



California Retail Fuel Outlet Annual Reporting (CEC-A15) Results

The Petroleum Industry Information Reporting Act (PIIRA) requires all retail transportation fueling stations in California to file a Retail Fuel Outlet Annual Report (CEC-A15) with the California Energy Commission (CEC). These stations report retail sales of gasoline, diesel, and other transportation fuels.

TRANSPORTATION ENERGY

[California Gasoline Data, Facts, and Statistics](#)

California Retail Fuel Outlet Annual Reporting (CEC-A15) Results

[Diesel Fuel Data, Facts, and Statistics](#)

CONTACT

- A15 sales data represents nearly 86 percent of total gasoline consumed in California.
- A15 survey response totals will not reach 100 percent of estimated total consumption of gasoline from one year to the next due to various reasons.
 - Not all locations dispensing fuel to end-users are required to report sales to the CEC, estimated to be 5 to 8 percent of statewide totals.
 - Not all retail locations respond to the survey, estimated 2 to 5 percent of statewide volume.

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Number of Retail Fuel Stations by Fuel – Survey Responses

Reporting Year	Gasoline	Diesel ⁵	E85 ¹	Propane	Natural Gas ²	Total Stations Survey Responses*
2010	7,707	3,715	36	679	42	7,965
2011	8,036	3,942	42	809	48	8,343

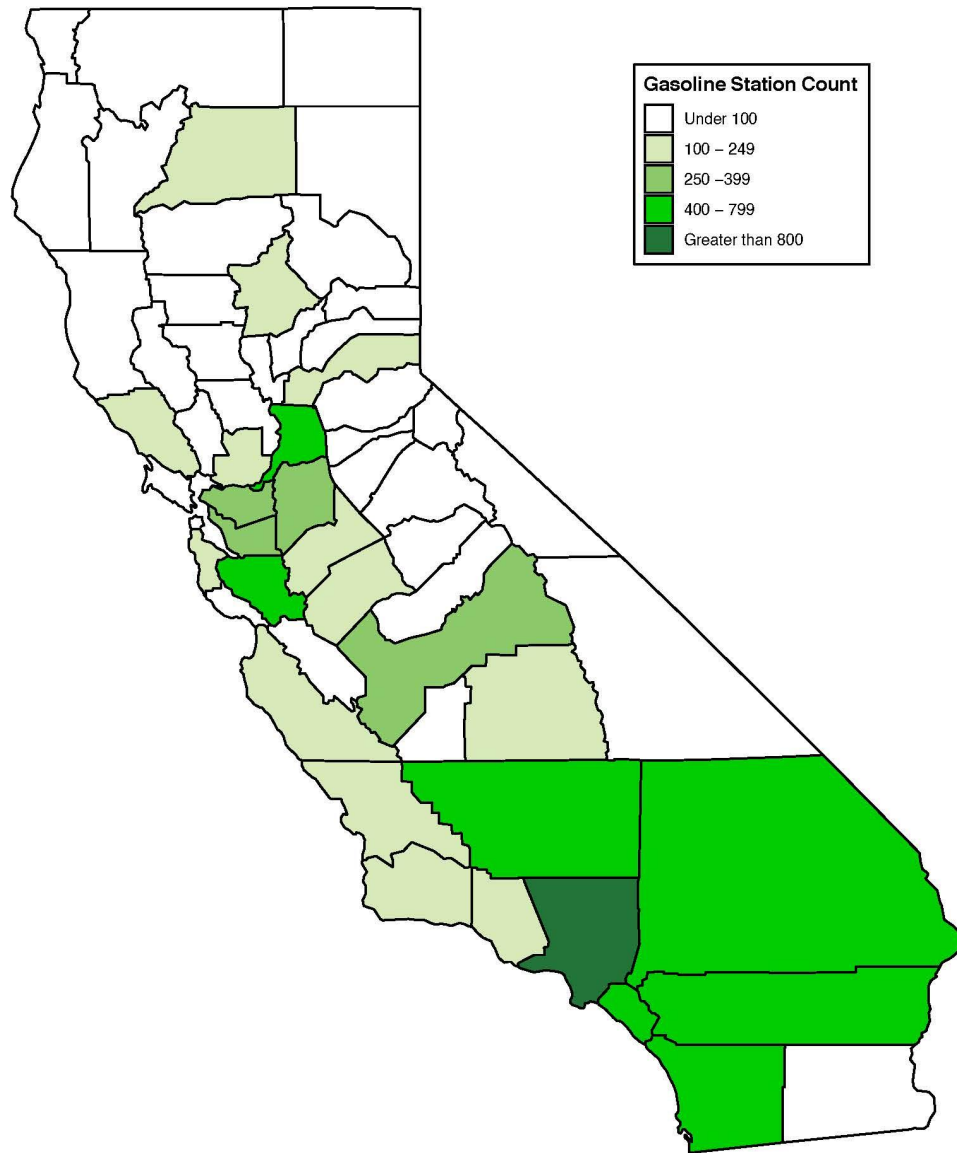
Reporting Year	Gasoline	Diesel ⁵	E85 ¹	Propane	Natural Gas ²	Total Stations Survey Responses*
2012	7,748	3,847	51	805	32	8,038
2013	7,044	3,579	59	699	46	7,293
2014	6,369	3,416	56	714	29	6,594
2015	7,240	4,095	81	573	139	7,516
2016	8,456	4,790	111	651	164	8,924
2017	8,353	4,854	127	349	142	8,872
2018	8,256	4,873	148	381	155	8,684
2019	8,269	4,958	181	301	121	8,713
2020	8,680	5,224	238	323	168	9,063
2021	7,997	4,966	287	307	164	8,435
2022	8,161	5,305	322	245	188	8,641

Reporting Year	Gasoline	Diesel ⁵	E85 ¹	Propane	Natural Gas ²	Total Stations Survey Responses*
2023	8,435	5,511	368	266	204	8,947

Source: California Energy Commission

*Stations by fuel type will not equal total respondents due to stations often dispensing multiple fuel types.

California 2023 Estimated Number of Stations by County



Retail Sales Volumes – Survey Responses (Million Gallons)

Reporting Year	Gasoline	Diesel	E85 ¹	Propane	Natural Gas ²
2010	12,238	1,285	2.00	32.64	4.09
2011	12,644	1,346	3.89	19.82	7.26
2012	12,241	1,327	5.12	25.44	6.60
2013	11,418	1,261	7.31	13.99	6.17
2014	10,220	1,226	4.99	18.23	3.94
2015	12,044	1,592	11.99	13.83	41.19
2016	13,787	1,743	16.85	9.09	45.16
2017	13,936	1,717	23.01	6.24	45.61
2018	13,578	1,602	32.04	4.04	37.82

Reporting Year	Gasoline	Diesel	E85 ¹	Propane	Natural Gas ²
2019	13,473	1,559	37.25	3.16	17.57
2020	11,262	1,560	34.86	3.51	41.1
2021	11,618	1,611	55.35	3.46	46.87
2022	11,495	1,846	91.45	2.49	52.97
2023	11,685	2,016	95.25	1.74	85.65

Source: California Energy Commission

A15 Report Responses vs. California Department of Tax and Fee Administration (CDTFA) (Million Gallons)

Reporting Year	CEC-A15 Reported Gasoline Volumes	% Differences	CDTFA ³ Gasoline Taxable	CEC-A15 Reported Diesel Volumes	CDTFA ⁴ Taxable Diesel Sales
2010	12,238	17.6 %	14,861	1,285	2,590
2011	12,644	13.4 %	14,606	1,346	2,622
2012	12,241	12.7 %	14,486	1,327	2,603
2013	11,394	21.6 %	14,540	1,261	2,740
2014	10,220	30.4 %	14,701	1,226	2,776
2015	12,044	20.3 %	15,108	1,592	2,825
2016	13,787	11.0 %	15,492	1,743	3,005
2017	13,936	10.6 %	15,584	1,717	3,124
2018	13,475	12.9 %	15,471	1,601	3,074
2019	13,473	12.3%	15,365	1,559	3,086
2020	11,262	10.4%	12,572	1,560	2,979

Reporting Year	CEC-A15 Reported		CDTFA ³ Gasoline Taxable	CEC-A15 Reported		CDTFA ⁴ Taxable Diesel Sales
	Gasoline Volumes	% Differences		Diesel Volumes		
2021	11,618	15.9%	13,818	1,611		3,141
2022	11,495	15.7%	13,640	1,846		3,067
2023	11,685	13.9%	13,576	2,016		2,982

Source: California Energy Commission

Note: CDTFA tracks all gasoline and diesel sales in California for taxation purposes, but accounts for those sales at the finished fuel terminal level where taxation first occurs. Because of this, CDTFA gasoline and diesel sales have no regional dimension available. The CEC-A15 tracks fuel sales at the retail level, station by station, but since the current number of stations is constantly changing and the full station population is unknown, staff uses the total known CDTFA gasoline and diesel sales figures as a benchmark to achieve in data collection efforts. Differences in these two figures estimate the amount of sales underreported in CEC-A15 results.

Gasoline Sale (Gallons)

- Under 11,000,000
- 11,000,001 - 28,000,000
- 28,000,001 - 72,000,000
- 72,000,001 - 217,000,000
- Greater Than 217,000,000

<https://www.energy.ca.gov/data-reports/energy-almanac/transportation-energy/california-retail-fuel-outlet-annual-reporting#notes>

Outlet Report Results (CEC-A15)

The following Excel file contains annual CEC-A15 results and analyses summarized in county level tables for station counts, gasoline sales, and diesel sales. Figures in the workbooks graphically display the gasoline sales and diesel sales tables.

- [2010-2023 CEC-A15 Results and Analysis](#)

A15 Survey Responses – Gasoline Sales (Million Gallons) By Municipality

The following Excel file is the total aggregated sales volume of gasoline at retail locations that completed the A15 survey by municipality and by year.

- [CEC-A15 Gasoline Sales by Cities](#)

Data does not represent total consumption of gasoline in a municipality due to:

- Missing sales volumes from non-retail locations not required to respond to the A15.

- Missing sales volumes from retail locations that did not respond to the A15 survey during a particular year.

A15 Top 30 Cities - Survey Responses

Gasoline Sales (Million Gallons)

Rank	City	2013	2014	2015	2016	2017	2018	2019
1	LOS ANGELES	513	462	490	578	597	553	551
2	SAN DIEGO	351	383	430	458	478	464	455
3	SACRAMENTO	255	174	256	279	284	264	279
4	SAN JOSE	279	218	287	324	319	298	311
5	BAKERSFIELD	179	169	181	221	217	205	204
6	FRESNO	144	108	154	185	192	176	159
7	RIVERSIDE	116	115	127	147	148	154	143
8	STOCKTON	97	80	95	109	109	102	107
9	ANAHEIM	106	96	115	136	135	129	121

Rank	City	2013	2014	2015	2016	2017	2018	2019
10	CHULA VISTA	86	79	103	111	108	112	105
11	SAN BERNARDINO	81	71	81	86	96	91	87
12	LONG BEACH	121	125	120	130	129	127	125
13	CORONA	108	110	111	112	122	110	113
14	FONTANA	77	75	78	97	94	91	98
15	MODESTO	66	70	96	103	107	102	89
16	ROSEVILLE	53	55	72	80	84	78	85
17	VICTORVILLE	53	53	60	71	67	67	66
18	FULLERTON	66	65	65	72	75	81	82
19	SAN FRANCISCO	118	71	107	120	120	105	107
20	TORRANCE	72	75	84	93	84	84	80

Rank	City	2013	2014	2015	2016	2017	2018	2019
21	SANTA ANA	72	81	81	85	84	83	86
22	ESCONDIDO	66	62	73	77	77	77	81
23	ONTARIO	78	76	70	110	98	92	84
24	OAKLAND	78	51	73	83	89	86	80
25	HAYWARD	55	54	56	67	65	64	67
26	OXNARD	65	64	69	72	80	85	81
27	MURRIETA	48	41	54	59	47	58	59
28	IRVINE	77	78	79	84	88	87	85
29	SANTA ROSA	76	60	70	83	83	75	76
30	TUSTIN	41	40	45	51	51	53	49

Source: California Energy Commission

Methodology for Estimating Stations and Sales

Using a statistical resampling methodology, staff estimates the total gasoline station population by matching gasoline sales reported by the California Department of Tax and Fee Administration (CDTFA). This is done by using a subset of the CEC-A15 reporting stations to estimate the characteristics of the missing fueling station population. Since large fueling retailer chains are easier to survey due to their visibility, the resampling is weighted toward smaller retailers as it is assumed they are the primary non-responders to this report.

¹ According to the Air Resources Board (ARB), E-85 dispensed, in California, averages 83 percent ethanol and 17 percent gasoline.

² Natural Gas survey responses are measured in Gasoline Gallon Equivalent (GGE).

³ Source: California Energy Commission (CEC) analysis of California Department of Tax and Fee Administration (CDTFA) taxable gasoline figures.

⁴ Source: CDTFA taxable diesel figures which include taxable retail sales and taxable non-retail sales.

⁵ The California Energy Commission including all diesel blend, biodiesel, and renewable diesel as diesel product starting reporting year 2022.

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