Winter 2020-21 Mid-Season Review















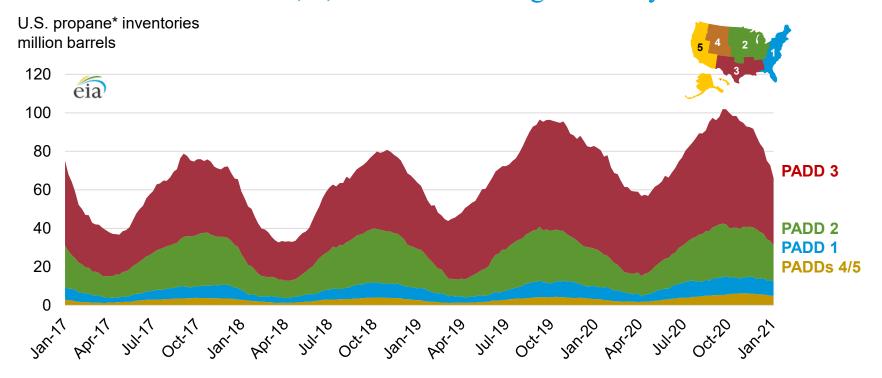
January 19, 2021

(Inventory data as of 1/8/21; residential heating fuel prices as of 1/11/21)

By

U.S. Energy Information Administration

U.S. propane inventories are dropping in PADDs 2 and 3, while inventories in PADDs 1, 4, and 5 are holding relatively flat



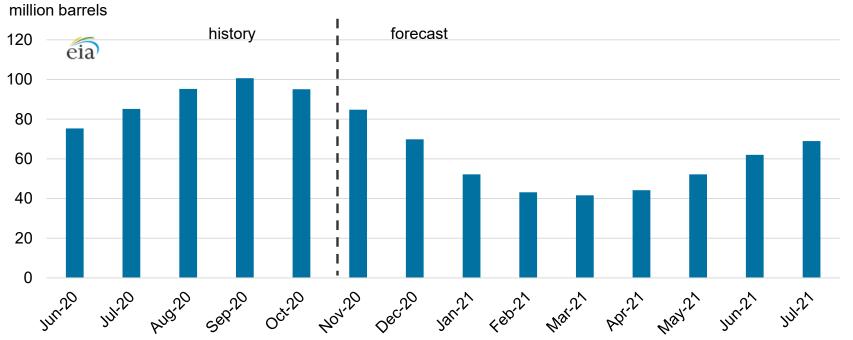
Note: PADD = Petroleum Administration for Defense District

Source: EIA, Weekly Petroleum Status Report, data through January 8, 2021



EIA's *Short-Term Energy Outlook* forecasts continuing stock draws through March and end-of-season levels equal to 2017

U.S. propane/propylene inventories

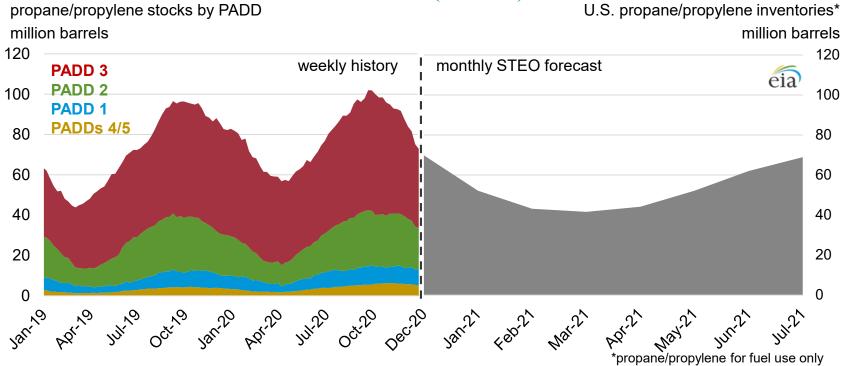


Source: EIA, Short Term Energy Outlook (STEO), January 2021



PADD 3 accounts for the most current propane inventories. EIA's STEO does not break out forecasted inventories by Petroleum

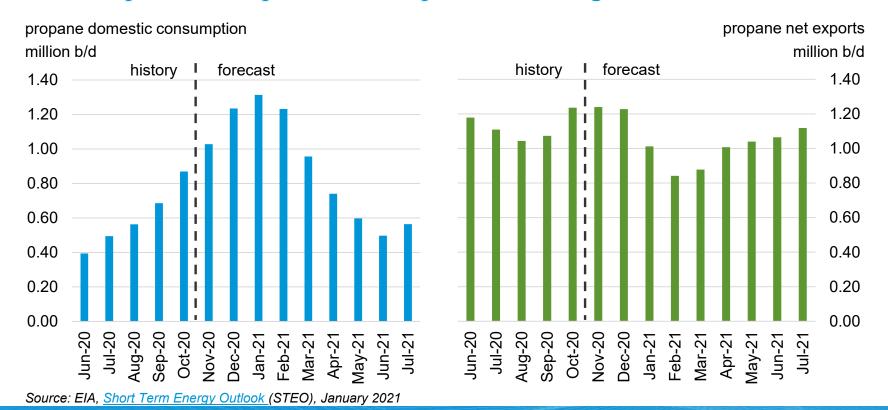
Administration for Defense District (PADD)



Source: EIA, Weekly Petroleum Status Report, data through January 8, 2021; Short Term Energy Outlook, January 2021



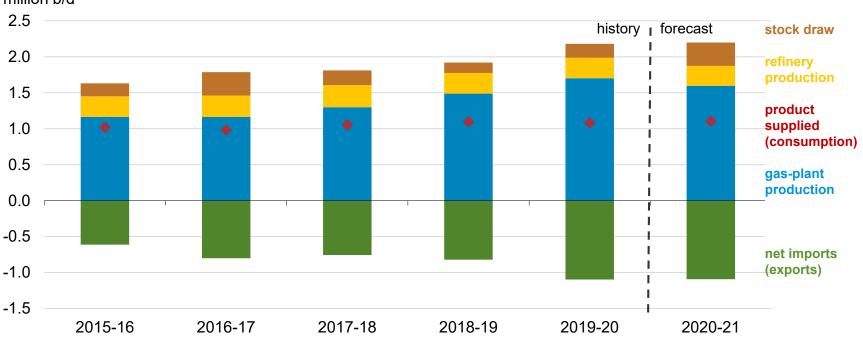
STEO projects higher domestic consumption than the previous year, while exports are expected to ramp down starting this month





The STEO forecasts more propane product supplied, less production, and similar exports volumes as the previous winter

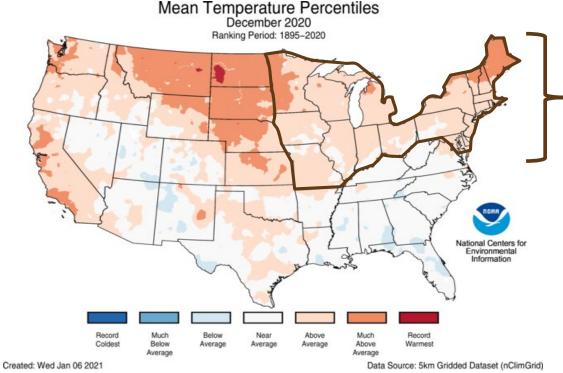
Winter heating season propane supply/disposition million b/d



Source: EIA, Short Term Energy Outlook (STEO), January 2021



Much of the lower-48 U.S. experienced above-average temperatures in December relative to the historical average

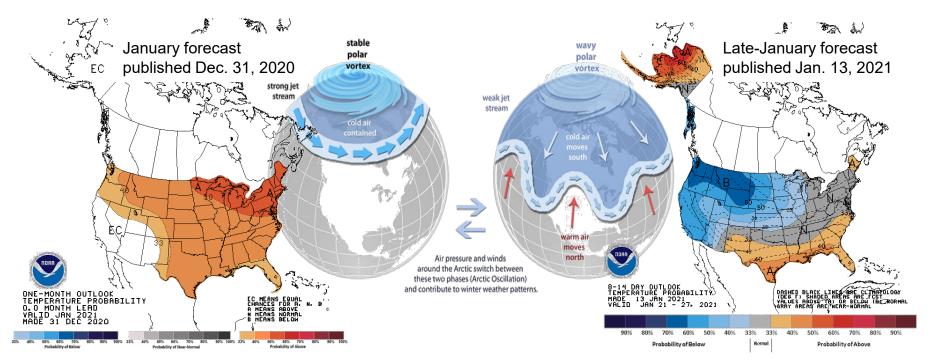


This area accounts for ~3/4 of propane heated households in the U.S.

Lower heating demand relieved pressure on regional inventories and wholesale prices

Source: National Oceanic and Atmospheric Administration, National Centers for Environmental Information

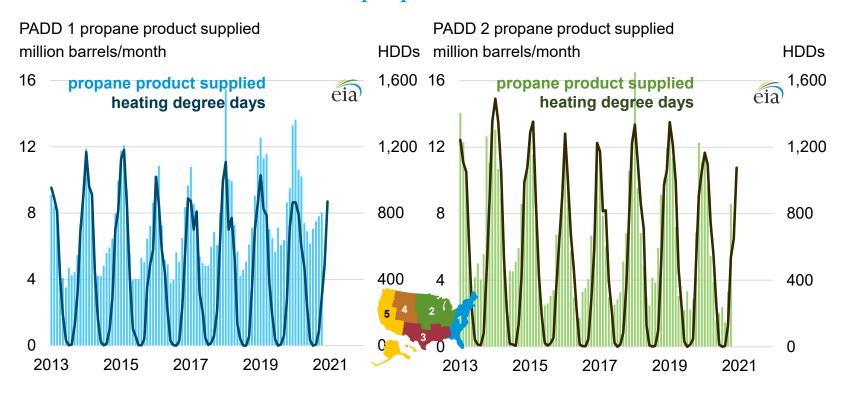
Developing polar vortex has upended the weather forecast for the remainder of January



Source: National Oceanic and Atmospheric Administration Global Climate Report and Climate Prediction Center



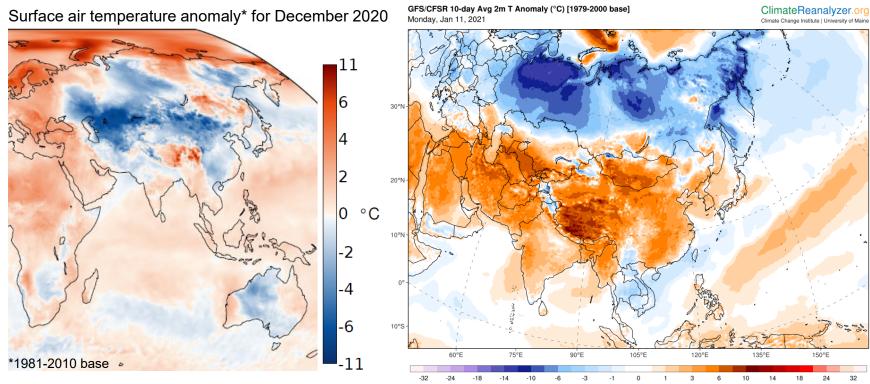
Weather, in terms of heating degree days (HDDs), is the primary determinant of winter-season propane demand in PADDs 1 and 2



Source: EIA, Propane Product Supplied; National Oceanic and Atmospheric Administration, Weighted Heating Degree Days



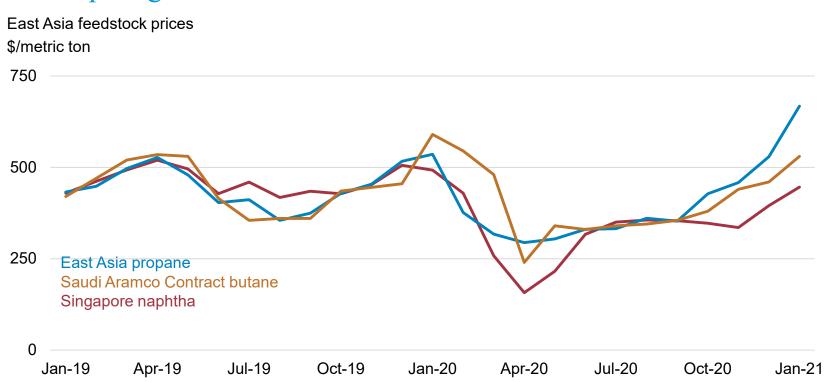
Well-below-normal December 2020 and early January 2021 temperatures drove up demand in E. Asia, pulling in high U.S. export volumes



Source: Copernicus Program, University of Maine Climate Reanalyzer



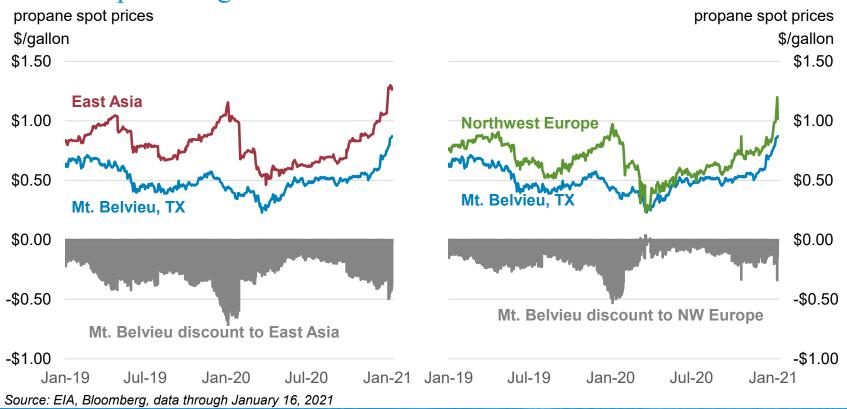
Increases in propane price in E. Asia currently outpacing rise in prices of competing fuels/feedstocks



Source: EIA, Bloomberg, data through January 12, 2021



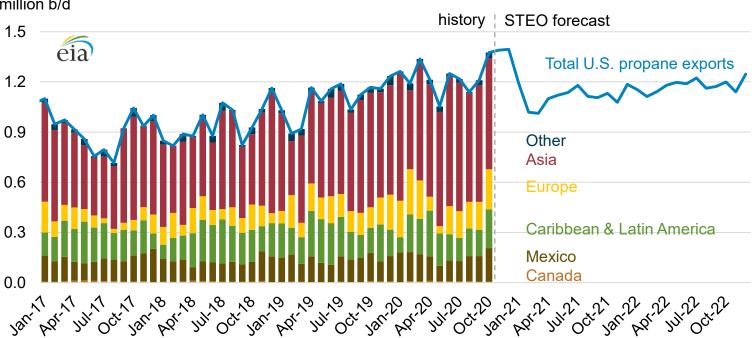
Strong international prices pulling U.S. propane exports and driving domestic prices higher





Since April, Asian destinations accounted for 60% of exported volumes. EIA expects future exports to show similar trend

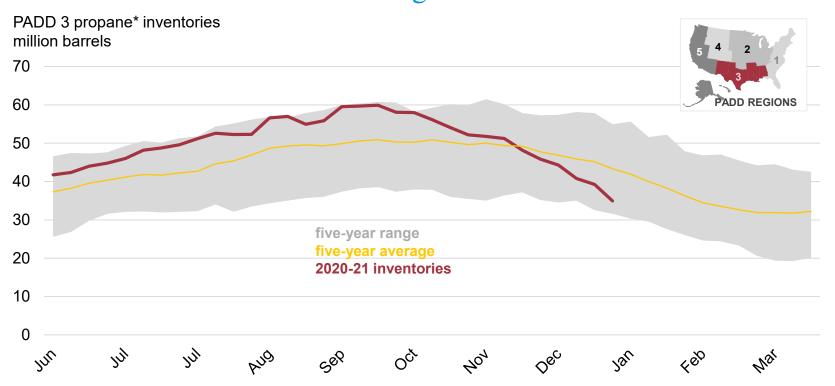
U.S. propane exports by destination million b/d



Source: EIA, Petroleum Supply Monthly and Short-Term Energy Outlook (STEO), January 2021

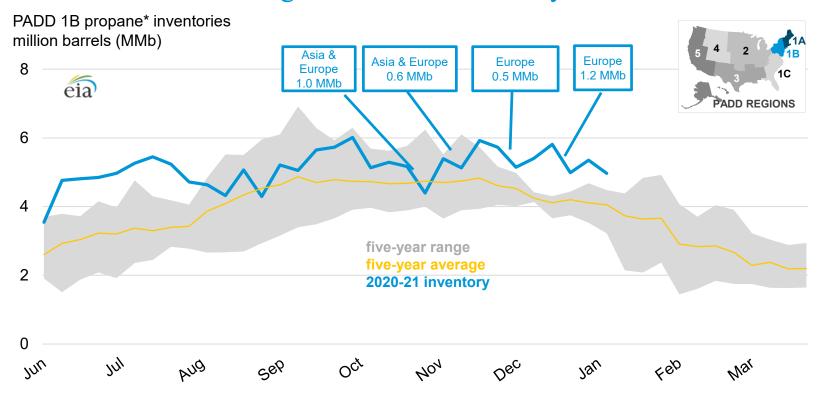


PADD 3 propane inventory draws at accelerated pace as exports from Gulf Coast terminals remain strong



Source: EIA, Weekly Petroleum Status Report, January 13, 2021

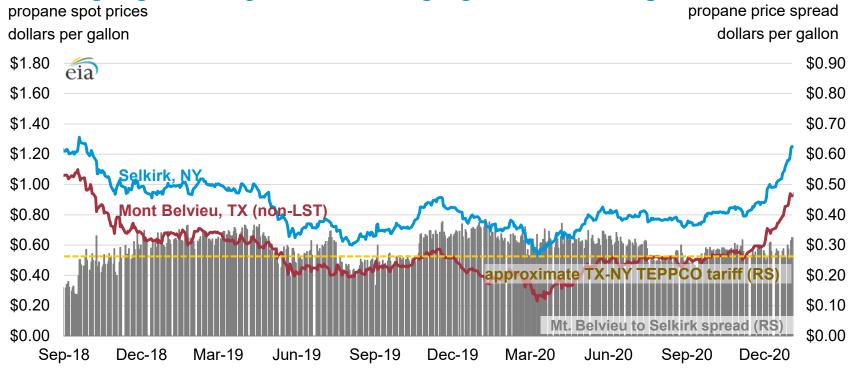
Integration of the Mid-Atlantic (PADD 1B) with global propane markets results in change in seasonal inventory movements



Source: Customs and Border Protection; EIA, Weekly Petroleum Status Report, Jan. 13, 2021; Clipper



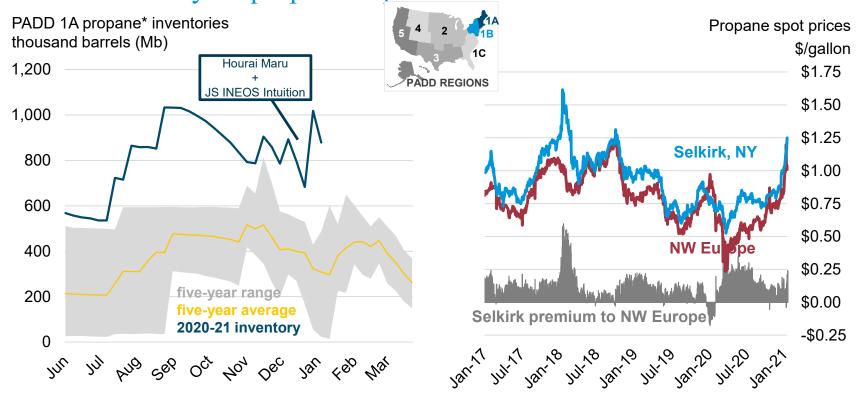
New England (Selkirk, NY) wholesale prices reflect premium over Gulf Coast spot prices required to move propane into the region



TEPPCO = Enterprise TE Products Pipeline Company LLC
Source: EIA, Bloomberg, data through January 16, 2021; Enterprise Products Partners L.P., Effective Tariffs, FERC No. 54.54.0



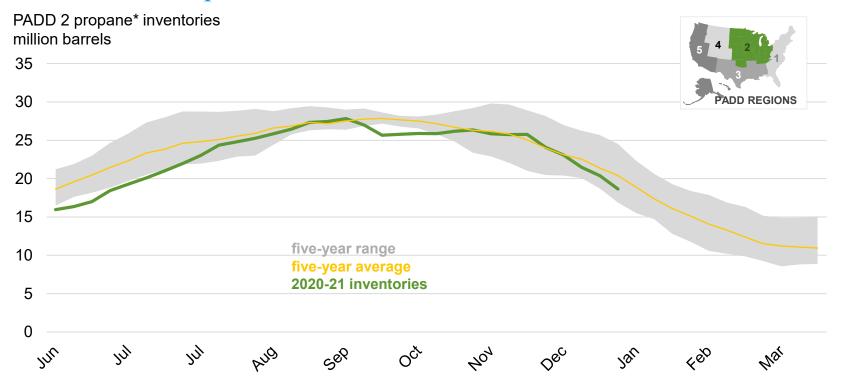
In addition to pipeline deliveries from the Gulf Coast, New England continues to rely on propane imports from overseas



Source: Weekly Petroleum Status Report, January 16, 2021; Clipper; Bloomberg



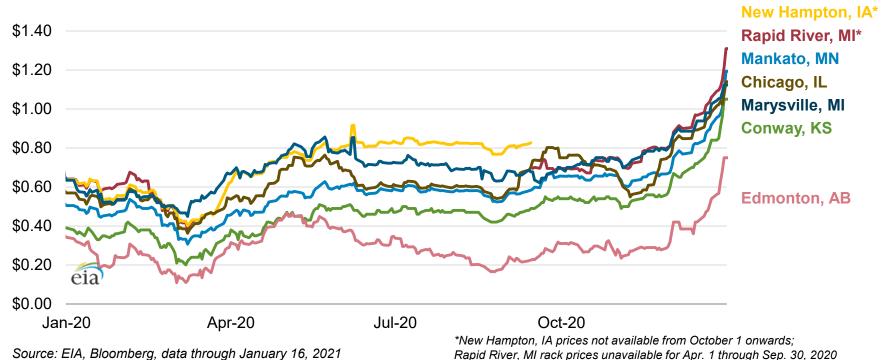
PADD 2 propane inventories, now below the five-year average, follow a clear seasonal pattern



Source: EIA, Weekly Petroleum Status Report, January 13, 2021

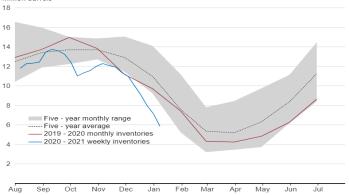
Prices at major Midwest market centers increasing in tandem with Conway and Edmonton wholesale prices

propane spot prices dollars per gallon



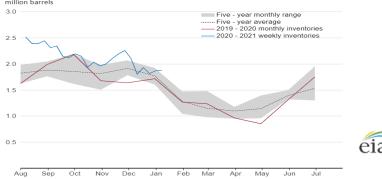
PADD 2 selected state propane* inventories

Kansas propane/propylene stock at refineries, terminals, and natural gas plants (not pipelines) million barrels



Source: U.S. Energy Information Administration, Petroleum Supply Monthly and Weekly Petroleum Status Report

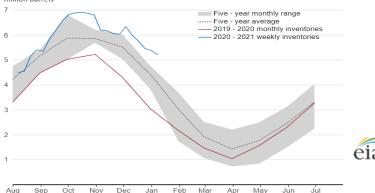
Illinois, Indiana, Ohio propane/propylene stock at refineries, terminals, and natural gas plants (not pipelines) million barrels



Source: U.S. Energy Information Administration, Petroleum Supply Monthly and Weekly Petroleum Status Report

Source: EIA, Weekly Petroleum Status Report, January 13, 2021

Michigan propane/propylene stock at refineries, terminals, and natural gas plants (not pipelines) million barrels

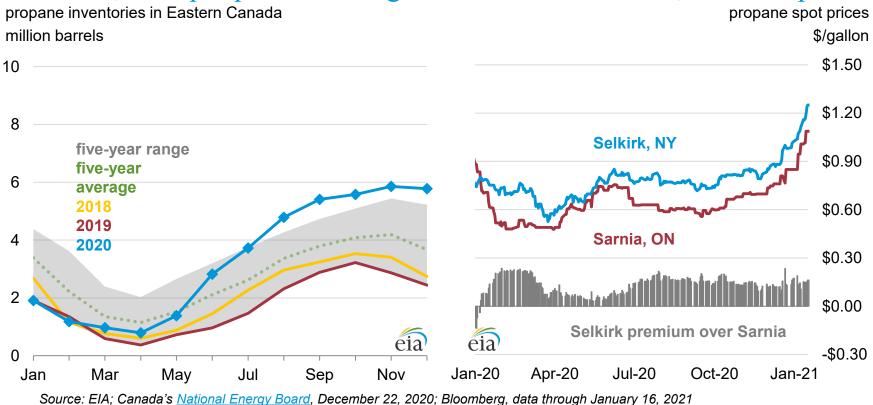


Source: U.S. Energy Information Administration, Petroleum Supply Monthly and Weekly Petroleum Status Report

lowa, Minnesota, Wisconsin propane/propylene stock at refineries, terminals, and natural gas plants (not pipelines) thousand barrels 1.100 Five - year monthly range Five - year average 1,000 2019 - 2020 monthly inventories 2020 - 2021 weekly inventories 900 800 700 600 500 400 300 200 100 Dec Jan Feb Mar Apr May Source: U.S. Energy Information Administration, Petroleum Supply Monthly and Weekly Petroleum Status Report

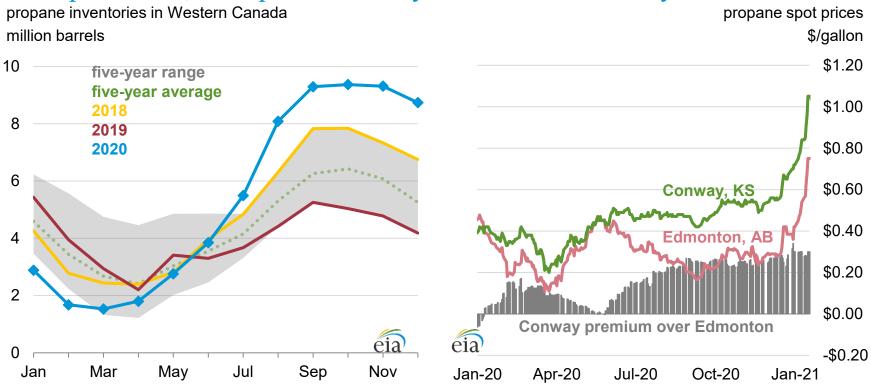


Eastern Canada propane inventories remain above five-year range; Sarnia, ON spot prices moving in tandem with Selkirk, NY rack prices





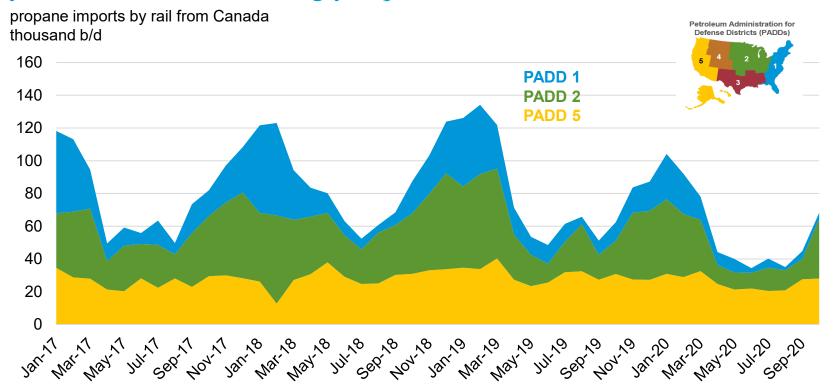
Western Canada inventories starting to draw down after record highs Sept. – Nov., as exports move by water to Asia and by rail to Midwest







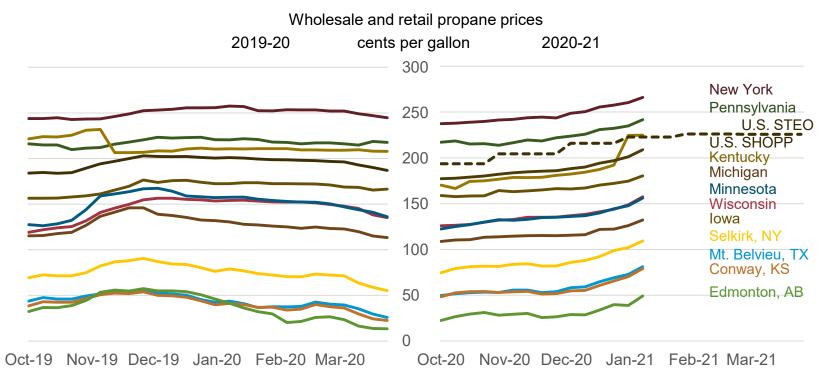
Canadian propane imports by rail have been decreasing in the past two years as Canada increasingly exports more from the West Coast



Source: EIA, Movements of Crude Oil and Selected Products by Rail

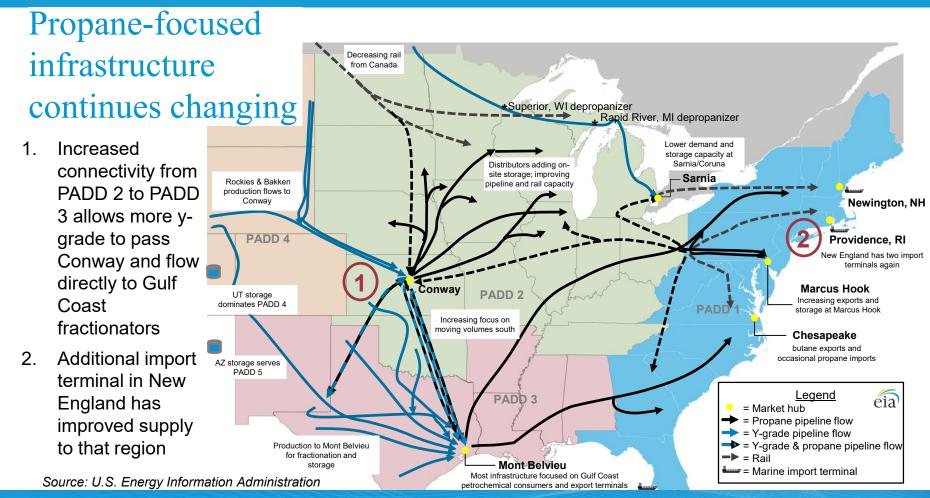


Current-year retail prices close to parity with 2019-20 residential delivered prices, even as wholesale prices reach multi-year highs



Source: EIA SHOPP survey, January 11, 2021; Bloomberg, January 12, 2021







For more information

U.S. Energy Information Administration home page | www.eia.gov

State Energy Portal | www.eia.gov/state

Winter Heating Fuels Site | www.eia.gov/special/heatingfuels/

Movements of Propane by Rail |

http://www.eia.gov/dnav/pet/pet move railNA a EPLLPA RAIL mbbl m.htm

Today in Energy | www.eia.gov/todayinenergy

Short-Term Energy Outlook | www.eia.gov/steo

Energy Explained – Hydrocarbon Gas Liquids |

http://www.eia.gov/energyexplained/index.cfm?page=hgls_home

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