A summary of national and global energy indicators



AUGUST 7, 2024

### FEDERAL RESERVE BANK of KANSAS CITY

### SUMMARY OF CURRENT ENERGY CONDITIONS

Since the last edition of the U.S. Energy Databook, activity in the energy sector decreased moderately. For the week ending July 26, West Texas Intermediate (WTI) crude oil averaged \$79.26 per barrel and North Sea Brent averaged \$82.52 per barrel, decreasing 6.2% and 6.8% respectively over the last quarter. The Henry Hub natural gas spot price averaged \$2.06 per million Btu for the week ending July 26, increasing 33.8% over the last three months. Over the last quarter, the total number of active drilling rigs in the United States fell slightly by 3.9% and is 11.3% below year-ago levels. U.S. crude oil production increased slightly by 0.6% compared to three months ago. U.S. crude oil and petroleum products exports decreased 0.8% in the last quarter and imports rose by 2.3%. Global demand for petroleum increased 0.9% and global petroleum production rose by roughly 0.6% over the last quarter.

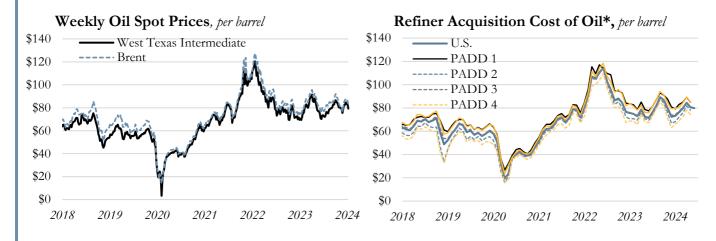
This databook provides current economic indicators to help monitor trends and allow comparison of past information. These indicators include: oil and natural gas prices; global petroleum production and demand; U.S. oil production and petroleum demand; U.S. crude oil stocks; OECD petroleum stocks; U.S. oil imports; U.S. oil exports; oil and gas drilling rig counts; and U.S. natural gas production. These indicators can be found on the following pages.

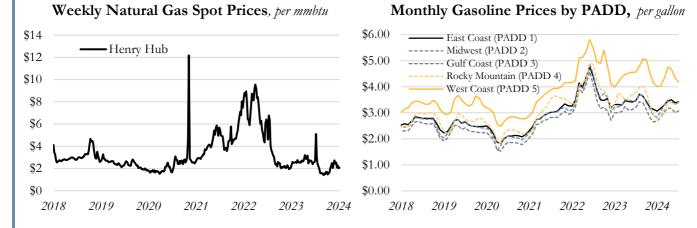


The Federal Reserve Bank of Kansas City's headquarters is located at 1 Memorial Drive in the heart of Kansas City, Missouri. The Federal Reserve Bank of Kansas City serves the Tenth Federal Reserve District, which includes Colorado, Kansas, western Missouri, Nebraska, northern New Mexico, Oklahoma and Wyoming. There are three branches across the Tenth Federal Reserve District located in Denver, Oklahoma City, and Omaha.

### CRUDE OIL & NATURAL GAS SPOT PRICES

Weekly data through July 26, 2024





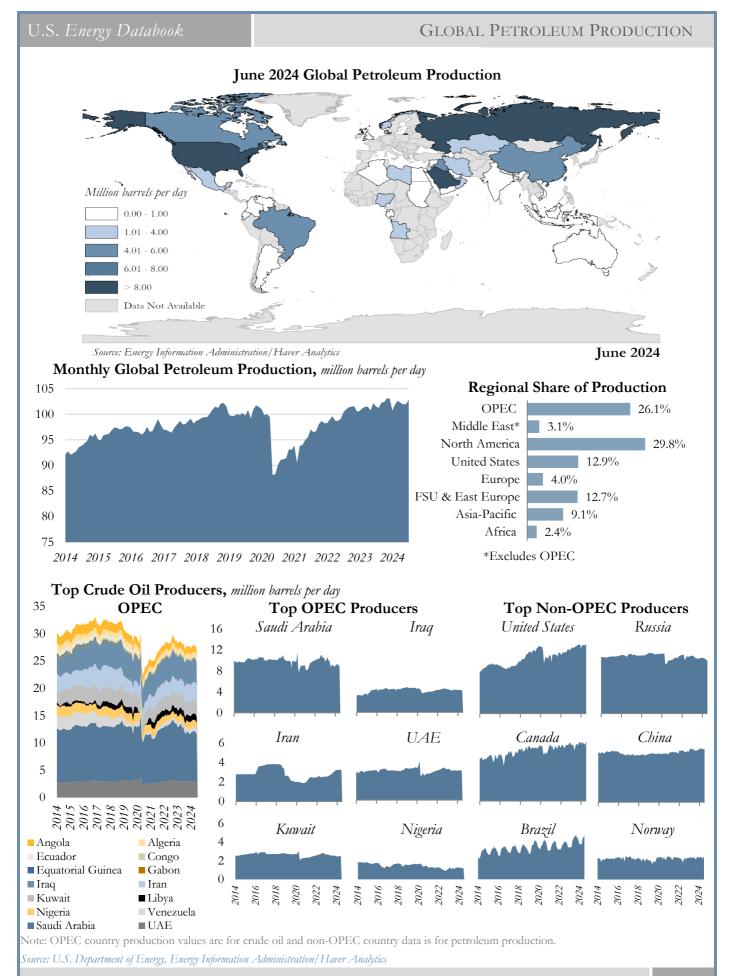
### Weekly Spot Prices, Change from

	Current	1 Week	1 Month	3 Months	6 Months	1 Year
Weekly Spot Prices	7/26/24	Ago	Ago	Ago	Ago	Ago
West Texas Intermediate	\$79.26	-\$3.72	-\$3.27	-\$5.22	\$2.90	-\$0.42
Brent	\$82.52	-\$3.53	-\$4.20	-\$6.01	\$0.21	-\$1.03
Henry Hub	\$2.06	\$0.04	-\$0.46	\$0.52	-\$0.31	-\$0.53

### Monthly Gasoline Spot Prices, Change from

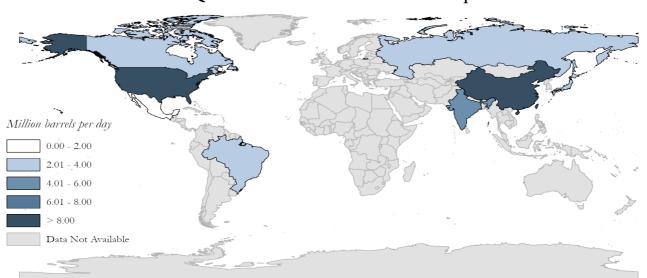
	Current	1 Month	3 Months	6 Months	1 Year
Geographic Area	Jul-24	Ago	Ago	Ago	Ago
East Coast (PADD 1)	\$3.42	\$0.04	-\$0.04	\$0.36	-\$0.05
Midwest (PADD 2)	\$3.41	\$0.10	-\$0.03	\$0.58	-\$0.03
Gulf Coast (PADD 3)	\$3.08	\$0.07	-\$0.11	\$0.39	-\$0.14
Rocky Mountain (PADD 4)	\$3.38	\$0.06	-\$0.03	\$0.64	-\$0.41
West Coast (PADD 5)	\$4.18	-\$0.18	-\$0.58	\$0.17	-\$0.38

\*The cost of crude oil, including transportation and other fees paid by the refiner. Source: U.S. Department of Energy, Energy Information Administration/Haver Analytics

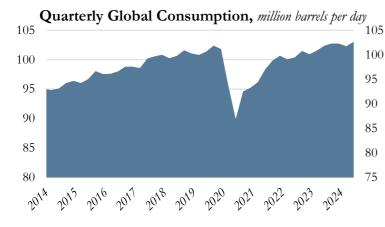


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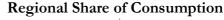
### GLOBAL PETROLEUM CONSUMPTION

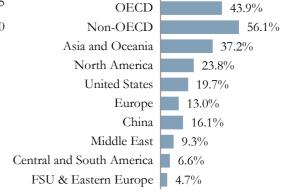


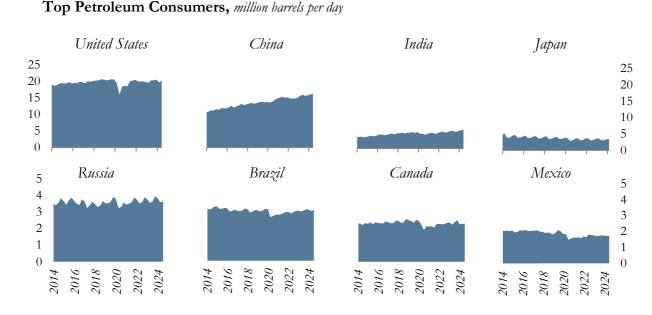
### Source: Energy Information Administration/Haver Analytics



### Second Quarter 2024

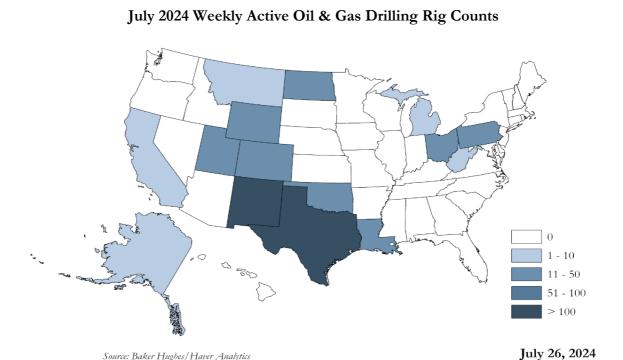






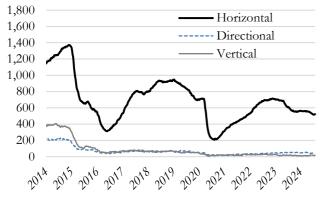
### Second Quarter 2024 Global Petroleum Consumption

Source: U.S. Department of Energy, Energy Information Administration/Haver Analytics

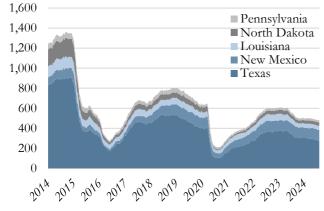


Source: Baker Hughes/Haver Analytics

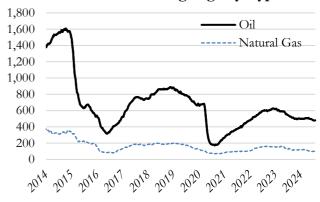
### U.S. Active Drilling Rigs by Trajectory







U.S. Active Drilling Rigs by Type



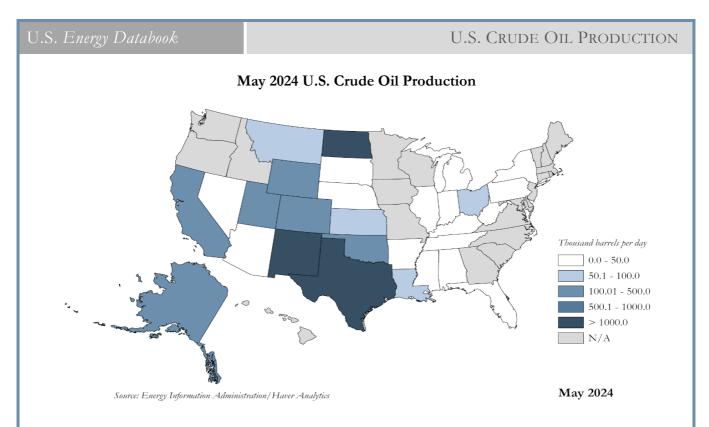
### Rig Count By Type

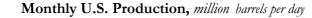
Rig Type	Current Week	1 Month Ago	3 Months Ago	1 Year Ago
0 11		0	0	529
Oil	482	479	506	529
Gas	101	97	105	128
Misc	6	5	2	7
Total	589	581	613	664

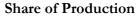
### Rig Count By Type, Change from

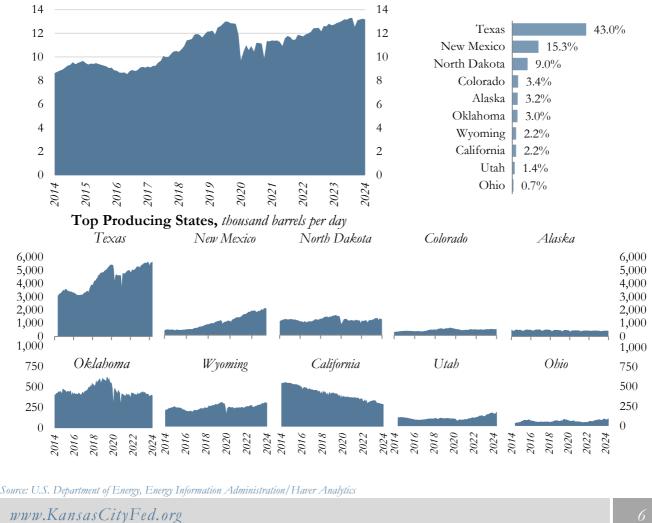
	Current	1 Month	3 Months	1 Year
Rig Type	Week	Ago	Ago	Ago
Oil	-	0.6%	-4.7%	-8.9%
Gas	-	4.1%	-3.8%	-21.1%
Misc	-	20.0%	200.0%	-14.3%
Total	-	1.4%	-3.9%	-11.3%

Source: Baker Hughes/Haver Analytics www.KansasCityFed.org



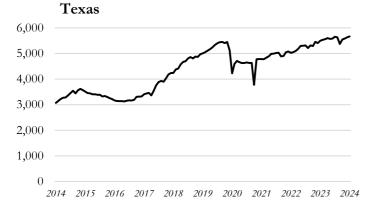




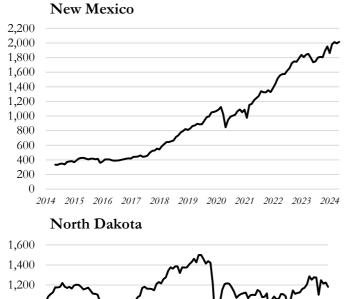


### U.S. CRUDE OIL PRODUCTION

# United States Thousand barrels per day



	Texas	Change
Thousand barre	els per day	from
May-24	5,667	
Month Ago	5,632	0.6%
3 Months Ago	5,548	2.2%
6 Months Ago	5,658	0.2%
1 Year Ago	5,500	3.1%
Share of U.S. Pr	oduction	43.0%



<b>New</b> Thousand barre	Change from	
May-24	2,015	
Month Ago	1,995	1.0%
3 Months Ago	1,983	1.6%
6 Months Ago	1,894	6.4%
1 Year Ago	1,799	12.0%
Share of U.S. Pr	oduction	15.3%

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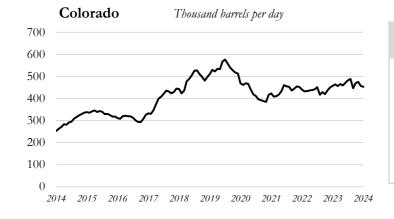
Nort	Change	
Thousand ban	from	
May-24	1,182	
Month Ago	1,225	-3.5%
3 Months Ago	1,248	-5.3%
6 Months Ago	1,278	-7.5%
1 Year Ago	1,127	4.9%
Share of U.S. I	roduction	9.0%

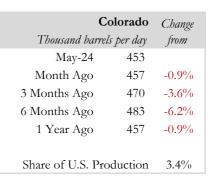
Data through May 2024

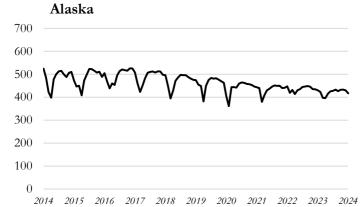
United States Change Thousand barrels per day from May-24 13,178 Month Ago 13,239 -0.5% 3 Months Ago 13,102 0.6%6 Months Ago 13,281 -0.8% 1 Year Ago 12,730 3.5%

### U.S. CRUDE OIL PRODUCTION

Data through May 2024



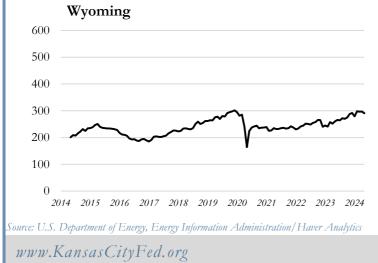




	Alaska	Change
Thousand barrels	per day	from
May-24	417	
Month Ago	430	-3.0%
3 Months Ago	432	-3.6%
6 Months Ago	428	-2.6%
1 Year Ago	430	-3.1%
Share of U.S. Pro	duction	3.2%

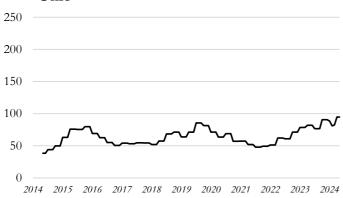


C Thousand ban	Change from	
May-24	396	
Month Ago	409	-3.1%
3 Months Ago	397	-0.3%
6 Months Ago	418	-5.2%
1 Year Ago	452	-12.3%
Share of U.S. I	roduction	3.0%



Wy	yoming	Change		
Thousand barrel	Thousand barrels per day			
May-24	291			
Month Ago	297	-2.2%		
3 Months Ago	298	-2.6%		
6 Months Ago	288	1.0%		
1 Year Ago	261	11.6%		
Share of U.S. Pro	duction	2.2%		

## California Thousand barrels per day 600 500 400 300 200 100 02014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 Utah 250 200 150 100 50 0 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 Ohio



### Ohio Change Thousand barrels per day from May-24 95 Month Ago 95 0.1%3 Months Ago 16.9% 81 6 Months Ago 91 4.6% 1 Year Ago 82 15.7% Share of U.S. Production 0.7%

Source: U.S. Department of Energy, Energy Information Administration/Haver Analytics

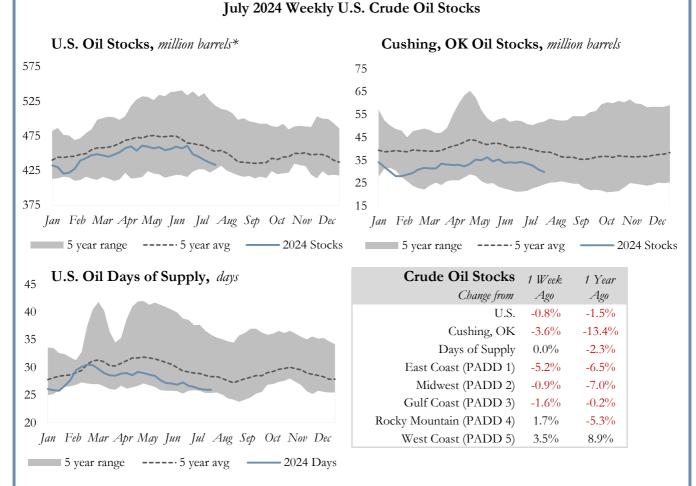
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### U.S. CRUDE OIL PRODUCTION

Data through May 2024

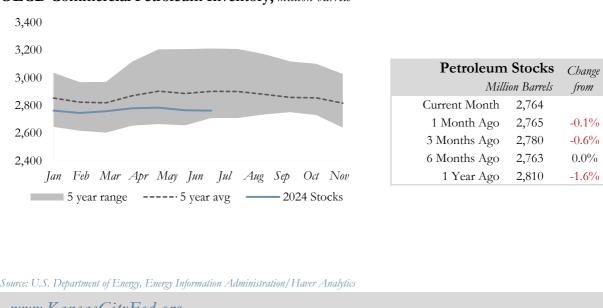
Ca Thousand barrel	Change from	
May-24	289	
Month Ago	291	-0.5%
3 Months Ago	293	-1.3%
6 Months Ago	305	-5.0%
1 Year Ago	336	-13.9%
Share of U.S. Pro	duction	2.2%

	Utah	Change
Thousand barrels	per day	from
May-24	187	
Month Ago	174	7.5%
3 Months Ago	160	17.4%
6 Months Ago	174	7.8%
1 Year Ago	152	23.2%
Share of U.S. Proc	luction	1.4%



\*Stocks include those domestic and Customs-cleared foreign stocks held at, or in transit to, refineries and bulk terminals, and stocks in pipelines.

### July 2024 OECD Commercial Petroleum Inventory

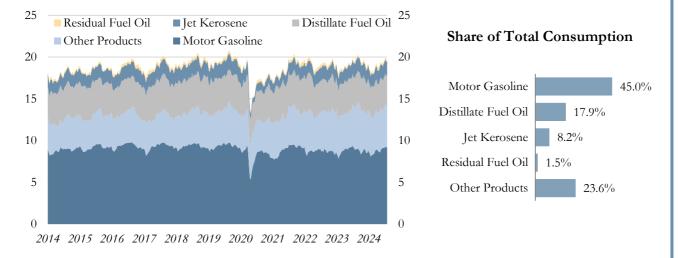


OECD Commercial Petroleum Inventory, million barrels

### July 2024 Weekly U.S. Demand for Petroleum Products

4-Week Averages

All Petroleum Products, million barrels per day



### U.S. Consumption by Product & Percent Change

### U.S. Consumption by Product, thousand barrels per day

-	•				
	Current	1 Month	3 Months	6 Months	1 Year
	7/26/24	Ago	Ago	Ago	Ago
All Products	20,484	20,518	19,602	19,787	20,192
Motor Gasoline	9,221	9,205	8,579	8,155	8,847
Distillate Fuel Oil	3,659	3,719	3,470	3,655	3,546
Jet Kerosene	1,683	1,730	1,625	1,500	1,663
Residual Fuel Oil	299	228	326	264	277
Other Products	4,836	4,822	4,709	4,604	5,044

### U.S. Consumption by Product, Change from

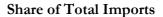
	<i>Current</i> 7/26/24	1 Month Ago	3 Months Ago	6 Months Ago	1 Year Ago
All Products	-	-0.2%	4.5%	3.5%	1.4%
Motor Gasoline	-	0.2%	7.5%	13.1%	4.2%
Distillate Fuel Oil	-	-1.6%	5.4%	0.1%	3.2%
Jet Kerosene	-	-2.7%	3.6%	12.2%	1.2%
Residual Fuel Oil	-	31.1%	-8.3%	13.3%	7.9%
Other Products	-	0.3%	2.7%	5.0%	-4.1%

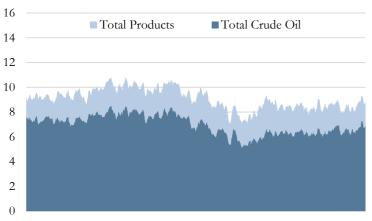
Source: U.S. Department of Energy, Energy Information Administration/Haver Analytics

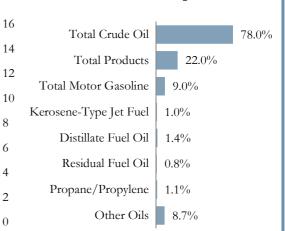
### July 2024 Weekly U.S. Imports of Crude Oil & Petroleum Products

4-Week Averages

Imports, million barrels per day







2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024

U.S. Imports by Product*				Thousand ban	rrels per day
	Current	1 Month	3 Months	6 Months	1 Year
	7/26/24	Ago	Ago	Ago	Ago
Total Crude Oil	6,906	7,129	6,541	6,211	6,523
<b>Total Products</b>	1,948	2,010	2,118	1,795	1,968
Total Motor Gasoline	798	881	799	519	799
Kerosene-Type Jet Fuel	85	94	82	80	73
Distillate Fuel Oil	125	117	138	182	101
Residual Fuel Oil	74	80	109	111	76
Propane/Propylene	95	82	92	126	82
Other Oils	771	757	897	776	837
Total Imports	8,854	9,139	8,659	8,006	8,491

U.	s.	Imports	by	Product,	Change from	
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	Current	1 Month	3 Months	6 Months	1 Year
	7/26/24	Ago	Ago	Ago	Ago
Total Crude Oil	-	-3.1%	5.6%	11.2%	5.9%
Total Products	-	-3.1%	-8.0%	8.5%	-1.0%
Total Motor Gasoline	-	-9.4%	-0.1%	53.8%	-0.1%
Kerosene-Type Jet Fuel	-	-9.6%	3.7%	6.3%	16.4%
Distillate Fuel Oil	-	6.8%	-9.4%	-31.3%	23.8%
Residual Fuel Oil	-	-7.5%	-32.1%	-33.3%	-2.6%
Propane/Propylene	-	15.9%	3.3%	-24.6%	15.9%
Other Oils	-	1.8%	-14.0%	-0.6%	-7.9%
Total Imports	-	-3.1%	2.3%	10.6%	4.3%

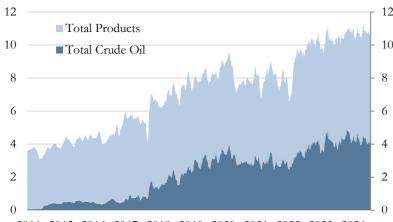
\*Totals may not sum due to component rounding

Source: U.S. Department of Energy, Energy Information Administration/Haver Analytics

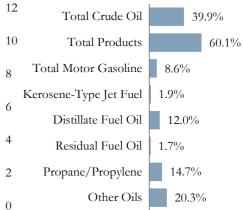
### July 2024 Weekly U.S. Exports of Crude Oil & Petroleum Products

4-Week Averages

Exports, million barrels per day



### Share of Total Exports



2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024

### Thousand barrels per day

U.S. Exports by Product*				Thousand ba	rrels per day
	Current	1 Month	3 Months	6 Months	1 Year
	7/26/24	Ago	Ago	Ago	Ago
Total Crude Oil	4,267	3,979	4,133	4,170	3,958
<b>Total Products</b>	6,417	6,865	6,636	6,219	6,608
Total Motor Gasoline	923	929	876	918	1,001
Kerosene-Type Jet Fuel	203	240	206	220	187
Distillate Fuel Oil	1,280	1,447	1,308	1,090	1,361
Residual Fuel Oil	183	153	165	100	164
Propane/Propylene	1,568	1,733	1,773	1,708	1,523
Other Oils	2,169	2,269	2,173	2,057	2,282
Total Exports	10,684	10,844	10,768	10,389	10,566

### U.S. Exports by Product, Change from

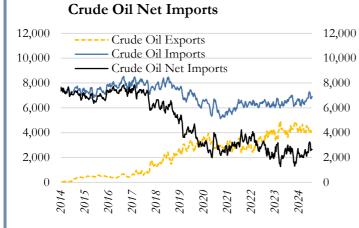
	<i>Current</i> 7/26/24	1 Month Ago	3 Months Ago	6 Months Ago	1 Year Ago
Total Crude Oil	-	7.2%	3.2%	2.3%	7.8%
<b>Total Products</b>	-	-6.5%	-3.3%	3.2%	-2.9%
Total Motor Gasoline	-	-0.6%	5.4%	0.5%	-7.8%
Kerosene-Type Jet Fuel	-	-15.4%	-1.5%	-7.7%	8.6%
Distillate Fuel Oil	-	-11.5%	-2.1%	17.4%	-6.0%
Residual Fuel Oil	-	19.6%	10.9%	83.0%	11.6%
Propane/Propylene	-	-9.5%	-11.6%	-8.2%	3.0%
Other Oils	-	-4.4%	-0.2%	5.4%	-5.0%
Total Exports	-	-1.5%	-0.8%	2.8%	1.1%

\*Totals may not sum due to rounding

Source: U.S. Department of Energy, Energy Information Administration/Haver Analytics

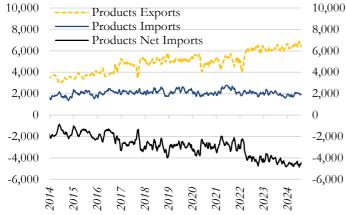
### July 2024 Weekly U.S. Net Imports of Crude Oil & Petroleum Products

4-Week Averages, Thousand barrels per day

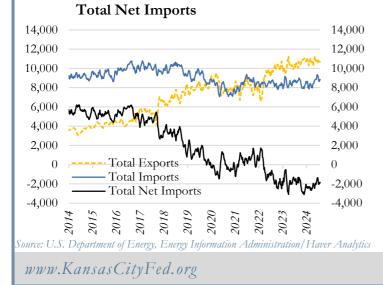


Crude Oil Net Thousand barre	Change from	
7/26/24	2,639	
Month Ago	3,150	-16.2%
3 Months Ago	2,408	9.6%
6 Months Ago	2,042	29.2%
1 Year Ago	2,565	2.9%

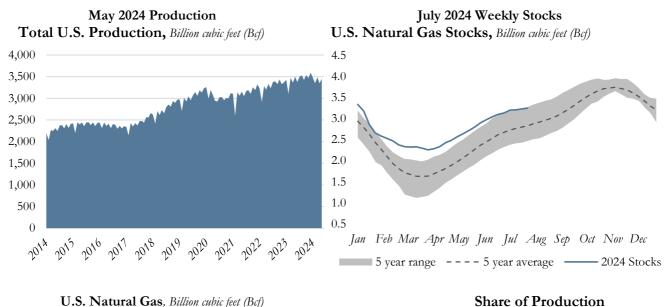
Products Net Imports



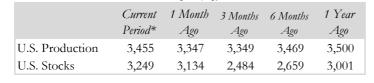
Products Net ImportsChangeThousand barrels per dayfrom7/26/24-4,469Month Ago-4,8553 Months Ago-4,5176 Months Ago-4,4241 Year Ago-4,639



<b>Total Net</b> Thousand barre	Change from	
7/26/24	-1,830	
Month Ago	-1,705	-
3 Months Ago	-2,109	-
6 Months Ago	-2,382	-
1 Year Ago	-2,075	-



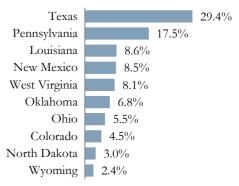
### **U.S. Natural Gas Production & Stocks**

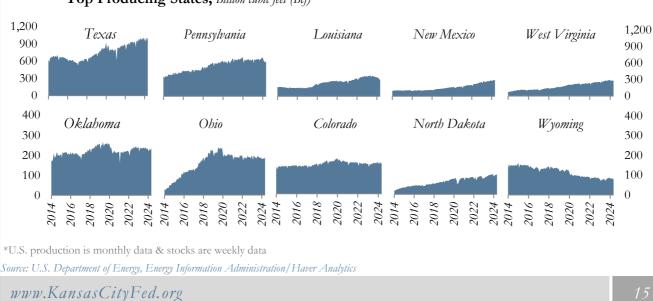


### U.S. Natural Gas, Change from

	Current Period*	1 Month Ago	3 Months Ago	6 Months Ago	1 Year Ago
U.S. Production	-	3.2%	3.2%	-0.4%	-1.3%
U.S. Stocks	-	3.7%	30.8%	22.2%	8.3%

### Share of Production





### Top Producing States, Billion cubic feet (Bcf)

### Definitions:

West Texas Intermediate: A crude oil produced in Texas and southern Oklahoma which serves as a reference or "marker" for pricing a number of other crude streams and is traded in the domestic spot market at Cushing, Oklahoma.

Brent: A blended crude oil produced in the North Sea region which serves as a reference or "marker" for pricing a number of other international crude streams.

Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Refined petroleum products include but are not limited to gasolines, kerosene, distillates (including No. 2 fuel oil), liquefied petroleum gas, asphalt, lubricating oils, diesel fuels, and residual fuels.

### Notes:

Page 2: Petroleum Administration for Defense Districts (PADD) are geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation. For more information, visit: http://www.eia.gov/petroleum/supply/monthly/pdf/append.pdf

*Page 3*: For OPEC countries & the U.S., only crude oil production data is used. For non-OPEC countries (excluding the U.S.) total petroleum production data is used. Total petroleum production includes includes production of crude oil (including lease condensates), natural gas plant liquids, biofuels, other liquids, and refinery processing gains.

*Page 5*: The active rig count is the number of rigs actively exploring for or developing oil or natural gas. Rig counts provide an indicator of new drilling activity and potential for expanded crude oil or natural gas production.

*Pages 10:* Crude oil stocks are stocks of crude oil and lease condensate held at refineries, in pipelines, at pipeline terminals, and on leases.

Crude oil stocks for Cushing include domestic and foreign crude oil stocks held in tank farms in Lincoln, Payne, and Creek counties in Oklahoma. Cushing, Oklahoma, is the designated delivery point for NYMEX crude oil futures contracts.

Days of supply are calculated by taking the current stock level and dividing by product supplied (used as an estimate of demand) averaged over the most recent four-week period. For crude oil, refinery inputs of crude oil are used as a proxy for demand.

### Notes :

Page 11: Petroleum Consumption approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals.

### **Data Revisions**

Most data are revised periodically to correct for errors and incorporate additional information as it becomes available. Data shown in this report are subject to change.

### Regional Economic Analysis

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