June 2, 2023



### Overall Energy & Fuels Markets Summary

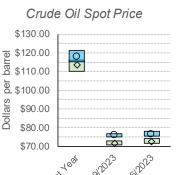
- Summary of average spot prices for the following fuels (see page 1).
  - · Crude oil (WTI and Brent) slightly increased
  - Propane (Mt Belvieu) and Natural gas (Henry Hub) remained comparable.
- Regional fuels inventories (see pages 2 and 3) compared to the previous week:
  - Ultra-low sulfur diesel (ULSD) and total gasoline inventories decreased.
  - Propane inventories slightly increased.
- Market influencers include:
  - Global factors include the ongoing Russian invasion of Ukraine and continued global economics concerns (examples: recession, banking sector). Additionally global fuels supply/demand dynamics (examples: Organization of the Petroleum Exporting Countries [OPEC] production management; summer driving demand) continue to influence markets.
- National Oceanic and Atmospheric Administration (NOAA) forecast for New York/Northeast temperatures to be leaning below average for the next 1-2 weeks with near normal precipitation (Page 6).
- NY retail prices (see pages 4 and 5) for heating and transportation fuels:
  - NY transportation gasoline prices slightly increased and diesel prices slightly decreased compared to the prior week.
  - NY heating fuels prices slightly decreased since the prior survey.

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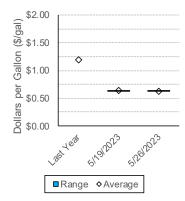
- Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- Graphics summarize available USEIA data from the most recent week ending on Fridays, noted by the date.

### Fundamental Fuels Market **Weekly Price Summaries**

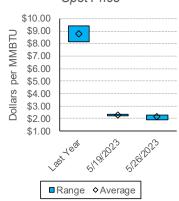




#### Propane Mt. Belvieu Spot Price



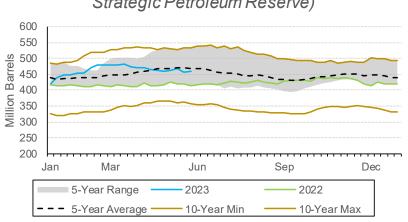
#### Natural Gas Henry Hub Spot Price

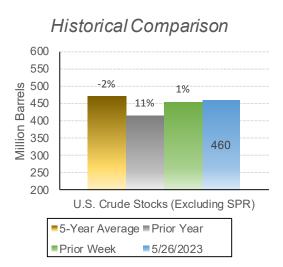




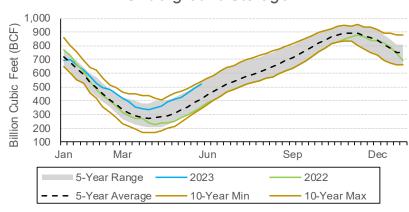
### **National Crude and East Region Natural Gas Inventories**

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

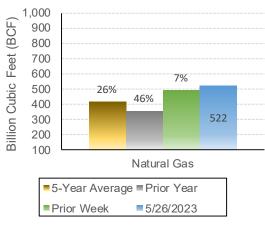




East Region: Natural Gas Working Underground Storage







#### Note:

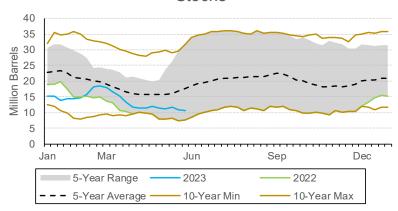
- 1. Data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.
- 2. Graphics summarize available USEIA data from the most recent week ending on Fridays.

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.

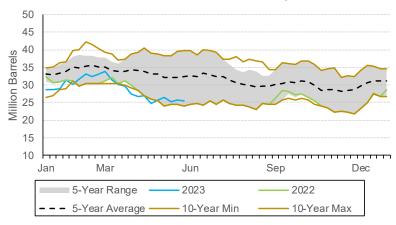


## **Regional Inventories: Select Liquid Fuels**

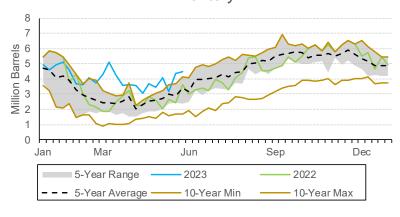
PADD 1B: Distillate (0 - 15 ppm S) Weekly Stocks



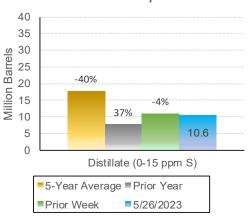
PADD 1B: Total Gasoline Weekly Stocks



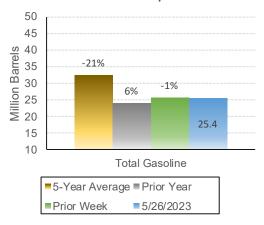
PADD 1B: Propane and Propylene Weekly Inventory



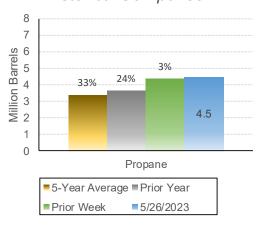
Historical Comparison



### Historical Comparison



### Historical Comparison



#### Notes:

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

<sup>2.</sup> 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				
ruerrype	5/26/2023   5/19/2023   % Difference   Prior Year		% Difference		
Regular Gasoline (dollars per gallon) <sup>2</sup>	\$3.67	\$3.66	0.4%	\$4.93	-25.5%
On-road Diesel (dollars per gallon) <sup>2</sup>	\$4.59	\$4.63	-0.7%	\$6.50	-29.4%

#### Notes:

<sup>1.</sup> Wholesale price data from USEIA, see references section for detailed citations. Visualizations by NYSERDA.

<sup>2.</sup> 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				
Weekly Survey Results by Fuel Type	5/30/2023	5/15/2023	% Difference	Prior Year	% Difference
Ultra-low #2 Heating Oil Posted Credit Prices (dollars per gallon) <sup>2</sup>	\$3.840	\$3.911	-1.8%	\$5.905	-35.0%
Propane Posted Credit Prices - 1,100 gallon usage (dollars per gallon) <sup>2</sup>	\$3.220	\$3.229	-0.3%	\$3.580	-10.1%
Kerosene Posted Credit Prices (dollars per gallon) <sup>2</sup>	\$5.369	\$5.502	-2.4%	\$6.656	-19.3%
Monthly USEIA Reporting	March 2023	February 2023	% Difference	March 2022	% Difference
Monthly Average Residential Natural Gas Prices (dollars per Therm) <sup>3</sup>	\$1.557	\$1.604	-3.0%	\$1.370	13.6%

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.

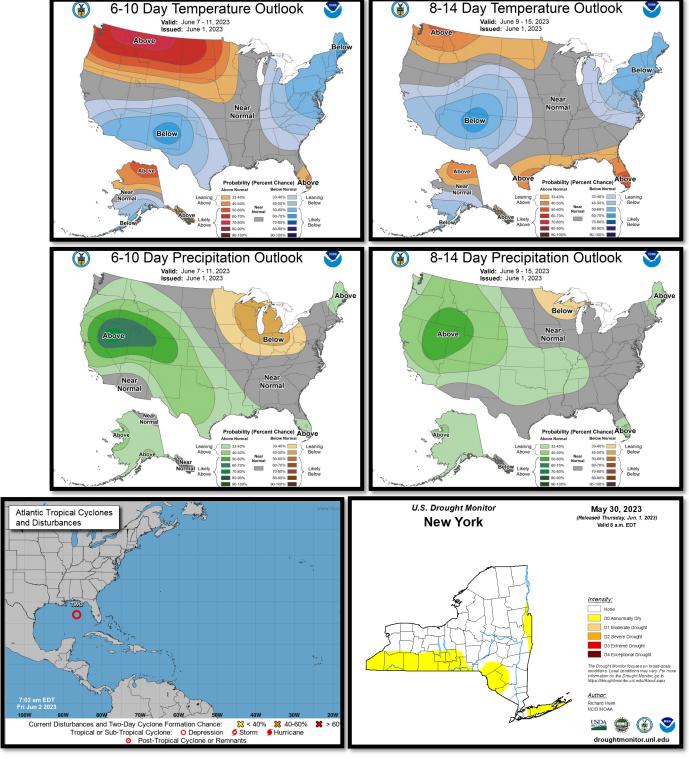
During the non-heating season (April through September), the retail price surveys are only conducted twice per month. Rows shaded blue in the table above indicate data that are from the most recent survey, but not reflective of the current week.

#### 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**

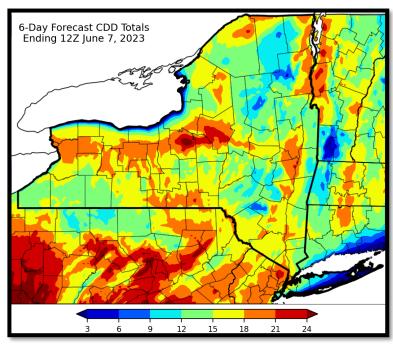


#### Notes:

- 1. 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.
- 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 CDD Forecast Normal		% Difference
Albany	20	17	18%
Binghamton	17	9	89%
Buffalo	20	13	54%
Glens Falls	14	9	56%
Massena	17	9	89%
NYC	18	33	-45%
Rochester	15	16	-6%
Syracuse	24	14	71%
Watertown	11	7	57%

Forecast Dates:

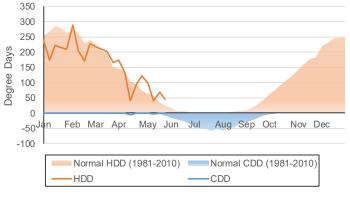
06/01/2023 - 06/06/2023

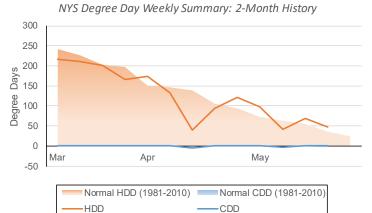
Notes:

M = Missing data

NYS Degree Day Weekly Summary: Current Year

Starting in June, the degree days will reflect cooling degree days (CDD) with the arrival of late spring and summer seasons. Heating degree days (HDD) will return during September.





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:

- Cooling degree day (CDD) forecast from NOAA & Northeast Regional Climate Center at Cornell University (NRCC). See references section for detailed citations.
- Heating degree day (HDD) and 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: <a href="https://www.eia.gov/dnav/pet/hist\_xls/WPRST1B1w.xls">https://www.eia.gov/dnav/pet/hist\_xls/WPRST1B1w.xls</a>.

#### **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: <a href="https://www.eia.gov/petroleum/heatingoilpropane/">https://www.eia.gov/petroleum/heatingoilpropane/</a>.

#### **Weather Outlook and Data**

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

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

NOAA. 2023. National Weather Service Climate Prediction Center. Degree Days Statistics. Available online: <a href="https://www.cpc.ncep.noaa.gov/products/analysis\_monitoring/cdus/degree\_days/">https://www.cpc.ncep.noaa.gov/products/analysis\_monitoring/cdus/degree\_days/</a>.

NOAA. 2023. National Hurricane Center and Central Pacific Hurricane Center. Atlantic Tropical Cyclones and Disturbances. Available online: <a href="https://www.nhc.noaa.gov/">https://www.nhc.noaa.gov/</a>.

National Drought Mitigation Center. 2023. U.S. Drought Monitor. New York. Available online at: <a href="https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?NY">https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?NY</a>.

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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