December 27, 2024



## Overall Energy & Fuels Markets Summary

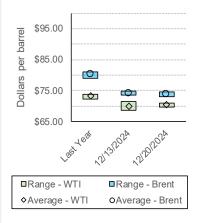
- Summary of average spot prices for the following fuels (see page 1).
  - Brent average price slightly decreased while WTI slightly increased.
  - Natural gas (Henry Hub) and propane (Mt. Belvieu) decreased compared to the prior week.
- Regional fuels inventories (see pages 2 and 3) compared to the previous week:
  - Natural gas, total gasoline, and propane inventories decreased.
  - Ultra-low sulfur diesel (ULSD) inventories increased.
- Market influencers include:
  - Global factors such as, continued conflicts in the Middle East, petroleum oversupply concerns, Russia-Ukraine war, and associated geopolitical uncertainties.
  - Domestic factors such as increased winter heating demand, winter storm management, and general economic conditions in the U.S. are influencing prices and inventories.
- In New York, the National Oceanic and Atmospheric Administration (NOAA) forecasts indicate near normal to leaning above for the 6-10 day and leaning below normal temperatures for the 8-14 day period. The NOAA forecasts for precipitation indicate near normal to leaning above for the 6-10 day and leaning below for the 8-14 day period. (Page 6)
- NY retail prices (see pages 4 and 5) for heating and transportation fuels:
  - NY transportation regular gasoline and diesel both slightly decreased.
  - Heating oil increased while propane and kerosene decreased compared to the prior week.

## Issue Contents:

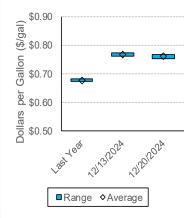
| National crude and East Region natural gas inventories | Page 2 |
|--|--------|
| Regional Inventories: Select Liquid Fuels              | Page 3 |
| Transportation Fuels Prices Summary                    | Page 4 |
| Heating Fuel Prices Summary                            | Page 5 |
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| Degree Days Outlook and Summary                        | Page 7 |
| References   | Page 8 |
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### Fundamental Fuels Market Weekly Price Summaries

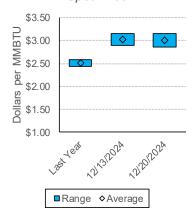
Crude Oil Spot Price



Propane Mt. Belvieu Spot Price



### Natural Gas Henry Hub Spot Price



#### 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)

Strategic Petroleum Reserve)

450
450
450
250
200

Jun

2024

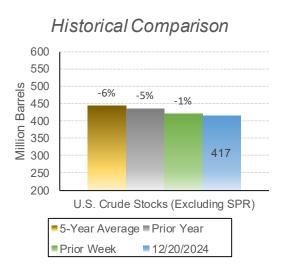
10-Year Min

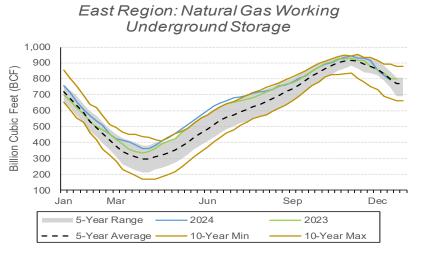
Sep

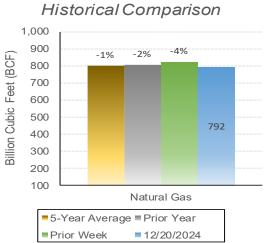
2023

10-Year Max

Dec







#### Note:

Jan

5-Year Range

5-Year Average

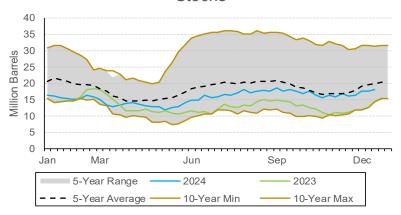
- 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Graphics summarize available USEIA data from the most recent week ending on Fridays.

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.

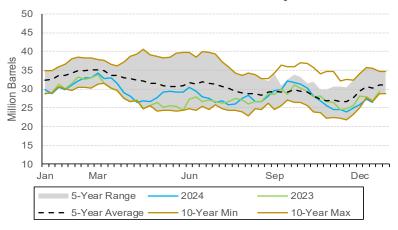


## **Regional Inventories: Select Liquid Fuels**

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



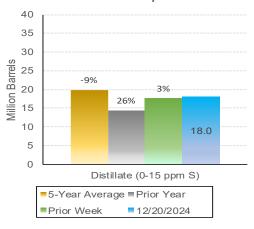
PADD 1B: Total Gasoline Weekly Stocks



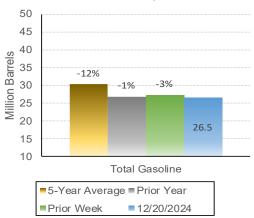
PADD 1B: Propane and Propylene Weekly Inventory



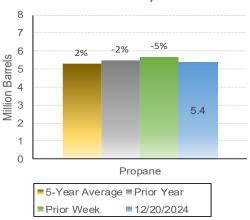
Historical Comparison



### Historical Comparison



### Historical Comparison



#### Notes:

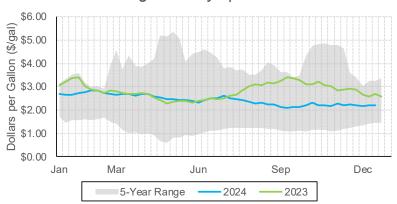
1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.

<sup>2.</sup> 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.

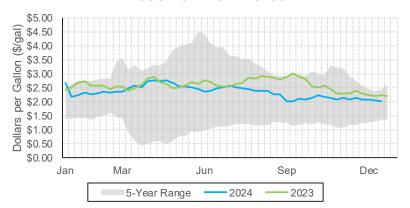


## **Transportation Fuel Prices Summary**

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 |            |              |                   |              |
|---|---------------------------|------------|--------------|-------------------|--------------|
| ruerrype  | 12/20/2024                | 12/13/2024 | % Difference | <b>Prior Year</b> | % Difference |
| Regular Gasoline<br>(dollars per gallon) <sup>2</sup> | \$3.140                   | \$3.149    | -0.3%        | \$3.404           | -7.8%        |
| On-road Diesel<br>(dollars per gallon) <sup>2</sup>   | \$3.857                   | \$3.863    | -0.2%        | \$4.507           | -14.4%       |

#### Notes:

<sup>1.</sup> Wholesale price data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.

<sup>2.</sup> Retail price data from AAA, see references section for detailed citations. Visualizations by NYSERDA.

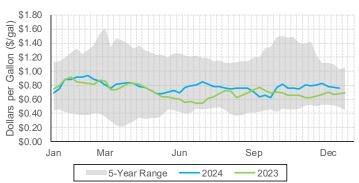


# **Heating Fuel Prices Summary**

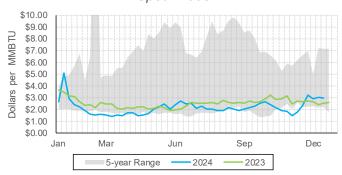
No. 2 Heating Oil Average Weekly Spot Prices New York Harbor



Propane Mt. Belvieu Average Weekly Spot Prices



Natural Gas Henry Hub Average Weekly Spot Prices



| Weekly Survey Results by Fuel Type  | NYS Average Retail Prices |                |              |                |              |
|---|---------------------------|----------------|--------------|----------------|--------------|
| Weekly Survey Results by Fuel Type  | 12/23/2024                | 12/16/2024     | % Difference | Prior Year     | % Difference |
| Ultra-low #2 Heating Oil Posted Credit Prices (dollars per gallon) <sup>2</sup>     | \$3.738                   | \$3.712        | 0.7%         | \$4.102        | -8.9%        |
| Propane Posted Credit Prices - 1,100 gallon usage (dollars per gallon) <sup>2</sup> | \$3.299                   | \$3.328        | -0.9%        | \$3.472        | -5.0%        |
| Kerosene Posted Credit Prices (dollars per gallon) <sup>2</sup>                     | \$4.401                   | \$4.448        | -1.1%        | \$5.521        | -20.3%       |
| Monthly USEIA Reporting   | September 2024            | August<br>2024 | % Difference | September 2023 | % Difference |
| Monthly Average Residential Natural Gas Prices (dollars per Therm) <sup>3</sup>     | \$2.271                   | \$2.255        | 0.7%         | \$2.030        | 11.9%        |

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

Home Heating Oil Prices Dashboard

Kerosene Prices Dashboard

Propane Prices Dashboard

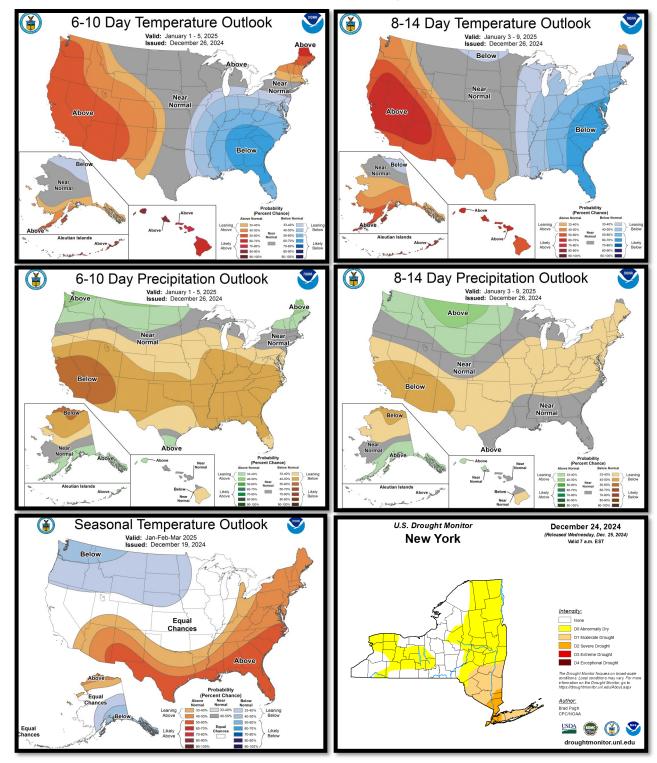
Heating fuels retail price summaries presented in this report and on the NYSERDA dashboards are part of the USEIA State Heating Oil and Propane Program/ NYSERDA Heating Fuel Prices surveys.

#### Notes:

- Wholesale price data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- Retail price data from USEIA & NYSERDA, see references section for detailed citations. Visualizations by NYSERDA. Highlighted cells indicate price correction from prior week.
- Residential natural gas price data from USEIA, see references section for detailed citations. Visualization by NYSERDA.



## **Weather Outlook and Seasonal Threat Monitoring**

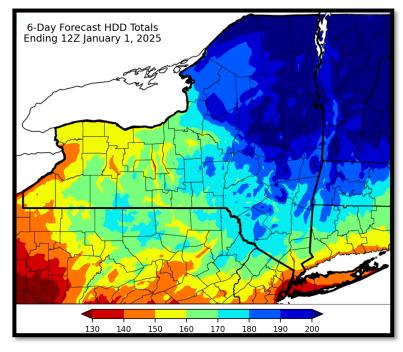


#### Notes:

- 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.
- 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**



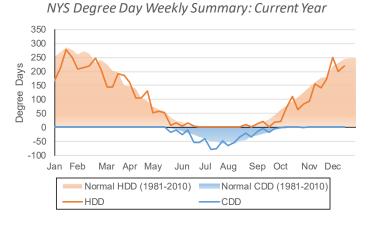
| City        | 6-Day HDD<br>Forecast | Normal | %<br>Difference |
|-------------|-----------------------|--------|-----------------|
| Albany      | 204                   | 228    | -11%            |
| Binghamton  | 186                   | 240    | -23%            |
| Buffalo     | 151                   | 220    | -31%            |
| Glens Falls | 222                   | 252    | -12%            |
| Massena     | 229                   | 273    | -16%            |
| NYC         | 145                   | 169    | -14%            |
| Rochester   | 163                   | 217    | -25%            |
| Syracuse    | 174                   | 228    | -24%            |
| Watertown   | 191                   | 249    | -23%            |

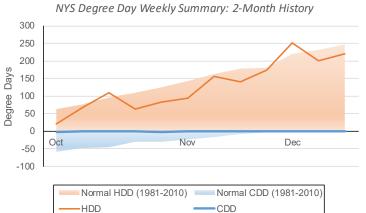
Forecast Dates:

12/26/2024 - 12/31/2024

Notes:

1. M = Missing data





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

Heating Degree Data

Monthly Degree Day Data (Heating & Cooling)

#### Notes:

- 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 NYSERDA.



### References

### **National and Regional Fuel Inventories**

USEIA. 2024. 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.

USEIA. 2024. 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.

USEIA. 2024. Weekly Central Atlantic (PADD 1B) Ending Stocks of Total Gasoline (Thousand Barrels). Available online: https://www.eia.gov/dnav/pet/hist\_xls/WGTST1B1w.xls.

USEIA. 2024. 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.

USEIA. 2024. Natural Gas Prices Data. *New York Monthly*. Available online: <a href="https://www.eia.gov/dnav/ng/ng-pri-sum-dcu-SNY-m.htm">https://www.eia.gov/dnav/ng/ng-pri-sum-dcu-SNY-m.htm</a>.

### **National and Regional Price Summaries**

AAA. 2024. National and State Gas Prices. *New York Average Gas Prices*. Available online: <a href="https://gasprices.aaa.com/?state=NY">https://gasprices.aaa.com/?state=NY</a>.

USEIA. 2024. Spot Prices for Crude Oil and Petroleum Products. Available online:

https://www.eia.gov/dnav/pet/xls/PET\_PRI\_SPT\_S1\_D.xls.

USEIA. 2024. Natural Gas. *Natural Gas Spot and Future Prices (NYMEX)*. Available online: <a href="https://www.eia.gov/dnav/ng/xls/NG">https://www.eia.gov/dnav/ng/xls/NG</a> PRI FUT S1 D.xls.

USEIA & NYSERDA. 2024. 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). 2024. National Weather Service Climate Prediction Center. Temperature and Precipitation Outlooks. Available online: <a href="https://www.cpc.ncep.noaa.gov/">https://www.cpc.ncep.noaa.gov/</a>.

NOAA and Northeast Regional Climate Center (NRCC) at Cornell University. 2024. Weekly HDD Summary for New York. Available online: <a href="http://www.nrcc.cornell.edu/industry/hdd/">http://www.nrcc.cornell.edu/industry/hdd/</a>.

NOAA. 2024. National Weather Service Climate Prediction Center. Degree Days Statistics. Available online: <a href="https://www.cpc.ncep.noaa.gov/products/analysis\_monitoring/cdus/degree\_days/">https://www.cpc.ncep.noaa.gov/products/analysis\_monitoring/cdus/degree\_days/</a>.

National Drought Mitigation Center. 2024. U.S. Drought Monitor. New York. Available online at: <a href="https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?NY">https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?NY</a>.

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 Policy, Analysis, and Research Group. For any questions, please reach out to:

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