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Colorado Auto Outlook

Coverage of the Colorado new and used vehicle markets

Colorado Automobile Dealers Association

FORECAST

New Vehicle Market Predicted to Trend Higher During Next Two Years



Key factors boosting new vehicle sales

Pent-up demand is growing. New vehicle registrations since the onset of the pandemic have been well below average. And although sales recovered from the low point of the recession in 2009, it took several years for the market to rebound. The 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.

Employment and household incomes are strong. As mentioned on the right, recession is still a possibility and affordability has weakened, but the unemployment rate is low and wage growth is steady.

Impressive array of new products. Today's new vehicles offer significant improvements compared to the average 10 year old car. Aside from the fact that their current vehicle may be wearing out, advances in safety features, performance, alternative powertrains, and infotainment are all factors luring shoppers into dealerships.



Key factors holding back new vehicle sales

Interest rates are high. The prime interest rate has increased by more than five points during the past three years, placing significant upward pressure on vehicle loan and lease payments.

Vehicle prices are high. Average transaction prices moved higher last year due to supply chain issues, inflationary pressures, and higher vehicle content. Escalating prices and higher rates have weakened vehicle affordability, which will be an issue holding back sales.

Soft landing not guaranteed. Most economists expect growth to remain positive despite higher interest rates, but this is not a sure thing. The economy is essentially at break even right now, and it wouldn't take much to push it to recession.

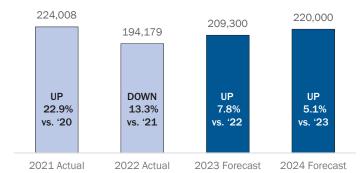
Other threats. After being put on hold since the pandemic hit in March of 2020, student loan payments are restarting, gas prices are high, excess household savings have been depleted, and if the UAW strike lingers, sales could be impacted.

Key Trends in Colorado Market



- » 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 increase 7.8% this year and 5.1% in 2024.
- » Registrations approached 56,000 units in the Third Quarter of this year and increased 17.3% versus depressed yearearlier levels.
- » Battery electric vehicles accounted for 11.2% of the market in the first nine months of this year, up from 7.8% last year. BEV share increased from the Second to the Third Quarter of 2023, (see page 4).
- » Rivian, Buick, Land Rover, Tesla, and Mazda had the largest percentage increases so far this year.

Forecast for State New Retail Light Vehicle Registrations



The graph above shows annual new retail light vehicle registrations in 2021 and 2022 and Auto Outlook's projections for 2023 and 2024. Historical data sourced from Experian Automotive.

Market Summary

	YTD '22	YTD '23	% Chg.	Mkt. Share
	Sept.	Sept.	'22 to '23	YTD '23
TOTAL	146,441	154,465	5.5%	
Car	19,308	19,264	-0.2%	12.5%
Light Truck	127,133	135,201	6.3%	87.5%
Domestic	56,724	59,054	4.1%	38.2%
European	17,383	17,057	-1.9%	11.0%
Japanese	55,801	60,849	9.0%	39.4%
Korean	16,533	17,505	5.9%	11.3%

Domestics consist of vehicles sold by GM, Ford, Stellantis (excluding Alfa Romeo and FIAT), Tesla, Rivian, and Lucid. Data sourced from Experian Automotive.

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Colorado New Vehicle Market Dashboard









COLORADO MARKET VS. U.S.

% Change In New Retail Market YTD 2023 thru September vs. YTD 2022

Colorado

UP 5.5%

U.S.

UP 7.0%

New retail light vehicle registrations in the state increased by 5.5% during the first nine months of this year, slightly below the 7.0% improvement in the Nation.

Data sourced from Experian Automotive.



TRACKING ECONOMIC INDICATORS

Monthly Unemployment Rates in Colorado

AUGUST 2022

| SO | MO | TO | WE | TH | TR | 54





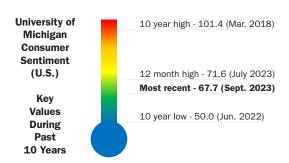
Average Hourly Earnings for All Workers in State - Aug. 2023



\$35.90

Up \$1.79 vs. year earlier

The state unemployment rate was 3.1% in August of this year. Wages were up slightly versus year earlier. Consumer sentiment remains subdued, while GDP growth has stayed positive during the past four quarters.



Percent
Change in
U.S.
Gross
Domestic
Product
Change
vs. previous

quarter



Sources: Bureau of Labor Statistics, University of Michigan, and U.S. Bureau of Econ. Analysis.

At Auto Outlook, we strive to provide sound and accurate analyses and forecasts based upon the data available to us. However, our forecasts are derived from third-party data and contain a number of assumptions made by Auto Outlook and its management, including, without limitation, the accuracy of the data compiled. As a result, Auto Outlook can make no representation or warranty with respect to the accuracy or completeness of the data we provide or the forecasts or projections that we make based upon such data. Auto Outlook expressly disclaims any such warranties, and undue reliance should not be placed on any such data, forecasts, projections, or predictions. Auto Outlook undertakes no obligation to update or revise any predictions or forecasts, whether as a result of any new data, the occurrence of future events, or otherwise.

Colorado Auto Outlook

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Colorado New Vehicle Market Dashboard



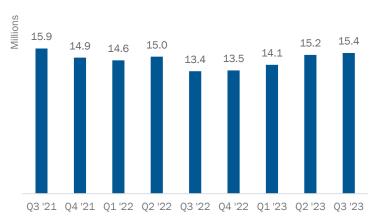






MARKET PERFORMANCE DURING PAST TWO YEARS

Colorado
Quarterly Registrations
Seasonally Adjusted
Annual Rate, Converted
to Equivalent U.S. New
Vehicle Market SAAR
(millions of units)



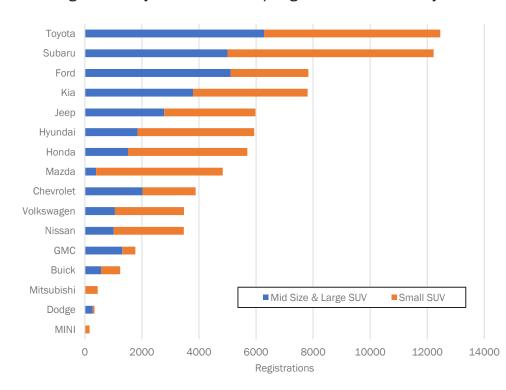
Data sourced from Experian Automotive. SAAR estimates: Auto Outlook.

The graph on the left provides an easily recognizable way to gauge the strength of the state market. It shows quarterly registrations based on a seasonally adjusted annual rate. These figures are then indexed to SAAR sales figures for the U.S. new vehicle market. So just like in the national market, when the quarterly SAAR is above 17 million units, the state market is strong, 15 million is about average, and below 13 million is weak. Equivalent SAAR levels in the state increased from 15.2 million in the Second Quarter of this year to 15.4 million in the Third Quarter.



NON LUXURY BRAND SUV RANKINGS

New Registrations by Brand for Mid Size/Large and Small Non Luxury SUVs in State Market - YTD '23 thru September



SUV Shares For Each Brand								
Brand	% Small SUV	% Mid & Large SUV						
Toyota	50%	50%						
Subaru	59%	41%						
Ford	35%	65%						
Kia	51%	49%						
Jeep	53%	47%						
Hyundai	69%	31%						
Honda	73%	27%						
Mazda	92%	8%						
Chevrolet	48%	52%						
Volkswagen	70%	30%						
Nissan	71%	29%						
GMC	26%	74%						
Buick	54%	46%						
Mitsubishi	100%	0%						
Dodge	18%	82%						
MINI	100%	0%						

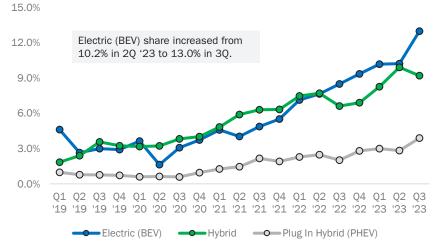
The graph shows registrations by brand for Mid Size/Large SUVs (blue bar) and Small SUVs (orange bar). Table shows the percentage breakdown for each brand. Toyota was the best-selling non luxury SUV brand, with Small SUV registrations accounting for 50% of total. Data sourced from Experian Automotive.

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Vehicle Powertrain Dashboard



Quarterly Alternative Powertrain Market Share (includes hybrid and electric vehicles)

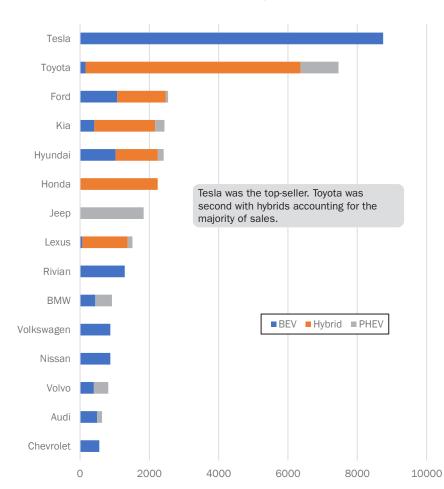


YTD Share by Engine Type (2022 and 2023, thru Sept.)

	Regis	strations	Market Share				
	YTD '22	YTD '23	YTD '22	YTD '23			
Hybrid	10648	14134	7.3%	9.2%			
Electric (BEV)	11353	17310	7.8%	11.2%			
Plug In Hybrid (PHEV)	3319	5045	2.3%	3.3%			

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

Alternative Powertrain Registrations in Colorado by Brand YTD 2023 thru September



Market Share for Top 25 Selling BEVs, PHEVs, and Hybrids YTD '23 thru September

Model	Туре	Mkt. Share
Tesla Model Y	BEV	18.0%
Toyota RAV4	Hybrid	6.6%
Honda CR-V	Hybrid	4.9%
Tesla Model 3	BEV	4.6%
Jeep Wrangler	PHEV	3.0%
Kia Sportage	Hybrid	2.7%
Toyota RAV4	PHEV	2.7%
Toyota Highlander	Hybrid	2.4%
Ford F-Series	Hybrid	2.4%
Volkswagen ID.4	BEV	2.4%
Lexus RX	Hybrid	2.2%
Rivian R1S	BEV	2.1%
Hyundai Ioniq 5	BEV	2.0%
Hyundai Tucson	Hybrid	2.0%
Jeep Grand Cherokee	PHEV	2.0%
Ford Mustang Mach-E	BEV	1.9%
Chevrolet Bolt	BEV	1.5%
Rivian R1T	BEV	1.4%
Toyota Tundra	Hybrid	1.4%
Kia Sorento	Hybrid	1.4%
Toyota Sienna	Hybrid	1.3%
Toyota Sequoia	Hybrid	1.3%
Honda Accord	Hybrid	1.3%
Nissan Leaf	BEV	1.2%
Nissan Ariya	BEV	1.2%

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

Brand Registrations Report Colorado New Retail Car and Light Truck Registrations												
Third Quarter									YTD thru S			
		egistrations			et Share (%	,	Registrations			ket Share (%		
TOTAL	3Q '22	3Q '23		30 '22	3Q '23	Change	YTD '22	YTD '23	% change	YTD '22	YTD '23	Change
TOTAL	47,723	55,959	17.3				146,441	154,465	5.5			
Cars	6,200	7,151	15.3	13.0	12.8	-0.2	19,308	19,264	-0.2	13.2	12.5	-0.7
Light Trucks	41,523	48,808	17.5	87.0	87.2	0.2	127,133	135,201	6.3	86.8	87.5	0.7
Domestic Brands	18,759	21,100	12.5	39.3	37.7	-1.6	56,724	59,054	4.1	38.7	38.2	-0.5
European Brands	5,627	6,168	9.6	11.8	11.0	-0.8	17,383	17,057	-1.9	11.9	11.0	-0.9
Japanese Brands	17,611	22,125	25.6	36.9	39.5	2.6	55,801	60,849	9.0	38.1	39.4	1.3
Korean Brands	5,726	6,566	14.7	12.0	11.7	-0.3	16,533	17,505	5.9	11.3	11.3	0.0
Acura	199	344	72.9	0.4	0.6	0.2	801	963	20.2	0.5	0.6	0.1
Alfa Romeo	18	23	27.8	0.0	0.0	0.0	87	74	-14.9	0.1	0.0	-0.1
Audi	816	1,140	39.7	1.7	2.0	0.3	2,452	3,009	22.7	1.7	1.9	0.2
BMW	987	1,115	13.0	2.1	2.0	-0.1	3,165	3,371	6.5	2.2	2.2	0.0
Buick	292	436	49.3	0.6	0.8	0.2	761	1,238	62.7	0.5	0.8	0.3
Cadillac	263	319	21.3	0.6	0.6	0.0	826	883	6.9	0.6	0.6	0.0
Chevrolet	3,318	3,599	8.5	7.0	6.4	-0.6	9,228	9,914	7.4	6.3	6.4	0.1
Chrysler	66	136	106.1	0.1	0.2	0.1	273	358	31.1	0.2	0.2	0.0
Dodge	329	262	-20.4	0.7	0.5	-0.2	870	762	-12.4	0.6	0.5	-0.1
Ford	5,554	5,831	5.0	11.6	10.4	-1.2	16,932	17,699	4.5	11.6	11.5	-0.1
Genesis	182	223	22.5	0.4	0.4	0.0	478	550	15.1	0.3	0.4	0.1
GMC	1,826	1,984	8.7	3.8	3.5	-0.3	5,756	5,885	2.2	3.9	3.8	-0.1
Honda	2,438	3,109	27.5	5.1	5.6	0.5	8,250	8,518	3.2	5.6	5.5	-0.1
Hyundai	2,724	2,576	-5.4	5.7	4.6	-1.1	•	7,433	-14.1	5.9	4.8	-1.1
Infiniti	138	155	12.3	0.3	0.3	0.0	424	536	26.4	0.3	0.3	0.0
Jaguar	38	24	-36.8	0.1	0.0	-0.1	118	82	-30.5	0.1	0.1	0.0
Jeep	2,628	2,463	-6.3	5.5	4.4	-1.1	8,576	6,655	-22.4	5.9	4.3	-1.6
Kia	2,820	3,767	33.6	5.9	6.7	0.8		9,522	28.6	5.1	6.2	1.1
Land Rover	161	335	108.1	0.3	0.6	0.3	605	877	45.0	0.4	0.6	0.2
Lexus	811	1,043	28.6	1.7	1.9	0.2	2,469	3,009	21.9	1.7	1.9	0.2
Lincoln	199	212	6.5	0.4	0.4	0.0		704	5.5	0.5	0.5	0.0
Maserati	22	26	18.2	0.0	0.0	0.0		68	6.3	0.0	0.0	0.0
Mazda	1,260	1,717	36.3	2.6	3.1	0.5		5,224	37.7	2.6	3.4	0.8
Mercedes	1,013	930	-8.2	2.1	1.7	-0.4		2,636	-11.4	2.0	1.7	-0.3
MINI	158	154	-2.5	0.3	0.3	0.0	440	432	-1.8	0.3	0.3	0.0
Mitsubishi	105	175	66.7	0.2	0.3	0.1	416	492	18.3	0.3	0.3	0.0
Nissan	1,472	2,063	40.1	3.1	3.7	0.6	5,324	5,996	12.6	3.6	3.9	0.3
Other	43	64	48.8	0.1	0.1	0.0	123	162	31.7	0.1	0.1	0.0
Polestar	77	26	-66.2	0.2	0.0	-0.2	270	83	-69.3	0.2	0.1	-0.1
Porsche	248	272	9.7	0.5	0.5	0.0		814	12.0	0.5	0.5	0.0
Ram	1,977	1,726	-12.7	4.1	3.1	-1.0		4,849	-22.3	4.3	3.1	-1.2
Rivian	286	487	70.3	0.6	0.9	0.3		1,292	145.2	0.4	0.8	0.4
Subaru	4,482	5,446	21.5	9.4	9.7	0.3		14,289	7.2	9.1	9.3	0.2
Tesla	2,015	3,611	79.2	4.2	6.5	2.3		8,748	44.5	4.1	5.7	1.6
Toyota	6,706	8,073	20.4	14.1	14.4	0.3		21,822	3.9	14.3	14.1	-0.2
Volkswagen	1,668	1,528	-8.4	3.5	2.7	-0.8		3,989	-17.4	3.3	2.6	-0.7
Volvo	384	565	47.1	0.8	1.0	0.2		1,527	-1.0	1.1	1.0	-0.1
Data sourced from							,- ,-	,				

The table shows new retail light vehicle (car and light truck) registrations in the Colorado market. Figures are shown for the 3rd Quarters of '22 and '23, and year to date totals thru September. The top ten ranked brands in each change category are shaded yellow.

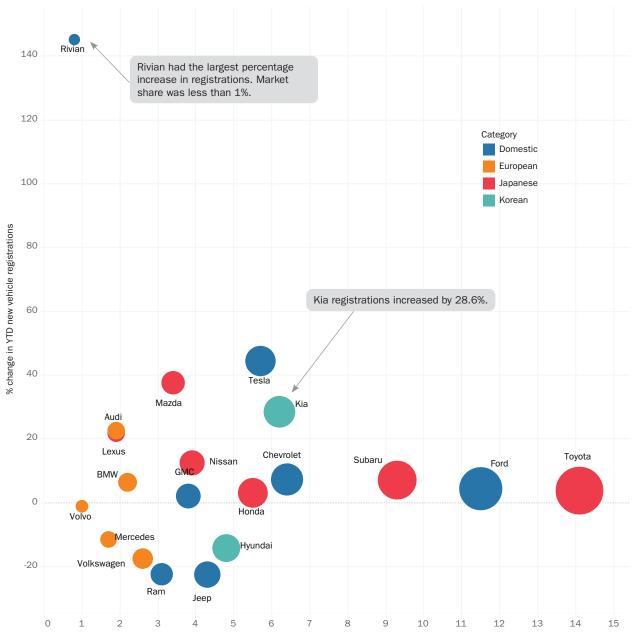
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BRAND SCOREBOARD

Registrations Improved for Most Brands So Far This Year

The graph below presents a well-rounded view of brand sales results in the state market. It shows both the percentage change in registrations so far this year versus year earlier (vertical axis) and market share (horizontal axis, also denoted by relative size of the circles). Brand category (Domestic, European, Japanese, or Korean) is identified by color of the circles. Brands on the right side of the graph have higher market share, and those at the top have had larger percentage gains in registrations.

Colorado Market Share (YTD '23 thru September) and Percent Change in Registrations (YTD '23 thru Sept. vs. YTD '22) Top 20 Selling Brands



YTD Market share (%) - also indicated by size of circles

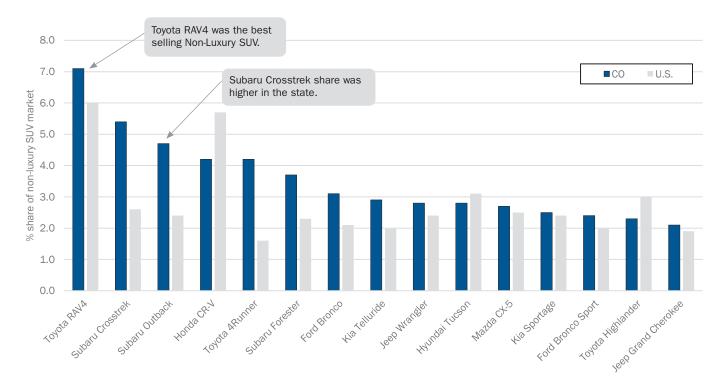
Data sourced from Experian Automotive.

MODEL SCOREBOARD

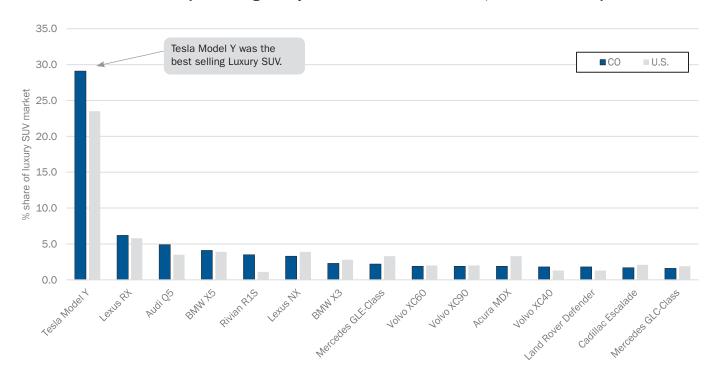
RAV4 is On Top for Non-Luxury SUVs; Model Y Has Big Lead in Luxury Segment

The two graphs below show market shares in the Colorado and National Non-Luxury and Luxury SUV segments during and the first nine months of this year. Includes the top 15 selling models in the state market.

Market Share for Top 15 Selling Non Luxury SUVs - State and U.S. Market, YTD 2023 thru September



Market Share for Top 15 Selling Luxury SUVs - State and U.S. Market, YTD 2023 thru September



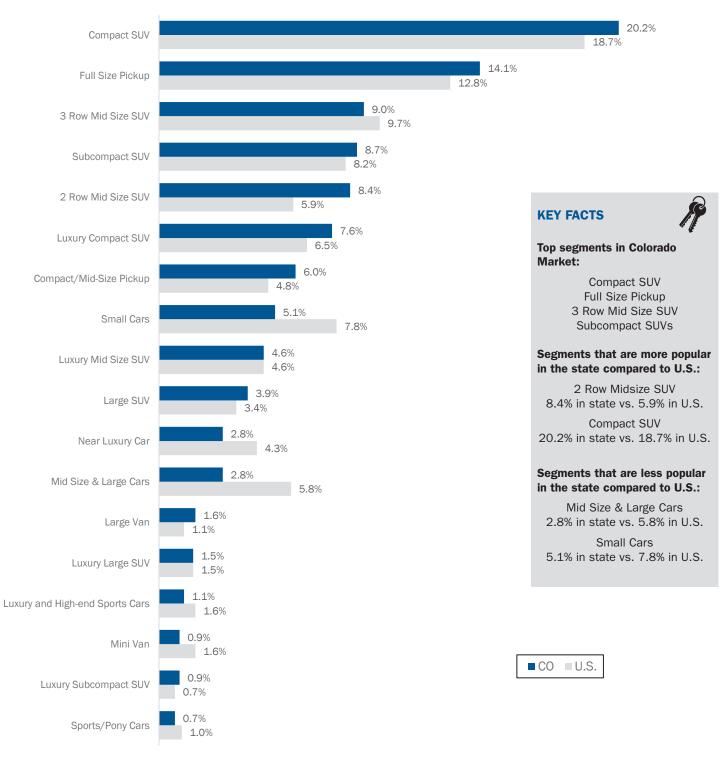
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SEGMENTS

Compact SUV Segment Leads the Colorado Market

The graph below shows segment market shares in both the Colorado (blue bars) and U.S. markets (grey bars). Segments are shown from top to bottom based on state share.

Segment Market Shares in Colorado and U.S. - YTD 2023 thru September



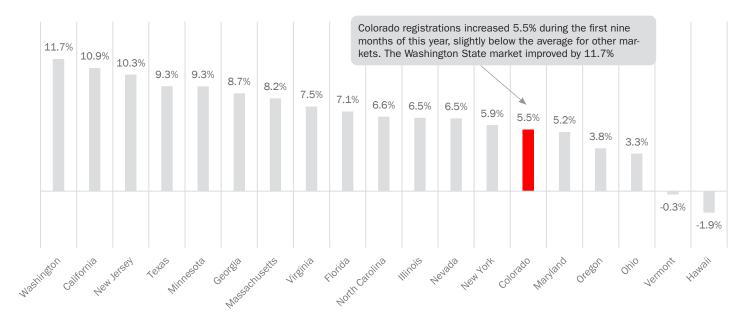
Comparison of Selected State Markets



Results During First Nine Months of This Year

The graph below provides a comparison of how state new vehicle markets have performed so far this year. It shows the percent change in new retail light vehicle registrations during the first nine months of this year versus the same period a year earlier.

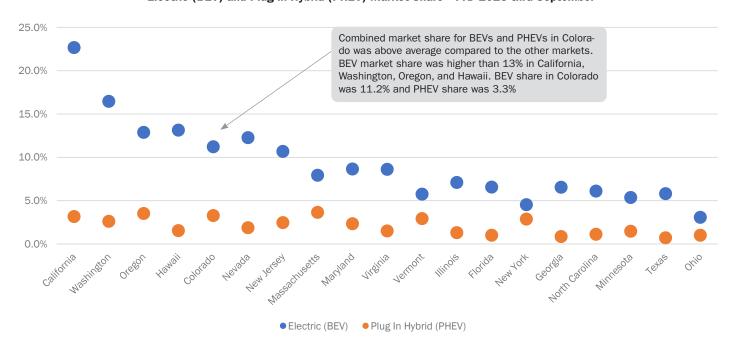
Percent Change in New Retail Light Vehicle Registrations - YTD 2023 vs. YTD 2022 (thru September)



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Comparison of BEV and PHEV Market Share

Electric (BEV) and Plug in Hybrid (PHEV) Market Share - YTD 2023 thru September



Markets are shown from left (highest) to right (lowest) based on combined BEV and PHEV market share. Data sourced from Experian Automotive.

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BRAND SEGMENT MARKET SHARES

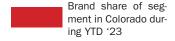
Top Selling Brands in 7 Primary Segments



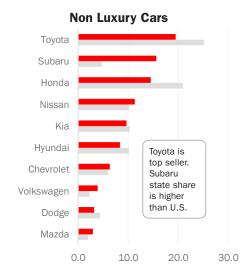
The seven graphs on this page show brand market share in seven key segments during the first nine months of 2023 in both the Colorado and U.S. markets. State percent share is depicted by the red bars, U.S. share is light gray. Top ten brands in each segment are ranked from top to bottom based on Colorado market share.

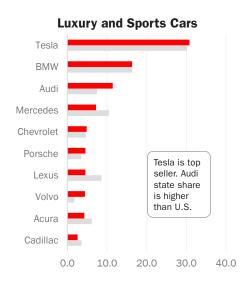
Segments were defined based on model classifications instead of overall brand positioning. For instance, Chevrolet appears on the Luxury and Sports cars graph because of the Corvette. Small SUVs consists of both Sub Compact and Compact models.

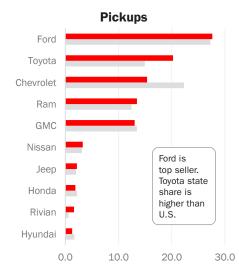
Legend for all graphs

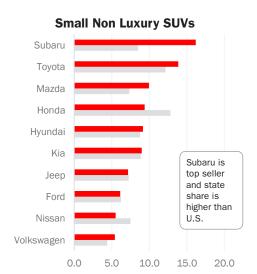


Brand share of segment in U.S. market during YTD '23

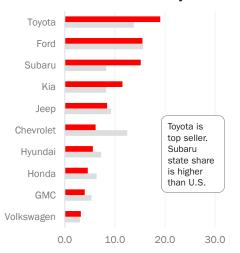




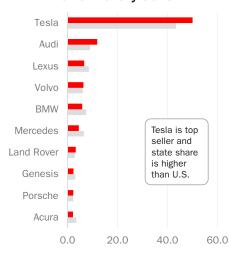




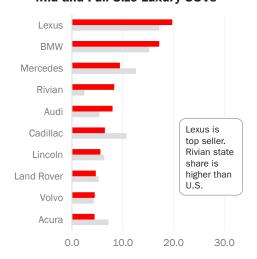
Mid and Full Size Non Luxury SUVs



Small Luxury SUVs



Mid and Full Size Luxury SUVs

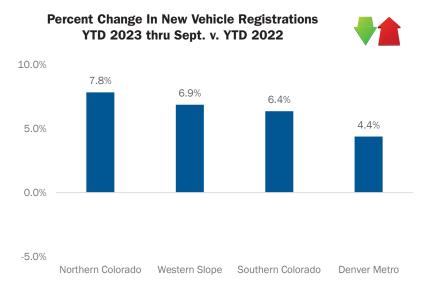


Data sourced from Experian Automotive.

Review of Regional New Vehicle Markets in Colorado

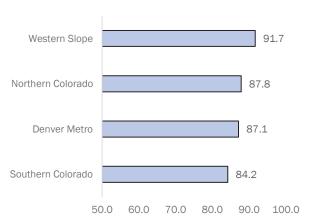
New Retail Light Vehicle Registrations in Regional Markets												
	Year to date thru Sept.			Light truck market share (%)			Market share for top 5 selling brands in state					
	YTD '22	YTD '23	% change	YTD '22	YTD '23	change	Toyota	Ford	Subaru	Kia	Chevrolet	
Denver Metro	85,563	89,305	4.4%	86.3	87.1	0.8	14.1	9.3	9.3	6.1	5.2	
Northern Colorado	18,672	20,132	7.8%	87.2	87.8	0.6	13.3	13.3	9.0	7.7	7.0	
Southern Colorado	19,494	20,733	6.4%	83.9	84.2	0.3	12.3	11.8	9.5	7.4	6.5	
Western Slope	14,872	15,891	6.9%	90.9	91.7	0.8	18.1	17.0	10.3	3.8	9.1	

Data sourced from Experian Automotive.



Light Truck Share in Regional Markets YTD 2023 thru Sept.



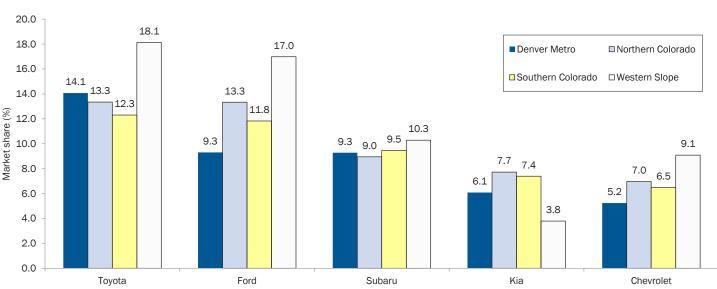


Data sourced from Experian Automotive.

Data sourced from Experian Automotive.

Regional Market Share for Top 5 Selling Brands in State - YTD 2023 thru Sept.



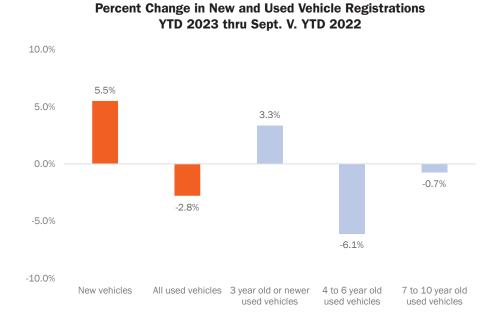


Data sourced from Experian Automotive.

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COLORADO USED VEHICLE MARKET

Used Vehicle Market Continues to Slide Lower







The Colorado used vehicle market declined 2.8% during the first nine months of this year versus a year earlier, compared to the 5.5% increase in new vehicle registrations.

D2. Elevated vehicle prices, tight supplies, and improving new vehicle inventories will likely prevent any near-term rebound in used vehicle sales.

As shown on the graph to the left, the three year old or newer market held up relatively well so far this year. Used registrations of three year old or newer vehicles increased 3.3%. The 4 to 6 year old market declined 6.1% and the 7 to 10 year old market fell 0.7%.

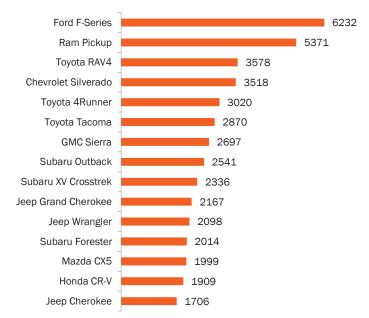
Data sourced from Experian Automotive.

TOP SELLING MODELS IN USED VEHICLE MARKET

F-Series and Ram Pickup Stay on Top of Used Vehicle Market

The two graphs below show the top 15 selling models in Colorado for two age classifications: vehicles four years old or newer, and 5 to 8 year old vehicles. Ford F-Series and Ram Pickup ranked first and second in each category.

Top 15 Selling Models for Vehicles 4 years Old or Newer YTD 2023 Registrations thru Sept.



Data sourced from Experian Automotive.

Top 15 Selling Models for 5 to 8 Year Old Vehicles YTD 2023 Registrations thru Sept.

03.

