September 29, 2023



NYSERDA

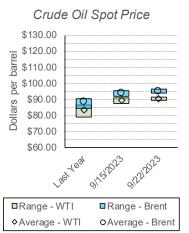
Overall Energy & Fuels Markets Summary

- Summary of average spot prices for the following fuels (see page 1).
 - Crude oil (WTI and Brent) slightly increased.
 - Natural gas (Henry Hub) and propane (Mt Belvieu) both slightly decreased compared to the prior week.
- Regional fuels inventories (see pages 2 and 3) compared to the previous week:
 - Ultra-low sulfur diesel (ULSD) and total gasoline inventories decreased.
 - Natural gas and propane inventories increased compared to prior week.
- Market influencers include:
 - Global factors include the ongoing Russian invasion of Ukraine including the associated geopolitical uncertainties, continued economics concerns, late summer/fall refinery maintenance schedules, and continued crude oil availability concerns.
- National Oceanic and Atmospheric Administration (NOAA) forecast for New York/Northeast temperatures likely above average for the next 1-2 weeks with below average precipitation (Page 6).
- NY retail prices (see pages 4 and 5) for heating and transportation fuels:
 - NY transportation regular gasoline and diesel both increased compared to the prior week.
 - Heating oil and kerosene increased while propane slightly decreased compared to the prior week.

Issue Contents:

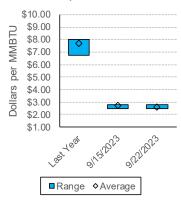
National Crude and East Region Natural Gas inventories	. Page 2
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Fundamental Fuels Market <u>Weekly Price Summaries</u>





Natural Gas Henry Hub Spot Price



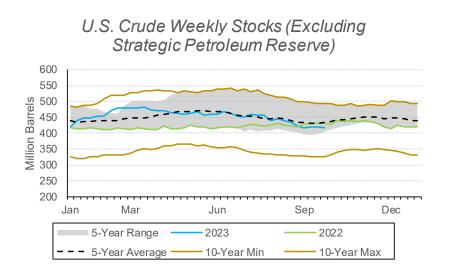
2. Graphics summarize available USEIA data from the most recent week ending on Fridays, noted by the date.

Note:

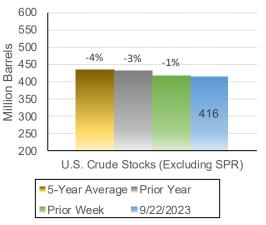
^{1.} Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.

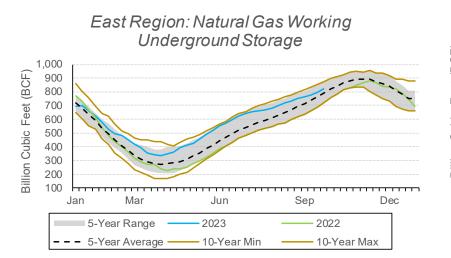


National Crude and East Region Natural Gas Inventories

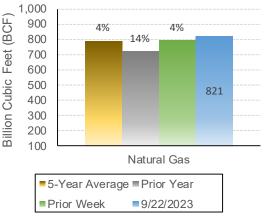


Historical Comparison





Historical Comparison

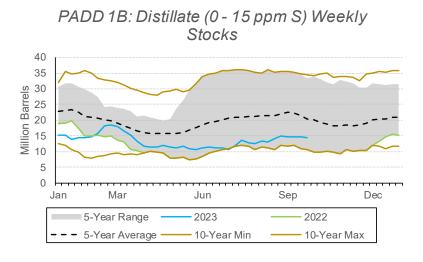


Note:

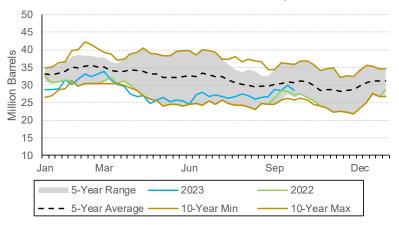
- 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Graphics summarize available USEIA data from the most recent week ending on Fridays.
- 3. Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater,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

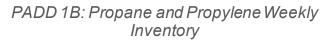


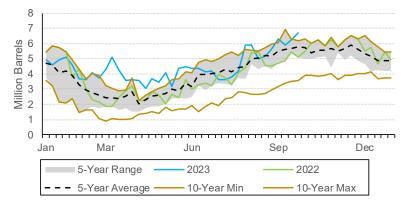
Regional Inventories: Select Liquid Fuels



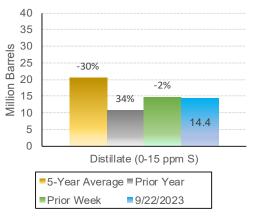
PADD 1B: Total Gasoline Weekly Stocks



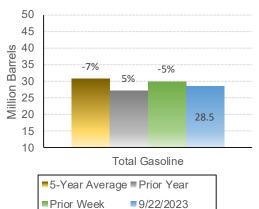




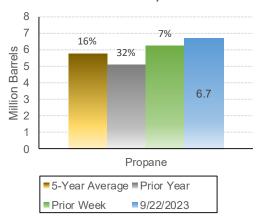
Historical Comparison



Historical Comparison



Historical Comparison

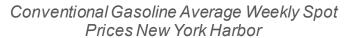


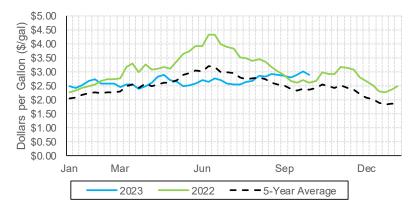
Notes:

- 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*





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	9/22/2023	9/15/2023	% Difference	Prior Year	% Difference
Regular Gasoline (dollars per gallon) ²	\$3.92	\$3.90	0.5%	\$3.74	5.0%
On-road Diesel (dollars per gallon) ²	\$4.73	\$4.65	1.8%	\$5.10	-7.2%

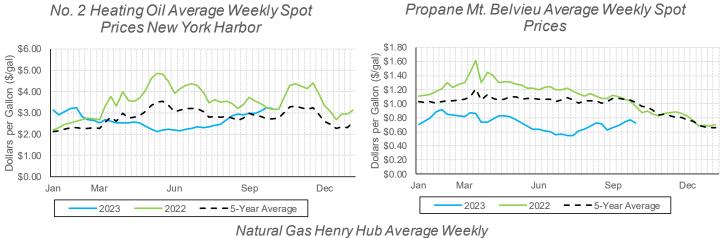
Notes:

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







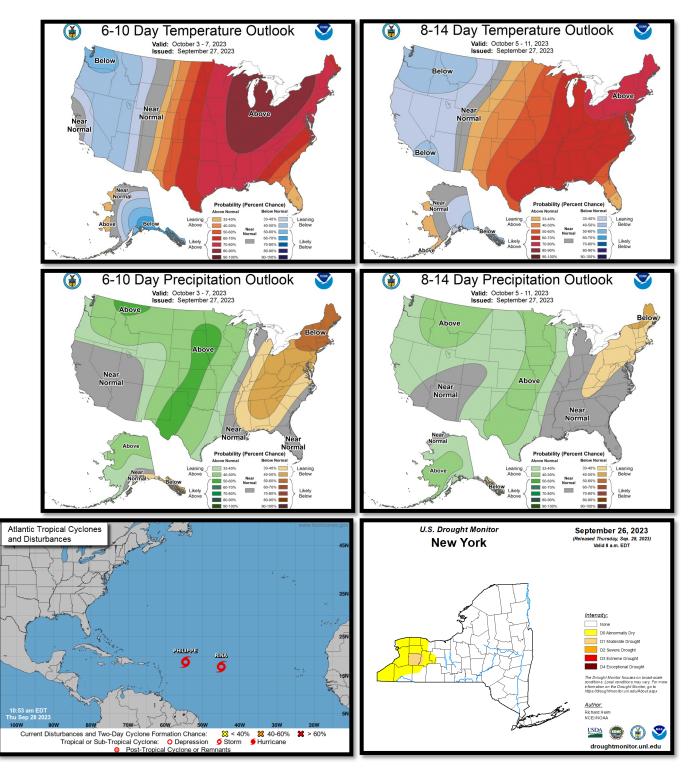
Weekly Survey Peoulte by Fuel Type	NYS Average Retail Prices				
Weekly Survey Results by Fuel Type	9/25/2023	9/18/2023	% Difference	Prior Year	% Difference
Ultra-low #2 Heating Oil Posted Credit Prices (dollars per gallon) ²	\$4.495	\$4.492	0.1%	\$4.875	-7.8%
Propane Posted Credit Prices - 1,100 gallon usage (dollars per gallon) ²	\$3.118	\$3.149	-1.0%	\$3.268	-4.6%
Kerosene Posted Credit Prices (dollars per gallon) ²	\$5.678	\$5.632	0.8%	\$5.829	-2.6%
Monthly USEIA Reporting	June 2023	May 2023	% Difference	June 2022	% Difference
Monthly Average Residential Natural Gas Prices (dollars per Therm) ³	\$1.907	\$1.617	18.0%	\$2.380	-19.9%
For regional NYS retail price summaries for fuels, visit the following NYSERDA resource <u>Home Heating Oil Prices Dashboard</u>	-	During the non-heating season (April through August), the retail price surveys are only conducted twice per month. Rows shaded blue in the table above indicate data that are from the most re- cent survey, but not reflective of the current week.			
<u>Kerosene Prices Dashboard</u> <u>Propane Prices Dashboard</u> Heating fuels retail price summaries presented in this report and on the NYSERDA dashboards are part of the		 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. 			
USEIA State Heating Oil and Propane Program/		 Residential natural gas price data from USEIA, see refer- ences section for detailed citations. Visualization by 			

NYSERDA Heating Fuel Prices surveys.

 Residential natural gas price data from USEIA, see refer ences section for detailed citations. Visualization by NYSERDA.



Weather Outlook and Seasonal Threat Monitoring

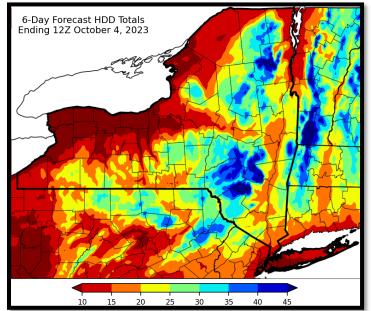


Notes:

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

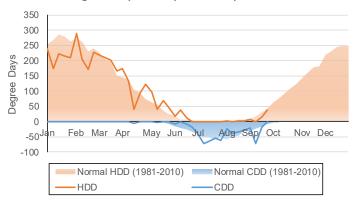


Degree Days Outlook and Summary

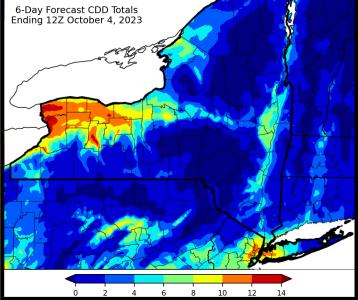


City	6-Day HDD Forecast	Normal	% Difference
Albany	18	49	-63%
Binghamton	28	65	-57%
Buffalo	5	47	-89%
Glens Falls	23	69	-67%
Massena	20	70	-71%
NYC	9	15	-40%
Rochester	9	47	-81%
Syracuse	13	51	-75%
Watertown	14	65	-78%

Forecast Dates: 09/28/2023 - 10/03/2023



NYS Degree Day Weekly Summary: Current Year



6-Day CDD Forecast	Normal	% Difference
6	4	50%
0	2	-100%
10	4	150%
4	1	300%
2	1	100%
11	17	-35%
10	5	100%
6	3	100%
6	2	200%
	Fore cast 6 0 10 4 2 11 10 6	Forecast Normal 6 4 0 2 10 4 4 1 2 1 11 17 10 5 6 3 6 2

Forecast Dates:

09/28/2023 - 10/03/2023

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> (<u>Heating & Cooling</u>)

Notes:

1. Heating degree day (HDD) and cooling degree day (CDD) forecasts from NOAA & Northeast Regional Climate Center at Cornell University (NRCC). See references section for detailed citations. Records noted with "M" indicate missing data.

^{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. 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>.

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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 and CDD 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_days/.

National Drought Mitigation Center. 2023. U.S. Drought Monitor. New York. Available online at: <u>https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?NY.</u>

NOAA. National Hurricane Center. Atlantic Tropical Cyclones and Disturbances. Available online at: <u>https://www.nhc.noaa.gov/</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 Policy, Analysis, and Research Group. For any questions, please reach out to:

Brad Leach, Senior Advisor, <u>Brad.Leach@nyserda.ny.gov</u>, 518-862-1090 x3364

Joseph Osso, Jr., Project Manager, Joseph.Osso@nyserda.ny.gov, 518-862-1090 x3345

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