

Overall Energy & Fuels Markets Summary

- Summary of average spot prices for the following fuels (see page 1).
 - Propane (Mt Belvieu) slightly decreased and natural gas (Henry Hub) slightly increased compared to the prior week.
 - Crude oil (WTI and Brent) average prices remained similar to the prior week.
- Regional fuels inventories (see pages 2 and 3) compared to the previous week:
 - Natural gas and propane inventories increased.
 - Ultra-low sulfur diesel (ULSD) and total gasoline inventories decreased compared to the prior week.
- Market influencers include:
 - Global factors include the Russian invasion of Ukraine and the war in Israel, including the associated geopolitical uncertainties.
 - Economic concerns related to higher interest rates, late fall refinery maintenance schedules, and crude oil availability concerns continue to influence the market.
- National Oceanic and Atmospheric Administration (NOAA) forecast for New York/Northeast leaning to likely above average temperatures over the next 6-14 days. Near normal to leaning below average precipitation for the next 6-14 days is forecasted (Page 6).
- NY retail prices (see pages 4 and 5) for heating and transportation fuels:
 - NY transportation regular gasoline and diesel both slightly decreased compared to the prior week.
 - Propane and kerosene slightly decreased, while heating oil increased compared to the prior week.

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Natural Gas Henry Hub Spot Price





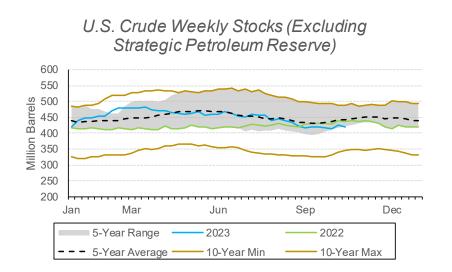
Note

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

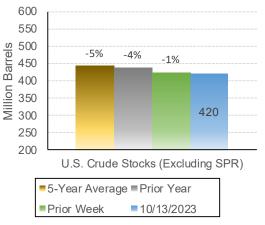
^{2.} Graphics summarize available USEIA data from the most recent week ending on Fridays, noted by the date.

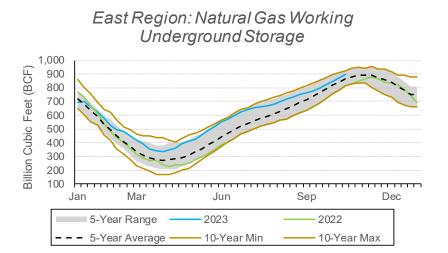


National Crude and East Region Natural Gas Inventories



Historical Comparison





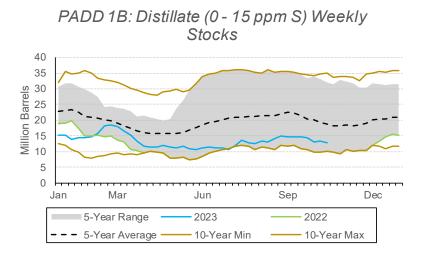
Historical Comparison



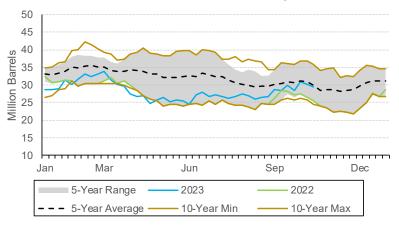
- 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Graphics summarize available USEIA data from the most recent week ending on Fridays.
- 3. Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater,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

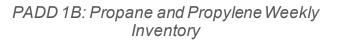


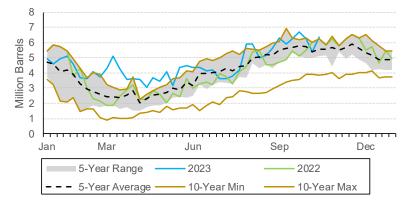
Regional Inventories: Select Liquid Fuels



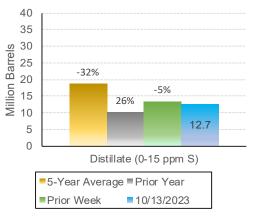
PADD 1B: Total Gasoline Weekly Stocks



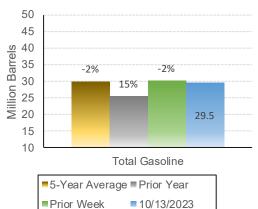




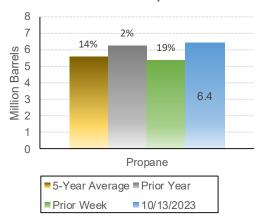
Historical Comparison



Historical Comparison



Historical Comparison

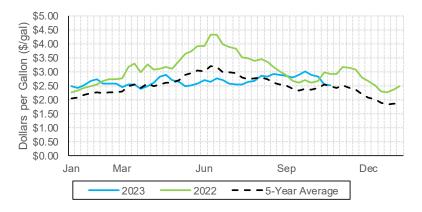


- 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater, negative values indicate current week is less than the historical value.



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				NYS Average Retail Prices				
Fuer Type	10/13/2023	/2023 10/6/2023 % Difference		Prior Year	% Difference				
Regular Gasoline (dollars per gallon) ²	\$3.84	\$3.88	-1.2%	\$3.66	4.9%				
On-road Diesel (dollars per gallon) ²	\$4.72	\$4.75	-0.5%	\$5.26	-10.3%				

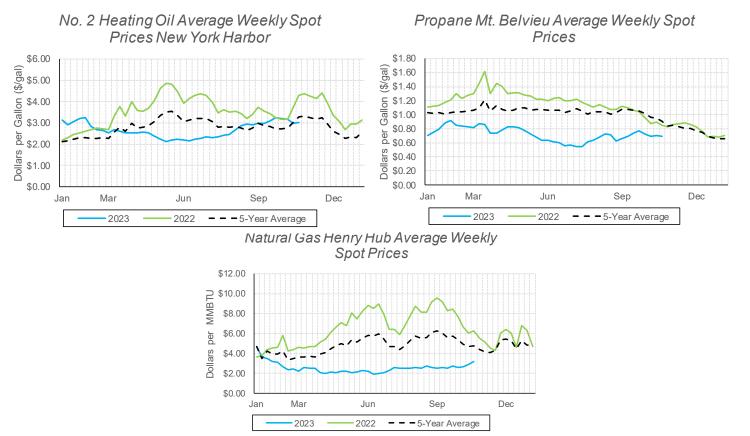
Notes:

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



Weekly Survey Results by Fuel Type	NYS Average Retail Prices				
	10/16/2023	10/10/2023	% Difference	Prior Year	% Difference
Ultra-low #2 Heating Oil Posted Credit Prices (dollars per gallon) ²	\$4.504	\$4.432	1.6%	\$5.825	-22.7%
Propane Posted Credit Prices - 1,100 gallon usage (dollars per gallon) ²	\$3.291	\$3.295	-0.1%	\$3.424	-3.9%
Kerosene Posted Credit Prices (dollars per gallon) ²	\$5.379	\$5.394	-0.3%	\$6.992	-23.1%
Monthly USEIA Reporting	July 2023	June 2023	% Difference	July 2022	% Difference
Monthly Average Residential Natural Gas Prices (dollars per Therm) ³	\$2.105	\$1.907	10.4%	\$2.533	-16.9%

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

Home Heating Oil Prices Dashboard

Kerosene Prices Dashboard

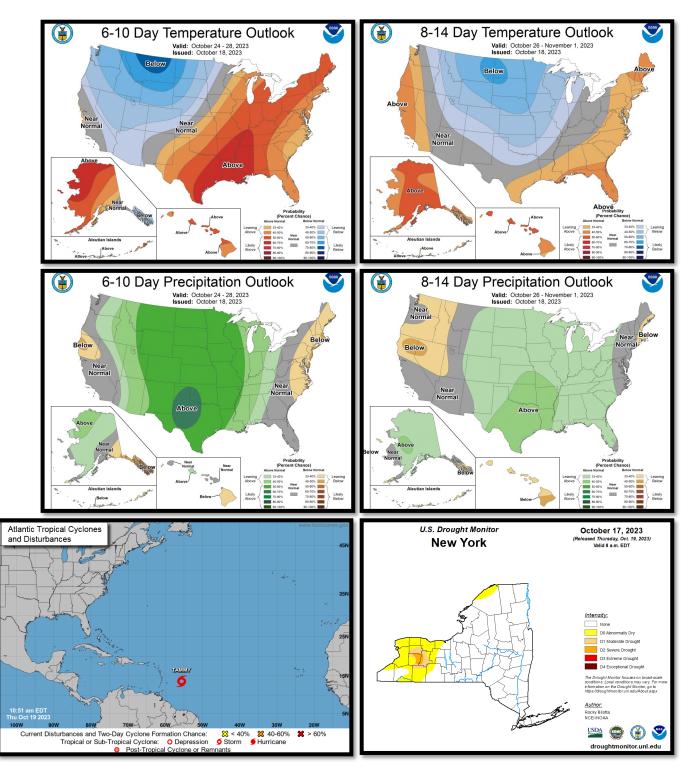
Propane Prices Dashboard

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.

- 1. 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.



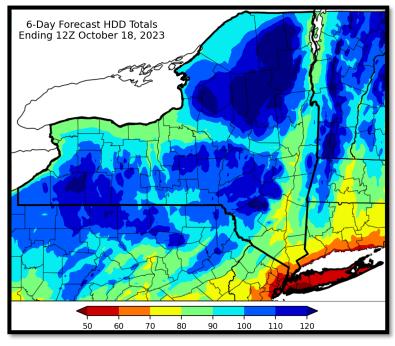
Weather Outlook and Seasonal Threat Monitoring



- 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



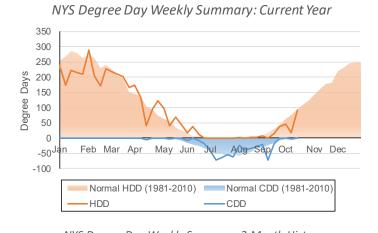
City	6-Day HDD	Normal	%		
,	Forecast		Difference		
Albany	84	95	-12%		
Binghamton	101	109	-7%		
Buffalo	92	92	0%		
Glens Falls	95	114	-17%		
Massena	92	118	-22%		
NYC	57	47	21%		
Rochester	86	89	-3%		
Syracuse	87	95	-8%		
Watertown	95	110	-14%		
Forecast Dates:					

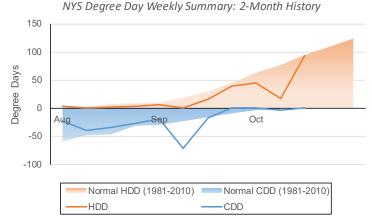
10/19/2023 - 10/24/2023

Notes:

1. M = Missing data

We have transitioned to solely reporting heating degree days.





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

Heating Degree Data

<u>Monthly Degree Day Data</u> (Heating & Cooling)

- 1. Heating degree day (HDD) forecast from NOAA & Northeast Regional Climate Center at Cornell University (NRCC). See references section for detailed citations.
- 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.

USEIA. 2022. Weekly Central Atlantic (PADD 1B) Ending Stocks of Distillate Fuel Oil, 0 to 15 ppm Sulfur (Thousand Barrels. Available online: <u>https://www.eia.gov/dnav/pet/hist_xls/WD0ST_R1Y_1w.xls</u>.

USEIA. 2022. Weekly Central Atlantic (PADD 1B) Ending Stocks of Total Gasoline (Thousand Barrels). Available online: <u>https://www.eia.gov/dnav/pet/hist_xls/WGTST1B1w.xls</u>.

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

National and Regional Price Summaries

AAA. 2022. National and State Gas Prices. *New York Average Gas Prices*. Available online: <u>https://gasprices.aaa.com/?state=NY</u>.

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: <u>https://www.eia.gov/dnav/ng/xls/NG_PRI_FUT_S1_D.xls</u>.

USEIA & NYSERDA. 2022. State Heating Oil and Propane Program/NYSERDA Heating Fuel Prices Survey. Available online: <u>https://www.eia.gov/petroleum/heatingoilpropane/</u>.

Weather Outlook and Data

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

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

NOAA. National Hurricane Center and Central Pacific Hurricane Center. *Atlantic Tropical Cyclones and Disturbances*. Available online: <u>https://www.nhc.noaa.gov/</u>.

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

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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