**REFINERY NEWS** 

Nothing to report.

\$4.60

# **INSIDE**

## **Gasoline Retail Prices by Brand Diesel Retail Prices by Region**

**California Refinery** 

**Weekly Production California Jet Fuel Production** 

By Region **California State and Regional** 

**Utilization Rates Featured Topic:** 

**California Refinery Utilization** 

**April 2021 vs. 2020** 

(Percentage Change)

CALIFORNIA GASOLINE RETAIL PRICES BY BRAND

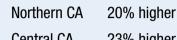
76 37% higher **ARCO** 43% higher Chevron 37% higher Hypermart 47% higher Shell 36% higher Unbranded 41% higher Valero 40% higher

**April 2021 Averages** 76 \$4.04 **ARCO** \$3.77 \$4.13 Chevron **Hypermart** \$3.62 Unbranded \$3.82 \$3.93 Valero

\$4.40 \$4.20 Dollars per Gallon (Nominal \$4.00 \$3.80 \$3.60 \$3.40 \$3.20 \$3.00 \$2.80 \$2.60 \$2.40 \$2.20 \$2.00 May-20 Mar-21 CHEVRON -- HYPERMART UNBRANDED **VALERO** Source: California Energy Commission (CEC) analysis of Oil Price Information Service (OPIS) data

## \$4.40

CALIFORNIA DIESEL RETAIL PRICES BY REGION

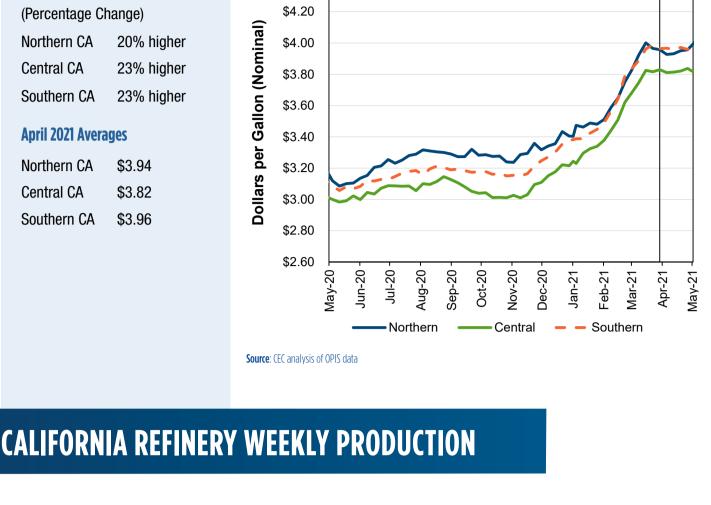


**April 2021 vs. 2020** 

(Percentage Change)

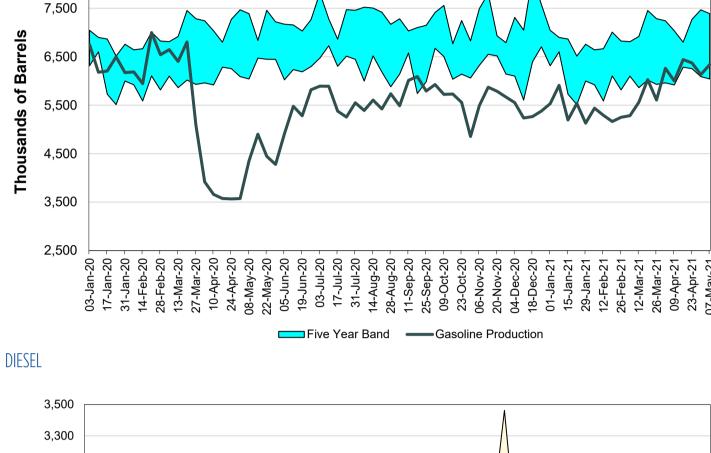
Central CA 23% higher Southern CA 23% higher **April 2021 Averages** Northern CA \$3.94 \$3.82

Central CA Southern CA \$3.96

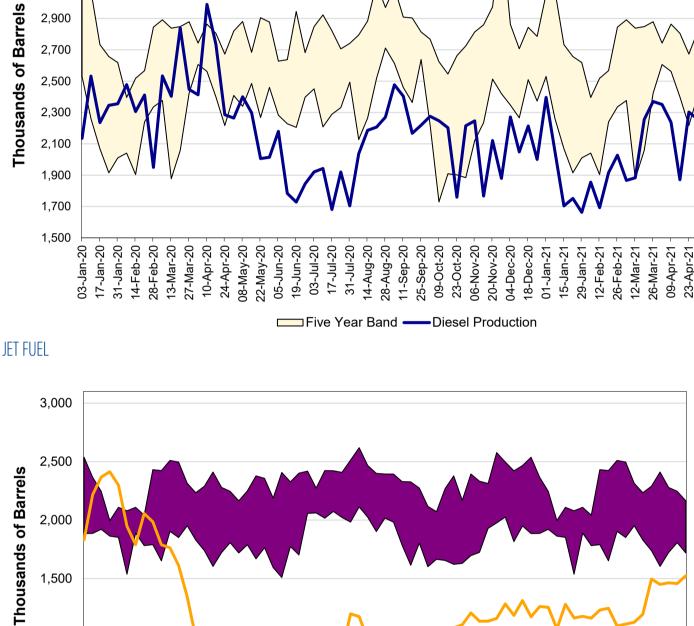


## 8,500

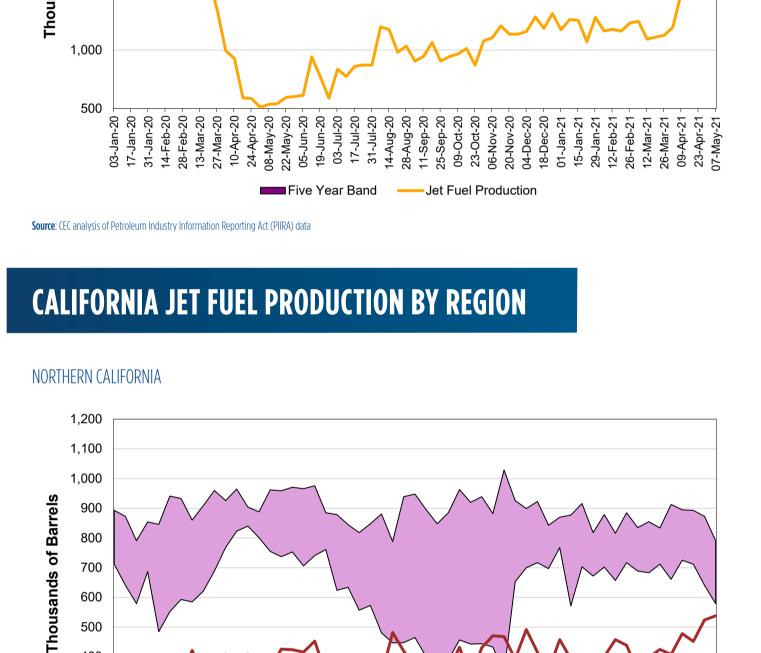
**GASOLINE** 



3,100 2,900 2,700



1,500



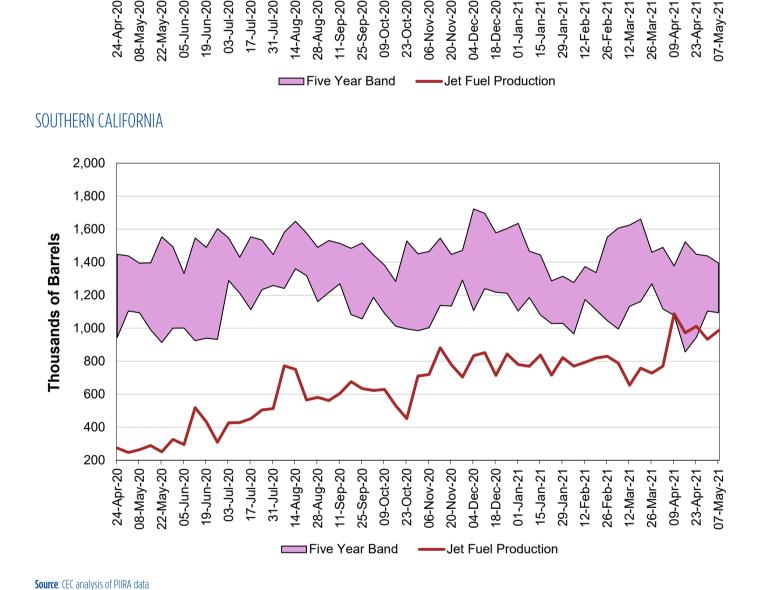
500 400

700

600

300

200



CALIFORNIA REFINERY **UTILIZATION** The California Energy Commission's

**FEATURED TOPIC** 

Weekly Fuels Watch Report tracks

the weekly production and inventory

of transportation fuels in California. It provides a breakdown of the three

main refined products from the

previous week, as well as residual

Watch report provides production

demand is increasing. Alternatively, if inventories build while production

products and the amount of crude oil input to refineries. The Weekly Fuels

numbers, weekly percent changes, and annual percent changes. These metrics

### can signal movements in California fuel demand. For example, if production for a certain fuel goes up while the inventory depletes, that could signal

remains stagnate (or decreases), that could signal a decrease in demand. The Weekly Fuels Watch charts track the historical output of California refineries. For each fuel type there is statewide, northern, and southern charts. The charts show weekly production and inventory levels over the past year along with the maximum and minimum values for each week within the past five years, referred to as a five-year band. The band provides context for current, seasonal, and regional trends. Demand is slowing when inventories climb closer to the top of the five-year band or if production is closer to the bottom of the five-year band. Throughout most of 2020, production levels were below the five-year minimum but are now slowly returning to the prepandemic levels within the bands.

gasoline prices return to pre-pandemic levels, and slowly push above \$4.00 per gallon in California's retail market, there has been a steady rise in gasoline production to accommodate the increasing demand. The **Gasoline Production** graph shows production

REFINERY PRODUCTION

California Refinery Weekly Production

shows charts for three transportation

fuels: gasoline, diesel, and jet fuel. As

five-year band by March of 2021 as gasoline demand increased. Diesel demand was least affected by the pandemic, so diesel production remained relatively stable compared to gasoline and jet fuel. Refineries adjusted their slates to divert jet fuel production into diesel without needing to lower their utilization rates. The **Diesel Production** graph shows that production did not stray

slowly making a steady return to the

far from the five-year band. Out of the three main transportation fuels, jet fuel production took the hardest hit during the pandemic. California refineries cut nearly half of daily jet fuel production, which reduced the jet fuel proportion of annual refinery slate from 15.4 percent in 2019 to 10.8 percent in 2020. Jet fuel production has steadily increased since the initial drop

Siva Gunda

Commissioners

**Gavin Newsom** 

**David Hochschild** 

**Drew Bohan** 

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SPECIAL THANKS

Transportation Fuels Data Analysis Unit

Governor

Chair

### from the equation, the utilization rates minimum production levels of the five-year band, in succession. Jet fuel increase. From April 2020 onward, production still lagged during the first Marathon Golden Eagle was running

CALIFORNIA STATE AND REGIONAL UTILIZATION RATES

Aug-20 Sep-20

······ Total CA Utilization (without Marathon GE Capacity)

Northern California Utilization

--- Southern California Utilization

**Total CA Utilization** 

- 2015 Average Utilization

Oct-20

Northern California Utilization (without Marathon GE Capacity)

Nov-20 Dec-20 Jan-21 Feb-21 Mar-21

regional, statewide, northern, and

Golden Eagle refinery utilization

removed. Only refineries producing

transportation fuels are included in

these calculations. When Marathon

at minimal rates (low utilization rates)

bringing the regional and statewide

Golden Eagle refinery is removed

southern utilization rates, as well as

statewide and northern with Marathon

Apr-21

100%

90%

80%

70%

60%

50%

40%

30%

Feb-20

Mar-20 Apr-20 May-20 Jun-20 Jul-20

in March 2020 but has not reached pre-pandemic levels. In the first quarter

of 2020, weekly jet fuel production

averaged 7 percent above the low

During the next three quarters, jet

51 percent, and 38 percent below

fuel production averaged 60 percent,

quarter of 2021, averaging 35 percent

below minimum production of the five-

production levels of the five-year band.

Jan-20

Source: CEC analysis of PIIRA data

year band. Northern California Jet Fuel rates down. When Marathon Golden Eagle is removed, it provides a more Production reached the five-year band accurate look at how the region is minimum in October 2020, averaging 394 thousand barrels per week October performing since March 2020. through December. In January 2021 the The utilization rates at the start of 2020 five-year band shrinks and Northern ran from 83.3 percent to 88.8 percent. California jet fuel production averages The stay-at-home order, beginning 40 percent below the low levels of the in March 2020, reduced demand for five-year band. Northern California transportation fuels and refineries production has not yet returned to decreased crude oil inputs. California's pre-pandemic levels, possibly because annual utilization rate in 2020 was the demand for jet fuel still hasn't fully recovered. Southern California Jet Fuel Production reached the five-year band minimum on April 9, 2021. REFINERY UTILIZATION The CEC maintains a complete list of California refineries and which ones produce transportation fuels. In 2019, California's total transportation fuels TAKEAWAYS refining capacity was 1,885,371 barrels per day. In 2021, capacity decreased to 1,723,871 barrels per day with Northern California comprising

707,871 barrels per day and Southern California comprising 1,016,000 barrels per day. This reduction is due to the idling of Marathon Golden Eagle refinery (161,500 barrels per day) in April 2020. The shut down of Marathon Golden Eagle refinery reduced capacity in Northern California by 18.6 percent. In October, Marathon announced plans to convert its Golden Eagle facility into a renewable diesel plant, which is estimated to produce 48,000 barrels per day of renewable diesel when it becomes fully operational in 2023. The utilization rate represents the rate at which crude oil is being processed. Utilization rates are calculated by dividing volume of crude inputs by crude refining capacity. The State and

69.8 percent. By comparison, 2015 annual utilization rate for California refineries was 88.3 percent (as shown in the chart as a dashed line). In February 2021, utilization rates started increasing, and by April 23, 2021, the total California utilization rate without Marathon Golden Eagle refinery reached 88.2 percent utilization. Jet fuel has yet to return to prepandemic levels. Air travel, especially internationally, may not fully recover this year. Utilization rates are closing in at pre-pandemic levels,

but California now operates with

lower total production capacity with Marathon Golden Eagle refinery capacity removed. This capacity may increase over the next few years as the pandemic triggered stay-athome order provided the opportunity for refineries to retool and futureproof themselves to operate in a clean energy economy. Refineries have started to change production capabilities, such as switching to producing renewable diesel, in response to California's climate policies and will continue to evolve. **CALIFORNIA ENERGY** 

Regional Utilization Rates chart depicts Karen Douglas, J.D. J. Andrew McAllister, Ph.D. **Patty Monahan** 

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Executive Director FOR MORE INFORMATION **California's Petroleum Market Weekly Fuels Watch**