March 31, 2023



Overall Energy & Fuels Markets Summary

- Crude oil (WTI and Brent) and propane (Mt. Belvieu) weekly average spot prices remained similar to the previous week, while natural gas (Henry Hub) weekly average spot prices decreased compared to the previous week (see page 1).
- Regional fuels inventories (see pages 2 and 3) compared to the previous week:
 - Ultra-low sulfur diesel (ULSD), propane, and total gasoline inventories decreased.
 - ULSD, propane, and natural gas inventories are within or greater than the 5-year range, while total gasoline inventories are slightly below the 5-year range.
- Market influencers include:
 - Global factors include the ongoing Russian invasion of Ukraine, continued global economics/supply chain/banking sector concerns, and seasonal transition.
 - As the 2022-2023 heating season comes to a close, fuels demand in the northeast begins to shift to driving (transportation fuels) and power generation for cooling.
- NY retail prices (see pages 4 and 5) for gasoline and diesel are below prices last year:
 - NY heating oil, propane, and kerosene retail prices slightly decreased compared to the prior week.
 - NY transportation gasoline and diesel fuel retail prices increased compared to the prior week.

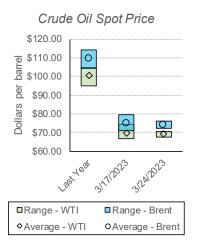
Issue Contents:

Regional Inventories: Select Liquid Fuels
Transportation Fuels Prices SummaryPage 4
Heating Fuel Prices Summary
Weather Outlook. Page 6
Degree Days Outlook and Summary
References

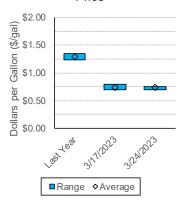
Note:

- 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.

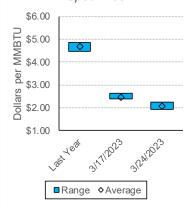
Fundamental Fuels Market Weekly Price Summaries



Propane Mt. Belvieu Spot Price



Natural Gas Henry Hub Spot Price





National Crude and East Region Natural Gas Inventories

Sep

2022

10-Year Max

Dec

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

Strategic Petroleum Reserve)

400
400
350
300
250
200

Jun

2023

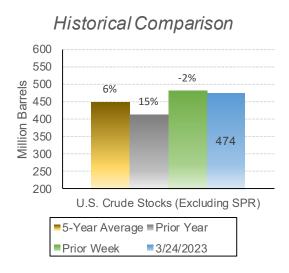
10-Year Min

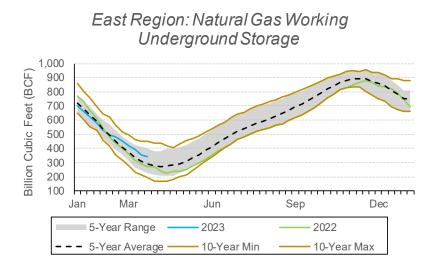
Mar

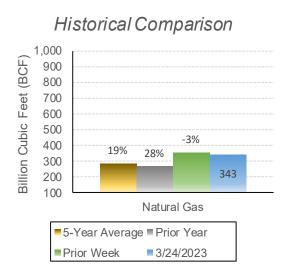
5-Year Range

- - 5-Year Average

Jan







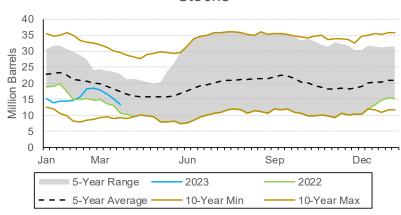
Note:

- 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.
- 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.

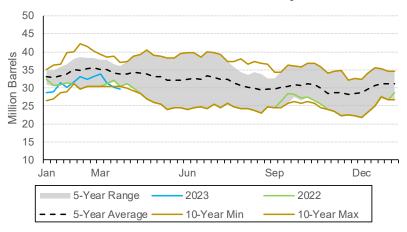


Regional Inventories: Select Liquid Fuels

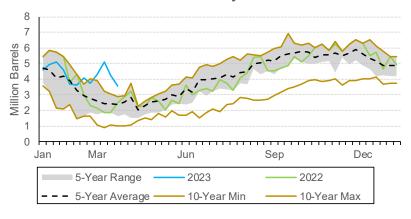
PADD 1B: Distillate (0 - 15 ppm S) Weekly Stocks



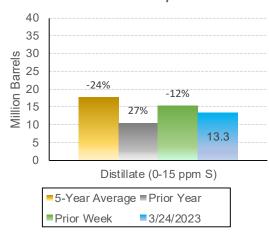
PADD 1B: Total Gasoline Weekly Stocks



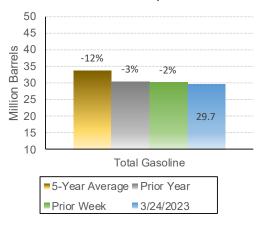
PADD 1B: Propane and Propylene Weekly Inventory



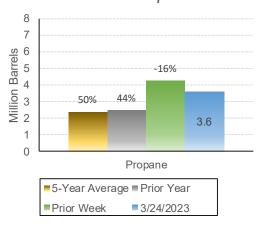
Historical Comparison



Historical Comparison



Historical Comparison



Notes:

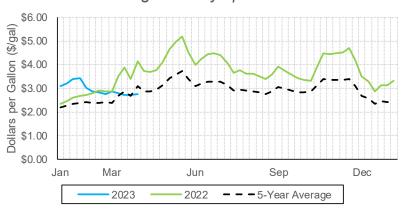
1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.

^{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.

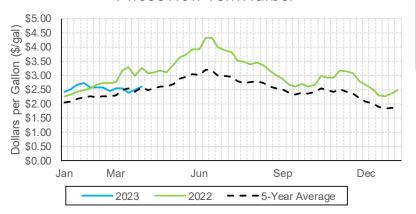


Transportation Fuel Prices Summary

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					
ruer Type	3/24/2023	3/17/2023	% Difference	Prior Year	% Difference	
Regular Gasoline (dollars per gallon) ²	\$4.43	\$4.37	1.4%	\$2.91	52.3%	
On-road Diesel (dollars per gallon) ²	\$5.30	\$5.06	4.8%	\$3.12	70.1%	

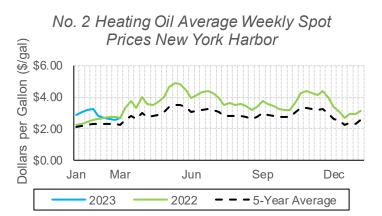
Notes:

^{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



Propane Mt. Belvieu Average Weekly Spot

Prices

\$2.00

| Section | Section

Natural Gas Henry Hub Average Weekly Spot Prices



Weekly Survey Results by Fuel Type	NYS Average Retail Prices				
Weekly Sulvey Results by Fuel Type	3/27/2023	3/20/2023	% Difference	Prior Year	% Difference
Ultra-low #2 Heating Oil Posted Credit Prices (dollars per gallon) ²	\$4.321	\$4.345	-0.5%	\$5.081	-14.9%
Propane Posted Credit Prices - 1,100 gallon usage (dollars per gallon) ²	\$3.462	\$3.483	-0.6%	\$3.713	-6.8%
Kerosene Posted Credit Prices (dollars per gallon) ²	\$5.780	\$5.871	-1.5%	\$5.429	6.5%
Monthly USEIA Reporting	December 2022	November 2022	% Difference	December 2021	% Difference
Monthly Average Residential Natural Gas Prices (dollars per Therm) ³	\$1.621	\$1.866	-13.1%	\$1.410	15.0%

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

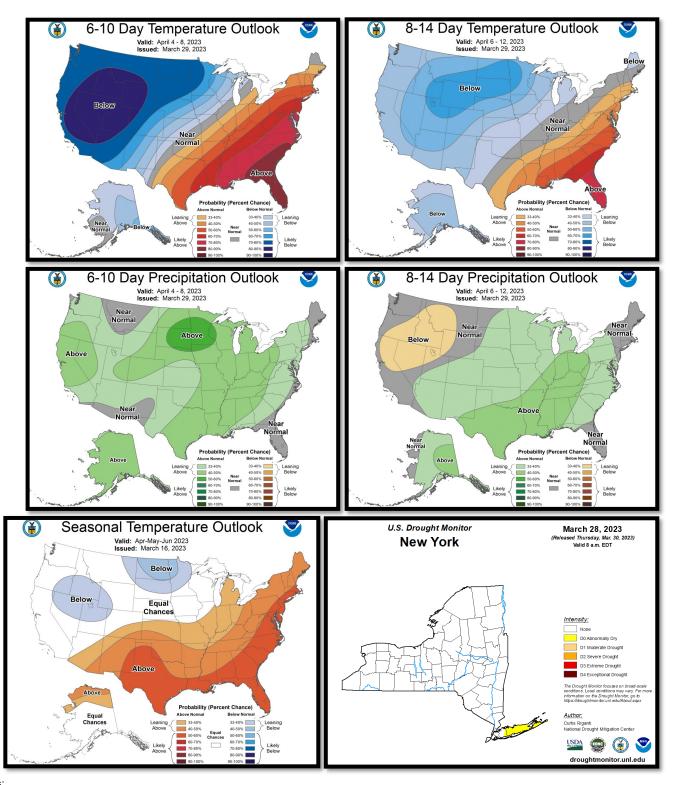
Heating fuels retail price summaries presented in this report and on the NYSERDA dashboards are part of the USEIA State Heating Oil and Propane Program/ NYSERDA Heating Fuel Prices surveys.

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

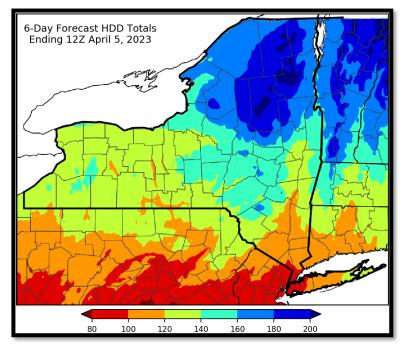


Notes:

- 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.
- 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	Normal	% Difference	
Albany	140	139	1%	
Binghamton	155	160	-3%	
Buffalo	150	152	-1%	
Glens Falls	159	160	-1%	
Massena	186	175	6%	
NYC	92	101	-9%	
Rochester	149	145	3%	
Syracuse	149	150	-1%	
Watertown	171	169	1%	

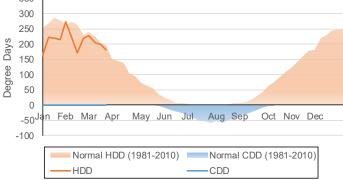
Forecast Dates:

03/30/2023 - 04/04/2023

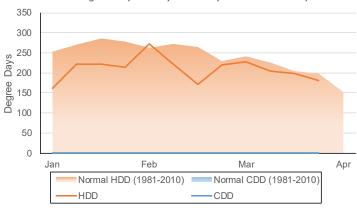
Notes:

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. 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.

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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.

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.

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/.

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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