

Overall Energy & Fuels Markets Summary

- Summary of average spot prices for the following fuels (see page 1).
 - Crude oil (WTI and Brent) and natural gas (Henry Hub) have increased, while propane (Mt Belvieu) has decreased.
- Regional fuels inventories (see pages 2 and 3) compared to the previous week:
 - Ultra-low sulfur diesel (ULSD) inventories increased.
 - Total gasoline inventories and propane inventories decreased.
- 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 above average for the next 1-2 weeks with below normal precipitation (Page 6). New York State Department of Environmental Conservation (NYSDEC) reports a high fire risk across NY.
- NY retail prices (see pages 4 and 5) for heating and transportation fuels:
 - NY transportation diesel slightly increased and gasoline slightly decreased compared to the prior week.
 - Heating oil, propane and kerosene have all decreased since the last survey on 4/24/2023.

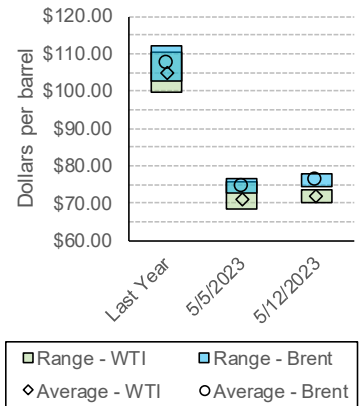
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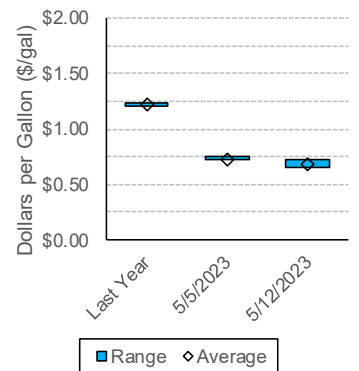
Note:
 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
 2. Graphics summarize available USEIA data from the most recent week ending on Fridays, noted by the date.

Fundamental Fuels Market Weekly Price Summaries

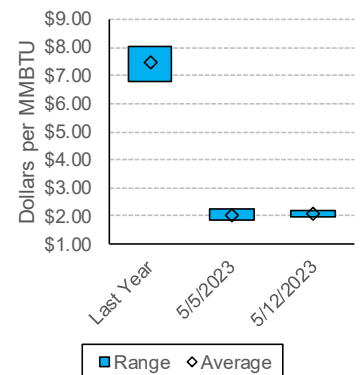
Crude Oil Spot Price



Propane Mt. Belvieu Spot Price

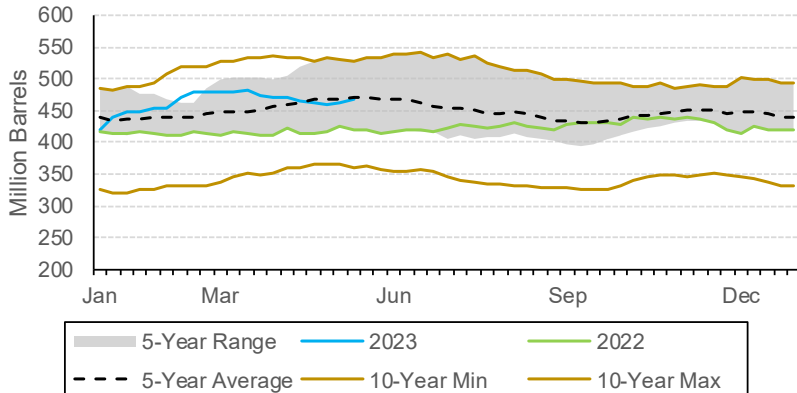


Natural Gas Henry Hub Spot Price

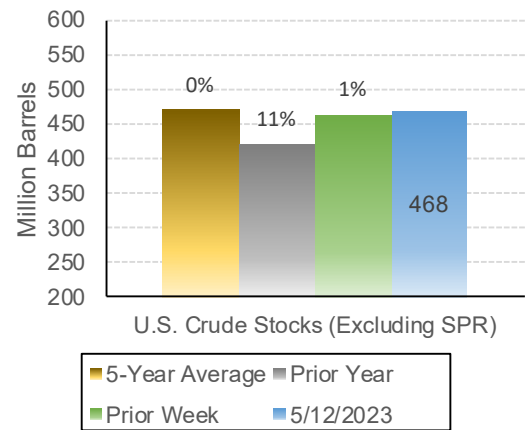


National Crude and East Region Natural Gas Inventories

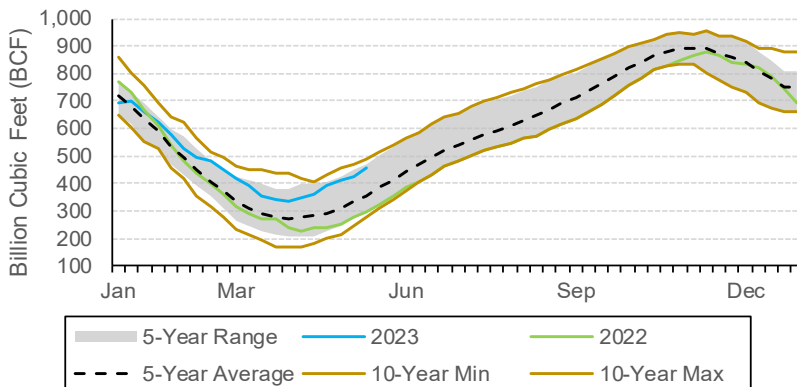
U.S. Crude Weekly Stocks (Excluding Strategic Petroleum Reserve)



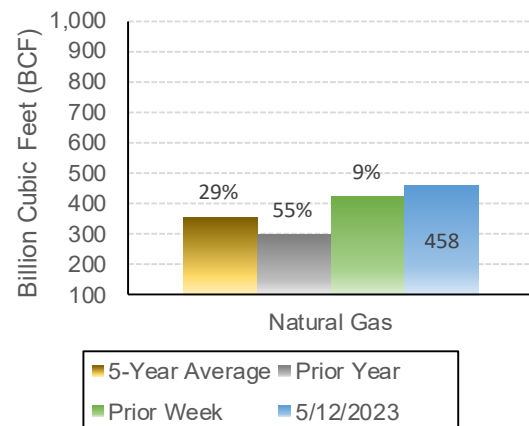
Historical Comparison



East Region: Natural Gas Working Underground Storage



Historical Comparison

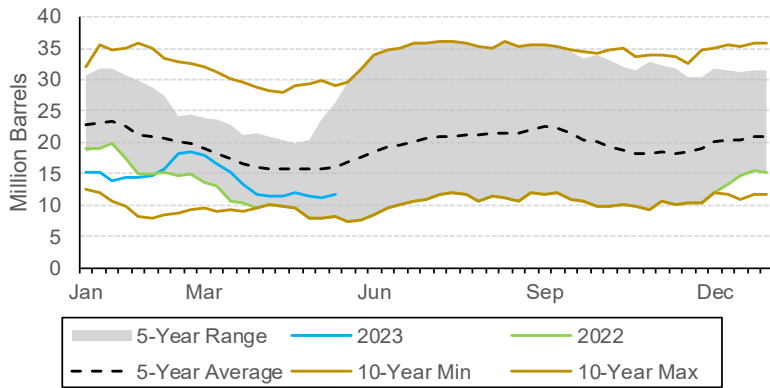


Note:

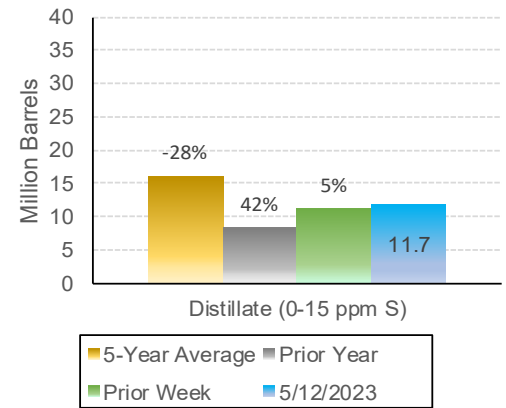
1. Data from USEIA, see references section for detailed citations. Visualizations by NYSEDA.
2. Graphics summarize available USEIA data from the most recent week ending on Fridays.
3. Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater, negative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

Regional Inventories: Select Liquid Fuels

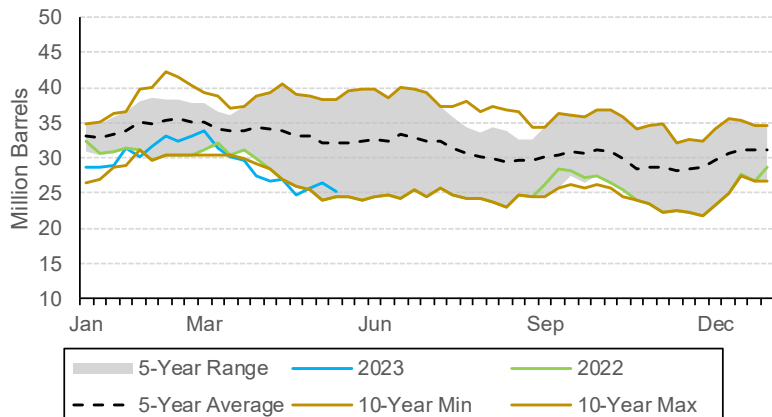
PADD 1B: Distillate (0 - 15 ppm S) Weekly Stocks



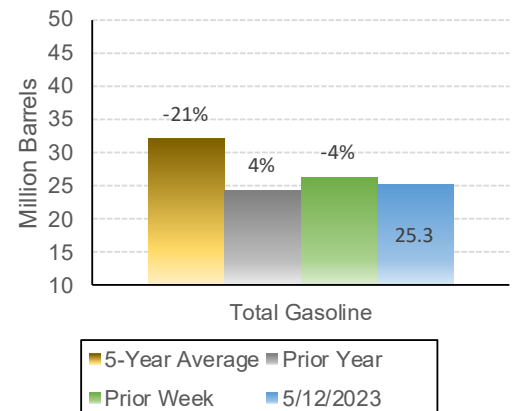
Historical Comparison



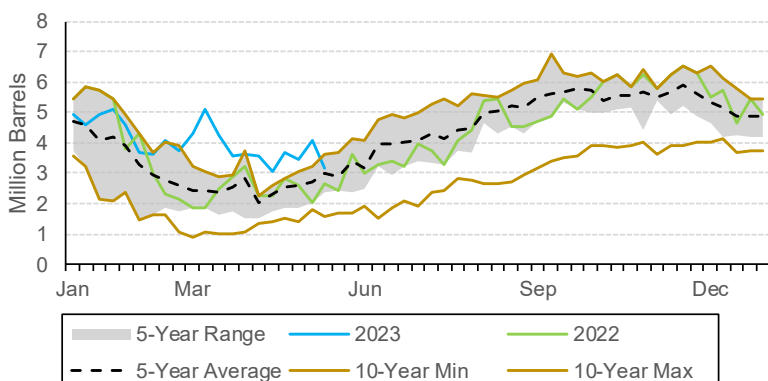
PADD 1B: Total Gasoline Weekly Stocks



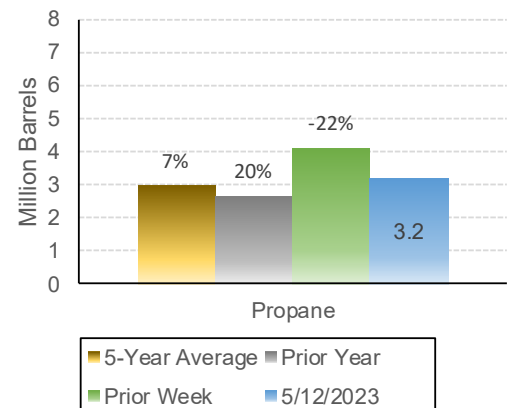
Historical Comparison



PADD 1B: Propane and Propylene Weekly Inventory



Historical Comparison

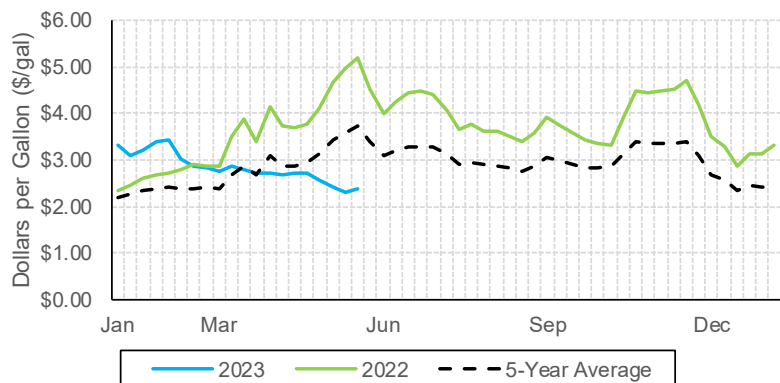


Notes:

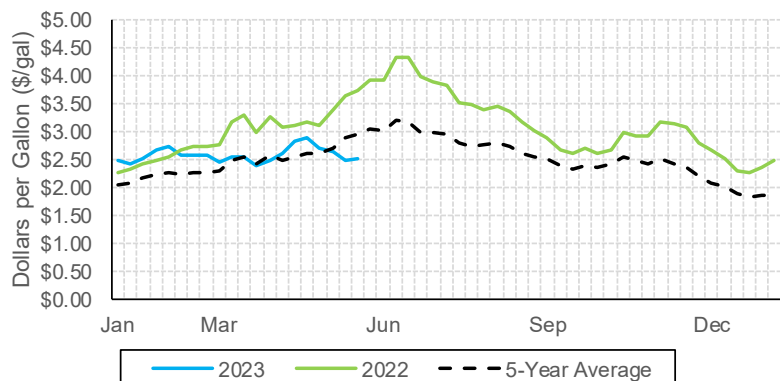
1. Data from USEIA, see references section for detailed citations. Visualizations by NYSDERDA.
2. Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater, negative values indicate current week is less than the historical value.

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 NYSEERDA resources:

[Transportation Fuel Dashboard](#)

Transportation fuels retail price summaries presented in this report and on the NYSEERDA dashboards are collected by the Energy Markets team from AAA and USEIA as part of our ongoing fuels markets analyses and monitoring.

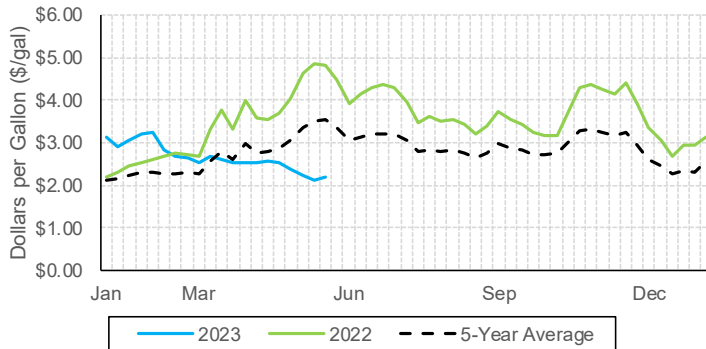
Fuel Type	NYS Average Retail Prices				
	5/12/2023	5/5/2023	% Difference	Prior Year	% Difference
Regular Gasoline (dollars per gallon) ²	\$3.66	\$3.68	-0.5%	\$4.59	-20.2%
On-road Diesel (dollars per gallon) ²	\$4.64	\$4.60	0.9%	\$6.42	-27.8%

Notes:

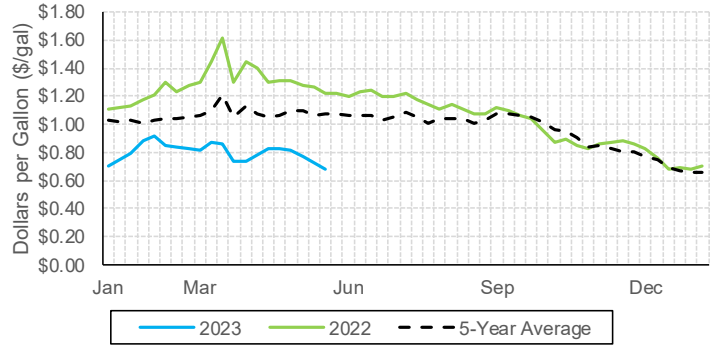
1. Wholesale price data from USEIA, see references section for detailed citations. Visualizations by NYSEERDA.
2. Retail price data from AAA, see references section for detailed citations. Visualizations by NYSEERDA.

Heating Fuel Prices Summary

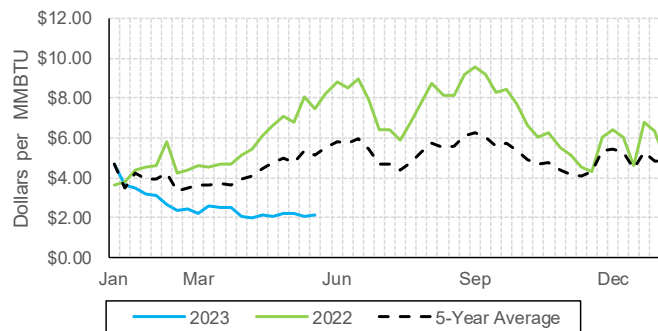
No. 2 Heating Oil Average Weekly Spot Prices New York Harbor



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				
	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 NYSEERDA resources:

[Home Heating Oil Prices Dashboard](#)

[Kerosene Prices Dashboard](#)

[Propane Prices Dashboard](#)

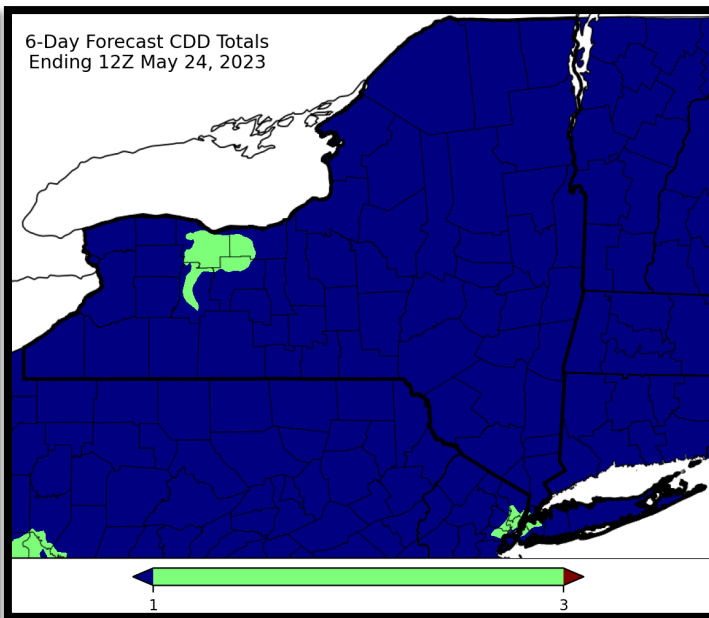
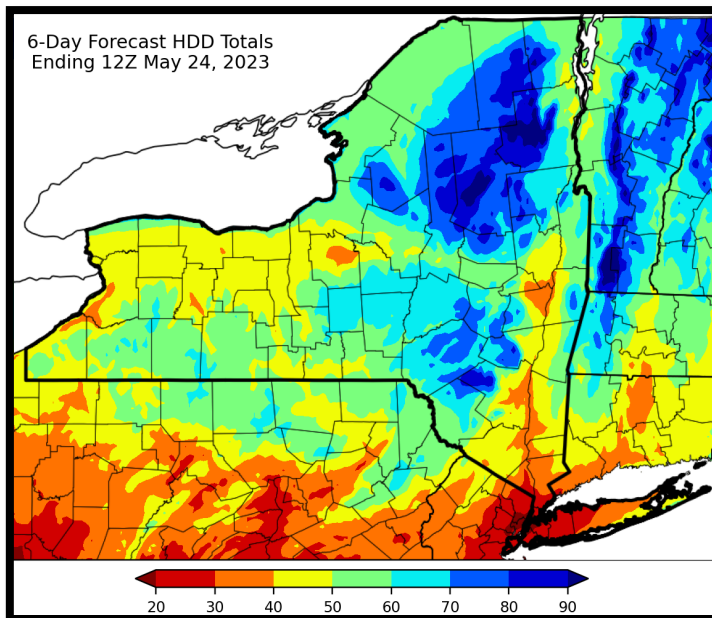
Heating fuels retail price summaries presented in this report and on the NYSEERDA dashboards are part of the USEIA State Heating Oil and Propane Program/ NYSEERDA Heating Fuel Prices surveys.

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:

1. Wholesale price data from USEIA, see references section for detailed citations. Visualizations by NYSEERDA.
2. Retail price data from USEIA & NYSEERDA, see references section for detailed citations. Visualizations by NYSEERDA. Highlighted cells indicate price correction from prior week.
3. Residential natural gas price data from USEIA, see references section for detailed citations. Visualization by NYSEERDA.

Degree Days Outlook and Summary



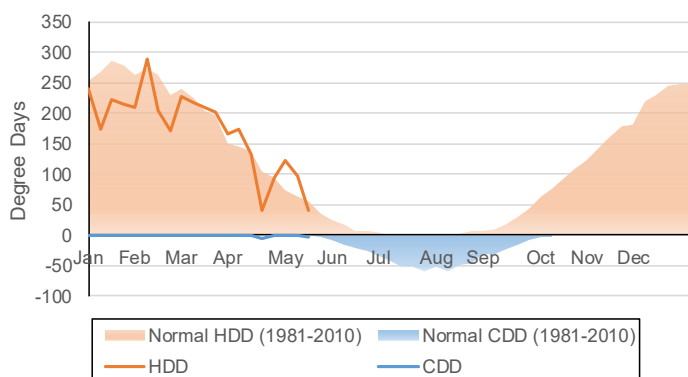
City	6-Day HDD Forecast	Normal	% Difference
Albany	42	32	31%
Binghamton	63	50	26%
Buffalo	50	41	22%
Glens Falls	58	46	26%
Massena	62	49	27%
NYC	22	16	38%
Rochester	50	37	35%
Syracuse	46	39	18%
Watertown	59	54	9%

Forecast Dates:
05/18/2023 - 05/23/2023

City	6-Day CDD Forecast	Normal	% Difference
Albany	0	9	-100%
Binghamton	0	5	-100%
Buffalo	0	8	-100%
Glens Falls	0	4	-100%
Massena	0	4	-100%
NYC	2	16	-88%
Rochester	0	9	-100%
Syracuse	0	8	-100%
Watertown	0	3	-100%

Forecast Dates:
05/18/2023 - 05/23/2023

NYS Degree Day Weekly Summary: Current Year



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

[Heating Degree Data](#)

[Monthly Degree Day Data \(Heating & Cooling\)](#)

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 NYSDERDA.

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.

National and Regional Price Summaries

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.

USEIA & NYSERDA. 2023. State Heating Oil and Propane Program/NYSERDA Heating Fuel Prices Survey.

Available online: <https://www.eia.gov/petroleum/heatingoilpropane/>.

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/>.

NOAA and Northeast Regional Climate Center (NRCC) at Cornell University. 2023. Weekly HDD and CDD Summary for New York. Available online: <http://www.nrcc.cornell.edu/industry/hdd/>.

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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