February 3, 2023



Overall Energy & Fuels Markets Summary

- Crude oil, propane, and natural gas (Henry Hub) weekly average spot prices compared to the previous week (see page 1):
 - WTI/Brent (crude oil) and propane (Mt. Belvieu) slightly increased
 - Natural gas at Henry Hub slightly decreased.
- Regional fuels inventories (see pages 2 and 3) varied compared to the previous week:
 - Ultra-low sulfur diesel (ULSD) inventory increased while total gasoline and propane inventories decreased.
 - ULSD and gasoline inventories are below the 5-year range.
- Market influencers include:
 - Global factors include the ongoing Russian invasion of Ukraine, warm winter in Europe, and COVID-19 in China.
 - Weather forecast for NY indicating a possible return to warmer than normal temperatures (see page 6). The warmer winter temperatures to date have decreased demand on heating fuels.
- NY retail prices (see pages 4 and 5) for gasoline, diesel, heating oil, propane, and kerosene remain elevated compared to last year:
 - NY retail prices for heating oil decreased while propane, and kerosene increased compared to the prior week.
 - NY transportation gasoline and diesel fuel retail prices slightly increased compared to the prior week.

Issue Contents:

National crude and East Region natural gas inventories	Page 2
Regional Inventories: Select Liquid Fuels	Page 3
Transportation Fuels Prices Summary	Page 4
Heating Fuel Prices Summary	Page 5
Weather Outlook	Page 6
Degree Days Outlook and Summary	Page 7
References	Page 8

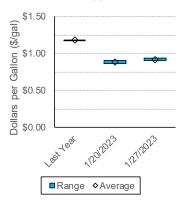
Note:

- 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.

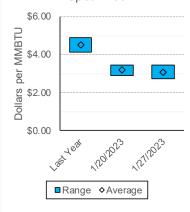
Fundamental Fuels Market Weekly Price Summaries



Propane Mt. Belvieu Spot Price



Natural Gas Henry Hub Spot Price



Page 1

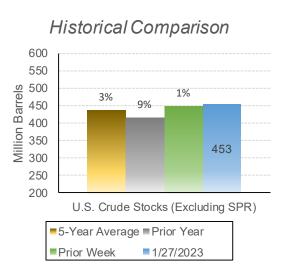
February 3, 2023



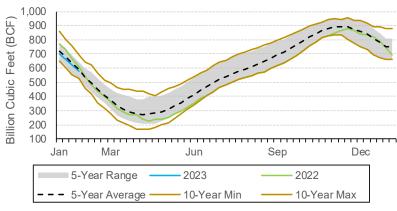
National Crude and East Region Natural Gas Inventories

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

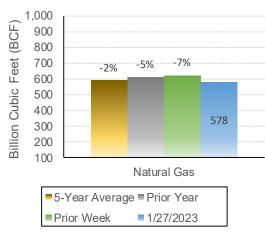
600 550 500 450 400 350 300 250 200 Sep Mar Dec Jan Jun 5-Year Range 2022 2023 - - 5-Year Average 10-Year Min 10-Year Max







Historical Comparison



Note:

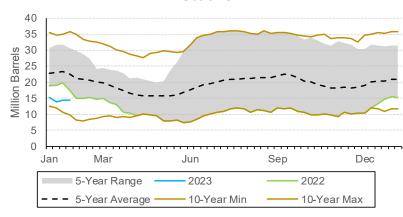
- Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- Graphics summarize available USEIA data from the most recent week ending on Fridays.

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.

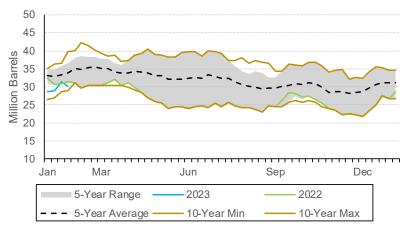


Regional Inventories: Select Liquid Fuels

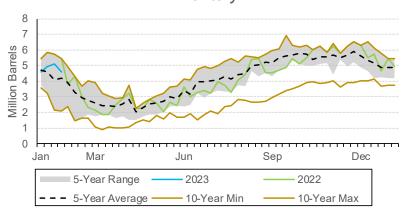
PADD 1B: Distillate (0 - 15 ppm S) Weekly Stocks



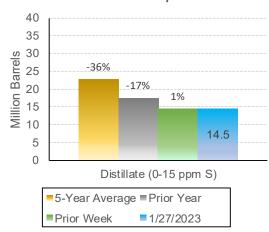
PADD 1B: Total Gasoline Weekly Stocks



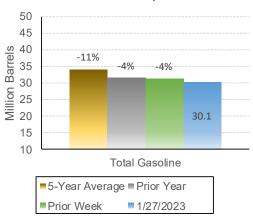
PADD 1B: Propane and Propylene Weekly Inventory



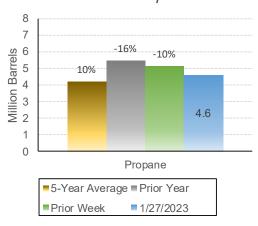
Historical Comparison



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				
ruer Type	1/27/2023 1/20/2023		% Difference	Prior Year	% Difference
Regular Gasoline (dollars per gallon) ²	\$3.49	\$3.48	0.1%	\$2.48	40.5%
On-road Diesel (dollars per gallon) ²	\$3.78	\$3.74	1.2%	\$2.83	33.6%

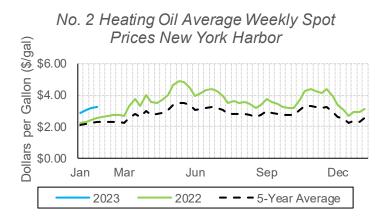
Notes:

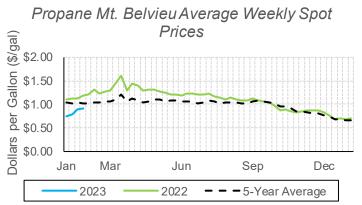
^{1.} Wholesale price data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.

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



Heating Fuel Prices Summary





Natural Gas Henry Hub Average Weekly Spot Prices



Weekly Survey Results by Fuel Type	NYS Average Retail Prices				
weekly Survey Results by Fuel Type	1/30/2023	1/23/2023	% Difference	Prior Year	% Difference
Ultra-low #2 Heating Oil Posted Credit Prices (dollars per gallon) ²	\$4.817	\$4.884	-1.4%	\$3.877	24.3%
Propane Posted Credit Prices - 1,100 gallon usage (dollars per gallon) ²	\$3.505	\$3.502	0.1%	\$3.371	4.0%
Kerosene Posted Credit Prices (dollars per gallon) ²	\$6.672	\$5.977	11.6%	\$4.295	55.4%
Monthly USEIA Reporting	November 2022	October 2022	% Difference	November 2021	% Difference
Monthly Average Residential Natural Gas Prices (dollars per Therm) ³	\$1.866	\$2.123	-12.1%	\$1.664	12.2%

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

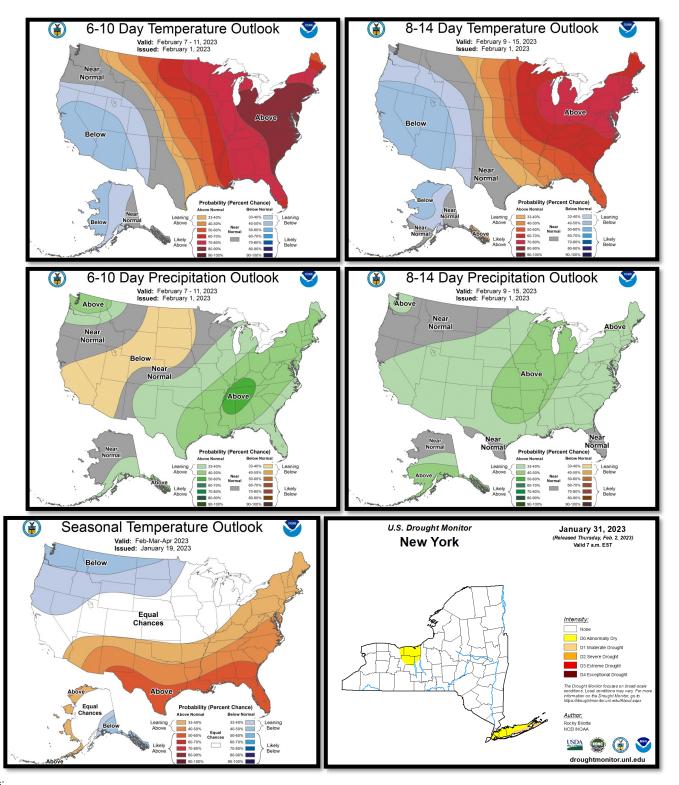
Heating fuels retail price summaries presented in this report and on the NYSERDA dashboards are part of the USEIA State Heating Oil and Propane Program/ NYSERDA Heating Fuel Prices surveys.

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

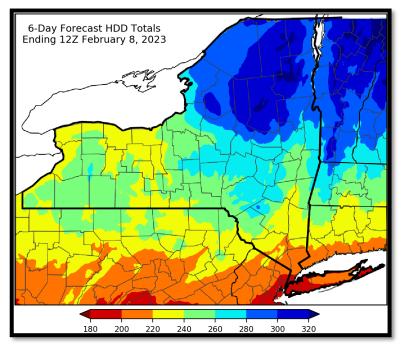


Notes:

- 1. Temperature and precipitation outlook graphics from NOAA. See references section for detailed citations.
- 2. Seasonal threat monitoring for winter season. Graphics from NOAA. 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 HDD Forecast
Albany	252
Binghamton	256
Buffalo	237
Glans Falls	274
Massena	301
NYC	198
Rochester	237
Syracuse	246
Watertown	272

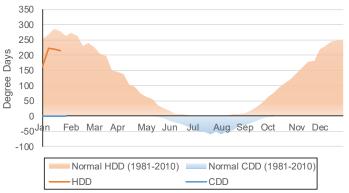
Forecast Dates:

02/02/2023 - 02/07/2023

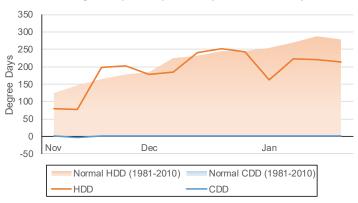
Notes:

1. M = Missing data





NYS Degree Day Weekly Summary: 2-Month History



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) forecast from NOAA & Northeast Regional Climate Center at Cornell University (NRCC). See references section for detailed citations.
- 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. 2022. 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.

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USEIA. 2022. 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. 2022. 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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USEIA. 2022. Spot Prices for Crude Oil and Petroleum Products. Available online: https://www.eia.gov/dnav/pet/xls/PET_PRI_SPT_S1_D.xls.

USEIA. 2022. 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. 2022. 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). 2022. 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. 2022. Weekly HDD Summary for New York. Available online: http://www.nrcc.cornell.edu/industry/hdd/.

NOAA. 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. U.S. Drought Monitor. New York. Available online at: https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?NY.

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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