NWS WARNINGS AND ADVISORIES FOR SOUTHERN NEW ENGLAND

(Last Updated: December 4, 2015)

The following are National Weather Service criteria for issuing Watches/Warnings/Advisories:

<u>Watches:</u> 50% confidence of meeting **Warning** criteria (generally within 36-48+ hours).

<u>Advisories and Warnings:</u> 80% confidence in the event occurrence (generally within 24-36 hours).

TYPE OF ISSUANCE

WINTER WEATHER ADVISORY



WHEN ISSUED FOR SOUTHERN NEW ENGLAND

More than one predominant hazard

 Winter weather event having more than one predominant hazard (ie., snow and ice, snow and sleet, or snow, ice & sleet) meeting or exceeding advisory criteria for at least one of the precipitation elements, but remaining below warning criteria.

Snow, Ocean Effect Snow, and/or Sleet

• 3 inches averaged over a forecast zone in 12 hours (except 4 inches in Berkshire/Litchfield Counties)

Snow and Blowing Snow

• Sustained or frequent gusts of 25 to 34 mph accompanied by falling and blowing snow occasionally reducing visibility to $\leq 1/4$ mile for ≥ 3 hours

Blowing Snow

• Widespread or localized blowing snow reducing visibility to $\leq \frac{1}{4}$ mile with winds ≤ 35 mph

Black Ice

 A Special Weather Statement will usually be issued when sufficient moisture is expected to cause a thin layer of ice on road surfaces, typically on cloudless nights ("black ice"). At forecaster discretion a formal Winter Weather Advisory may be issued instead.

FREEZING RAIN ADVISORY

Any accretion of freezing rain or freezing drizzle on road surfaces

WIND CHILL ADVISORY

Wind chill index between -15°F and -24°F for at least 3 hours using only the sustained wind

WINTER STORM WARNING



More than one predominant hazard

 Winter weather event having more than one predominant hazard {ie. heavy snow and blowing snow (below blizzard conditions), snow and ice, snow and sleet, sleet and ice, or snow, sleet and ice} meeting or exceeding warning criteria for at least one of the precipitation elements.

Snow, Ocean Effect Snow, or Sleet

- 6 inches averaged over a forecast zone in a *12 hour period* (except 7 inches in Berkshire and Litchfield Counties)
- 8 inches averaged over a forecast zone in a **24 hour period** (except 9 inches in Berkshire and Litchfield Counties)

falling and/or blowing snow frequently reducing visibility < 1/4

mile for ≥ 3 hours (*Blizzard conditions need to be the*

predominant condition over a 3 hour period)

ICE STORM WARNING

½ inch or greater accretion of freezing rain in any zone

WIND CHILL WARNING Wind chill index \leq -25°F for at least 3 hours using only sustained

wind

WIND ADVISORY Sustained winds 31-39 mph (27-34 kts) for at least 1 hour; OR

any gusts to 46-57 mph (40-49 kts)

HIGH WIND WARNING Sustained winds ≥ 40 mph (≥ 35 kts) for at least 1 hour; OR any

gusts \geq 58 mph (\geq 50 kts)

TROPICAL STORM WARNING Sustained winds 39-73 mph (34-63 kts) (no gust criteria)

associated with a tropical storm expected to affect a coastal or

inland zone within 36 hours

HURRICANE WARNING Sustained winds ≥ 74 mph (≥ 64 kts) (no gust criteria) associated

with a hurricane expected to affect a coastal or inland zone

within 36 hours

EXTREME WIND WARNING Short-fused warning for onset of extreme winds, defined as

sustained at 111+ mph (equivalent to a Category 3+ hurricane). This is typically used for the approach of the eyewall of a major

landfalling hurricane.

SMALL CRAFT ADVISORY Sustained winds or frequent gusts 25-33 kts (> 2 hrs) AND/OR

Seas \geq 5 feet within 24 hours (marine only)

GALE WARNING Sustained winds or frequent gusts 34-47 kts (> 2 hrs) within 24

hrs from a non-tropical system (marine only)

STORM WARNING Sustained winds or frequent gusts 48-63 kts (> 2 hrs) within 24

hours from a non-tropical system (marine only)

HURRICANE FORCE Sustained winds or frequent gusts ≥ 64 kts (> 2 hrs) within

WIND WARNING 24 hours from a non-tropical system (marine only)

SPECIAL MARINE WARNING Brief/sudden occurrence of sustained wind or frequent gusts ≥ 34

kts, usually associated with thunderstorms, AND/OR hail $\geq \frac{3}{4}$ "

in diameter; also issued for waterspouts

SEVERE THUNDERSTORM

WARNING

Thunderstorms with wind gusts ≥ 58 mph (≥ 50 kts)

AND/OR hail ≥ 1" (quarter size) in diameter

TORNADO WARNING

Likelihood of a tornado within the given area based on radar or

actual sighting; usually accompanied by conditions indicated

above for "Severe Thunderstorm Warning"

FLOOD ADVISORY Expected inundation by water of some low lying and poor

drainage areas, resulting in a nuisance to the public but not a

threat to life and property.

FLASH FLOOD WARNING

Rapid and extreme flow of high water into a normally dry area, or a rapid water level rise in a stream or creek above a predetermined flood level, beginning within a short timeframe from the onset of heavy rain. A dam or levee failure, or water released from an ice jam is also considered.

FLOOD WARNING Expected overflow or inundation by water which causes or will

cause damage and/or a threat to life.

RIVER FLOOD WARNING Water level at a River Forecast point along a main stem river

(such as the Merrimack, Nashua or Charles) is expected to reach

or exceed flood stage.

COASTAL FLOOD ADVISORY Minor coastal flooding expected. Examples include: splashover

that causes a few roads to be briefly impassable, standing water

in parking lots, etc.

COASTAL FLOOD WARNING Widespread serious (moderate or major) coastal flooding is

expected to damage property AND/OR pose a threat to life.

EXCESSIVE HEAT WARNING Daytime heat indices of $\geq 105^{\circ}F$ for 2 or more hours

HEAT ADVISORY Daytime heat indices of 100°F-104°F for 2 or more hours

HEAT WAVE Issued for non-criteria warning/advisory heat. A heat wave is

defined as 3 or more days of $\geq 90^{\circ}$ F temperatures.

DENSE FOG ADVISORY Widespread visibility $\leq 1/4$ mile for at least 3 hours

FREEZING FOG ADVISORY Very light ice accumulation from predominantly fog at or below

freezing temperatures

FROST ADVISORY Issued under clear, light wind conditions with forecast minimum

shelter temperature 33-36°F during growing season

When minimum shelter temperature drops to < 32°F during FREEZE WARNING

growing season

HIGH SURF ADVISORY When high surf poses a danger to life in the form of rip currents

> or breaking seas. Generally issued when 7+ foot incoming seas reported at the buoys from Memorial Day through September.

RED FLAG WARNING

High degree of confidence that dry fuels and weather conditions support extreme fire danger within 24 hours using the following criteria as a guide:

- Winds sustained or with frequent gusts ≥ 25 mph
- Relative Humidity at or below 30% anytime during the day
- Rainfall amounts for the previous 5 days less than 0.25 inches (except 3 days in pre-greenup)
- Lightning after an extended dry period
- Significant dry frontal passage
- Dry thunderstorms
- Keetch-Byram Drought Index values of 300 or greater (summer only)