# **California Auto Outlook**<sup>™</sup>

**Comprehensive Information on the California Vehicle Market** 

Volume 19, Number 4 Released October 2023

**Covering Third Quarter 2023** 



# New Vehicle Market Predicted to Trend Higher During Next Two Years



Historical Data sourced from Experian Automotive. \*2023 and 2024 forecasts by Auto Outlook. Historical figures have been updated since the previous release.

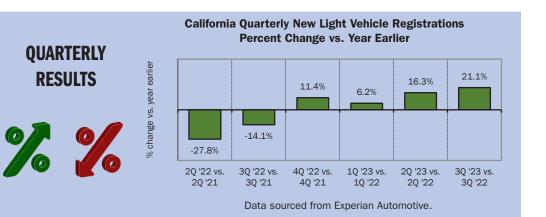
# TWO YEAR PERSPECTIVE



#### California and U.S New Light Vehicle Registrations YTD '22 and YTD '23 thru September

	(	California		U.S.			
	YTD '22	YTD '23	Change	YTD '22	YTD '23	Change	
Registrations							
TOTAL	1,184,367	1,354,302	14.3%	10,013,566	11,345,445	13.3%	
Car	376,104	420,250	11.7%	2,089,764	2,349,850	12.4%	
Light Truck	808,263	934,052	15.6%	7,923,802	8,995,595	13.5%	
Domestic	419,913	501,437	19.4%	4,403,612	4,982,736	13.2%	
European	179,691	199,775	11.2%	1,045,724	1,129,567	8.0%	
Japanese	473,657	523,054	10.4%	3,517,342	4,008,425	14.0%	
Korean	111,106	130,036	17.0%	1,046,888	1,224,717	17.0%	
Market Share							
Car	31.8	31.0	-0.8	20.9	20.7	-0.2	
Light Truck	68.2	69.0	0.8	79.1	79.3	0.2	
Domestic	35.5	37.0	1.5	44.0	43.9	-0.1	
European	15.2	14.8	-0.4	10.4	10.0	-0.4	
Japanese	40.1	38.6	-1.5	35.1	35.3	0.2	
Korean	9.4	9.6	0.2	10.5	10.8	0.3	

Data sourced from Experian Automotive.



KEY TRENDS IN NEW VEHICLE MARKET

Key factor boosting state new vehicle market: Pent-up demand is growing. New vehicle registrations since the onset of the pandemic have been well below average. Although sales recovered from the low-point of the recession in 2009, it took several years for the market to rebound. Pent-up demand that accrued between 2009 and 2015 had barely been released before the pandemic and ensuing supply chain issues boosted the total again. Pent-up demand will support new vehicle sales for several years.

Key factors holding back state new vehicle market: higher interest rates are leading to weakening consumer affordability, soft landing for the economy is not guaranteed, excess household savings built up during the pandemic have been depleted, and if the UAW strike lingers, sales could be impacted.

Forecast summary: pent-up demand will provide momentum for the new vehicle market over the next 15 months, while the negative factors will place a ceiling on how high sales can go. State new retail light vehicle registrations are predicted to reach 1.8 million units for all of this year and increase 13.7 percent from 2022. Preliminary projection for 2024: 1.88 million units, up 4.3 percent from this year.

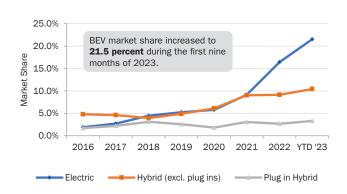
New light vehicle registrations in California increased 14.3 percent during the first nine months of this year versus the year earlier, higher than the 13.3 percent improvement in the Nation.

As expected, the pace of improvement accelerated in the Third Quarter of this year with registrations increasing 21.1 percent versus depressed yearearlier levels.

# **Vehicle Powertrain Dashboard**

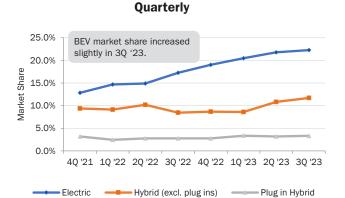


## Hybrid and Electric Vehicle Market Share



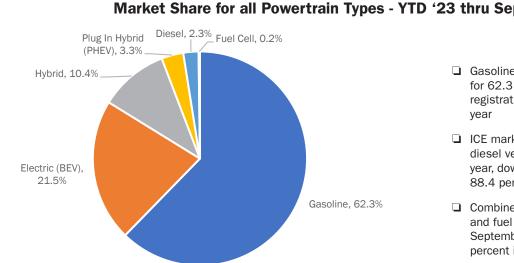
**Annual and Year-to-date** 

Annual Registrations and Market Share										
	2019	2020	2021	2022	YTD '23					
Electric registrations	99048	92396	161863	260702	291518					
Electric share	5.2%	5.8%	9.1%	16.4%	21.5%					
Hybrid regs. (excl. plug ins)	92282	97938	160209	144803	140948					
Hybrid share (excl. plug ins)	4.9%	6.1%	9.0%	9.1%	10.4%					
Plug in hybrid regs.	48360	29152	54413	42582	44630					
Plug in hybrid share	2.6%	1.8%	3.1%	2.7%	3.3%					



Quarterly Registrations and Market Share										
	3Q '22	4Q '22	1Q '23	2Q '23	3Q '23					
Electric registrations	64332	76508	87860	103061	100597					
Electric share	17.2%	19.0%	20.5%	21.8%	22.3%					
Hybrid regs. (excl. plug ins)	31500	34849	36844	51257	52847					
Hybrid share (excl. plug ins)	8.4%	8.7%	8.6%	10.8%	11.7%					
Plug in hybrid regs.	10332	11109	14382	15155	15093					
Plug in hybrid share	2.8%	2.8%	3.4%	3.2%	3.3%					

Data sourced from Experian Automotive. Hybrid vehicle registrations and market share excludes mild hybrids.



## Market Share for all Powertrain Types - YTD '23 thru September

- Gasoline powered vehicles accounted for 62.3 percent of state new vehicle registrations in the first nine months of this
- □ ICE market share (including gasoline and diesel vehicles) was 64.6 percent so far this year, down from 71.6 percent in 2022 and 88.4 percent in 2018.
- □ Combined share for BEVs, PHEVs, hybrids, and fuel cell vehicles was 35.4 percent thru September of this year, up from just 11.6 percent in 2018.

Data sourced from Experian Automotive. Hybrid vehicle registrations and market share excludes mild hybrids.



Data sourced from Experian Automotive.

## California and U.S. Markets







# **Vehicle Powertrain Dashboard**



California New Battery Electric Vehicle Registrations by Make								
	YT	D 2022 and 2	2023 thru Se	ptember				
	R	egistrations		Mar	ket Share (%	)		
	YTD '22	YTD '23	% Change	YTD '22	YTD '23	Change		
TOTAL	184,194	291,518	58.3					
Audi	3,975	5,443	36.9	2.2	1.9	-0.3		
BMW	2,280	10,862	376.4	1.2	3.7	2.5		
Cadillac	8	948	11750.0	0.0	0.3	0.3		
Chevrolet	5,642	15,152	168.6	3.1	5.2	2.1		
Ford	8,187	11,107	35.7	4.4	3.8	-0.6		
Genesis	507	1,051	107.3	0.3	0.4	0.1		
GMC	102	55	-46.1	0.1	0.0	-0.1		
Hyundai	7,491	12,717	69.8	4.1	4.4	0.3		
Jaguar	72	41	-43.1	0.0	0.0	0.0		
Kia	6,107	6,511	6.6	3.3	2.2	-1.1		
Lexus	0	873		0.0	0.3	0.3		
Mazda	357	98	-72.5	0.2	0.0	-0.2		
Mercedes	2,285	10,999	381.4	1.2	3.8	2.6		
MINI	828	596	-28.0	0.4	0.2	-0.2		
Nissan	2,828	3,292	16.4	1.5	1.1	-0.4		
Other	644	2,032	215.5	0.3	0.7	0.4		
Polestar	2,011	2,797	39.1	1.1	1.0	-0.1		
Porsche	2,013	1,809	-10.1	1.1	0.6	-0.5		
Rivian	2,435	6,740	176.8	1.3	2.3	1.0		
Subaru	0	1,320		0.0	0.5	0.5		
Tesla	132,309	183,278	38.5	71.8	62.9	-8.9		
Toyota	203	2,430	1097.0	0.1	0.8	0.7		
Volkswagen	2,785	8,921	220.3	1.5	3.1	1.6		
Volvo	1,125	2,446	117.4	0.6	0.8	0.2		

BEVs are full battery electric vehicles. PHEVs are plug in hybrids.

Data sourced from Experian Automotive.

## Make and Model Registrations for BEVs and PHEVs in California



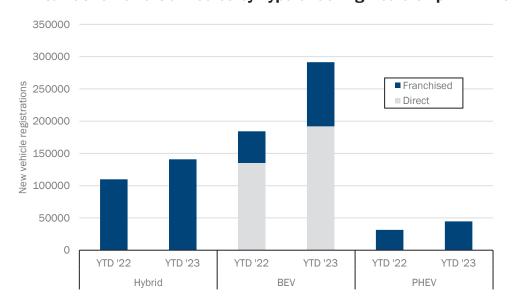
Top Ten Selling PHEV Makes - YTD '23 thru September Registrations and market share



### Top 15 Selling BEV and PHEV Models - YTD '23 thru September

Rank	Model	Туре	Regs.
1	Tesla Model Y	BEV	106,398
2	Tesla Model 3	BEV	66,698
3	Chevrolet Bolt	BEV	15,151
4	Jeep Wrangler	PHEV	10,175
5	Volkswagen ID.4	BEV	8,921
6	Ford Mustang Mach-E	BEV	7,972
7	Hyundai Ioniq 5	BEV	7,209
8	BMW i4	BEV	7,107
9	Tesla Model X	BEV	7,032
10	Toyota RAV4	PHEV	4,822
11	Rivian R1S	BEV	3,832
12	Kia Niro	BEV	3,395
13	Chrysler Pacifica	PHEV	3,338
14	BMW iX	BEV	3,307
15	Tesla Model S	BEV	3,150

# Alternative Powertrain Sales by Type of Selling Dealership - YTD 2022 and 2023 thru September



- The graph on the left shows new vehicle registrations for Hybrids, BEVs, and PHEVs broken down by type of selling dealership. Franchised dealerships accounted for more than **59 percent** of combined sales for all three alternative powertrain types.
- Franchised dealership share of the BEV only market increased to 34.1 percent in the first nine months of this year.
- Sales of BEVs at franchised dealerships have increased
  **103 percent** during the first nine months of 2023 versus year earlier, compared to the **42** percent increase for direct sellers.

Data sourced from Experian Automotive.

# Tesla Model Y Retains Top Spot in California New Vehicle Market

The table below shows the top five selling models during the first nine months of 2023 in 18 segments. In addition to unit registrations, it also shows each model's market share in its respective segment.



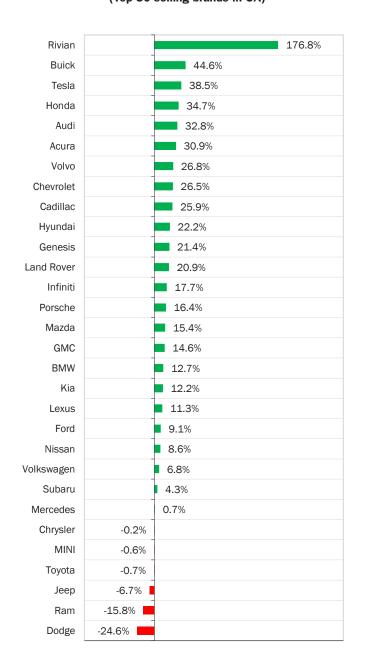
Small Cars: Honda Civic Mid-Size and Large Cars: Toyota Camry Near Luxury Cars: Tesla Model 3 Comp./Mid Size Pickup: Toyota Tacoma Full Size Pickup: Ford F-Series Compact SUV: Toyota RAV4 3 Row Mid-Size SUV: Toyota Highlander Luxury Compact SUV: Tesla Model Y

	Top S	Selling	Models in Each Segmen	t - New	Retail I	ight Vehicle Registra	tions (YTD 202	3 thru September)		
Small Cars		Mid Size and Large Cars			Sports/Pon	y Cars	Near Luxury	Near Luxury Cars		
Model	Regs.	Share	Model	Regs.	Share	Model	Regs. Share	Model	Regs.	Share
Honda Civic	31076	21.9	Toyota Camry	39293	37.9	Ford Mustang	4603 31.8	Tesla Model 3	66698	53.2
Toyota Corolla	26867	18.9	Honda Accord	31092	30.0	Dodge Challenger	2837 19.6	BMW i4	7107	5.7
Kia Forte	17424	12.3	Nissan Altima	7297	7.0	Chevrolet Camaro	2372 16.4	Lexus ES	6413	5.1
Chevrolet Bolt	15151	10.7	Chevrolet Malibu	7225	7.0	Toyota 86	1839 12.7	Mercedes C-Class	6061	4.8
Hyundai Elantra	11430	8.1	Dodge Charger	4683	4.5	Mazda MX5	1384 9.6	BMW 3-Series	5327	4.3
Luxury and High End	Sports	Cars	Compact/Mid Size	e Pickup		Full Size Pi	•	Mini Va		
Model	Regs.	Share	Model	Regs.	Share	Model	Regs. Share			Share
BMW 5-Series	4473	12.9	Toyota Tacoma	27788	48.6	Ford F-Series	32090 30.1	Toyota Sienna	6364	33.8
Tesla Model S	3150	9.1	Ford Maverick	7450	13.0	Chevrolet Silverado	27945 26.2	Honda Odyssey	5729	30.4
Mercedes S-Class	2910	8.4	Chevrolet Colorado	4691	8.2	Ram Pickup	16835 15.8	Chrysler Pacifica	4425	23.5
Mercedes EQS Sedar	2688	7.7	Nissan Frontier	4388	7.7	GMC Sierra	15193 14.3	Kia Carnival	2051	10.9
Chevrolet Corvette	2227	6.4	Ford Ranger	3433	6.0	Toyota Tundra	8911 8.4	Chrysler Voyager	268	1.4
Large Va	n		Subcompact SUV		Compact		2 Row Mid Si	2 Row Mid Size SUV		
Model	Regs.	Share	Model	Regs.	Share	Model	Regs. Share			Share
Ford Transit Connect	7657	35.5	Honda HR-V	15627	17.5	Toyota RAV4	40622 20.3	Subaru Outback	12124	21.5
Mercedes Sprinter	5396	25.0	Subaru Crosstrek	13225	14.9	Honda CR-V	30574 15.3	Ford Mustang Mach-E	7972	14.1
Ram Promaster	4788	22.2	Kia Niro	8510	9.6	Jeep Wrangler	14940 7.5	Toyota 4Runner	7556	13.4
Chevrolet Express	1097	5.1	Hyundai Kona	6715	7.5	Nissan Rogue	13732 6.9	Jeep Grand Cherokee	6455	11.4
Ford E-Series	1051	4.9	Chevrolet TrailBlazer	6428	7.2	Hyundai Tucson	11383 5.7	Hyundai Santa Fe	6103	10.8
3 Row Mid Siz	ze SUV		Large SUV	Large SUV		Luxury Subcompact SUV		Luxury Compa	Luxury Compact SUV	
Model	Regs.	Share	Model	Regs.	Share	Model	Regs. Share	Model	Regs.	Share
Toyota Highlander	16096	18.8	Ford Bronco	8607	31.2	Audi Q3	2830 16.4	Tesla Model Y	106398	66.8
Ford Explorer	11288	13.2	Chevrolet Tahoe	5507	20.0	Mercedes GLA-Class	2705 15.7	Lexus NX	10413	6.5
Honda Pilot	9555	11.1	Chevrolet Suburban	3077	11.2	Lexus UX	2537 14.7	Audi Q5	8815	5.5
Chevrolet Traverse	6967	8.1	Ford Expedition	2617	9.5	Volvo XC40	2336 13.6	BMW X3	5600	3.5
Kia Sorento	6901	8.0	GMC Yukon	2309	8.4	Audi Q4 E-Tron	2082 12.1	Porsche Macan	4901	3.1
Luxury Mid Siz	Luxury Mid Size SUV		Luxury Large	SUV		Top Selling Passenger Cars		Top Selling Light Trucks		
Model	Regs.	Share	Model	Regs.	Share	Model	Regs. Share	Model	Regs.	Share
Lexus RX	12904	18.0	Rivian R1S	3832	16.9	Tesla Model 3	66698 15.9	Tesla Model Y	106398	11.4
Mercedes GLE-Class	7523	10.5	Cadillac Escalade	3344	14.7	Toyota Camry	39293 9.3	Toyota RAV4	40622	4.3
BMW X5	7129	9.9	Mercedes EQS SUV	2939	12.9	Honda Accord	31092 7.4	Ford F-Series	32090	3.4
Tesla Model X	7032	9.8	Land Rover Range Rover	2786	12.3	Honda Civic	31076 7.4	Honda CR-V	30574	3.3
Acura MDX	4503	6.3	BMW X7	2617	11.5	Toyota Corolla	26867 6.4	Chevrolet Silverado	27945	3.0

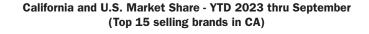
## **BEST SELLERS IN PRIMARY SEGMENTS**

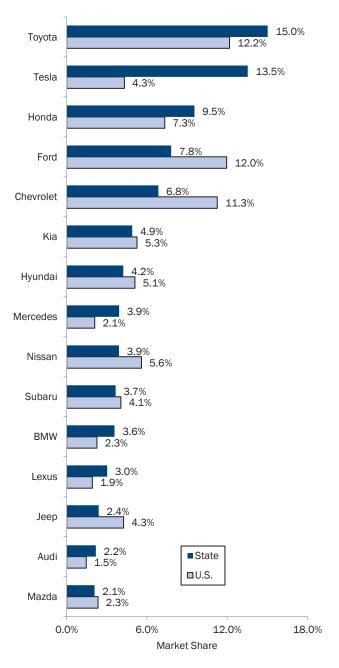
#### **BRAND SUMMARY**

## **Registrations Increased by More Than 20 Percent for 12 Brands; Toyota is Best-Seller**



### Percent Change in Brand Registrations YTD 2023 thru September vs. YTD 2022 (Top 30 selling brands in CA)







Registrations increased by more than 20 percent for Rivian, Buick, Tesla, Honda, Audi, Acura, Volvo, Chevrolet, Cadillac, Hyundai, Genesis, and Land Rover.



Toyota, Tesla, Honda, Ford, and Chevrolet were market share leaders in California during the first nine months of this year.

## **Detailed Results for All Brands in California Market**

			Californ	nia New C	ar and L	ight Tı.	ruck Reg	istration	S			
			Third Q	uarter		Year to date thru September						
		egistrations			ket Share (%	5)		Registrations			ket Share (%	6)
	3Q '22	3Q '23	% Change	3Q '22	3Q '23	Change	YTD '22	YTD '23	% Change	YTD '22	YTD '23	Change
TOTAL	373,175	451,889	21.1				1,184,367	1,354,302	14.3			
Acura	2,276	3,982	75.0	0.6	0.9	0.3	9,034	11,828	30.9	0.8	0.9	0.1
Alfa Romeo	488	326	-33.2	0.1	0.1	0.0	1,428	958	-32.9	0.1	0.1	0.0
Audi	7,119	10,110	42.0	1.9	2.2	0.3	22,212	29,491	32.8	1.9	2.2	0.3
BMW	13,353	14,925	11.8	3.6	3.3	-0.3	42,978	48,455	12.7	3.6	3.6	0.0
Buick	657	1,092	66.2	0.2	0.2	0.0	2,344	3,390	44.6	0.2	0.3	0.1
Cadillac	2,527	2,931	16.0	0.7	0.6	-0.1	7,202	9,065	25.9	0.6	0.7	0.1
Chevrolet	26,955	30,142	11.8	7.2	6.7	-0.5	73,318	92,769	26.5	6.2	6.8	0.6
Chrysler	1,744	2,121	21.6	0.5	0.5	0.0	5,337	5,328	-0.2	0.5	0.4	-0.1
Dodge	5,180	3,486	-32.7	1.4	0.8	-0.6	13,159	9,917	-24.6	1.1	0.7	-0.4
Ford	28,414	33,439	17.7	7.6	7.4	-0.2	97,014	105,831	9.1	8.2	7.8	-0.4
Genesis	2,018	1,932	-4.3	0.5	0.4	-0.1	5,095	6,185	21.4	0.4	0.5	0.1
GMC	7,645	8,316	8.8	2.0	1.8	-0.2	22,844	26,184	14.6	1.9	1.9	0.0
Honda	23,942	45,080	88.3	6.4	10.0	3.6	96,008	129,312	34.7	8.1	9.5	1.4
Hyundai	16,399	19,905	21.4	4.4	4.4	0.0	46,892	57,282	22.2	4.0	4.2	0.2
Infiniti	967	1,511	56.3	0.3	0.3	0.0	3,514	4,136	17.7	0.3	0.3	0.0
Jaguar	313	293	-6.4	0.1	0.1	0.0	1,073	933	-13.0	0.1	0.1	0.0
Jeep	11,199	9,466	-15.5	3.0	2.1	-0.9	34,704	32,387	-6.7	2.9	2.4	-0.5
Kia	21,530	23,037	7.0	5.8	5.1	-0.7	59,119	66,355	12.2	5.0	4.9	-0.1
Land Rover	1,823	2,528	38.7	0.5	0.6	0.1	7,209	8,715	20.9	0.6	0.6	0.0
Lexus	12,567	14,387	14.5	3.4	3.2	-0.2	36,746	40,914	11.3	3.1	3.0	-0.1
Lincoln	908	896	-1.3	0.2	0.2	0.0	2,906	3,103	6.8	0.2	0.2	0.0
Maserati	233	294	26.2	0.1	0.1	0.0	882	715	-18.9	0.1	0.1	0.0
Mazda	6,857	9,357	36.5	1.8	2.1	0.3	24,415	28,187	15.4	2.1	2.1	0.0
Mercedes	18,186	16,982	-6.6	4.9	3.8	-1.1	52,641	53,019	0.7	4.4	3.9	-0.5
MINI	1,339	1,151	-14.0	0.4	0.3	-0.1	3,635	3,614	-0.6	0.3	0.3	0.0
Mitsubishi	617	1,005	62.9	0.2	0.2	0.0	2,905	2,809	-3.3	0.2	0.2	0.0
Nissan	13,093	17,476	33.5	3.5	3.9	0.4	48,782	52,963	8.6	4.1	3.9	-0.2
Polestar	513	241	-53.0	0.1	0.1	0.0	2,057	2,800	36.1	0.2	0.2	0.0
Porsche	3,522	4,337	23.1	0.9	1.0	0.1	11,174	13,012	16.4	0.9	1.0	0.1
Ram	8,177	7,277	-11.0	2.2	1.6	-0.6	25,685	21,623	-15.8	2.2	1.6	-0.6
Rivian	1,119	2,825	152.5	0.3	0.6	0.3	2,435	6,740	176.8	0.2	0.5	0.3
Subaru	15,593	16,735	7.3	4.2	3.7	-0.5	47,465	49,487	4.3	4.0	3.7	-0.3
Tesla	41,991	60,061	43.0	11.3	13.3	2.0	132,309	183,278	38.5	11.2	13.5	2.3
Toyota	62,167	70,314	13.1	16.7	15.6	-1.1	204,788	203,418	-0.7	17.3	15.0	-2.3
Volkswagen	8,634	8,640	0.1	2.3	1.9	-0.4	23,997	25,634	6.8	2.0	1.9	-0.1
Volvo	2,163	3,904	80.5	0.6	0.9	0.3	-	10,470	26.8	0.7	0.8	0.1
Other	947	1,385	46.3	0.3	0.3	0.0	,	3,995	42.4	0.2	0.3	0.1
Data sourced from	-	,		0.0	0.0	0.0	_,000	0,000		0.2	0.0	0.1

The table above shows new light vehicle (car and light truck) registrations in California. Figures are shown for the Third Quarters of 2022 and 2023, and year to date totals. Vehicle registrations are recorded based on when the vehicle title information is processed by the state, which typically occurs after the vehicle is sold. The top ten ranked brands in each category are shaded yellow. Historical figures have been updated since the previous release.

#### **California Auto Outlook**

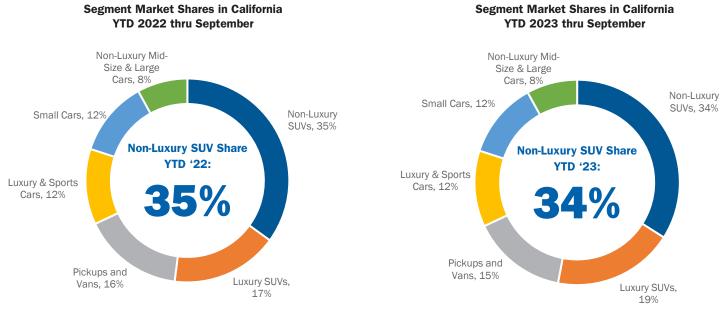
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#### SEGMENT MARKET SHARE TRENDS

## SUVs Accounted for 53% of California Market So Far This Year



The two graphs above show market shares for primary segments during the first nine months of 2022 and 2023. Data sourced from Experian Automotive.

#### **REGIONAL MARKETS IN CALIFORNIA**

## Northern California New Retail Market Posted Larger Increase During First Nine Months of 2023 San Francisco Bay Market Increased by 17.6 percent

New Retail Light Vehicle Reg	istrations (exclu	ding fleets) YTI	D thru Sept.
North and South California	YTD '22	YTD '23	% chg.
Statewide Total	1,075,792	1,193,167	10.9%
Cars	340,801	373,341	9.5%
Light Trucks	734,991	819,826	11.5%
Northern California	366,564	413,308	12.8%
Cars	108,860	120,928	11.1%
Light Trucks	257,704	292,380	13.5%
Southern California	709,228	779,859	10.0%
Cars	231,941	252,413	8.8%
Light Trucks	477,287	527,446	10.5%
Selected Regional Markets			
San Francisco Bay	197,810	232,583	17.6%
Cars	62,573	71,822	14.8%
Light Trucks	135,237	160,761	18.9%
LA and Orange Counties	400,937	449,673	12.2%
Cars	136,838	150,427	9.9%
Light Trucks	264,099	299,246	13.3%
San Diego County	98,823	107,924	9.2%
Cars	28,474	30,946	8.7%
Light Trucks	70,349	76,978	9.4%

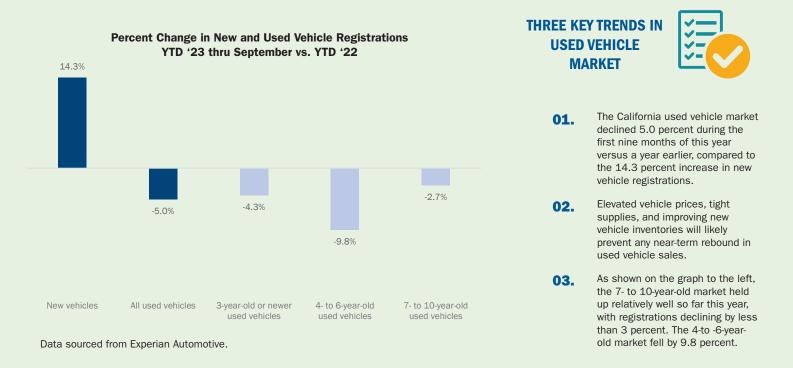
Percent Change in New Retail Registrations - YTD '23 vs. YTD '22



Data sourced from Experian Automotive.

#### CALIFORNIA USED VEHICLE MARKET

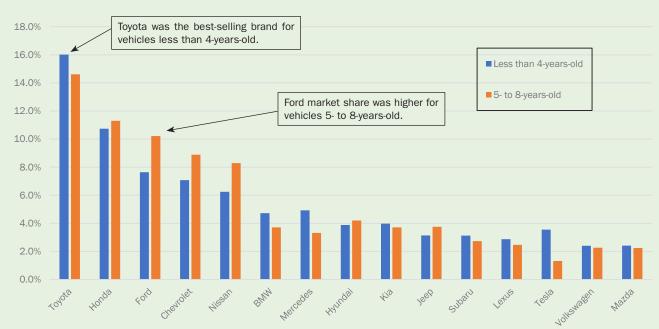
## **California Used Vehicle Market Moves Lower**



#### **USED VEHICLE BRAND MARKET SHARE**

## Toyota is Top Seller in California Used Vehicle Market

The graph below shows used light vehicle registrations by brand for two age categories: vehicles less than 4-years-old and vehicles 5- to 8-years-old. Brands are positioned from left to right based on overall market share.



### Brand Market Share for Top 15 Selling Brands, by Vehicle Age (YTD '23 thru September)

Data sourced from Experian Automotive.