INSIDE

Gasoline Retail Prices by Brand Diesel Retail Prices by Region Gasoline Spot Prices Less NYMEX Futures Price Retail Racks and Margins

California Average Gasoline Price Featured Topic: Stay-At-Home Orders: Impact on

Petroleum Prices CALIFORNIA GASOLINE RETAIL PRICES BY BRAND

REFINERY NEWS

Marathon Los Angeles: On May 11 and May 20, unplanned flaring took place at the refinery according to regulatory filings with the South Coast Air Quality Management District (South Coast AQMD).

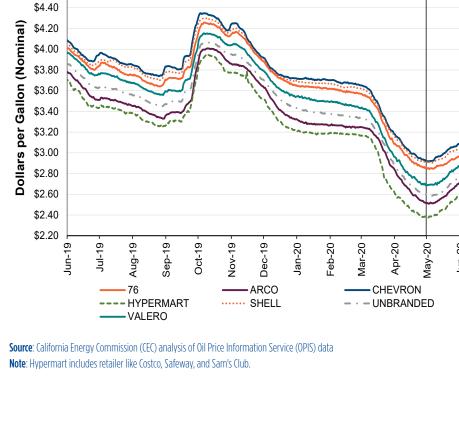
PBF Torrance: On May 26, unplanned emergency flaring took place at the refinery according to the regulatory filings with the South Coast AQMD.

May 2020 vs. 2019 \$4.60



Chevron \$3.00 Hypermart \$2.46 Shell \$2.96

Unbranded \$2.65 Valero \$2.76

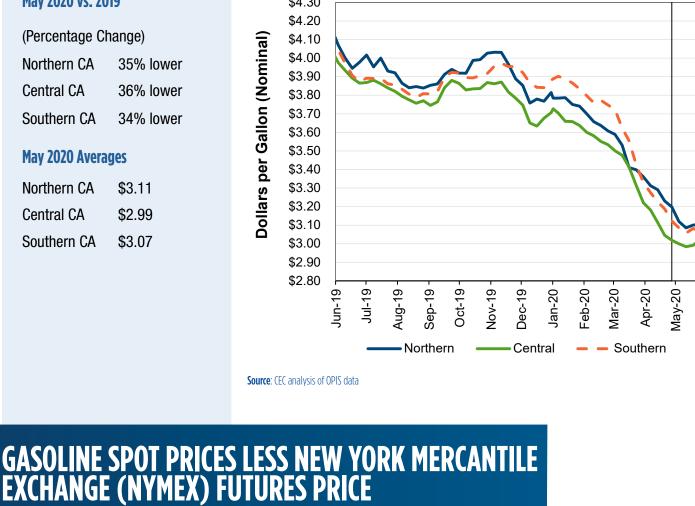


CALIFORNIA DIESEL RETAIL PRICES BY REGION

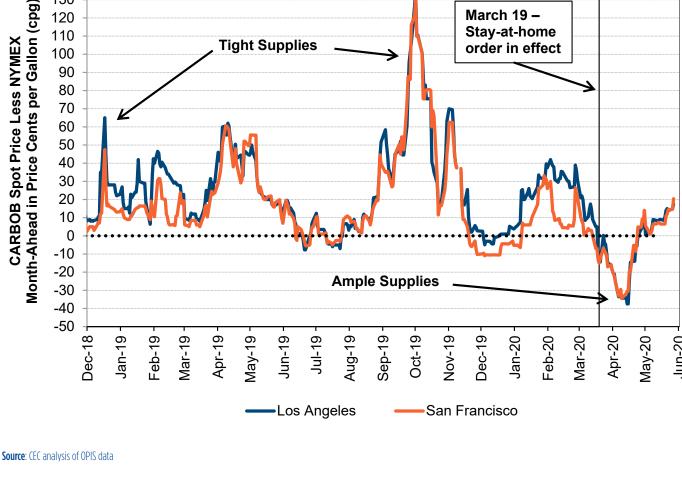
May 2020 vs. 2019 \$4.30 \$4.20



(Percentage Change)



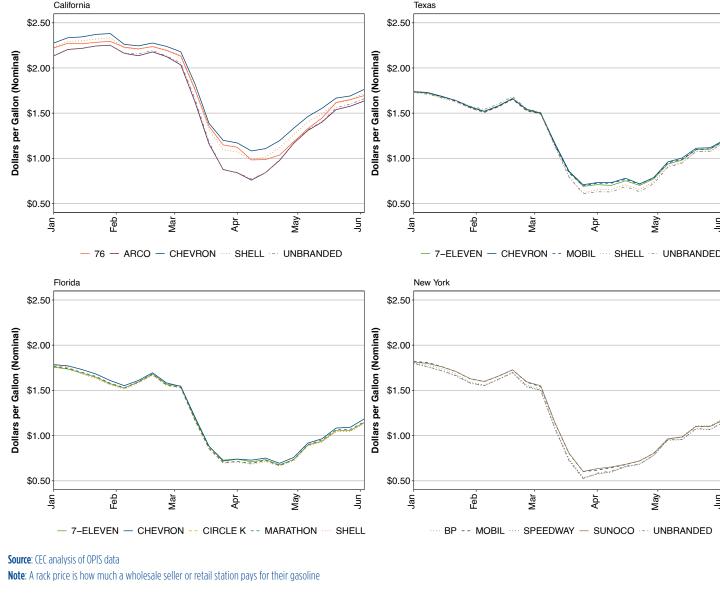
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RETAIL RACKS AND MARGINS

GASOLINE RACK PRICE BY BRAND

California \$2.50



\$1.50

\$1.00

Dollars per Gallon (Nominal) \$1.00

GASOLINE MARGINS PRICE BY BRAND

California

\$1.50

March-19

April-19

May-19

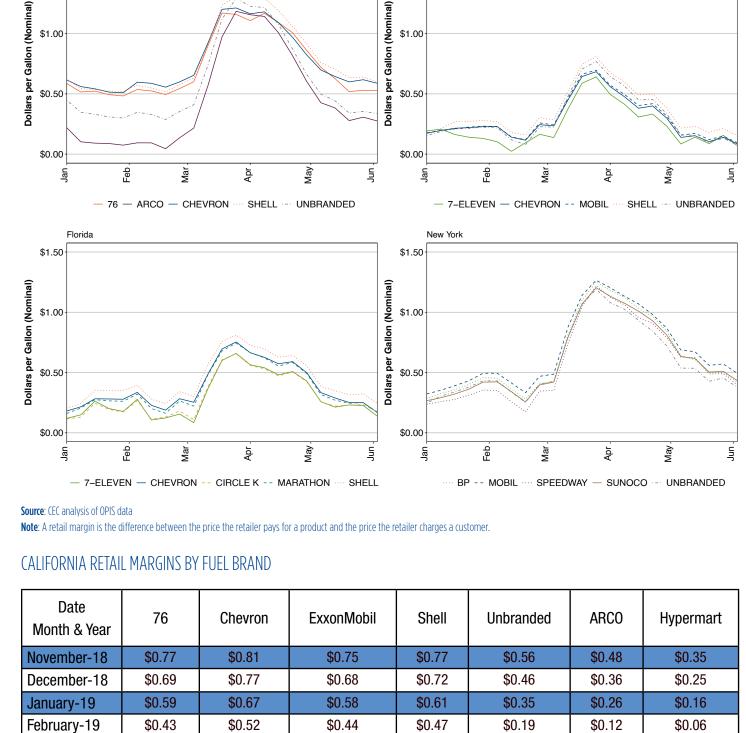
June-19

\$0.33

\$0.36

\$0.55

\$0.66



July-19 \$0.55 \$0.63 \$0.56 \$0.60 \$0.55 \$0.56 \$0.61 August-19 \$0.64 \$0.42 \$0.54 \$0.44 \$0.49 September-19 October-19 \$0.56 \$0.58 \$0.64 \$0.60

\$0.43

\$0.46

\$0.63

\$0.73

\$0.35

\$0.40

\$0.56

\$0.67

\$0.39

\$0.42

\$0.60

\$0.69

\$0.13

\$0.19

\$0.40

\$0.51

\$0.35

\$0.36

\$0.20

\$0.39

\$0.06

\$0.14

\$0.32

\$0.41

\$0.24

\$0.25

\$0.09

\$0.32

\$0.01

\$0.06

\$0.26

\$0.32

\$0.16

\$0.17

\$0.02

\$0.24

November-19		\$0.74	ው ስ ርዕ	<u></u>	Φ0.50	00.40	ሰ ስ ስስ
MOVELLIDEL- 19	\$0.69	Φ 0.74	\$0.68	\$0.71	\$0.50	\$0.43	\$0.33
December-19	\$0.67	\$0.71	\$0.66	\$0.69	\$0.48	\$0.38	\$0.27
January-20	\$0.47	\$0.54	\$0.47	\$0.51	\$0.23	\$0.12	\$0.03
ebruary-20	\$0.46	\$0.54	\$0.48	\$0.50	\$0.23	\$0.13	\$0.06
March-20	\$0.92	\$1.00	\$0.94	\$0.97	\$0.71	\$0.65	\$0.50
April-20	\$1.07	\$1.15	\$1.09	\$1.12	\$0.84	\$0.77	\$0.61
/lay-20	\$0.55	\$0.65	\$0.58	\$0.62	\$0.31	\$0.24	\$0.12
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	IA AVEI	KAUE UA	JULINE PI	MICL			
\$4.75	IA AVEI	KAUE UA	JULINE PI	MICL			
	IA AVEI	KAUE UA	JULINE PI	NICL			
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\$4.50 \$4.25 \$4.00 \$3.75 \$3.50 \$3.25	IA AVE	KAUE UA	SULINE P				

May-14 -Sep-14 -Jan-15 -May-15 -Sep-15 -

MONTHLY AVERAGE GASOLINE SPREAD

2020

\$0.13

\$0.12

2020

\$0.25

\$0.33

\$0.03

-\$0.17

\$0.09

Jan-16 -May-16 -Sep-16 -Jan-17 -

San Francisco

Past 5 Years

\$0.05

\$0.15

\$0.12

\$0.20

\$0.21

Past 5 Years

\$0.10

\$0.22

\$0.15

\$0.22

\$0.19

receives their gasoline primarily

their curves are nearly identical.

RETAIL BRANDS

from Texas. This relationship is also

reflected in the rack price trends as

During 2019, the average difference

priced and lower-priced brands was

\$0.36, the same as in 2018. When

California Average Gasoline Prices

that difference increased, averaging

fell at the beginning of this year,

\$0.43 for the first five months of

2020. One possible explanation for

that increase is retail station sales

volume, referred to as throughput.

in retail prices between higher

Past 10 Years

\$0.02

\$0.15

\$0.06

\$0.14

\$0.17

Past 10 Years

\$0.06

\$0.21

\$0.09

\$0.15

\$0.15

Past 3 Years

\$0.05

\$0.14

\$0.11

\$0.23

\$0.22

Past 3 Years

\$0.12

\$0.24

\$0.13

\$0.25

\$0.18

Los Angeles

Average Gasoline Price

Source: CEC analysis of CEC and EIA data **FEATURED TOPIC**

IMPACT OF STAY-AT-

HOME ORDERS ON

PETROLEUM PRICES

California refineries started January

2020 with low gasoline supplies,

likely due to seasonal trends. On

March 19, 2020, Governor Gavin

Newsom signed an executive order

for all Californians to stay at home

California begins reopening, spot

chain, such as racks and retail, are

beginning to see demand picking up.

price in the marketplace that buyers

markets and other prices in the supply

Sep-11 -Jan-12 -May-12 -Sep-12 -

Jan-13 -May-13 -Sep-13 -Jan-14 -

Brand High-Low Band

because of the novel coronavirus (COVID-19). This reduced the demand for fuel, immediately reversing the tight fuel supply situation. As

SPOT PRICES

\$2.25

pay for immediate delivery of a product (see **EIA** for more information). In California, San Francisco (SF) and Los Angeles (LA) are the spot delivery points. In contrast, the New

York Mercantile Exchange (NYMEX)

product in the future at New York Harbor (more on futures contracts is in the April 2020 Petroleum Watch). These markets work together to allow participants to find supplies with less risk of price volatility. The differential price is a common measure that compares California spot prices to the NYMEX futures prices. Subtracting the NYMEX price from the California price produces the differential price. which is also known as the spread. The spread, quoted in cents, shows the current supply and demand of the product relative to a less volatile futures contract of a major market hub like NYMEX. High price spreads signal high demand and/or tight supply, and low or negative price spreads signal low demand and/or ample supply.

increased from \$0.05 on January 2 to \$0.38 on January 31. The spread remained high during February and averaged \$0.33, \$0.12 higher than the past 10-year average. The SF-NYMEX spread followed a similar trend and increased from -\$0.05 from January 2 to \$0.26 on January 31. In February, \$0.12 and \$0.33, respectively. spreads were expected to average \$0.09 and \$0.06, respectively.

in January, as seen in the Monthly

Average Gasoline Spreads for the

past 10 years. The LA-NYMEX spread

the SF-NYMEX spread decreased more than the LA-NYMEX spread, averaging During March, the LA and SF gasoline However, the prices decreased leading to new record lows in April. Gasoline **Spot Price Less NYMEX Futures Price** shows how the spreads changed during the recent events. On March 2, weeks before the stay-at-home order, the LA-NYMEX spread was \$0.21 and SF-NYMEX spread was \$0.11. The spreads decreased to -\$0.12 and -\$0.13 for LA-NYMEX and SF-NYMEX, respectively, on March 18. On March 19, Governor Newsom signed the statewide executive order for all non-essential workers to stay home. Gasoline spot prices decreased from an average of -\$0.12 on March 19 to -\$0.19 on March 31. The SF-NYMEX spreads set a new low at -\$0.34 on April 9 and the LA-NYMEX spread set a new low at -\$0.38 on April 14. The stay-at-home order also affected crude oil and retail prices. On April

-\$0.05 March April -\$0.15 \$0.08 May

Month

January

February

Month

January

February

March

April

May

Source: CEC analysis of CEC and EIA data The gasoline spot price is the current On April 17, Reuters reported that In California, the price difference Marathon refinery in Martinez, between fuel brand margins decreased California would close temporarily as prices across the supply market decreased. When prices began to rise, starting on April 27. Spot prices began to increase in anticipation of reduced the price gap widened again. California production and tightening supplies. retail margins also held peaks longer than Texas, New York, and Florida; Between April 14 and May 8, the LA-NYMEX spread increased from -\$0.38 with the downward trend starting futures price is a contract that delivers to \$0.09 and the SF-NYMEX spread the week of April 20. Even though increased from -\$0.31 to \$0.07. top brands differed between the two states, New York margins moved in a Spot prices will likely increase as similar direction to California's, rising California begins reopening. The above \$1.00 before returning closer California Department of Public to \$0.50 heading into June. Texas and Health outlines the process in Florida margins were more closely four stages. Stage 1 focuses on related which is expected since Florida

Stage 2 began and spot prices started to increase in anticipation of increased demand. Spot prices will likely increase as the other stages begin. The gasoline spreads are typically low RACK TO RETAIL Retail margins are the difference between how much a retail station pays for their gasoline and how much they sell it to customers, excluding taxes. Margins provide insight on a retailer's business strategy. A retailer with low margins may rely on highvolume sales, while a retailer with high margins may not rely as much on volume. Spot prices, rack prices, and retail prices all decreased during the demand drop, but retail margins increased. While retail margins

safety and preparedness. Stage

2 focuses on gradually opening

lower-risk workplaces such as retail,

manufacturing, and offices. Stage

3 focuses on reopening higher-risk

workplaces such as personal care and

recreational venues. Stage 4 signals

the end of stay-at-home order when

and concert venues reopen. On May 8,

large gathering venues, like sports

increased across all top fuel brands, trends differed between the weeks of March 16 and April 20 depending on the fuel brand and state. Average 2020 Weekly Brand Racks fell during the stay-at-home orders and Average 2020 Weekly Retail Margins rose, depicting the inverse relationship between rack prices and retail margins. These graphs compare the rack price and retail margin trends in the nation's four most populous states: California, Texas, Florida, and New York. The brands shown are the top five retail fuels brands by station count in their respective states as reported by OPIS. Calculations for these margins are similar to the <u>California Average</u> Gasoline Retail Margins except broken down by metropolitan statistical area (MSA) and fuel brand. The average margins for each state are weighted using the number of retail stations

California Average Gasoline Retail

Hypermarts and ARCO are low price leaders in California and tend to have higher throughput. In 2017, CEC staff analysis showed that hypermarts averaged 5.3 times more gasoline throughput than the average retail location. Because of this increased throughput, hypermarts and other high-throughput stations are likely able to adjust prices more freely as their frequent buying patterns allow them to offset their costs with falling wholesale prices. Lower throughput stations are often locked into a higher wholesale price at the time of their purchase, so they need to hold their street price before adjusting their price to prevent a loss on their gasoline sales. These retail stations likely experienced even lower throughput due to the COVID-19 related demand drop, forcing them to hold their prices longer than usual. Looking at brand retail margins would test whether this explanation

brands with lower throughput are unable to quickly adjust their prices. But as <u>California Average Gasoline</u> Retail Margins shows, in March, retail margins increased regardless of the brand by at least \$0.44 and remained elevated for the following month. The recent increases in the gap between higher-priced brands and lower-priced brands is not a result of changes in retail margins.

CALIFORNIA

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for the increase in the difference

in retail prices holds. Higher-priced

reporting to OPIS for that MSA and fuel brand. Unlike the margins in 20, West Texas Intermediate (WTI)

decreased to -\$2.68 per barrel. In addition, EIA reported retail gasoline prices at \$2.64 per gallon on May 4. Karen Douglas, J.D. **Gavin Newsom** Governor J. Andrew McAllister, Ph.D. **Patty Monahan David Hochschild** Commissioners Chair **Drew Bohan** Janea A. Scott, J.D Executive Director Vice Chair

crude decreased to -\$36.98 per barrel

and Alaska North Slope (ANS) crude

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California's Petroleum Market

Transportation Fuels Data Unit

Margins, these do not account for other fees associated with wholesale fuel prices like the Low Carbon Fuel Standard (LCFS) in California.