March 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):
 - Natural gas (Henry Hub), crude oil (WTI and Brent), and propane (Mt. Belvieu) were comparable/slight decrease.
- Regional fuels inventories (see pages 2 and 3) varied compared to the previous week:
 - Ultra-low sulfur diesel (ULSD) and total gasoline inventories increased while propane inventories slightly decreased.
 - ULSD, total gasoline, propane, and natural gas inventories are within or greater than the 5-year range.
- Market influencers include:
 - Global factors include the ongoing Russian invasion of Ukraine, warmer winter in Europe, and global economics/supply chain concerns.
 - Weather forecast for NY indicating potential for "leaning" to "likely" below normal temperatures for March (see page 6). The warmer winter temperatures this winter season for the East Coast 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 heating oil, propane, and kerosene retail prices decreased compared to the prior week.
 - NY transportation gasoline and diesel fuel retail prices slightly increased compared to the prior week.

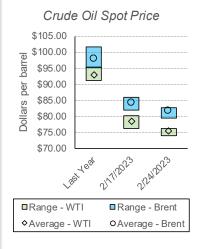
Issue Contents:

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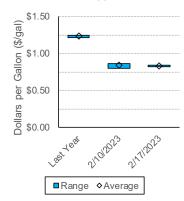
Note:

- 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.

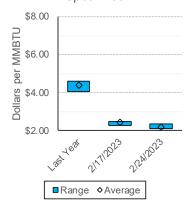
Fundamental Fuels Market <u>Weekly Price Summaries</u>



Propane Mt. Belvieu Spot Price



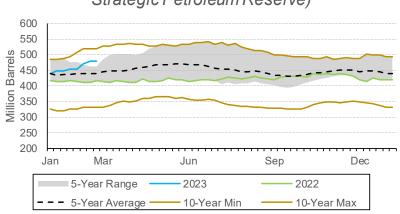
Natural Gas Henry Hub Spot Price

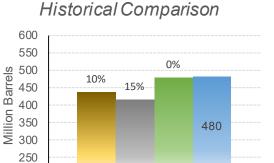




National Crude and East Region Natural Gas Inventories

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



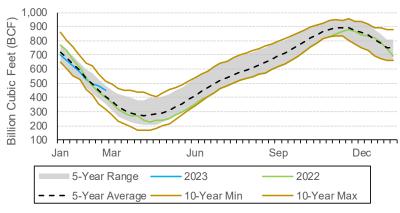


U.S. Crude Stocks (Excluding SPR)

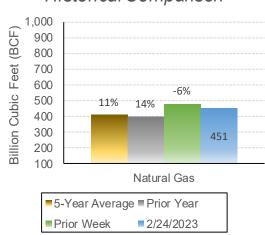
■5-Year Average ■Prior Year
■Prior Week ■2/24/2023

200





Historical Comparison



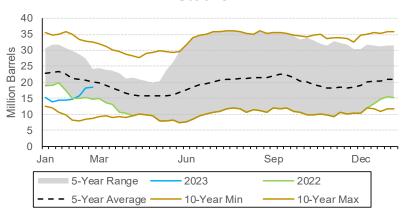
Note:

- 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.

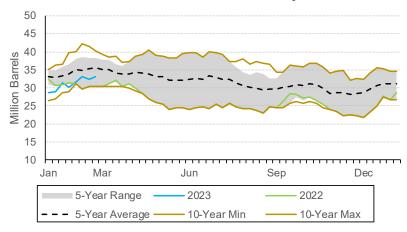


Regional Inventories: Select Liquid Fuels

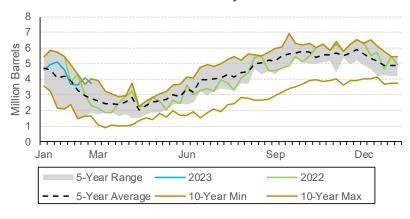
PADD 1B: Distillate (0 - 15 ppm S) Weekly Stocks



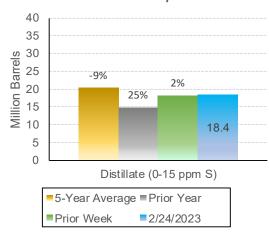
PADD 1B: Total Gasoline Weekly Stocks



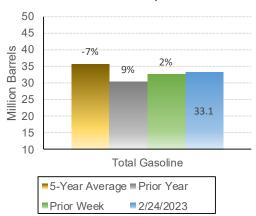
PADD 1B: Propane and Propylene Weekly Inventory



Historical Comparison



Historical Comparison



Historical Comparison



Notes:

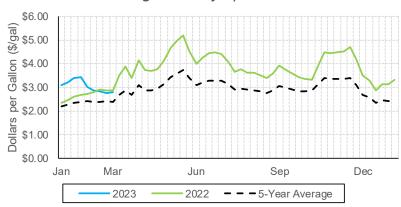
1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.

^{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	Fuel Type NYS Aver				verage Retail Prices			
ruer Type	2/24/2023 2/17/2023 % Difference		Prior Year	% Difference				
Regular Gasoline (dollars per gallon) ²	\$3.71	\$3.62	2.4%	\$2.63	41.2%			
On-road Diesel (dollars per gallon) ²	\$4.15	\$4.04	2.8%	\$2.91	42.5%			

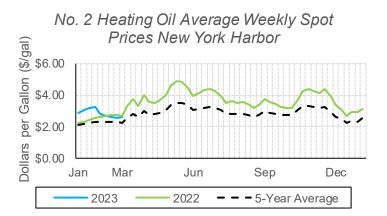
Notes:

^{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



Propane Mt. Belvieu Average Weekly Spot

Prices

\$2.00

| Section | Section

Natural Gas Henry Hub Average Weekly Spot Prices



Weekly Survey Results by Fuel Type	NYS Average Retail Prices				
Weekly Sulvey Results by Fuel Type	2/27/2023	2/21/2023	% Difference	Prior Year	% Difference
Ultra-low #2 Heating Oil Posted Credit Prices (dollars per gallon) ²	\$4.439	\$4.481	-0.9%	\$4.167	6.5%
Propane Posted Credit Prices - 1,100 gallon usage (dollars per gallon) ²	\$3.480	\$3.498	-0.5%	\$3.476	0.1%
Kerosene Posted Credit Prices (dollars per gallon) ²	\$6.173	\$6.270	-1.6%	\$4.625	33.5%
Monthly USEIA Reporting	December 2022	November 2022	% Difference	November 2021	% Difference
Monthly Average Residential Natural Gas Prices (dollars per Therm) ³	\$1.621	\$1.866	-13.1%	\$1.410	15.0%

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

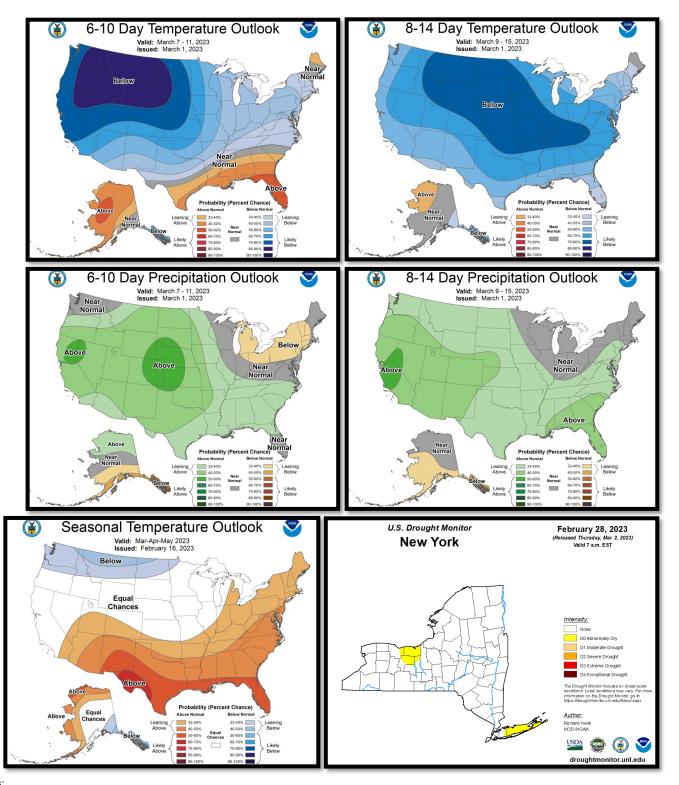
Heating fuels retail price summaries presented in this report and on the NYSERDA dashboards are part of the USEIA State Heating Oil and Propane Program/ NYSERDA Heating Fuel Prices surveys.

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

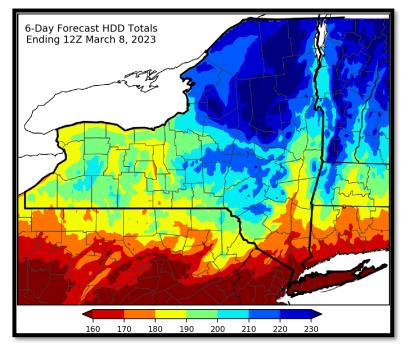


Notes:

- 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



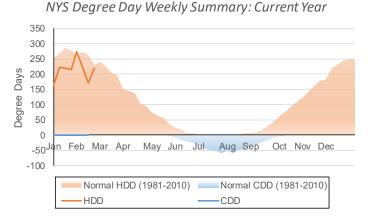
6-Day HDD Forecast	Normal	% Difference
188	199	-6%
194	218	-11%
186	207	-10%
197	226	-13%
233	248	-6%
135	151	-11%
184	200	-8%
194	210	-8%
209	234	-11%
	188 194 186 197 233 135 184 194	Forecast Normal 188 199 194 218 186 207 197 226 233 248 135 151 184 200 194 210

Forecast Dates:

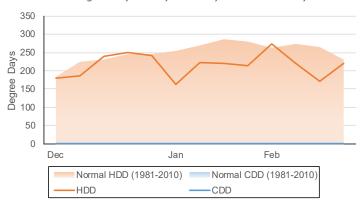
03/02/2023 - 03/07/2023

Notes:

1. M = Missing data







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.

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.

USEIA. 2022. 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. 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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AAA. 2022. National and State Gas Prices. *New York Average Gas Prices*. Available online: https://gasprices.aaa.com/?state=NY.

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/.

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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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