May 12, 2023



Overall Energy & Fuels Markets Summary

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

Issue Contents:

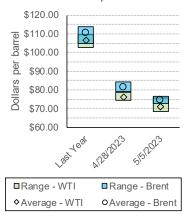
National crude and East Region natural gas inventories	Page 2
Regional Inventories: Select Liquid Fuels	. Page 3
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Weather Outlook	Page 6
Degree Days Outlook and Summary	. Page 7
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Note:

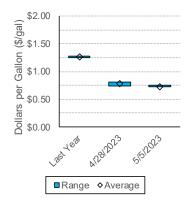
- Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Graphics summarize available USEIA data from the most recent week ending on Fridays, noted by the date.

Fundamental Fuels Market Weekly Price Summaries

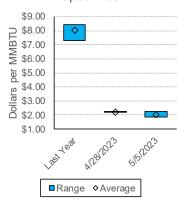




Propane Mt. Belvieu Spot Price



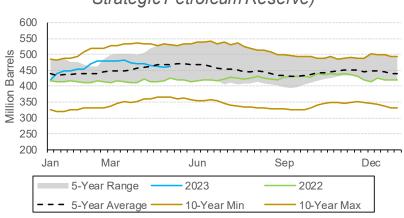
Natural Gas Henry Hub Spot Price

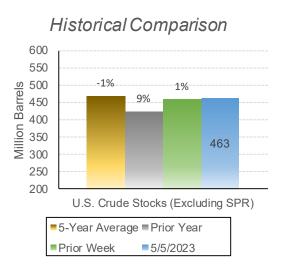




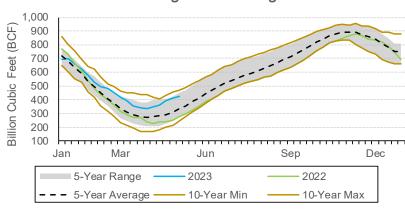
National Crude and East Region Natural Gas Inventories

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

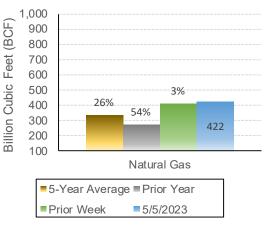




East Region: Natural Gas Working Underground Storage



Historical Comparison



Note:

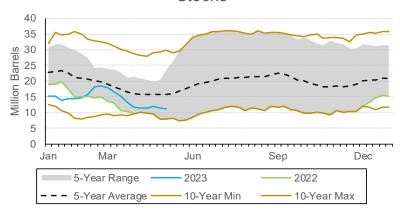
- 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Graphics summarize available USEIA data from the most recent week ending on Fridays.

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.

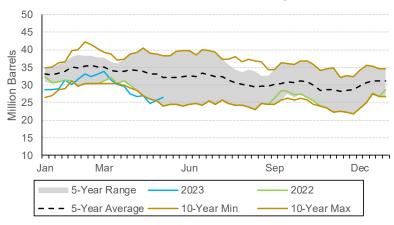


Regional Inventories: Select Liquid Fuels

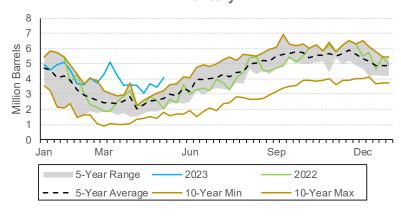
PADD 1B: Distillate (0 - 15 ppm S) Weekly Stocks



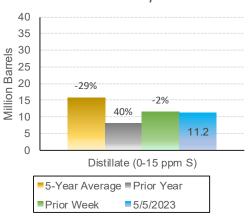
PADD 1B: Total Gasoline Weekly Stocks



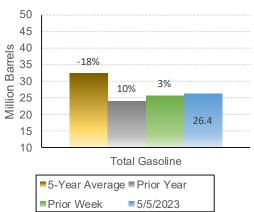
PADD 1B: Propane and Propylene Weekly Inventory



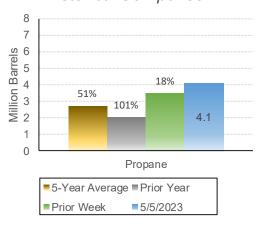
Historical Comparison



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				
i dei Type	5/5/2023	4/28/2023	% Difference	Prior Year	% Difference
Regular Gasoline (dollars per gallon) ²	\$3.68	\$3.71	-0.7%	\$4.38	-16.0%
On-road Diesel (dollars per gallon) ²	\$4.60	\$4.75	-3.1%	\$5.37	-14.4%

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

No. 2 Heating Oil Average Weekly Spot Prices New York Harbor



Propane Mt. Belvieu Average Weekly Spot Prices



Natural Gas Henry Hub Average Weekly Spot Prices



Weekly Survey Results by Fuel Type	NYS Average Retail Prices - Next Survey: 05/15/2023				
Weekly Survey Results by Fuel Type	4/24/2023	4/10/2023	% Difference	Prior Year	% Difference
Ultra-low #2 Heating Oil Posted Credit Prices (dollars per gallon) ²	\$4.102	\$4.259	-3.7%	\$5.336	-23.1%
Propane Posted Credit Prices - 1,100 gallon usage (dollars per gallon) ²	\$3.472	\$3.432	1.2%	\$3.671	-5.4%
Kerosene Posted Credit Prices (dollars per gallon) ²	\$5.521	\$5.705	-3.2%	\$6.024	-8.3%
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/ NYSERDA Heating Fuel Prices surveys.

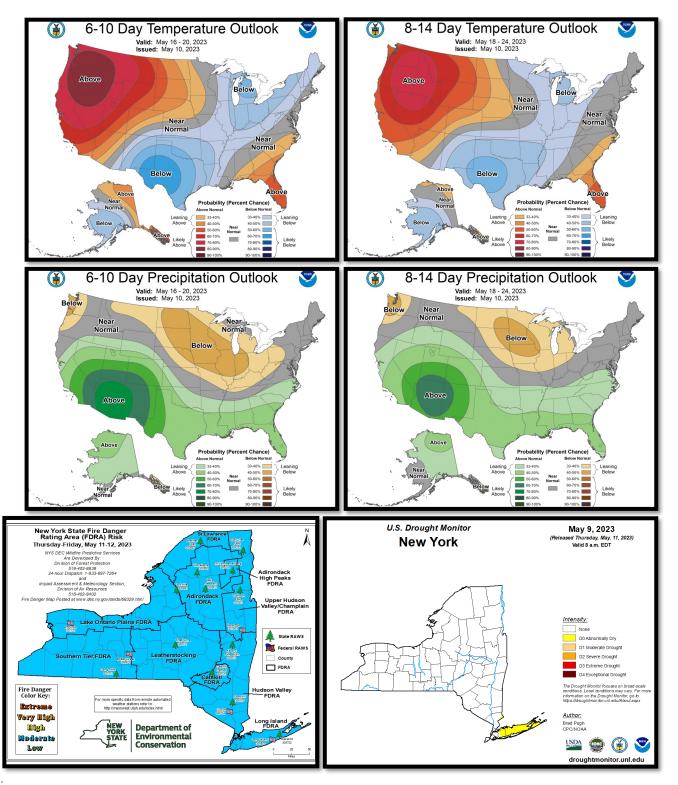
During the non-heating season (April through September), the retail price surveys are only conducted twice per month. Rows shaded blue in the table above indicate data that are from the most recent survey, but not reflective of the current week.

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.



Weather Outlook and Seasonal Threat Monitoring

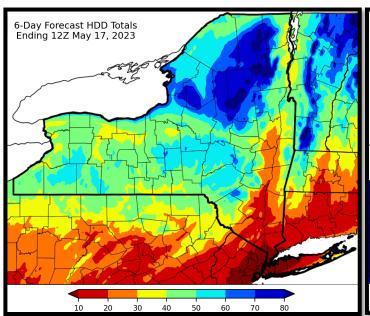


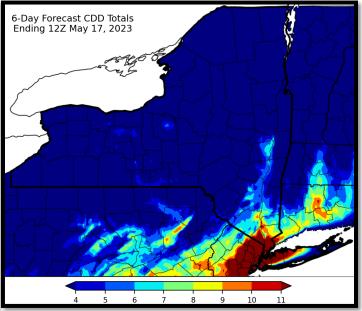
Notes:

- 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.
- 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	23	41	-44%
Binghamton	38	60	-37%
Buffalo	38	52	-27%
Glens Falls	33	57	-42%
Massena	44	61	-28%
NYC	2	22	-91%
Rochester	37	47	-21%
Syracuse	35	50	-30%
Watertown	52	66	-21%

Forecast Dates:

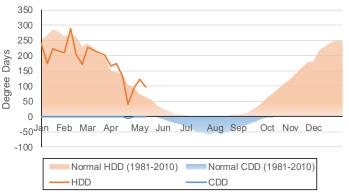
05/11/2023 - 05/16/2023

City	6-Day CDD Forecast	Normal	% Difference
Albany	5	5	0%
Binghamton	0	4	-100%
Buffalo	1	5	-80%
Glens Falls	1	3	-67%
Massena	1	3	-67%
NYC	22	10	120%
Rochester	2	6	-67%
Syracuse	3	5	-40%
Watertown	0	2	-100%

Forecast Dates:

05/11/2023 - 05/16/2023





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 (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 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: https://www.eia.gov/dnav/pet/hist_xls/WD0ST_R1Y_1w.xls.

USEIA. 2023. Weekly Central Atlantic (PADD 1B) Ending Stocks of Total Gasoline (Thousand Barrels). Available online: https://www.eia.gov/dnav/pet/hist_xls/WGTST1B1w.xls.

USEIA. 2023. Weekly Central Atlantic (PADD 1B) Propane and Propylene Ending Stocks Excluding Propylene at Terminal (Thousand Barrels). Available online: https://www.eia.gov/dnav/pet/hist_xls/WPRST1B1w.xls.

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

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: https://www.eia.gov/dnav/ng/xls/NG PRI FUT S1 D.xls.

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Weather Outlook and Data

National Oceanic and Atmospheric Administration (NOAA). 2023. National Weather Service Climate Prediction Center. Temperature and Precipitation Outlooks. Available online: https://www.cpc.ncep.noaa.gov/.

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

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

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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