

March 17, 2023

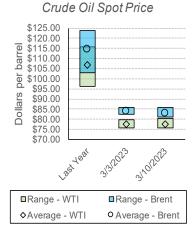
Overall Energy & Fuels Markets Summary

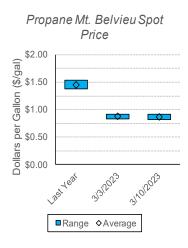
- Crude oil (WTI and Brent), propane (Mt. Belvieu), and natural gas (Henry Hub) weekly average spot prices were similar compared to the previous week (see page 1).
- Regional fuels inventories (see pages 2 and 3) varied compared to the previous week:
 - Ultra-low sulfur diesel (ULSD) and total gasoline decreased, while propane inventories increased.
 - 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/ banking sector concerns.
 - Weather forecast for NY indicating potential for "near normal" temperatures for the end of 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, and kerosene remain elevated compared to last year:
 - NY heating oil and propane retail prices slightly decreased while kerosene retail prices increased compared to the prior week.
 - NY transportation gasoline and diesel fuel retail prices increased compared to the prior week.

Issue Contents:

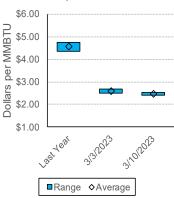
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Natural Gas Henry Hub Spot Price



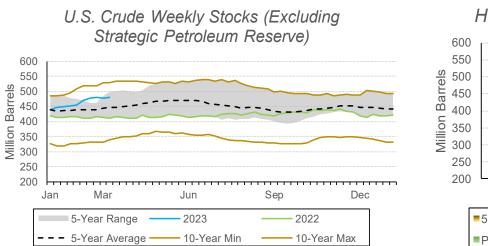
2. Graphics summarize available USEIA data from the most recent week ending on Fridays, noted by the date.

Note

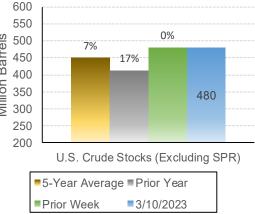
^{1.} Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.



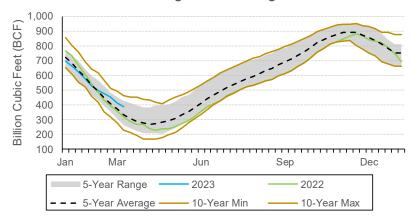
National Crude and East Region Natural Gas Inventories



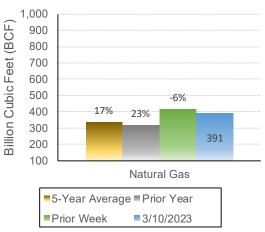
Historical Comparison



East Region: Natural Gas Working Underground Storage



Historical Comparison

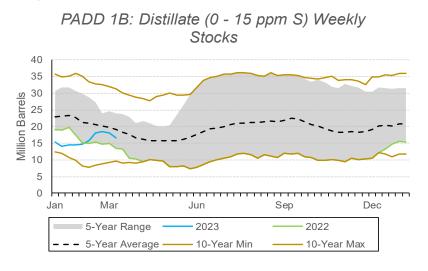


Note:

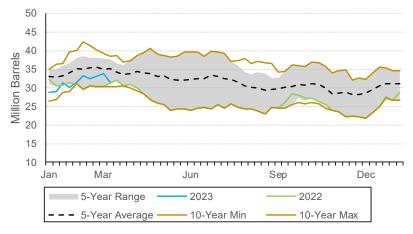
- 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Graphics summarize available USEIA data from the most recent week ending on Fridays.
- Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater,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



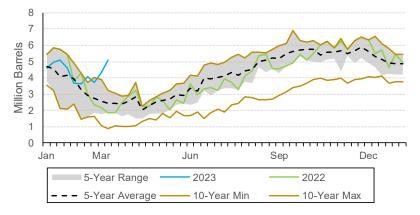
Regional Inventories: Select Liquid Fuels



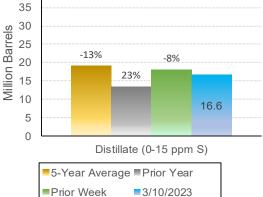
PADD 1B: Total Gasoline Weekly Stocks



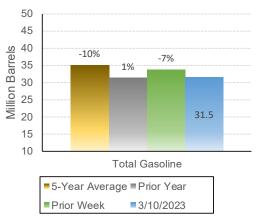
PADD 1B: Propane and Propylene Weekly Inventory



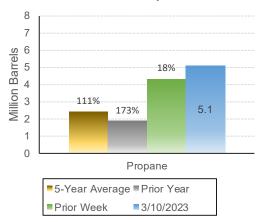




Historical Comparison



Historical Comparison

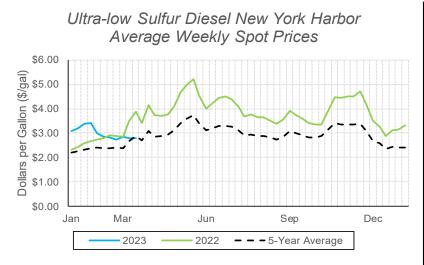


Notes:

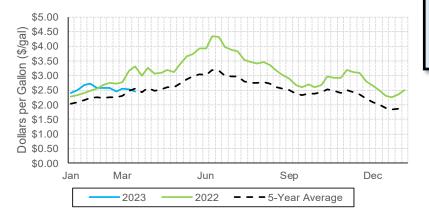
- 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Historical comparison bar chart percentages reflect current week. Positive values indicate current week is greater, negative values indicate current week is less than the historical value.



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.

Eucl Type	NYS Average Retail Prices					
Fuel Type	3/10/2023	23 3/3/2023 % Difference		Prior Year	r % Difference	
Regular Gasoline (dollars per gallon) ²	\$3.87	\$3.76	3.1%	\$2.79	38.6%	
On-road Diesel (dollars per gallon) ²	\$4.32	\$4.21	2.6%	\$3.01	43.7%	

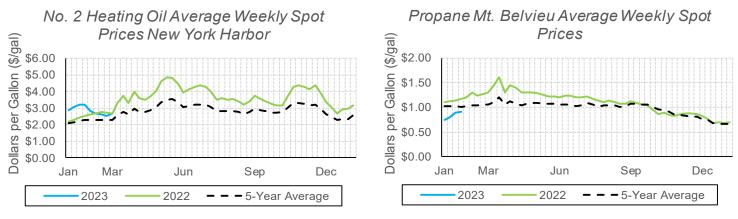
Notes:

^{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 Sumery Deputte by Fuel Type	NYS Average Retail Prices				
Weekly Survey Results by Fuel Type 3/13/2023 3/6/2023		% Difference	Prior Year	% Difference	
Ultra-low #2 Heating Oil Posted Credit Prices (dollars	\$4.398	\$4.447	-1.1%	\$5.080	-13.4%
per gallon) ²	φ 4 .390	\$4.44 <i>1</i>	-1.1%	φ <u>ο</u> .060	-13.470
Propane Posted Credit Prices - 1,100 gallon usage	\$3.465	\$3.487	-0.6%	\$3.702	-6.4%
(dollars per gallon) ²	4 5.405	¢3.467	-0.6%	\$3.70Z	-0.4%
Kerosene Posted Credit Prices	\$5.973	\$5.919	0.9%	\$5.363	11.4%
(dollars per gallon) ²	<i>ф</i> 0.975	<i>ф</i> 0.919	0.976	φ <u></u>	11.470
Monthly USEIA Reporting	December 2022	November 2022	% Difference	December 2021	% Difference
Monthly Average Residential Natural Gas Prices	\$1.621	\$1.866	-13.1%	\$1.410	15.0%
(dollars per Therm) ³	φ1.021	φ1.000	-13.1%	φ1.410	15.0%
For regional NYS retail price summaries for heating fuels, visit the following NYSERDA resources:		Notes:			
		1. Wholesale price data from USEIA, see references section			

Home Heating Oil Prices Dashboard

Kerosene Prices Dashboard

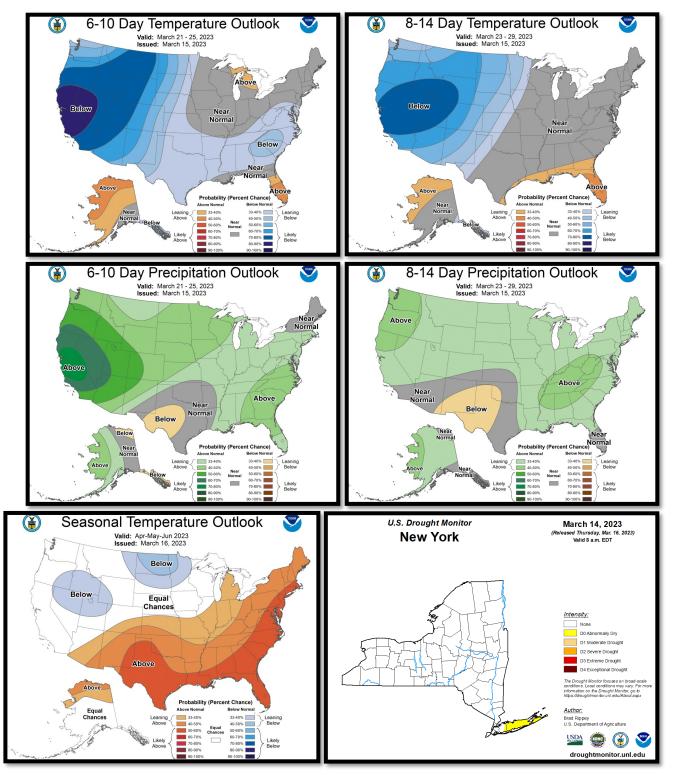
Propane Prices Dashboard

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.

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



Weather Outlook and Seasonal Threat Monitoring

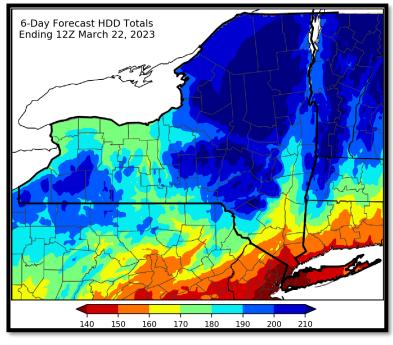


Notes:

- 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.
- 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

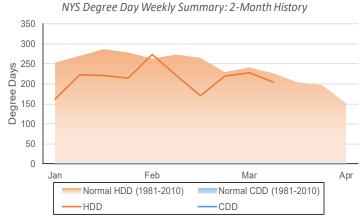


City	6-Day HDD Forecast	Normal	% Difference
Albany	183	172	6%
Binghamton	192	192	0%
Buffalo	180	181	-1%
Glens Falls	197	195	1%
Massena	204	214	-5%
NYC	130	129	1%
Rochester	175	175	0%
Syracuse	185	183	1%
Watertown	189	203	-7%
Forecast Dat	PC.		

Forecast Dates: 03/16/2023 - 03/21/2023

Notes: 1. M = Missing data

350 300 250 **Degree Days** 200 150 100 50 0 n Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec -50^J -100 Normal HDD (1981-2010) Normal CDD (1981-2010) -HDD CDD



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

Heating Degree Data

<u>Monthly Degree Day Data</u> (Heating & Cooling)

Notes:

1. Heating degree day (HDD) forecast from NOAA & Northeast Regional Climate Center at Cornell University (NRCC). See references section for detailed citations.

NYS Degree Day Weekly Summary: Current Year

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: <u>https://www.eia.gov/dnav/pet/hist_xls/WD0ST_R1Y_1w.xls</u>.

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

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: <u>https://www.eia.gov/dnav/ng/xls/NG_PRI_FUT_S1_D.xls</u>.

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

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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