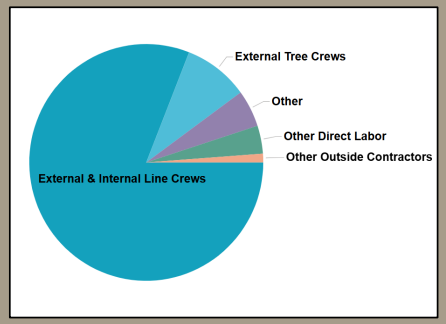
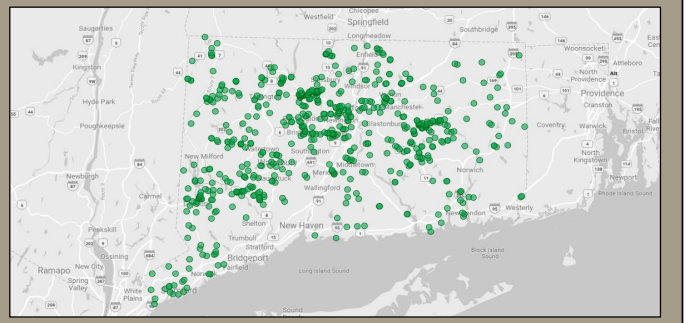
MS24H – Thunderstorm – Event Matrix Level 5 – June 30, 2024

Major Storm 24H impacted sparse areas of Connecticut.

Storm Costs

Category	Amount
Internal & External Line Crews	$5,351,490
External Tree Crews	$591,822
Other Outside Contractors	$78,563
Other Direct Labor	$253,047
Other	$333,849
Storm Total*	$6,608,772

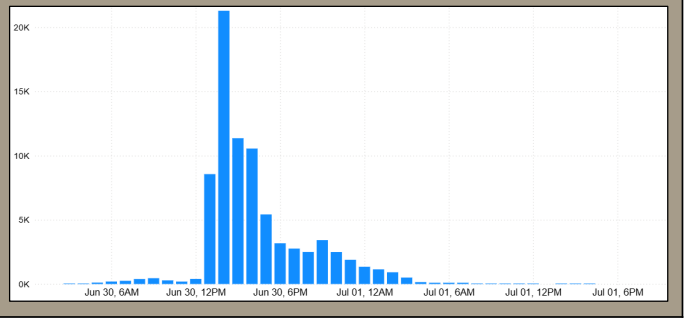




Storm Statistics

Outage Events	Non-Outage Events	Total Events	Total Customers	Cost Per Event
339	280	679	30,610	$9,733

Customer Restoration Curve



Event Level Matrix (ELM) Level 5

ELM Measure	Expectation	Actual
Trouble Spots	<3000	679
Line Resources	290 | 550	413

FPS Events

FPS Type	# of Events
FPS 1	2
FPS 2	91
FPS 3	76

*Amounts may not add due to rounding.

CL&P Storm Prudency

Thunderstorm Event:
June 30, 2024

Synopsis – Overview

An unstable humid air preceded passage of a cold front which interacted with the atmospheric instability to support the development of a relatively quick moving area of strong thunderstorms. The Storm Prediction Center's categorical outlook was issued by 0800 hours for Slight (scattered to isolated intense) to Enhanced (numerous to intense) storms. These storms caused a dense coverage of lightning strikes from west to east across most of CT from approximately 1200 to 1600 hours on the 30th .

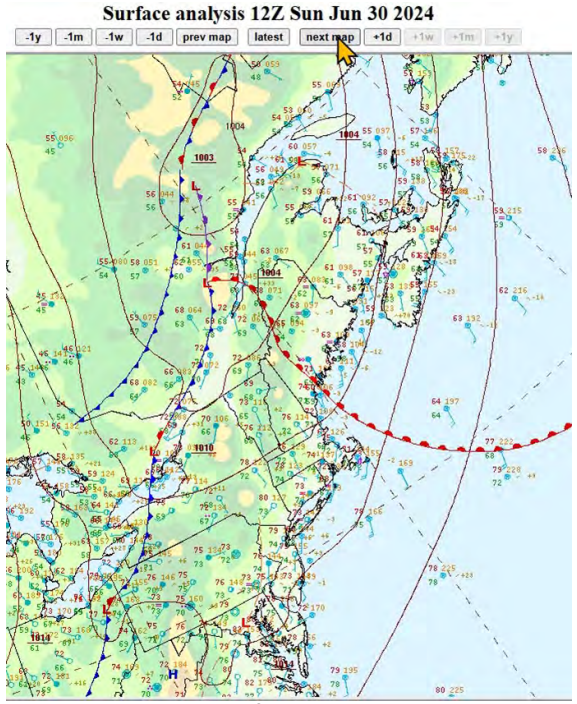
UtiliWeather®

D. Scerbo, Meteorologist

June 30 2024: Heat and Thunderstorm Event

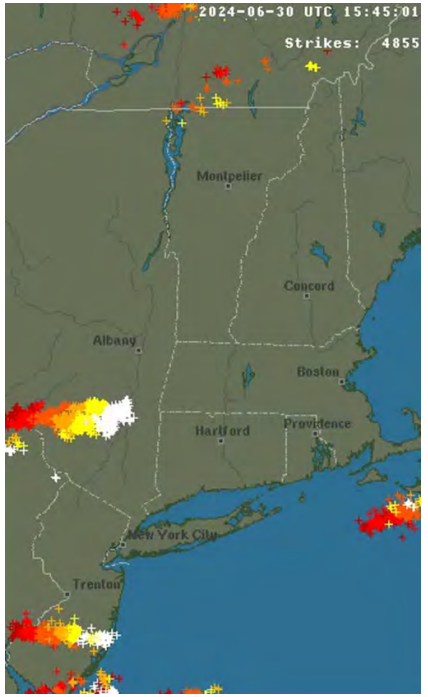
Observed Total # of Trouble Events for CT: 476

Surface Chart (click on map to loop)



Map ref: NWS WPC

Lightning Strikes (click on map to loop)



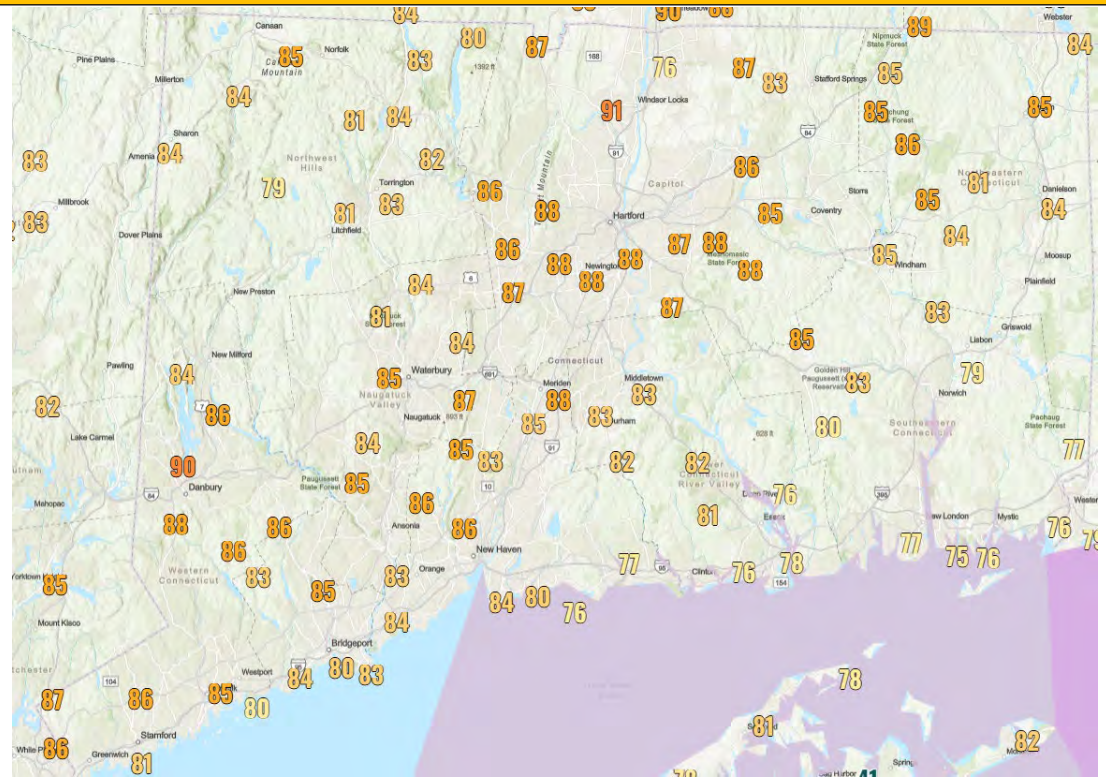
Ref: blitzortung.org

UtiliWeather®

UtiliWeather®

June 30, 2024 Thunderstorm Event

Observed Max Temperatures



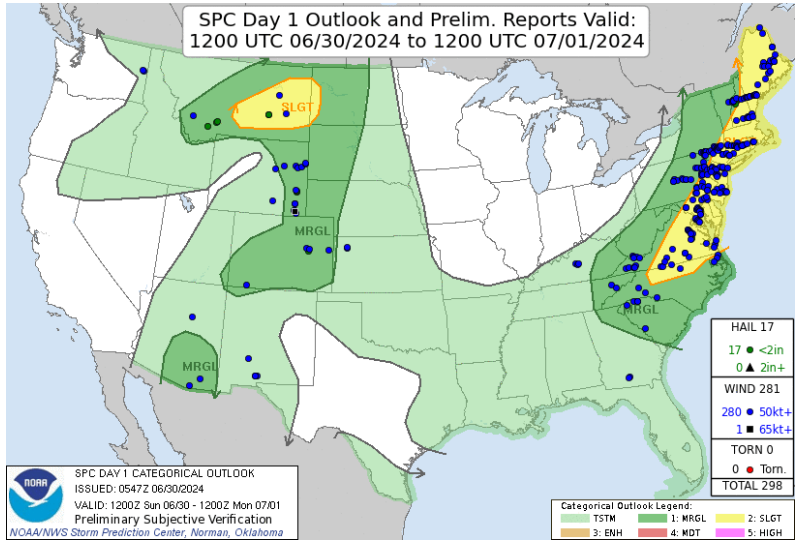
Map: NWS Weather and Hazards Data Viewer

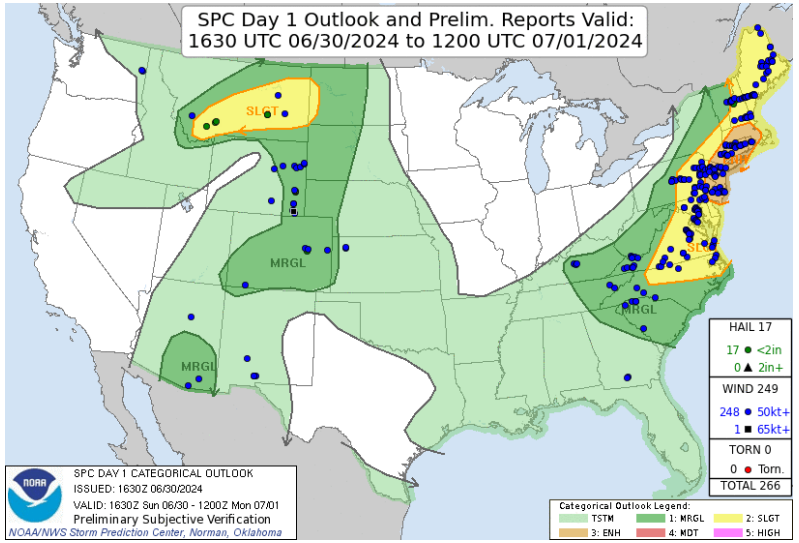
UtiliWeather®

UtiliWeather®

June 30, 2024 Thunderstorm Event

SPC Categorical, SPC Storm reports

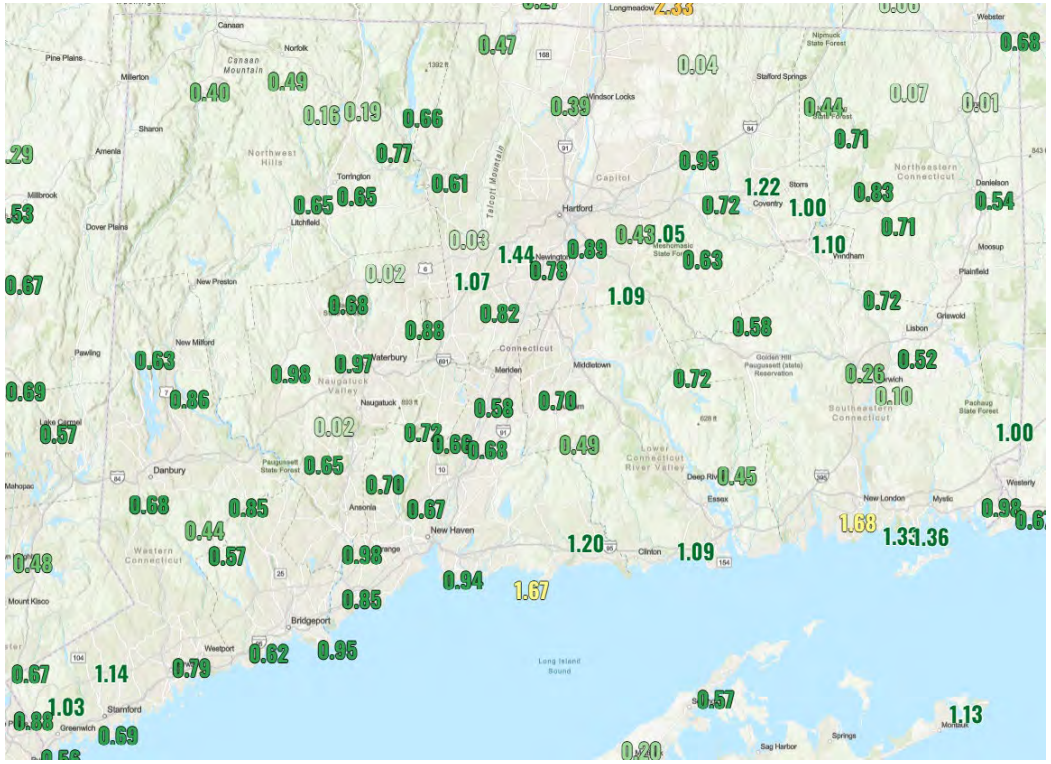




UtiliWeather®

June 30, 2024 Thunderstorm Event

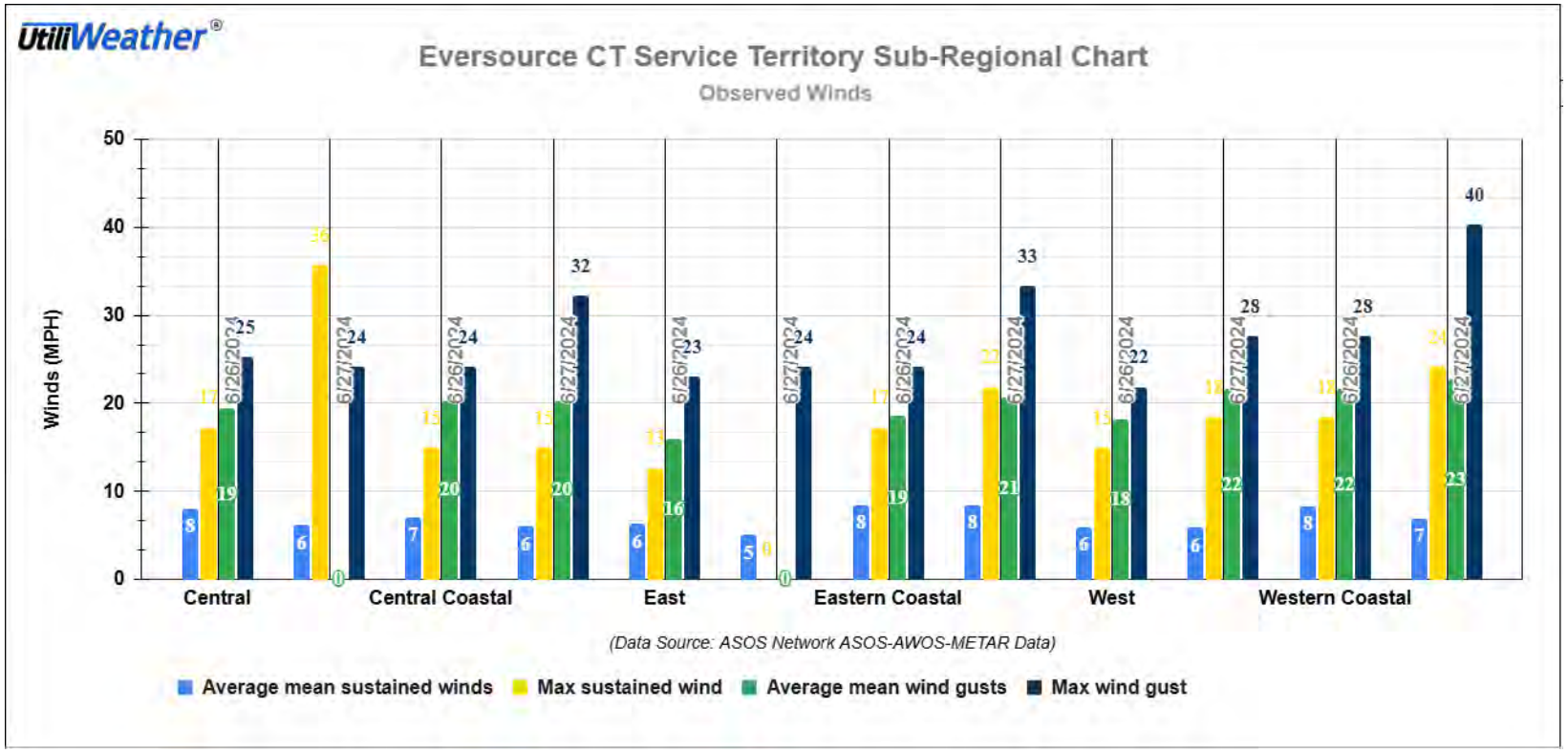
Total Rainfall (in)



Map: NWS Weather and Hazards Data Viewer

UtiliWeather®

Wind Profiles



NOAA Storm Events Database

NOAA NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Storm Events Database

Search Results for All Counties in Connecticut

All Available Event Types

Due to changes in the methods used by the NWS to spatially locate Waterspouts, please query by state (FL, TX, VA, etc) for Jan 1996 through Sep 2001. Beginning October 2001, please query by Marine Zone (N. Atlantic, S Atlantic, Gulf of Mexico, S Pacific, N. Pacific, Alaskan Waters, Hawaiian Waters, Great Lakes, etc) using the drop-down box for "State/Area".

26 events were reported on 06/30/2024

Summary Info:

Number of County/Zone areas affected:	6
Number of Days with Event:	1
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	1
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	3

Location	County/Zone	St.	Date	Time	T.Z.	Type
Totals:						
FALLS VLG	LITCHFIELD CO.	CT	06/30/2024	11:40	EST-5	Thunderstorm Wind
PINE GROVE	LITCHFIELD CO.	CT	06/30/2024	11:40	EST-5	Thunderstorm Wind
NEWFIELD	LITCHFIELD CO.	CT	06/30/2024	12:02	EST-5	Thunderstorm Wind
WEATOGUE	HARTFORD CO.	CT	06/30/2024	12:25	EST-5	Thunderstorm Wind
CANTON	HARTFORD CO.	CT	06/30/2024	12:25	EST-5	Thunderstorm Wind
HARTFORD	HARTFORD CO.	CT	06/30/2024	12:35	EST-5	Thunderstorm Wind
WEST HARTFORD	HARTFORD CO.	CT	06/30/2024	12:35	EST-5	Thunderstorm Wind
WAREHOUSE PT	HARTFORD CO.	CT	06/30/2024	12:35	EST-5	Thunderstorm Wind
(HFD)HARTFORD-BRANRD	HARTFORD CO.	CT	06/30/2024	12:40	EST-5	Thunderstorm Wind
WETHERSFIELD	HARTFORD CO.	CT	06/30/2024	12:40	EST-5	Thunderstorm Wind
NEWINGTON	HARTFORD CO.	CT	06/30/2024	12:45	EST-5	Thunderstorm Wind
MILL PLAIN	FAIRFIELD CO.	CT	06/30/2024	12:47	EST-5	Thunderstorm Wind
WEST HARTFORD	HARTFORD CO.	CT	06/30/2024	13:00	EST-5	Flash Flood
WASHINGTON	LITCHFIELD CO.	CT	06/30/2024	13:00	EST-5	Flash Flood
STATE LINE	TOLLAND CO.	CT	06/30/2024	13:04	EST-5	Lightning
GILEAD	TOLLAND CO.	CT	06/30/2024	13:05	EST-5	Thunderstorm Wind
GILEAD	TOLLAND CO.	CT	06/30/2024	13:05	EST-5	Thunderstorm Wind
COLUMBIA	TOLLAND CO.	CT	06/30/2024	13:10	EST-5	Thunderstorm Wind
OXFORD	NEW HAVEN CO.	CT	06/30/2024	13:11	EST-5	Thunderstorm Wind
PERKINS CORNER	TOLLAND CO.	CT	06/30/2024	13:18	EST-5	Thunderstorm Wind
WINDHAM	WINDHAM CO.	CT	06/30/2024	13:30	EST-5	Thunderstorm Wind
GERMANTOWN	FAIRFIELD CO.	CT	06/30/2024	13:30	EST-5	Thunderstorm Wind
CANTERBURY	WINDHAM CO.	CT	06/30/2024	13:40	EST-5	Thunderstorm Wind
DANBURY	FAIRFIELD CO.	CT	06/30/2024	13:42	EST-5	Flash Flood
SOUTHINGTON	HARTFORD CO.	CT	06/30/2024	13:45	EST-5	Flash Flood
PLAINVILLE ARPT	HARTFORD CO.	CT	06/30/2024	14:06	EST-5	Flash Flood

SEVERE THUNDERSTORM WATCH ISSUED
UPDATE FROM DESPP/DEMHS
11:30 AM – JUNE 30TH 2024

Connecticut Department of Emergency Services & Public Protection
Division of Emergency Management & Homeland Security

Governor Ned Lamont
Ronnell A. Higgins, Commissioner
Brenda M. Bergeron, Deputy Commissioner
William H. Turner III, Director

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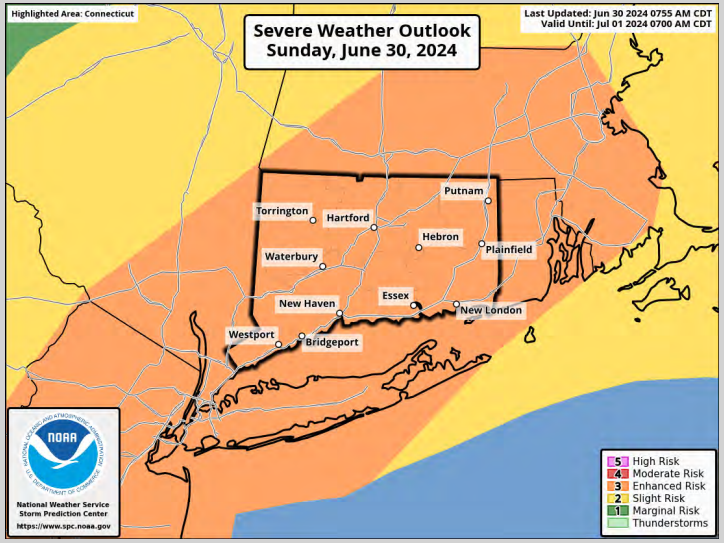
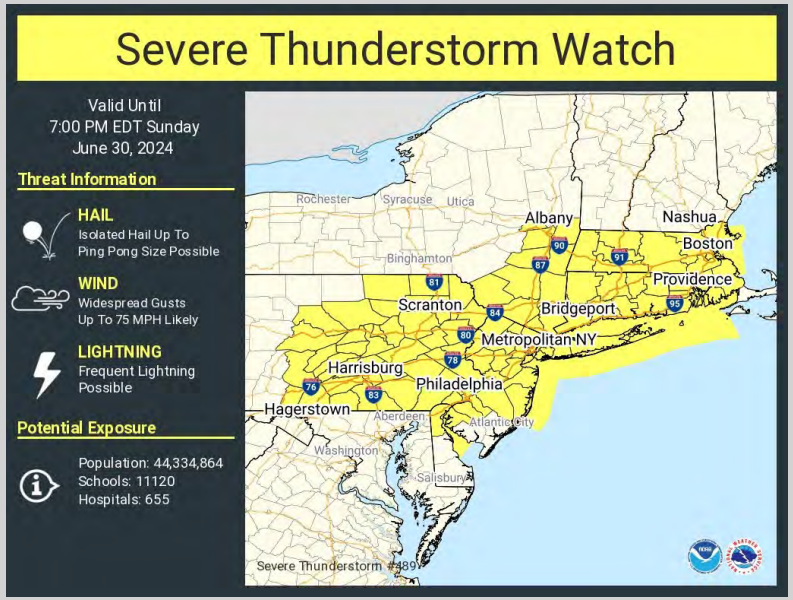
STORM PREDICTION CENTER FORECAST

SPC Forecast for this Afternoon and Evening



The Storm Prediction Center (SPC) has placed Connecticut into the Enhanced Risk Category for severe thunderstorms this afternoon and this evening.

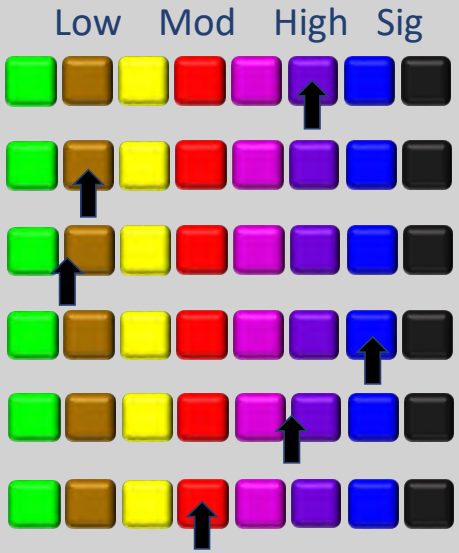
SEVERE THUNDERSTORM WATCH



A Severe Thunderstorm Watch has been issued for ALL of Connecticut until 7:00 PM.

HAZARDS EXPECTED

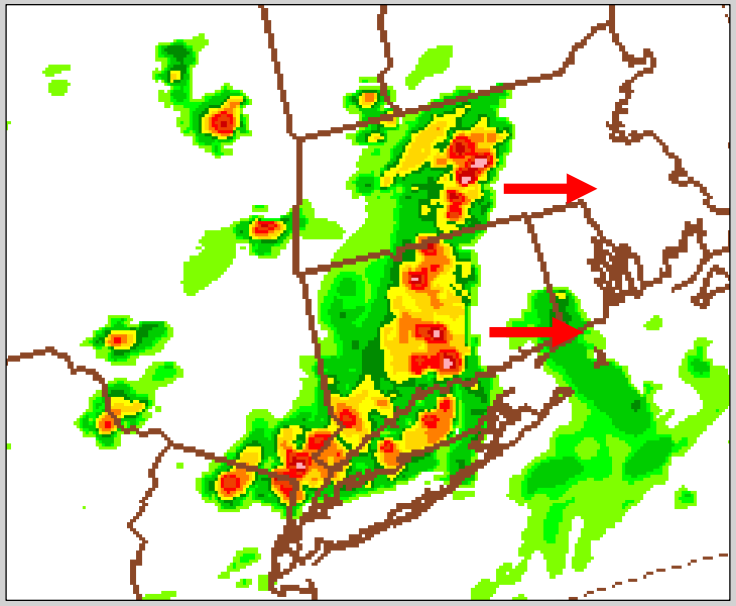
PRIMARY HAZARDS



The SPC is forecasting that any thunderstorms that develop will have a 30% chance of containing strong winds, a 5% chance of containing large hail and a 2% chance of containing a weak tornado. Another threat is expected to result from heavy rainfall (rainfall rates of 1" – 2" per hour) and dangerous lightning within severe thunderstorms.

SIMULATED RADAR – 1st Round

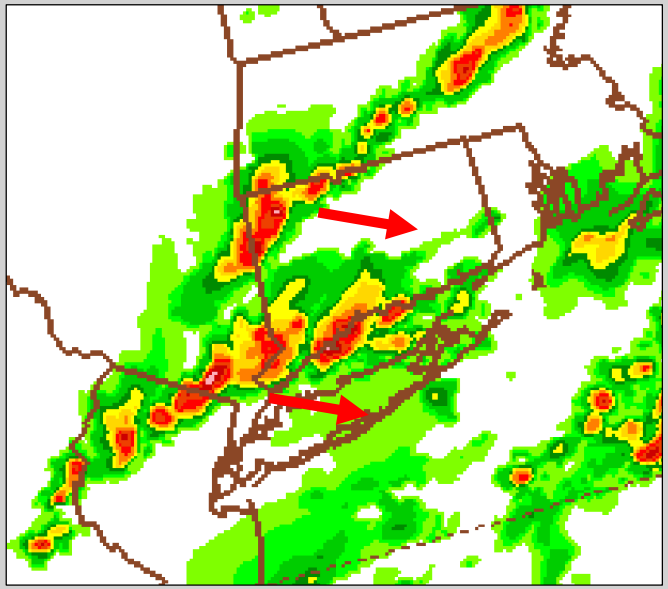
Simulated Radar at 3:00 PM This Afternoon



The HRRR is currently forecasting that two rounds of strong to severe thunderstorms will form this afternoon and this evening and move across Connecticut. The first round of thunderstorms is shown to the left at 3:00 PM. Temperatures are likely to rise above 90 F by 2:00 PM which is expected to result in stronger and more severe thunderstorms with a higher risk for strong straight line winds and an isolated tornado.

SIMULATED RADAR – 2nd Round

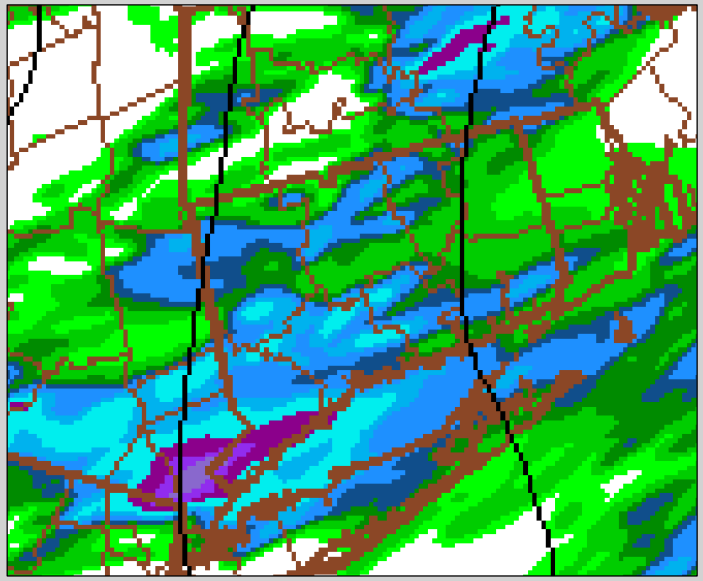
Simulated Radar at 7:00 PM This Afternoon



A second round of strong to severe thunderstorms is expected to move across Connecticut between 6:00 – 9:00 PM. The simulated radar image to the left shows the second round of thunderstorms at 7:00 PM.

TOTAL RAINFALL

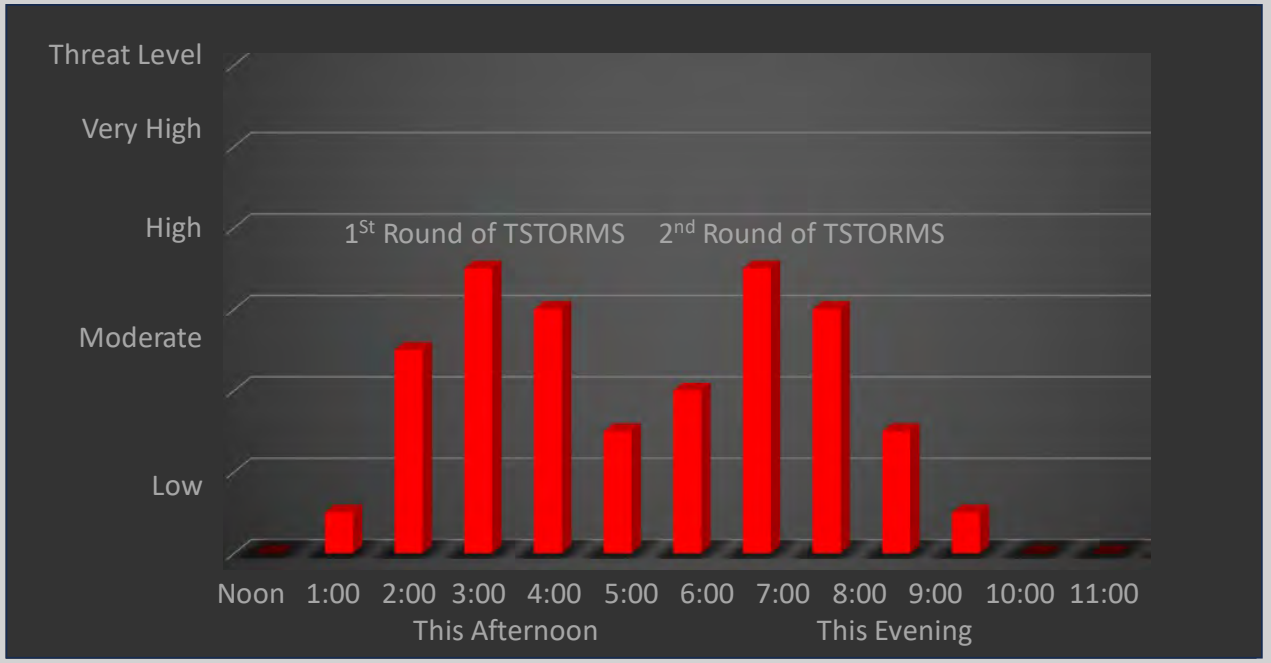
Total Rainfall from Both Rounds - HRRR Model



The HRRR is currently forecasting that southwestern CT will receive the highest rainfall (3” – 4”) as a result of both rounds of thunderstorms moving along the coast. The rest of the state is currently forecast to receive 1” – 2” of rainfall.

Actual rainfall will depend on exactly where thunderstorms form this afternoon and early this evening and may differ from this forecast.

Threat Timing for All Hazards



The Department of Emergency Services and Public Protection, Division of Emergency Management and Homeland Security will continue to monitor this severe weather threat. Additional updates will be sent out as warranted. Please report any significant storm damage to your regional coordinator.

Governor Ned Lamont
Ronnell A. Higgins, Commissioner
Brenda M. Bergeron, Deputy Commissioner
William H. Turner III, Director

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Preparedness Briefing

CONNECTICUT

EVERSOURCE

Sunday, June 30, 2024, 1:30 p.m.

Eversource Continues to Prepare for Severe Thunderstorms and High Winds

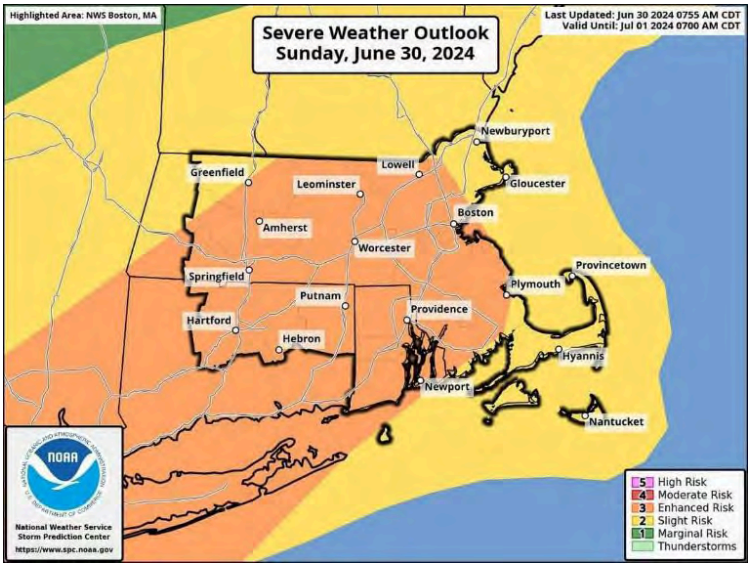
Operational Status: WARNING

Electric Emergency Event Level: ERP Level 5 planned for activation at 2 p.m. today.

Gas Emergency Event Level: Normal operation.

OVERVIEW

- Strong thunderstorms ahead of a cold front bringing high winds and heavy rainfall are moving into the northwest corner of Connecticut and are expected to move west to east today in two waves — one this afternoon and another one later this evening. Both events are predicted to bring high winds of up to 65 mph in isolated areas, while most areas could receive winds up to 45 mph. Confidence in the weather forecast is high.
- Radar is showing severe weather and damage behind the storms moving into Connecticut from New York.
- Trees and limbs have already been weakened by the severe weather that moved through our state Wednesday into Thursday, June 26-27. Wind gusts at these levels have the potential to bring down additional trees and limbs onto our electric equipment and will limit our ability to respond to community priorities and outages during the storm's peak. We will respond to outages as quickly as safety allows.
- Over the past week, Eversource staffing has remained in ongoing monitoring status as these weather systems have continued to build and move through the state requiring restoration of approximately 200,000 customers to date. Eversource staffing will remain on monitoring status as we work through ongoing weather threats.
- Based on current forecasts, Eversource Electric will declare an ERP Level 5 today at 2 p.m., indicating the potential for up to 125,000 customers without power and less than 3,000 tree-related damage locations on the system.



RESOURCE PLANNING

- Eversource is planning to open its Emergency Operation Centers (EOCs) in Hartford, New London and Newtown tomorrow, July 1, at 6 a.m.
- Eversource has secured external resources and continues to onboard additional crews ahead of impact (see chart below).

PERSONNEL AVAILABLE FOR JUNE 30, 2024			
Distribution Line Crews Total	177	Eversource Crews	64
		Contractor Crews	113
Transmission Crews Total	13	Eversource Crews	3
		Contractor Crews	10
Service Crews	30		
RSO Trouble Shooters	109		
Substation Electricians	TBD		
Tree Crews	177		
Damage Assessors	70		
Wire Guards	27		
Crew numbers will change as we secure and/or release resources. Response Specialist Organization (RSO) Trouble Shooters are Eversource line workers in addition to total Distribution Line Crews.			

GAS OPERATIONS

- Gas Operations does not anticipate any significant impacts to the gas distribution systems and remains prepared to respond to any unanticipated issues.

PRE-STORM COMMUNICATIONS

- Outbound calls to medically-coded customers were delivered this morning at 11 a.m.
- Regulatory Affairs has notified and will continue to communicate with state regulators and other state agencies regarding the incoming weather events.
- Eversource Community Relations is connecting with municipalities, and the Liaison Organization will be activated at 2 p.m.
- Eversource Media Relations has been sharing information on our social media channels on how customers can prepare for the weather, stay safe and report an outage.

APPROVED BY:
Bill Gelinas, Connecticut Incident Commander, Electric Operations
Mike Needham, Incident Commander, Gas Operations

Emergency Briefing
CONNECTICUT

EVERSOURCE

Sunday, June 30, 2024, at 8:30 p.m.

Outages From Afternoon Thunderstorms Scattered Across Connecticut

Operational Status: EMERGENCY

Electric Emergency Response Plan (ERP) Incident Level: ERP Level 5 (Minor Impact)

Gas Emergency Response Plan (ERP) Incident Level: Normal Operation

OVERVIEW

- Strong thunderstorms ahead of a cold front brought high winds and heavy rain across the state. Although the second wave of thunderstorms shifted south and away from Connecticut, scattered thunderstorms could develop across the state later this evening.
- Restoration priorities at this time are responding to fire and safety emergency calls, clearing blocked roads and restoring critical facilities. There are currently 14 blocked roads and 4 critical facilities without power. We have cleared 37 blocked roads and restored 36 critical facilities. Currently, about 2,000 customers are without power and over 33,000 have been restored.
- Over the past week, Eversource staffing has remained in ongoing monitoring status as these weather systems have continued to build and move through the state requiring restoration of approximately 200,000 customers to date. Eversource staffing will remain on monitoring status as we work through ongoing weather threats.
- Eversource Electric declared an ERP Level 5 today at 2 p.m., indicating the potential for up to 125,000 customers without power and less than 3,000 tree-related damage locations on the system.

RESOURCE PLANNING

- Eversource secured internal and external resources ahead of impact (see chart below) and is prepared to move resources to address areas receiving the highest impacts to expedite restoration.

PERSONNEL AVAILABLE FOR JULY 1, 2024			
Distribution Line Crews Total	304	Eversource Crews	64
		Contractor Crews	240
Transmission Crews Total	13	Eversource Crews	3
		Contractor Crews	10
Service Crews	0		
RSO Trouble Shooters	109		
Substation Electricians	82		
Tree Crews	181		
Damage Assessors	45		
Wire Guards	31		
Crew numbers will change as we secure and/or release resources. Response Specialist Organization (RSO) Trouble Shooters are Eversource line workers in addition to total Distribution Line Crews.			

GAS OPERATIONS

- Gas Operations did not have any significant impacts to the gas distribution systems from this afternoon's severe storms and remains prepared to respond to any unanticipated issues.

STORM COMMUNICATIONS

- Customers without power are receiving estimated times of restoration (ETR) via text, email or phone through our automated system as crews work on damage.
- Regulatory Affairs continues to provide updates and communication to state agencies regarding the severe weather event and our storm response.
- Eversource's Liaison Organization is actively managing all community engagement and municipal priorities.
- Eversource social media channels are sharing information on how customers can report an outage and stay safe.
- The homepage of Eversource.com is displaying storm information and how to report an outage.

APPROVED BY:
Bill Gelinas, Connecticut Incident Commander, Electric Operations
Mike Needham, Incident Commander, Gas Operations

Emergency Briefing
CONNECTICUT

EVERSOURCE

Monday, July 1, 2024, at 9:30 a.m.

Eversource Returning to Normal Operations After Storm Restoration

Operational Status: NORMAL

Electric Emergency Response Plan (ERP) Incident Level: Normal Operation

Gas Emergency Response Plan (ERP) Incident Level: Normal Operation

OVERVIEW

- Eversource safely restored more than 40,000 customers who lost power due to strong thunderstorms that brought high winds and heavy rain across the state yesterday.
- A total of 55 blocked roads were cleared and 40 critical facilities were restored.
- Currently, about 550 customers remain to be restored. Crews are focused on restoring these customers as quickly as safety allows.
- Eversource staffing remains in ongoing monitoring status as we work through the ongoing summer weather threats.
- Eversource Electric declared an ERP Level 5 yesterday at 2 p.m., indicating the potential for up to 125,000 customers without power and less than 3,000 tree-related damage locations on the system.
- This will be the last briefing for this storm event. Contractor crews will be released as our remaining customers are restored.

RESOURCE PLANNING

- Eversource is returning to normal staffing levels to address any routine issues that may occur or any issues arising from yesterday's damage.

GAS OPERATIONS

- Gas Operations did not have any significant impacts to the gas distribution systems from yesterday's severe storms and remains prepared to respond to any unanticipated issues.

STORM COMMUNICATIONS

- Customers without power are receiving estimated times of restoration (ETR) via text, email or phone through our automated system as crews work on damage.
- Regulatory Affairs continues to provide updates and communication to state agencies regarding the severe weather event and our storm response.
- Eversource Community Relations is managing all community engagement and any remaining storm related inquiries from municipal officials.
- Eversource social media channels are sharing information on storm damage, how customers can report an outage and stay safe.
- The homepage of Eversource.com is displaying storm information and how to report an outage.

APPROVED BY:
Bill Gelinas, Connecticut Incident Commander, Electric Operations
Mike Needham, Incident Commander, Gas Operations

July 22, 2024

Mr. Jeffrey R. Gaudiosi
Executive Secretary
Public Utilities Regulatory Authority
10 Franklin Square
New Britain, CT 06050

Re: Docket No. 86-11-18 – DPUC Review of Performance of UI, CL&P and SNETCO in Restoring Service After Storm Carl – Order No. 6 Compliance

Dear Mr. Gaudiosi:

The Connecticut Light and Power Company dba Eversource Energy (the "Company") provides this compliance information pursuant to Order No. 6 in the above captioned docket.

Order No. 6 in the Final Decision provides:

> Commencing from the date of the Decision, May 12, 1987, each of the Companies shall file a Report, including time series details of service restoration, to the Public Utilities Regulatory Authority within 14 days of complete restoral of customer service following the implementation at any level of its respective Emergency Plan.

On June 30, 2024, the Company responded to impacts associated with severe thunderstorms. Hazardous winds and strong wind gusts brought on by the severe thunderstorms caused trees and tree limbs to fail, breaking poles and crossarms, dropping conductors and damaging electrical equipment. At 2:00 p.m., June 30, 2024, the outages peaked when 10,451 customers were experiencing a service outage. In total, the Company estimates that it restored service to approximately 15,676 customers. Final analysis of the storm impact is ongoing.

If you have any questions regarding this submittal, please call Mr. Joseph Godwin, Manager of Emergency Preparedness, at (860) 665-3577 or at (985) 285-9976.

Very truly yours,

Vincent P. Pace
Vincent P. Pace
Assistant General Counsel
On behalf of CL&P d/b/a Eversource Energy

cc: Service List
William Turner, State Emergency Management Director, DEMHS