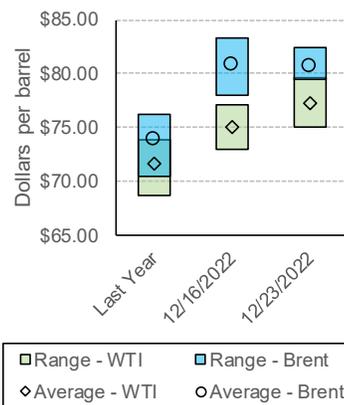


## Overall Energy & Fuels Markets Summary

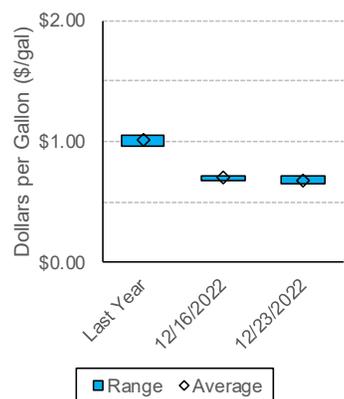
- Crude oil, propane, and natural gas (Henry Hub) average spot prices were generally comparable to the prior week (see page 1).
- Regional fuels inventories (see pages 2 and 3) are +/- 10% from last week except for propane which had a 17% increase.
  - Natural gas, ultra low sulfur diesel (ULSD), and total gasoline inventories remain below the 5-year average.
  - Propane inventories remain above the 5-year average
- Market influencers include:
  - Ongoing war in Eastern Europe and impacts on global economics and supply chain.
  - Weather outlook (see page 6).
  - While uncertainties continue, indicators suggest that market backwardation conditions are easing.
- NY consumers are paying elevated prices for fuels due to the market conditions for fossil fuels (see pages 4 and 5).
  - NY retail prices for heating oil and propane slightly increased while kerosene slightly decreased compared to last week. Heating fuel retail prices remain elevated compared to last year.
  - NY transportation fuels retail prices slightly decreased over the past week. Gasoline prices are slightly less than last year while diesel prices remain elevated compared to last year.

## Fundamental Fuels Market Weekly Price Summaries

Crude Oil Spot Price



Mt. Belvieu Spot Price



Natural Gas Henry Hub Spot Price



## Issue Contents:

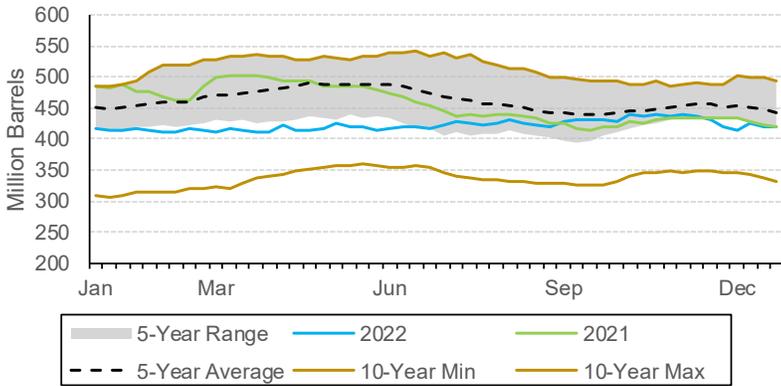
<a href="#">National crude and East Region natural gas inventories.....</a>	<a href="#">Page 2</a>
<a href="#">Regional Inventories: Select Liquid Fuels.....</a>	<a href="#">Page 3</a>
<a href="#">Transportation Fuels Prices Summary.....</a>	<a href="#">Page 4</a>
<a href="#">Heating Fuel Prices Summary.....</a>	<a href="#">Page 5</a>
<a href="#">Weather Outlook.....</a>	<a href="#">Page 6</a>
<a href="#">Degree Days Outlook and Summary.....</a>	<a href="#">Page 7</a>
<a href="#">References.....</a>	<a href="#">Page 8</a>

Note:

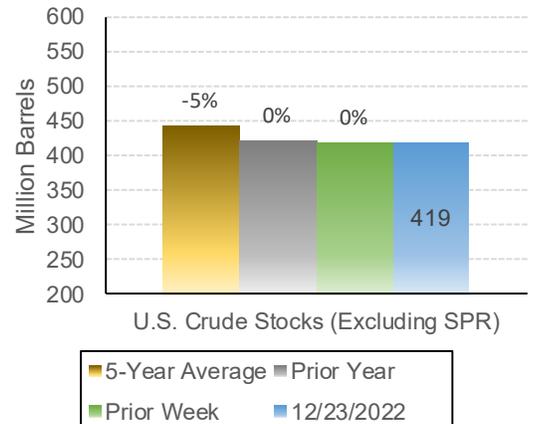
1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
2. Graphics summarize available USEIA data from the most recent week ending on Fridays, noted by the date.

## National Crude and East Region Natural Gas Inventories

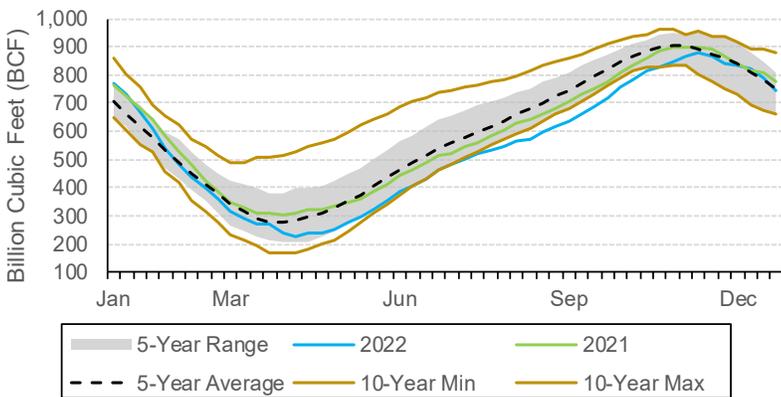
*U.S. Crude Weekly Stocks (Excluding Strategic Petroleum Reserve)*



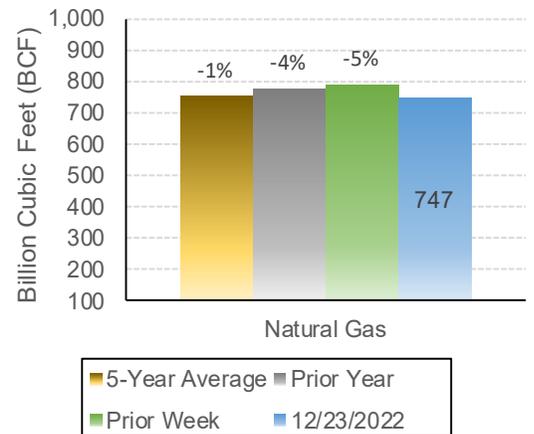
*Historical Comparison*



*East Region: Natural Gas Working Underground Storage*



*Historical Comparison*

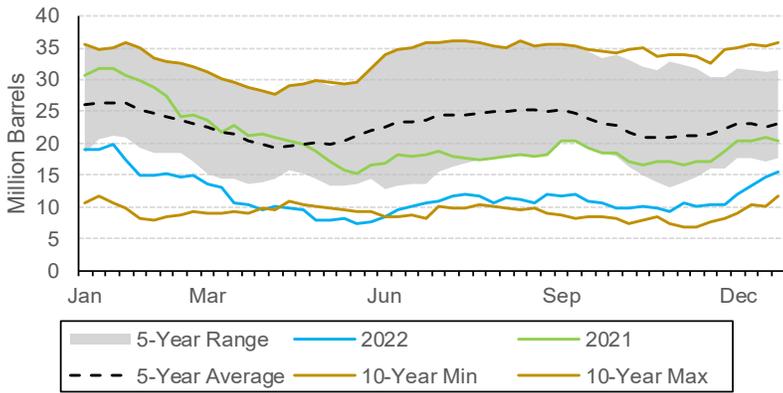


**Note:**

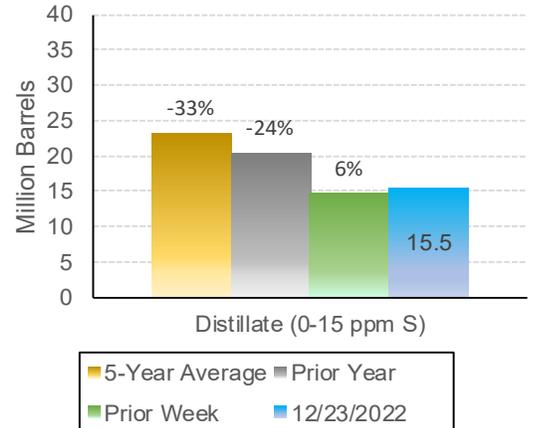
1. Data from USEIA, see references section for detailed citations. Visualizations by NYSDERDA.
2. Graphics summarize available USEIA data from the most recent week ending on Fridays.
3. Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater, negative values indicate current week is less than the historical value.

## Regional Inventories: Select Liquid Fuels

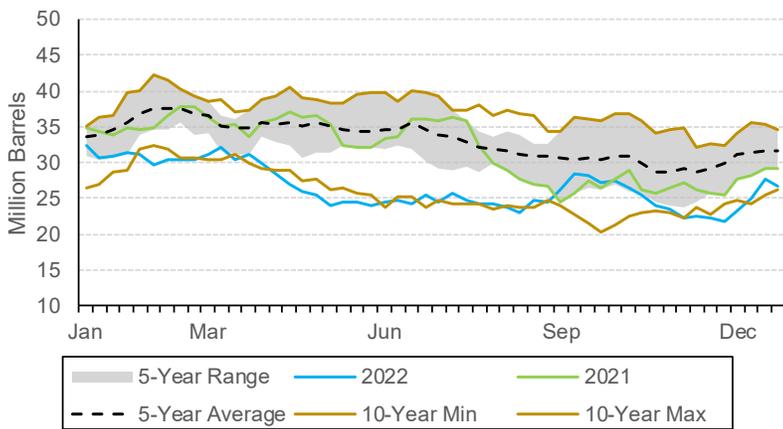
*PADD 1B: Distillate (0 - 15 ppm S) Weekly Stocks*



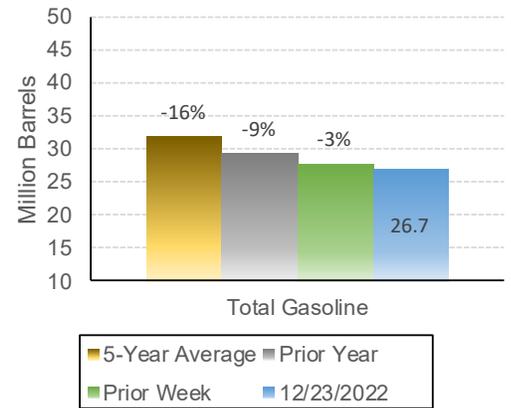
*Historical Comparison*



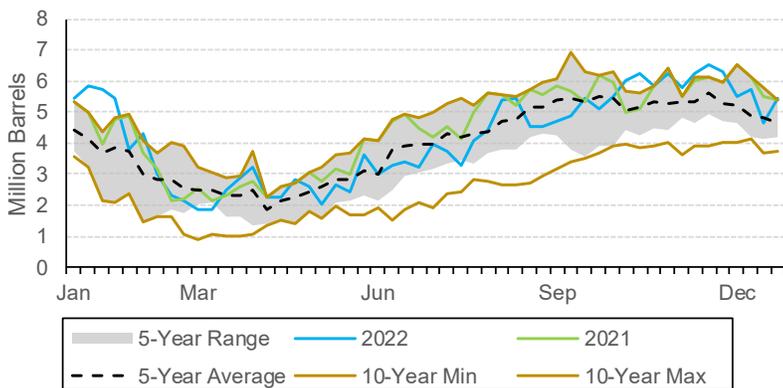
*PADD 1B: Total Gasoline Weekly Stocks*



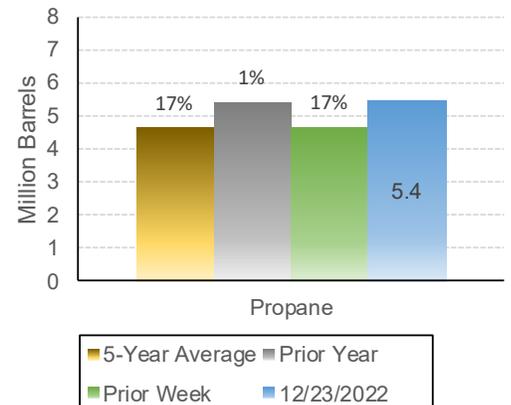
*Historical Comparison*



*PADD 1B: Propane and Propylene Weekly Inventory*



*Historical Comparison*

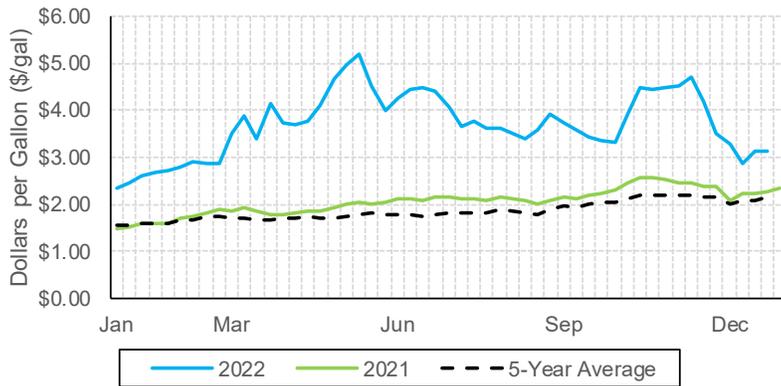


**Notes:**

1. Data from USEIA, see references section for detailed citations. Visualizations by NYSDERDA.
2. Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater, negative values indicate current week is less than the historical value.

## Transportation Fuel Prices Summary

*Ultra-low Sulfur Diesel New York Harbor  
Average Weekly Spot Prices*



*Conventional Gasoline Average Weekly Spot  
Prices New York Harbor*



**For regional NYS retail price summaries for transportation fuels, visit the following NYSERDA resources:**

[Transportation Fuel Dashboard](#)

Transportation fuels retail price summaries presented in this report and on the NYSERDA dashboards are collected by the Energy Markets team from AAA and USEIA as part of our ongoing fuels markets analyses and monitoring.

Fuel Type	NYS Average Retail Prices				
	12/23/2022	12/16/2022	% Difference	Prior Year	% Difference
Regular Gasoline (dollars per gallon) <sup>2</sup>	\$3.47	\$3.57	-3%	\$3.51	-1%
On-road Diesel (dollars per gallon) <sup>2</sup>	\$5.44	\$5.57	-2%	\$3.74	45%

Notes:

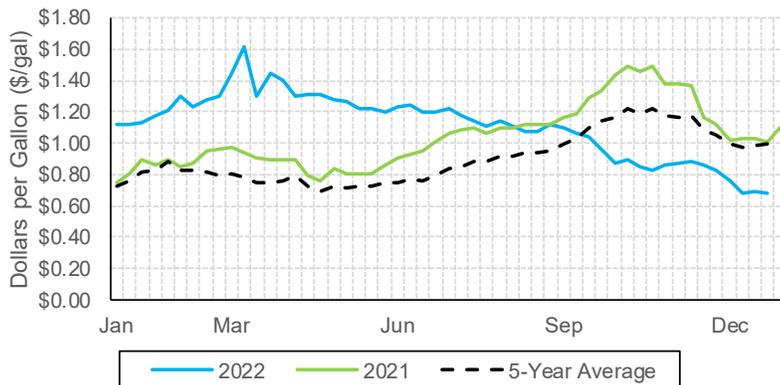
1. Wholesale price data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
2. Retail price data from AAA, see references section for detailed citations. Visualizations by NYSERDA.

## Heating Fuel Prices Summary

*No. 2 Heating Oil Average Weekly Spot Prices New York Harbor*



*Propane Mt. Belvieu Average Weekly Spot Prices*



**For regional NYS retail price summaries for heating fuels, visit the following NYSEERDA resources:**

[Home Heating Oil Prices Dashboard](#)

[Kerosene Prices Dashboard](#)

[Propane Prices Dashboard](#)

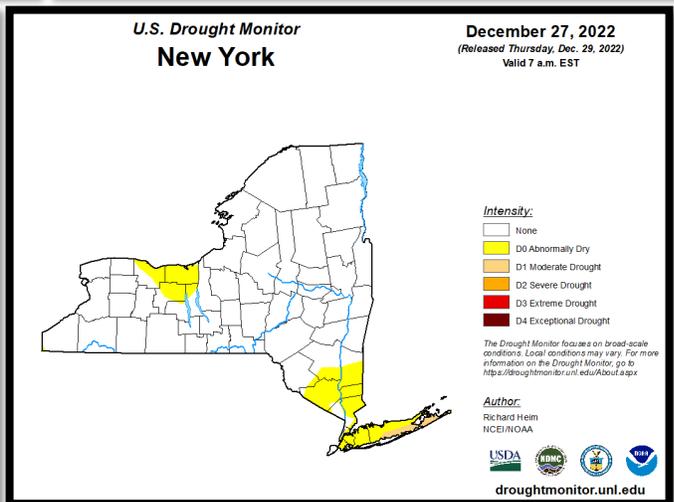
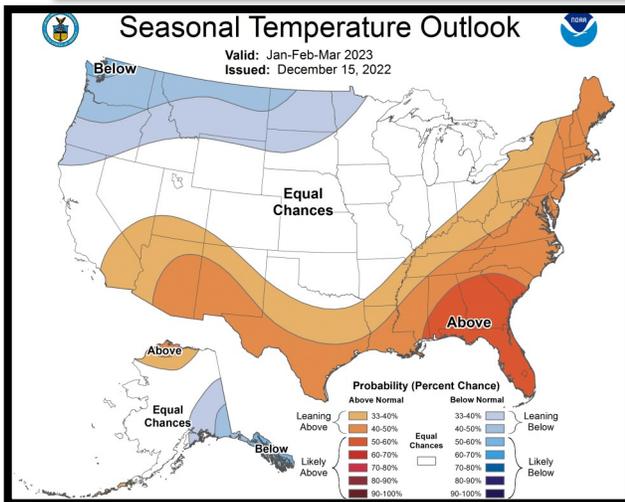
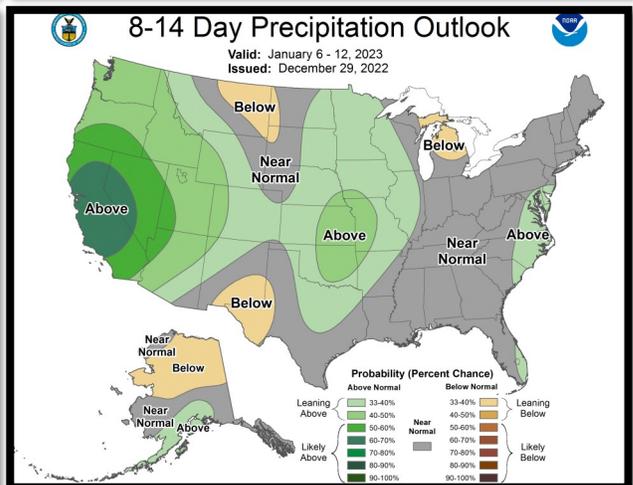
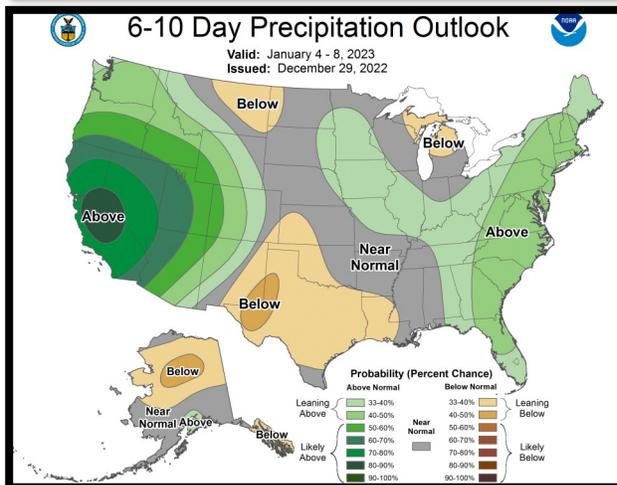
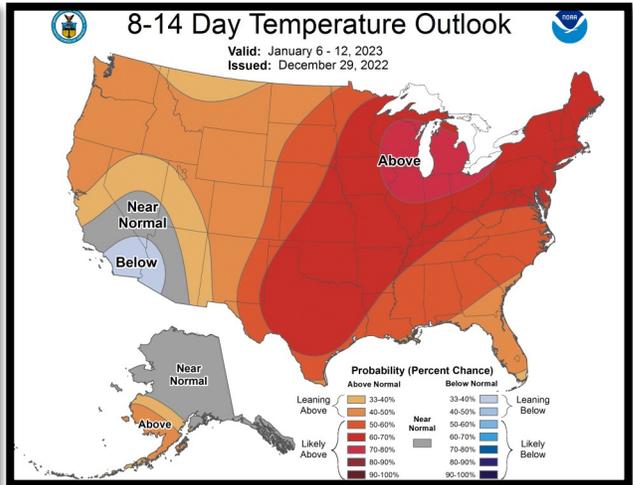
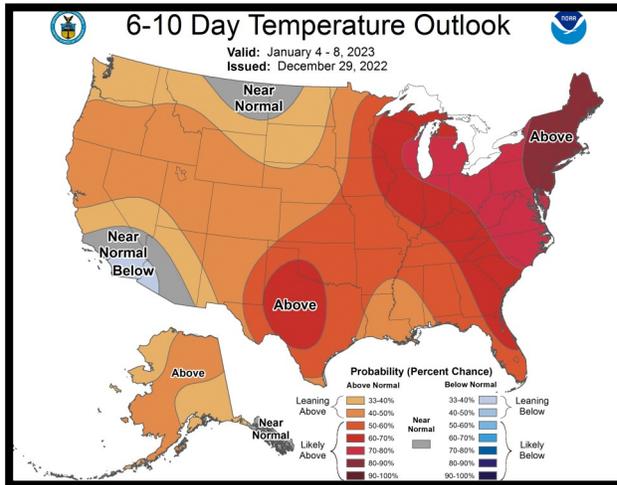
Heating fuels retail price summaries presented in this report and on the NYSEERDA dashboards are part of the USEIA State Heating Oil and Propane Program/NYSEERDA Heating Fuel Prices surveys.

Weekly Survey Results by Fuel Type	NYS Average Retail Prices				
	12/27/2022	12/19/2022	% Difference	Prior Year	% Difference
Ultra-low #2 Heating Oil Posted Credit Prices (dollars per gallon) <sup>2</sup>	\$4.873	\$4.845	0.6%	\$3.569	36.5%
Propane Posted Credit Prices - 1,100 gallon usage (dollars per gallon) <sup>2</sup>	\$3.551	\$3.523	0.8%	\$3.300	7.6%
Kerosene Posted Credit Prices (dollars per gallon) <sup>2</sup>	\$6.780	\$6.888	-1.6%	\$4.003	69.4%
<b>Monthly USEIA Reporting</b>	<b>September 2022</b>	<b>August 2022</b>	<b>% Difference</b>	<b>September 2021</b>	<b>% Difference</b>
Monthly Average Residential Natural Gas Prices (dollars per Therm) <sup>3</sup>	\$2.732	\$2.533	7.8%	\$2.146	27.3%

**Notes:**

1. Wholesale price data from USEIA, see references section for detailed citations. Visualizations by NYSEERDA.
2. Retail price data from USEIA & NYSEERDA, see references section for detailed citations. Visualizations by NYSEERDA.
3. Residential natural gas price data from USEIA, see references section for detailed citations. Visualization by NYSEERDA.

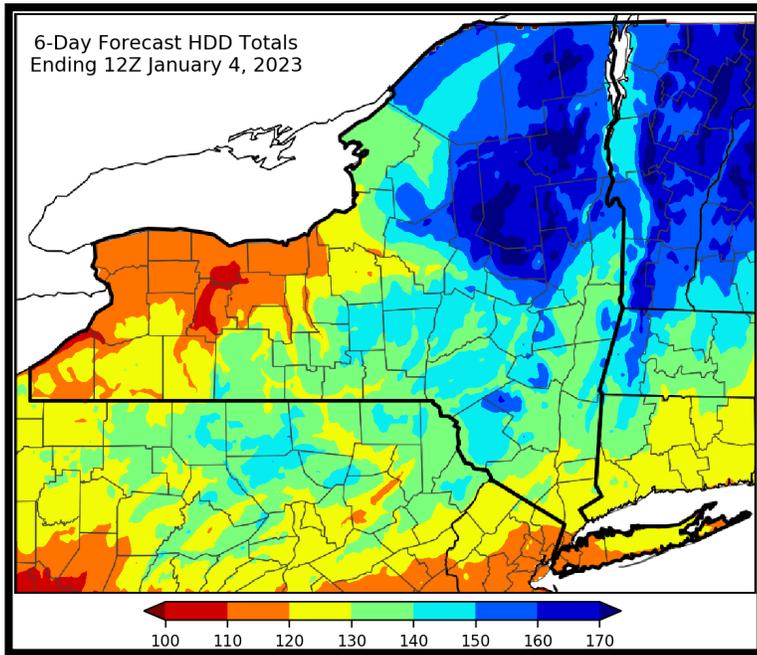
## Weather Outlook and Seasonal Threat Monitoring



**Notes:**

1. Temperature and precipitation outlook graphics from NOAA. See references section for detailed citations.
2. Seasonal threat monitoring for winter season. Graphics from NOAA. See reference section for detailed citation.
3. Seasonal threat monitoring for drought conditions during the spring/summer. Graphic from National Drought Mitigation Center. See references section for detailed citation.

## Degree Days Outlook and Summary

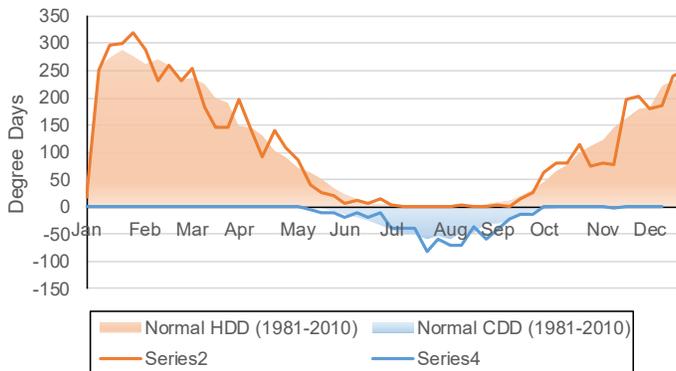


City	6-Day HDD Forecast
Albany	148
Binghamton	150
Buffalo	124
Glans Falls	168
Massena	171
NYC	121
Rochester	126
Syracuse	138
Watertown	141

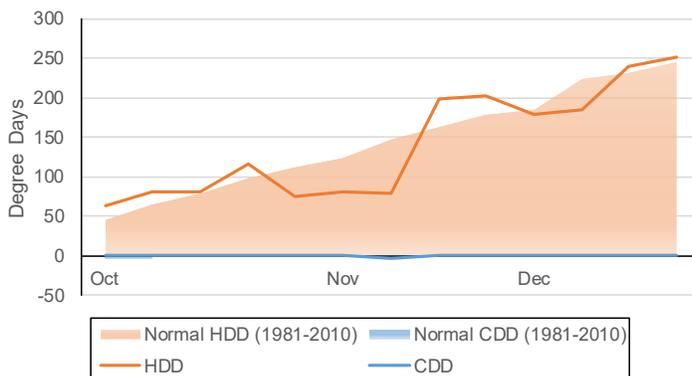
Forecast Dates:  
12/29/2022 - 01/03/2023

Notes:  
1. M = Missing data

NYS Degree Day Weekly Summary: Current Year



NYS Degree Day Weekly Summary: 2-Month History



**For regional NYS Heating and Cooling Degree Data along with additional information, visit the following NYSEERDA resources:**

[Heating Degree Data](#)

[Monthly Degree Day Data \(Heating & Cooling\)](#)

Notes:

1. Heating degree day (HDD) forecast from NOAA & Northeast Regional Climate Center at Cornell University (NRCC). See references section for detailed citations.
2. HDD and Cooling Degree Day (CDD) data from NOAA. Positive values represent HDD and negative values represent CDD. See reference section for detailed citation. Visualization by NYSEERDA.

## References

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USEIA. 2022. U.S. Stocks of Crude Oil and Petroleum Products. Available online:

[https://www.eia.gov/dnav/pet/xls/PET\\_STOC\\_WSTK\\_DCU\\_NUS\\_W.xls](https://www.eia.gov/dnav/pet/xls/PET_STOC_WSTK_DCU_NUS_W.xls).

USEIA. 2022. Weekly Central Atlantic (PADD 1B) Ending Stocks of Distillate Fuel Oil, 0 to 15 ppm Sulfur (Thousand Barrels). Available online: [https://www.eia.gov/dnav/pet/hist\\_xls/WD0ST\\_R1Y\\_1w.xls](https://www.eia.gov/dnav/pet/hist_xls/WD0ST_R1Y_1w.xls).

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USEIA. 2022. Weekly Central Atlantic (PADD 1B) Propane and Propylene Ending Stocks Excluding Propylene at Terminal (Thousand Barrels). Available online: [https://www.eia.gov/dnav/pet/hist\\_xls/WPRST1B1w.xls](https://www.eia.gov/dnav/pet/hist_xls/WPRST1B1w.xls).

### National and Regional Price Summaries

AAA. 2022. National and State Gas Prices. *New York Average Gas Prices*. Available online:

<https://gasprices.aaa.com/?state=NY>.

USEIA. 2022. Spot Prices for Crude Oil and Petroleum Products. Available online:

[https://www.eia.gov/dnav/pet/xls/PET\\_PRI\\_SPT\\_S1\\_D.xls](https://www.eia.gov/dnav/pet/xls/PET_PRI_SPT_S1_D.xls).

USEIA. 2022. Natural Gas. *Natural Gas Spot and Future Prices (NYMEX)*. Available online:

[https://www.eia.gov/dnav/ng/xls/NG\\_PRI\\_FUT\\_S1\\_D.xls](https://www.eia.gov/dnav/ng/xls/NG_PRI_FUT_S1_D.xls).

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[https://www.eia.gov/dnav/ng/xls/NG\\_PRI\\_SUM\\_A\\_EPG0\\_PRS\\_DMCF\\_M.xls](https://www.eia.gov/dnav/ng/xls/NG_PRI_SUM_A_EPG0_PRS_DMCF_M.xls).

USEIA & NYSERDA. 2022. State Heating Oil and Propane Program/NYSERDA Heating Fuel Prices Survey.

Available online: <https://www.eia.gov/petroleum/heatingoilpropane/>.

### Weather Outlook and Data

National Oceanic and Atmospheric Administration (NOAA). 2022. National Weather Service Climate Prediction Center. Temperature and Precipitation Outlooks. Available online: <https://www.cpc.ncep.noaa.gov/>.

NOAA and Northeast Regional Climate Center (NRCC) at Cornell University. 2022. Weekly HDD Summary for New York. Available online: <http://www.nrcc.cornell.edu/industry/hdd/>.

NOAA. National Weather Service Climate Prediction Center. Degree Days Statistics. Available online:

[https://www.cpc.ncep.noaa.gov/products/analysis\\_monitoring/cdus/degree\\_days/](https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/cdus/degree_days/).

National Drought Mitigation Center. U.S. Drought Monitor. New York. Available online at:

<https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?NY>.

*Note that there may be slight differences between USEIA reported values and this NYSERDA summary due to methodology differences.*

*Developed weekly by the NYSERDA Energy Markets team, part of the Energy & Environmental Analysis Group. For any questions, please reach out to:*

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