INSIDE

Gasoline Retail Prices by Brand Diesel Retail Prices by Region 2019 Retail Fuel Stations by County Retail Fuel Station Count by Brand Gasoline Sales by Ownership Gasoline Market Share by Fuel Brand **Featured Topic:**

Results: Gasoline

Annual Retail Fuel Outlet Report

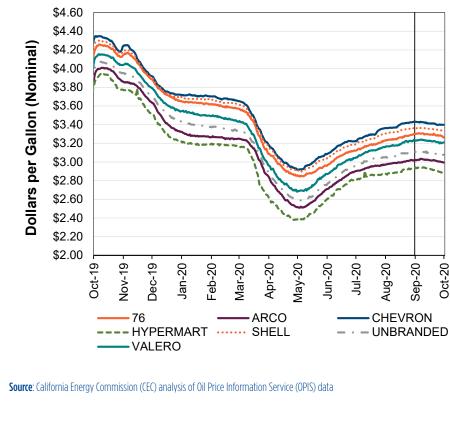
Chevron El Segundo:

On August 31, emergency flaring took place due to a mechanical/ electrical malfunction according to the South Coast Air Quality Management District (SCAQMD). **PBF Torrance**: On September 3, emergency flaring took place due to a mechanical/electrical malfunction according to the South Coast Air Quality Management District (SCAQMD).

September 2020 vs. 2019 \$4.60 \$4.40

CALIFORNIA GASOLINE RETAIL PRICES BY BRAND





CALIFORNIA DIESEL RETAIL PRICES BY REGION

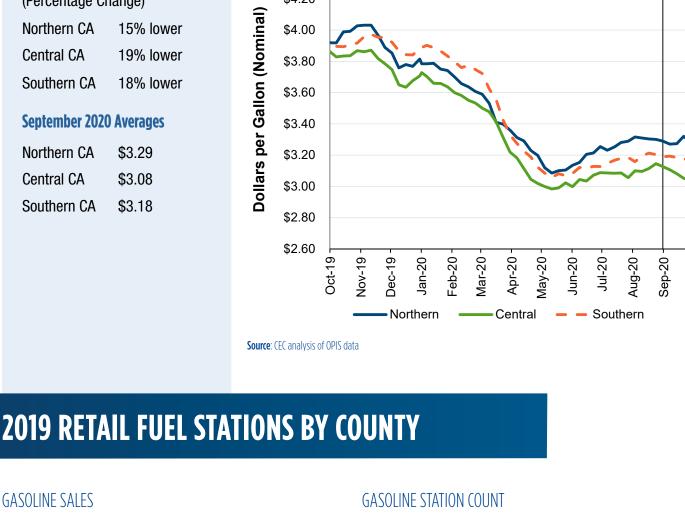
(Percentage Change) \$4.20 15% lower

\$4.40



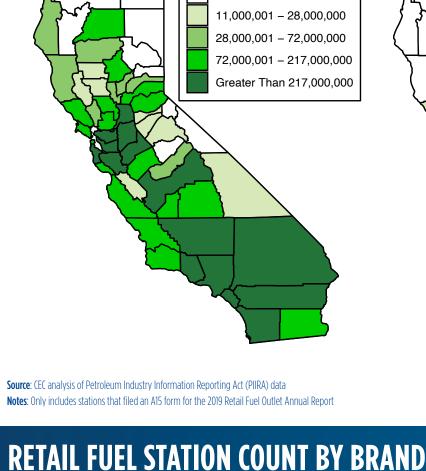
GASOLINE SALES

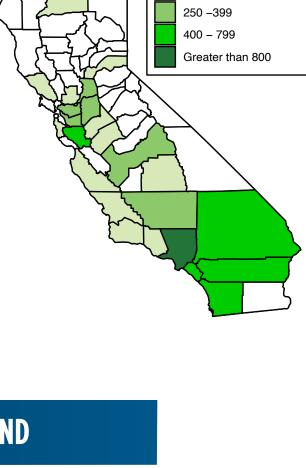
September 2020 vs. 2019



Under 11,000,000 11,000,001 - 28,000,000 28,000,001 - 72,000,000

Gasoline Sale (Gallons)





Gasoline Station Count

Under 100

100 - 249

State Average 29.8 73.9 Alameda 54 176 Amador **Butte**

128

36

0%

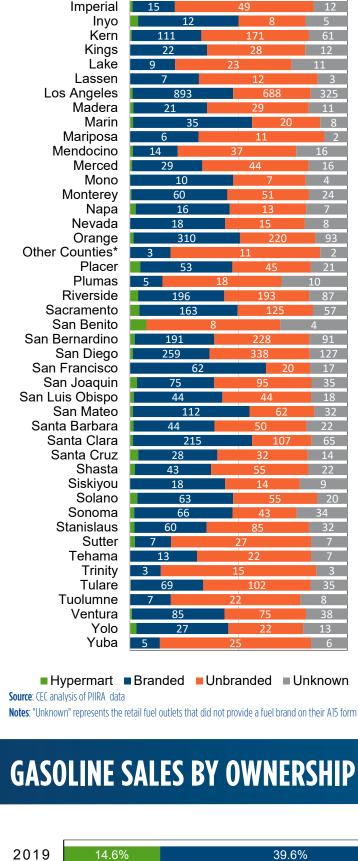
Colusa 11 Contra Costa Contra Costa 130 Del Norte El Dorado

50%

Fresno Glenn Humboldt

2009 STATION DISTRIBUTION

Calaveras



Lake Lassen Los Angeles Madera

2019 STATION DISTRIBUTION

State Average

Alameda

Amador

Calaveras

Del Norte

El Dorado

Butte

Colusa

Fresno

Glenn

0%

71.5

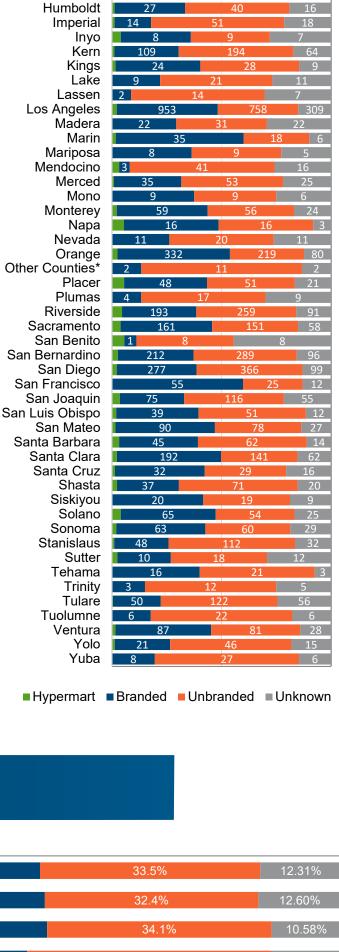
91

50%

100%

31.0

100%



28.4%

29.4%

16.4%

19.1%

18.2%

ARCO

19.2%

19.1%

19.8%

UNBRANDED

HYPERMARTS

16%

14%

12%

10%

8%

6%

4%

2%

Percent Share of Hypermart Fuel Sales

14.6%

13.6%

13.0%

12.3%

total sales increased over the last

2009 to 16.6 percent in 2019. The

proportion for unbranded fuels also

increased, leading in market share

at 24.7 percent in 2019 compared to

16.3 percent in 2009. These stations

sell their fuel at lower prices (relative

to the branded fuels) and have more

10 years starting at 9 percent in

12.2%

11.3%

11.1%

200 201 2012 2012 2014 2015 2010 2017 2018 2018

All Other Station Hypermart Station Hypermart Fuel Sales

10.4% 11.1%

9.0%

8.2%

909'6

Retail Fuel Station Count by Brand

shows the number of gas stations in

each county including the statewide

average listed at the top. Unknown

stations that did not report for that

year but have reported in the past.

Percentages for county average differ

from statewide average because they

are existing and estimated gas

28.6%

2011 10.4% 45.6% 2010 9.0% 47.0% 2009 48.5%

42.3%

49.0%

40.0%

39.4%

30.8%

36.1%

2018

2017

2016

2015

2014

2013

2012

2012

2011

2010

Source: CEC analysis of PIIRA and OPIS data

FEATURED TOPIC

OUTLET REPORT

(CEC) constantly seeks more

efficient methods for gathering

data on transportation fuels sold

throughout California. Every year,

retail transportation fueling stations

in California file a Retail Fuel Outlet

Annual Report, also known as CEC

on retail sales of gasoline, diesel,

and other transportation fuels sold

CEC staff combine these reports with data from the Oil Price Information

through fuel stations of all types.

Service (OPIS), which tracks daily gasoline prices at fuel stations.

This Petroleum Watch looks at the

A15. This report gathers information

Notes: Market share by A15 volume does not include unknown sales.

ANNUAL RETAIL FUEL

RESULTS: GASOLINE

The California Energy Commission

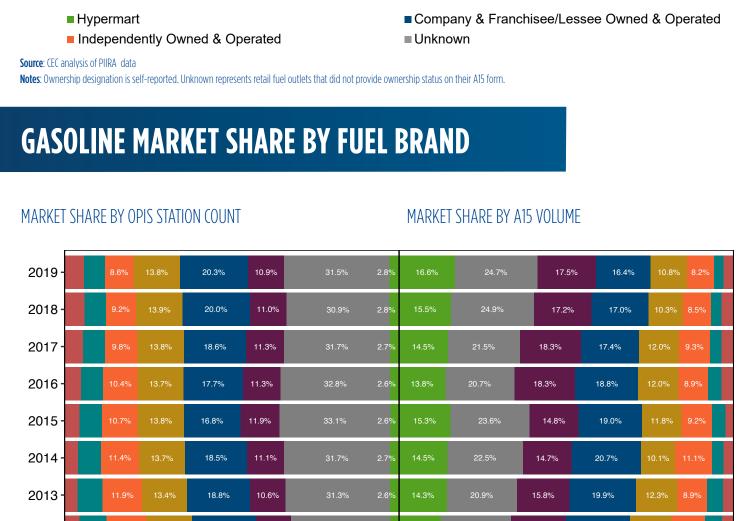
13.6%

12.3%

12.2%

11.3%

11.1%



2009 24.5% 7.6% **Market Share by OPIS Station Count** Market Share by A15 Volume **EXXON MOBIL** 76 **CHEVRON**

VALERO

25.7%

10.6%

29.6%

SHELL

GROWTH IN HYPERMARTS

11,000

10,800

10,600

10,400

10,200

10,000

9,800

9,600

9,400

9,200

9,000

Source: CEC analysis of PIIRA data

Quantity of Retail Fuel Stations

19.1%

results of the 2019 CEC A15 reports, specifically focusing on gasoline. The data is compared to data from the past 10 years, dating back to 2009,

as well as compared to OPIS' price

using the following designations:

Company and franchisee/

of the major oil companies.

lessee owned gas stations are

managed to meet the standards

Types of station ownership:

data. CEC staff analyzes these reports

- Examples include stations selling branded gasoline from brands like Chevron, Shell, and ARCO. Independently owned gasoline stations have no association with the major oil companies. These stations usually sell unbranded fuels. Hypermarts are large retail suppliers of general merchandise or groceries that also sell gasoline. Examples of hypermarts are Costco, Safeway, and Sam's Club. Types of gasoline branding: Branded gasoline is made by a major oil company/refiner that has its own proprietary additive package such as Techron by Chevron and V-power by Shell. Examples of branded fuels are 76, Chevron, Exxon Mobil, Shell, and Valero. Unbranded gasoline is manufactured to meet state or federal standards. These gasolines use a generic additive that are missing the proprietary additives found in branded gasolines. Examples of stations that sell unbranded fuels are
- data collection are in 2019 Retail Fuel Stations by County. Gasoline sales in

independent stations, regional

Results of the most recent CEC A15

chains, and hypermarts.

A15 RESULTS

total count peaked in 2016 at 10,481 stations. Total gasoline sales in 2019 increased 3.6 percent since 2009. DISTRIBUTION BY STATION **OWNERSHIP** increase in hypermart sales over hypermart stations increased at an year with the largest growth (one

are measured using a simple average. stations across the state. Due to Comparing 2009 to 2019, the average the shift toward more hypermart station count per county increased by and unbranded sales, the branded 12 gas stations, to an average of 187 fuels declined in their share of sales. stations per county in 2019. Of that Chevron peaked at around 21 percent total, hypermart stations comprised in 2014, but fell to 16 percent by 3.3 percent per county, a 0.6 percent 2019. Shell averaged nearly 12 increase from 2009. Branded gas percent year over year and keeps stations comprised 38 percent per a 10 percent sales-based market county, a 3.7 percent decrease share each year. Valero and Exxon from 2009. Unbranded gas stations comprised 42.4 percent per county, current market, with less than 500 a 3.6 percent increase from 2009. million gallons (less than 4 percent Unknown gas stations comprised share) sold in 2019. All other fuel 16.4 percent per county, a 0.4 percent decrease from 2009. While billion gallons sold each year since unbranded gas stations had a larger increase in station counts, hypermarts shifts in market share, this has not show the largest increase in sales. Total Gasoline Sales by Ownership shows percentage share of three ownership designations. Ownership designations are self-reported on Share by Fuel Brand uses the OPIS the CEC A15. The unknown share daily station counts to estimate represents estimated gasoline market share percentage. OPIS sales using bootstrapping. The surveys stations in the state use bootstrapping method is a statistical credit card swipes to track prices resampling method that uses random each day. By tracking each distinct sampling with replacement. In this price, address, and fuel brand, case, data collected from the A15 CEC staff creates another estimate report is used to create a random of market share by tallying up sample and then compared to CEC the counts for each year and fuel adjusted gasoline sales data from the brand. This method cannot speak California Department of Tax and Fee directly to the gallons sold metric Administration. In 2009, companylike the A15 survey. What it shows

percent to 14.6 percent in the same time period. The 2019 data show that Californians are buying their gasoline from hypermarts more often. Total gasoline sales will likely decrease for reporting year 2020 because of weakened demand caused by the COVID-19 pandemic. The pandemic has resulted in idled production at refineries not only in California but across the United States since April 2020. However, the decline in sales may not affect all station types equally, and outlets such as hypermarts could see an increase in their percent share of fuel sales. DISTRIBUTION BY GASOLINE BRANDING Stations report their fuel brand along with their gallon sales, allowing CEC staff to calculate market share

owned stations comprised 48.5

percent of gasoline sales statewide.

percent. Independent gas stations

increased in sales share 4 percent

to 33.5 percent and hypermarts

increased in sales share from 6

In 2019, this share decreased to 39.6

percentages seen in Gasoline

Market Share by Fuel Brand. The right side of the bar chart shows market share percentage based on the reported sales from retail stations that filed an A15 report for each year. Unknown stations are not included in this analysis, which makes these percentages differ from the sales by station ownership Mobil are the smallest players in the brands shown reported more than 1 2009. While data trends in 2019 show always been the case in the past. It is important to note that 2019 could be a deviation from the overall trend. The left bar chart in Gasoline Market is the difference between retail site presence and volume sales. Through the OPIS-based method, hypermarts lose over 10 percent of their market share compared to the gallons sold metric due to fewer number of stations than other fuel brands. ARCO stations also show a lower market share when looking at the OPIS counts versus the reported gallons sold. Unbranded stations are the most represented in the state which

important factors that drivers use to choose where to fill up. The <u>January</u> Petroleum Watch- PDF explored how being nearer to a highway usually implied relatively higher prices at retail stations (convenience over cost). Hypermarts have the lowest prices in California but are not close to the highways and have longer waiting times. The fact that they make up a larger portion of the gallon sales suggests that many drivers will sacrifice convenience if the cost is low enough. Branded fuel stations like Chevron, Shell, or 76 are more convenient. They are close to highways, located everywhere, and there are more of them. More information is at the California Retail Fuel Outlet Annual Reporting Results.

explains why their share averaged

over 30 percent for the last six years

using the OPIS station count method.

Convenience and price are the most

California are higher in the dark green areas on the map and tend to take place in the more densely populated counties. Gasoline station density, also indicated by dark green areas on the map, is more concentrated in those same counties with high gasoline sales. In 2019, there were 10,449 retail fuel stations operating in California. This is 659 more stations than in 2009, averaging a growth rate of 66 additional stations per year. The

Growth in Hypermarts shows a steady the past 10 years. Gasoline sales at average rate of 0.6 percent year over percent) between 2018 and 2019. The current number of hypermart stations remains low compared to total retail stations, making up 2.3 percent of retail fuel locations in California. While the number of hypermart stations remains low, gasoline sales at hypermarts in 2019 made up 14.6 percent of total gasoline sales. **Gavin Newsom** Governor

David Hochschild

Janea A. Scott, J.D

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Transportation Fuels Data Analysis Unit

Weekly Fuels Watch

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Vice Chair

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SPECIAL THANKS

method. Hypermarts' proportion of

Karen Douglas, J.D. J. Andrew McAllister, Ph.D. **Patty Monahan** Commissioners **Drew Bohan Executive Director California's Petroleum Market**

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