu/sfas/d/index.shtml?station=HRTVBSH				
	NOAA 8518962 Turkey Point Hudson River NERRS, NY: https://tidesandcurrents.noaa.gov/waterlevels.html?id=8518962				
	Saugerties Lighthouse benchmark data sheet: https://www.ngs.noaa.gov/cgi-bin/ds_mark.prl?PidBox=MZ0778				
	FEMA Flood Map: https://map1.msc.fema.gov/firm?id=3615040001C				
Register for email flood notifications	https://hudson.dl.stevens-tech.edu/SFAS/				