

May 26, 2023

Overall Energy & Fuels Markets Summary

- Summary of average spot prices for the following fuels (see page 1).
 - Crude oil (WTI and Brent) and propane (Mt Belvieu) slightly decreased, while natural gas (Henry Hub) slightly increased.
- Regional fuels inventories (see pages 2 and 3) compared to the previous week:
 - Ultra-low sulfur diesel (ULSD) inventories decreased.
 - Total gasoline inventories slightly increased.
 - Propane inventories increased by more than 35%.
- Market influencers include:
 - Global factors include the ongoing Russian invasion of Ukraine, continued global economics concerns (example: recession), and U.S. national debt and inflation concerns.
- National Oceanic and Atmospheric Administration (NOAA) forecast for New York/Northeast temperatures likely above average for the next 1-2 weeks with below normal precipitation (Page 6). New York State Department of Environmental Conservation (NYSDEC) reports a low fire risk across NY.
- NY retail prices (see pages 4 and 5) for heating and transportation fuels:
 - NY transportation diesel slightly increased and regular gasoline slightly decreased compared to the prior week.

Issue Contents:

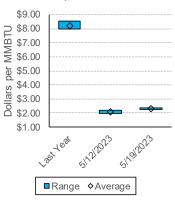
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Fundamental Fuels Market <u>Weekly Price Summaries</u>





Natural Gas Henry Hub Spot Price



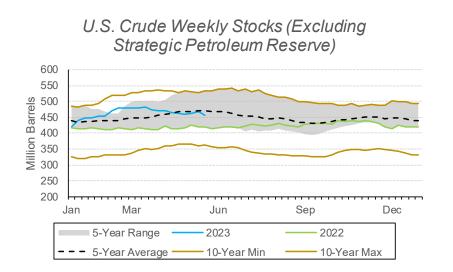
Note:

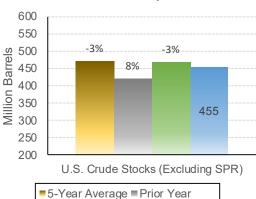
^{1.} Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.

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



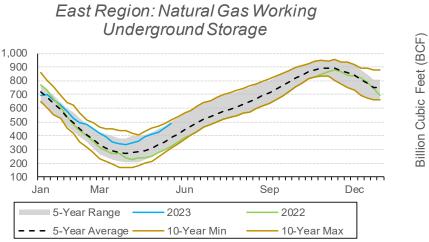
National Crude and East Region Natural Gas Inventories





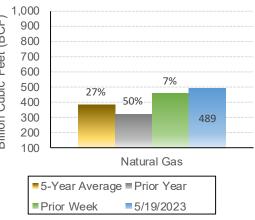
5/19/2023

Historical Comparison



Historical Comparison

Prior Week



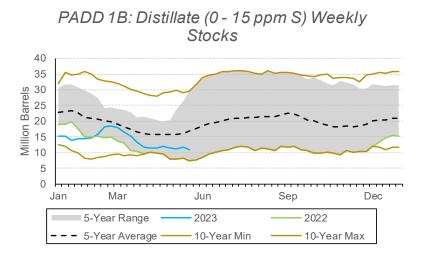
Note:

Billion Cubic Feet (BCF)

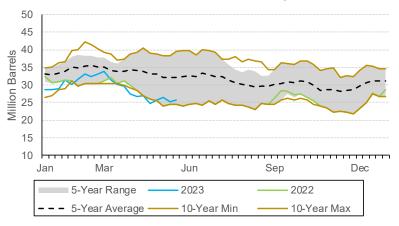
- 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Graphics summarize available USEIA data from the most recent week ending on Fridays.
- 3. Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater,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

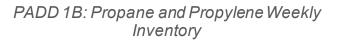


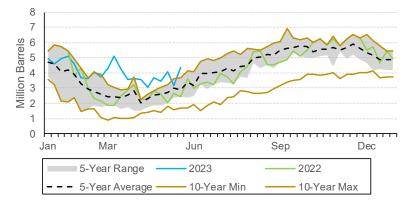
Regional Inventories: Select Liquid Fuels



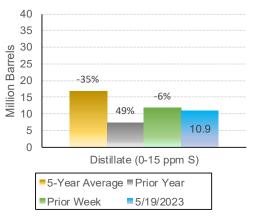
PADD 1B: Total Gasoline Weekly Stocks



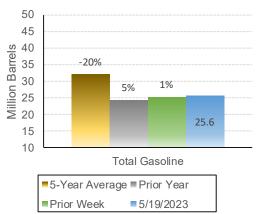




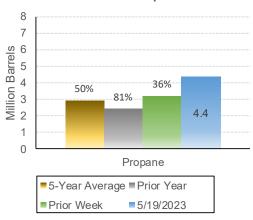
Historical Comparison



Historical Comparison



Historical Comparison

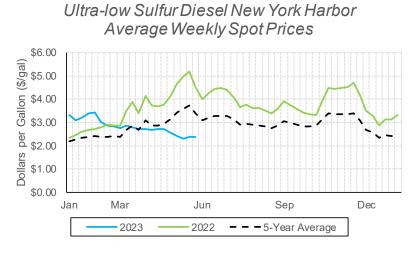


Notes:

- 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



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				
Гиегтуре	5/19/2023	5/12/2023	% Difference	Prior Year	% Difference
Regular Gasoline (dollars per gallon) ²	\$3.66	\$3.68	-0.5%	\$4.86	-24.8%
On-road Diesel (dollars per gallon) ²	\$4.63	\$4.59	0.8%	\$6.53	-29.1%

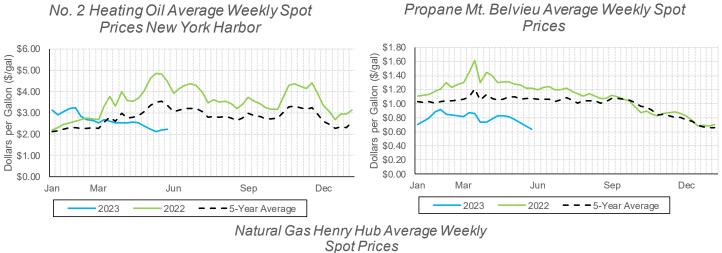
Notes:

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



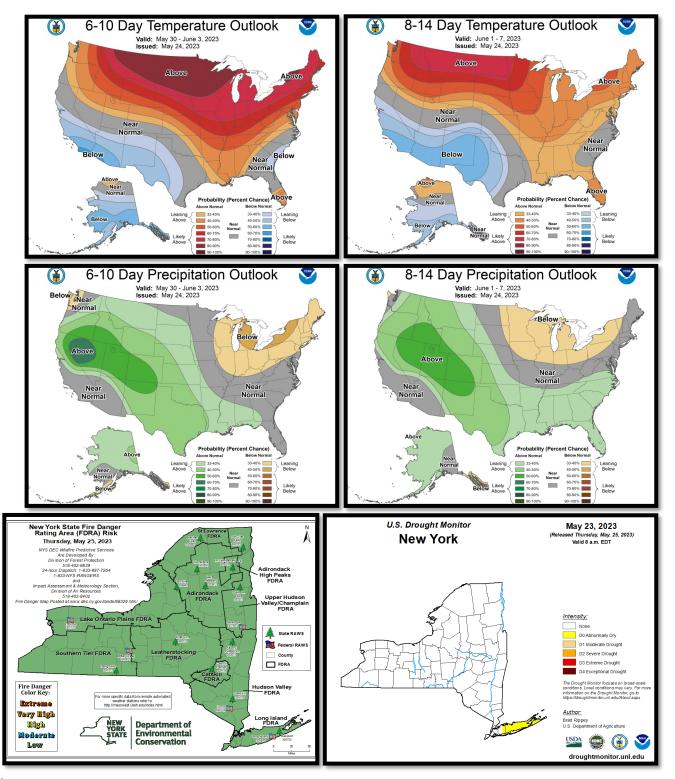


Weekly Survey Results by Fuel Type	NYS Average Retail Prices - Next Survey: 05/30/2023				
Weekly Survey Results by Fuel Type	5/15/2023	4/24/2023	% Difference	Prior Year	% Difference
Ultra-low #2 Heating Oil Posted Credit Prices (dollars per gallon) ²	\$3.911	\$4.102	-4.6%	\$6.296	-37.9%
Propane Posted Credit Prices - 1,100 gallon usage (dollars per gallon) ²	\$3.229	\$3.472	-7.0%	\$3.698	-12.7%
Kerosene Posted Credit Prices (dollars per gallon) ²	\$5.502	\$5.521	-0.3%	\$6.929	-20.6%
Monthly USEIA Reporting	February 2023	January 2023	% Difference	December 2021	% Difference
Monthly Average Residential Natural Gas Prices (dollars per Therm) ³	\$1.604	\$1.665	-3.7%	\$1.267	26.6%
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/		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.			
		 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 Heating Fuel Prices surveys.



Weather Outlook and Seasonal Threat Monitoring

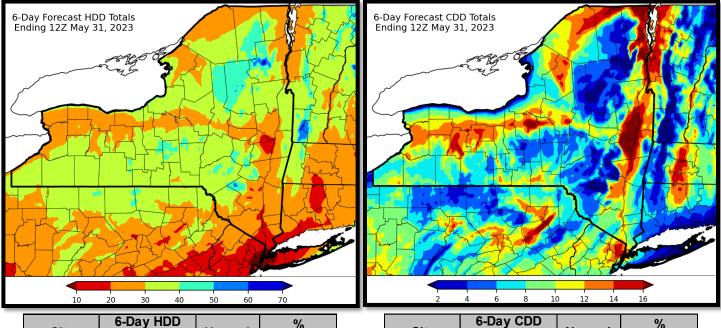


Notes:

- 1. Temperature and precipitation outlook graphics from NOAA. See references section for detailed citations.
- 2. Seasonal threat monitoring for 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

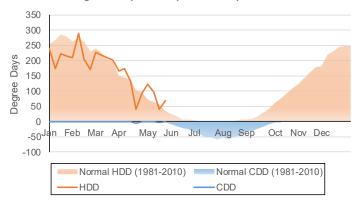


05/25/2023 - 05/30/2023

City	6-Day HDD Forecast	Normal	% Difference
Albany	22	25	-12%
Binghamton	39	40	-3%
Buffalo	34	31	10%
Glens Falls	37	37	0%
Massena	30	39	-23%
NYC	9	11	-18%
Rochester	34	29	17%
Syracuse	32	31	3%
Watertown	40	44	-9%

City	6-Day CDD Forecast	Normal	% Difference		
Albany	19	13	46%		
Binghamton	8	7	14%		
Buffalo	12	11	9%		
Glens Falls	15	7	114%		
Massena	11	6	83%		
NYC	13	24	-46%		
Rochester	11	13	-15%		
Syracuse	13	11	18%		
Watertown	6	5	20%		
Forecast Dates:					

Forecast Dates: 05/25/2023 - 05/30/2023



NYS Degree Day Weekly Summary: Current Year

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

HDD and Cooling Degree Day (CDD) data from NOAA. Positive values represent HDD and negative values represent CDD. See reference sec-2. tion 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>.

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 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>

New York State Department of Environmental Conservation (NYSDEC). 2023.New York State Fire Danger Rating Area Risk. Available online: <u>https://www.dec.ny.gov/lands/68329.html</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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