

June 30, 2023

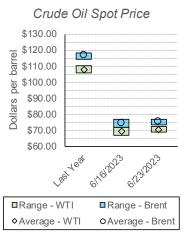
Overall Energy & Fuels Markets Summary

- Summary of average spot prices for the following fuels (see page 1).
 - Crude oil (WTI and Brent), Natural gas (Henry Hub) and Propane (Mt Belvieu) increased compared to the prior week.
- Regional fuels inventories (see pages 2 and 3) compared to the previous week:
 - Propane, natural gas (Henry Hub), and ultra-low sulfur diesel (ULSD) inventories increased compared to the prior week. Natural gas remains near 10-year high inventory volumes.
 - Total gasoline inventories decreased compared to the prior week.
- Market influencers include:
 - Global factors include the ongoing Russian invasion of Ukraine including the associated geopolitical uncertainties, continued economics concerns (example: recession, interest rates), and fuel supply/demand dynamics (example: summer driving demand) continue to influence markets.
- National Oceanic and Atmospheric Administration (NOAA) forecasts above average temperatures and above average precipitation in New York/Northeast for the next 1-2 weeks (Page 6).
- NY retail prices (see pages 4 and 5) for heating and transportation fuels:
 - NY transportation gasoline prices slightly increased and diesel prices slightly decreased compared to the prior week.
 - Heating Oil and propane prices slightly increased and kerosene prices have decreased since the previous survey.

Issue Contents:

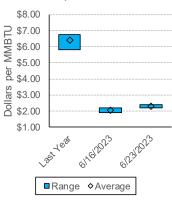
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Fundamental Fuels Market Weekly Price Summaries





Natural Gas Henry Hub Spot Price

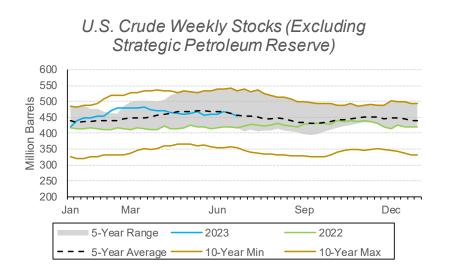


Note Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA. 1.

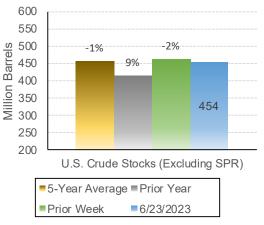
^{2.} Graphics summarize available USEIA data from the most recent week ending on Fridays, noted by the date.

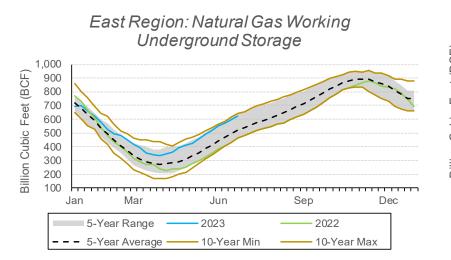


National Crude and East Region Natural Gas Inventories

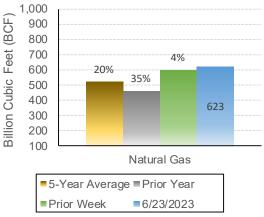


Historical Comparison





Historical Comparison

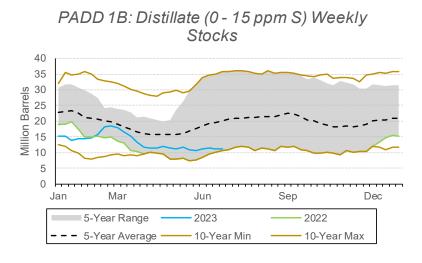


Note:

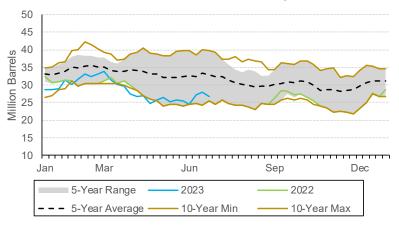
- 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Graphics summarize available USEIA data from the most recent week ending on Fridays.
- 3. Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater,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

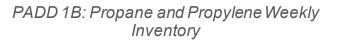


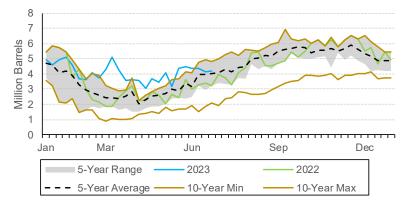
Regional Inventories: Select Liquid Fuels



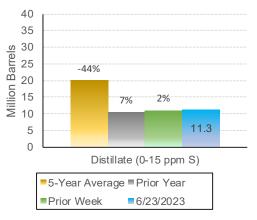
PADD 1B: Total Gasoline Weekly Stocks



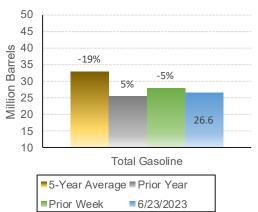




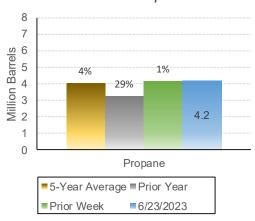
Historical Comparison



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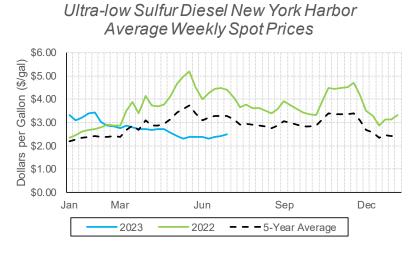


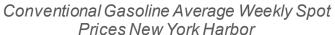
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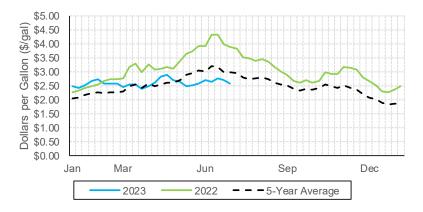
- 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater, negative values indicate current week is less than the historical value.



Transportation Fuel Prices Summary







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				
Гиеттуре	6/23/2023	6/16/2023	% Difference	Prior Year	% Difference
Regular Gasoline (dollars per gallon) ²	\$3.70	\$3.69	0.1%	\$4.99	-25.9%
On-road Diesel (dollars per gallon) ²	\$4.47	\$4.49	-0.5%	\$6.26	-28.7%

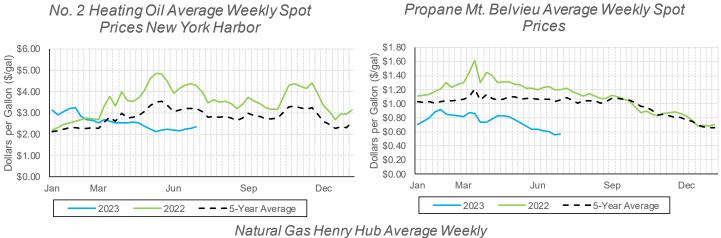
Notes:

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

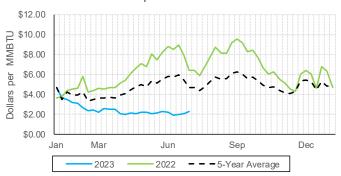
^{1.} Wholesale price data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.



Heating Fuel Prices Summary



Spot Prices



Wookly Survey Popults by Fuel Type	NYS Average Retail Prices				
Weekly Survey Results by Fuel Type	6/26/2023 6/12/		% Difference	Prior Year	% Difference
Ultra-low #2 Heating Oil Posted Credit Prices (dollars per gallon) ²	\$3.795	\$3.794	0.0%	\$5.958	-36.3%
Propane Posted Credit Prices - 1,100 gallon usage (dollars per gallon) ²	\$3.202	\$3.191	0.3%	\$3.535	-9.4%
Kerosene Posted Credit Prices (dollars per gallon) ²	\$5.283	\$5.306	-0.4%	\$6.738	-21.6%
Monthly USEIA Reporting	March 2023	February 2023	% Difference	March 2022	% Difference
Monthly Average Residential Natural Gas Prices (dollars per Therm) ³	\$1.557	\$1.604	-3.0%	\$1.370	13.6%
For regional NYS retail price summaries for heating fuels, visit the following NYSERDA resources: Home Heating Oil Prices Dashboard		During the non-heating season (April through September), the retail price surveys are only conducted twice per month. Rows shaded blue in the table above indicate data that are from the most recent survey, but not reflective of the current week.			
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/		 Notes: 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 refer- ences section for detailed citations. Visualization by 			

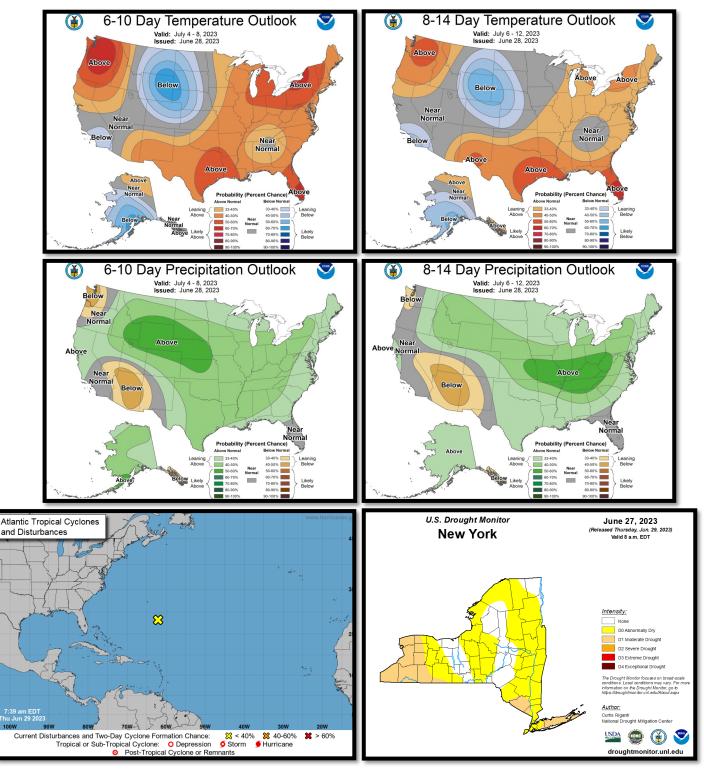
NYSERDA.

NYSERDA Heating Fuel Prices surveys.

June 30, 2023



Weather Outlook and Seasonal Threat Monitoring

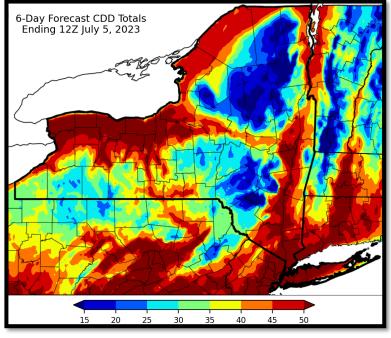


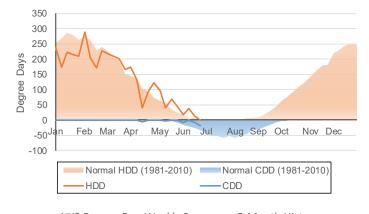
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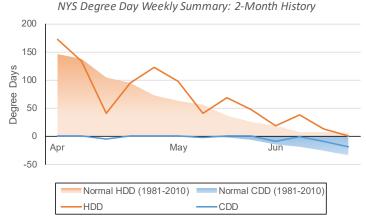
- 1. Temperature and precipitation outlook graphics from NOAA. See references section for detailed citations.
- 2. Seasonal threat monitoring for spring/summer. Graphics from NYSDEC. See reference section for detailed citation.
- 3. Seasonal threat monitoring for drought conditions during the spring/summer.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



Degree Days Outlook and Summary







City	6-Day CDD Forecast Normal		% Difference	
Albany	54	44	23%	
Binghamton	40	24	67%	
Buffalo	49	36	36%	
Glens Falls	41	27	52%	
Massena	50	27	85%	
NYC	67	77	-13%	
Rochester	54	40	35%	
Syracuse	52	37	41%	
Watertown	52	24	117%	

Forecast Dates:

06/29/2023 - 07/04/2023

Notes:

1. M = Missing data

Starting in June, the degree days reflect cooling degree days (CDD) with the arrival of late spring and summer seasons. Heating degree days (HDD) will return in September.

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

Notes:



References

National and Regional Fuel Inventories

USEIA. 2023. 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. 2023. 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. 2023. 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. 2023. 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. 2023. National and State Gas Prices. *New York Average Gas Prices*. Available online: <u>https://gasprices.aaa.com/?state=NY</u>.

USEIA. 2023. Spot Prices for Crude Oil and Petroleum Products. Available online: https://www.eia.gov/dnav/pet/xls/PET_PRI_SPT_S1_D.xls.

USEIA. 2023. 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. 2023. 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). 2023. 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. 2023. Weekly HDD Summary for New York. Available online: <u>http://www.nrcc.cornell.edu/industry/hdd/</u>.

NOAA. 2023. National Weather Service Climate Prediction Center. Degree Days Statistics. Available online: https://www.cpc.ncep.noaa.gov/products/analysis monitoring/cdus/degree https://www.cpc.ncep.noaa.gov/products/analysis

NOAA. 2023. National Hurricane Center and Central Pacific Hurricane Center. Atlantic Tropical Cyclones and Disturbances. Available online: <u>https://www.nhc.noaa.gov/</u>.

National Drought Mitigation Center. 2023. 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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