## COX AUTOMOTIVE

# Q4 MANHEIM USED VEHICLE VALUE INDEX CALL

Jan. 8, 2025

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# The Cox Automotive Ecosystem

Our category-leading portfolio delivers the connected solutions, tools and services that dealers, OEMs, lenders, fleet operators and consumers expect.

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# Agenda

Time Check: 60 Minutes

Intro & Cox Automotive	Mark Schirmer, Director, Corporate Communications	
Business Update	Grace Huang, President, Inventory Solutions	
The Economy	Jonathan Smoke, Chief Economist	
Wholesale Market	Jeremy Robb, Senior Director, Economic and Industry Insights	
Used-Vehicle Market	Scott Vanner, Senior Analyst, Economic and Industry Insights	
Q&A		



## **Business Update**

Grace Huang

President Inventory Solutions



## **Inventory Solutions | State of the Business**

Key Indicators from 2024 and What They Signal for the Year Ahead



Digital Dominates But Physical Auctions Remain Vital Used EVs Are Already Making Waves at Wholesale

Al is Everywhere ...And There's Even More Ahead Logistics Investments Are Paying Off For Clients Dealers' Appetite for Connecting Retail & Wholesale Is Increasing

## 2024 Highlight | Unrivaled Solutions for Used EVs

No Other Company is Investing in Supporting Used EVs AT SCALE Like Cox Automotive



#### INFRASTRUCTURE

\$500M investment in infrastructure, expertise and capabilities900+ EV chargers throughout the Manheim network



#### **EV BATTERY HEALTH**

**100%** of locations deployed VIN-specific EVBH solution in 2024

41,000+ VIN-specific battery health scores delivered to clients



#### **EDUCATION**

5th Auto Tech Training Center opened in 2024
~500 technicians trained in 2024

## 2024 Highlight | Powerful AI & Automation

Driving Confidence and Efficiencies Across the Marketplace



Launched **33rd** Fixed Imaging Tunnel, Covering **45%** of Manheim's Volume



Delivered Numerous Enhancements to Condition Reports and Inspection Process



Enhanced MMR with Industry-First Automatic Adjustments using OEM Build Data



## 2024 Highlight | Supply Chain Transformation

Investment in Vehicle Logistics is Paying Off For Clients



Cox Automotive Fuels ~16M Million Vehicle Moves Each Year



**\$100M** Investment in Central Dispatch Transformation from Load Board to Marketplace



Central Dispatch Launched Fully Integrated Marketplace, Private Marketplaces, Carrier App, APIs and More



## Looking Ahead: 2025 and Beyond

The Future Has Never Been Brighter



Deliver a More Seamless E Manheim Marketplace Autor Experience th

Expand AI and Automation throughout the Marketplace Provide More Unrivaled Solutions for EVs, Fleets and Beyond

Take Central Dispatch Transformation to the Next Level Create More Retail-to-Wholesale Connections for Clients

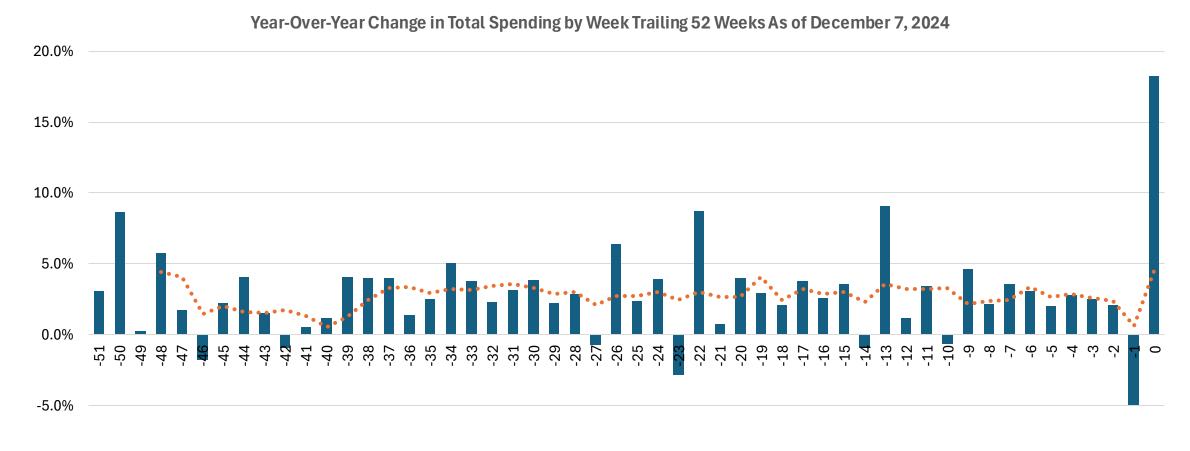
# The Economy JONATHAN SMOKE

**Chief Economist** 



## **Consumer Spending Growth Surging in Early December**

Total spending trends were volatile with timing of Thanksgiving this year, but consumer spending is increasing



#### -10.0%

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## **Consumer Sentiment Reached Highest Level Since May 2021**

The Index of Consumer Sentiment increased 5.6% in November and 0.1% in December

Morning Consult Index of Consumer Sentiment vs. Average Price of Unleaded Gas

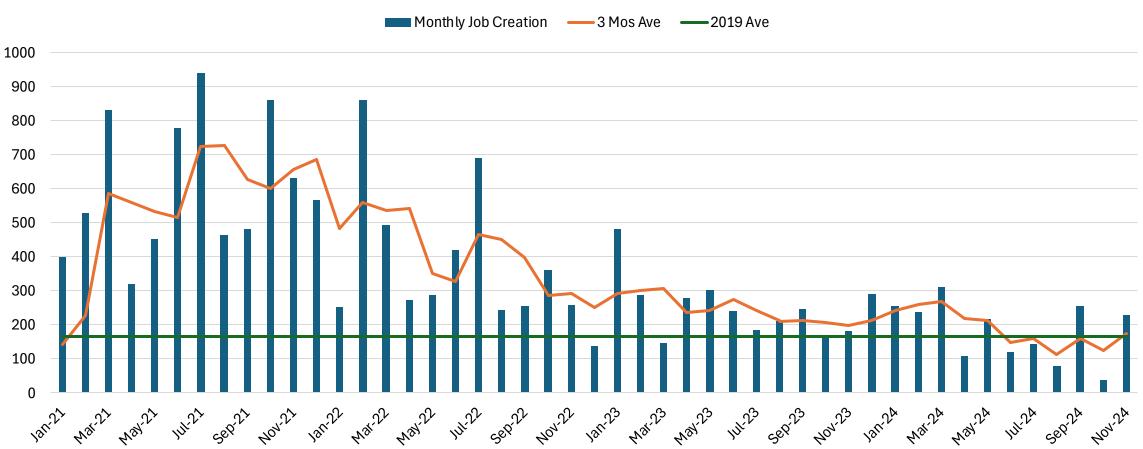


— MC ICS — AAA Ave Unleaded \$ (RH Axis)

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## **Post Hurricanes, Labor Market Has Stabilized**

With 227,000 jobs added in November, 3-month ave recovered to 173,000 new jobs per month; 2019 ave 166,000

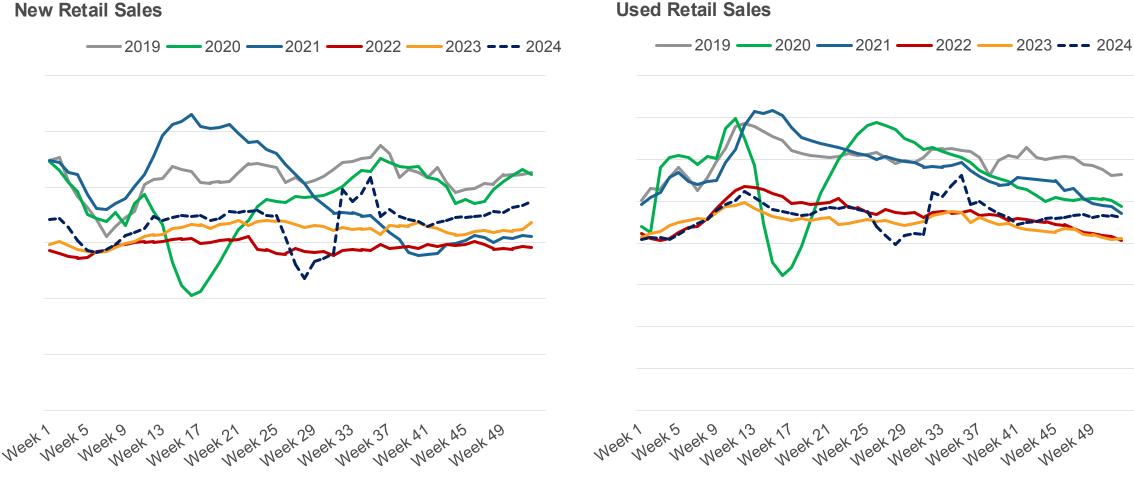


Monthly Job Creation

## **Retail Vehicle Sales Show Strength at Year End**

Sales trends for new increased in December and used trends were flat, bucking the seasonal trend

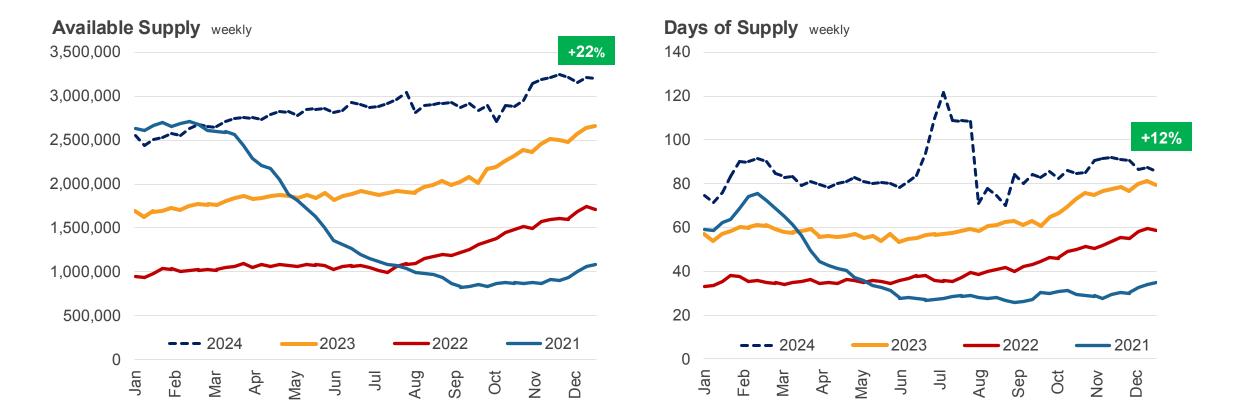
**New Retail Sales** 



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## **New-Vehicle Inventory | Up 22% From Last Year**

New inventory grew over most of Q4, but Days' Supply has fallen into year end, now 12% higher y/y



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## Wholesale Market

Jeremy Robb

Senior Director of Economic and Industry Insights



## Manheim Used Vehicle Value Index

#### Concept

A single measure of used-vehicle price change that is independent of underlying segment shifts in the characteristics of vehicles being sold

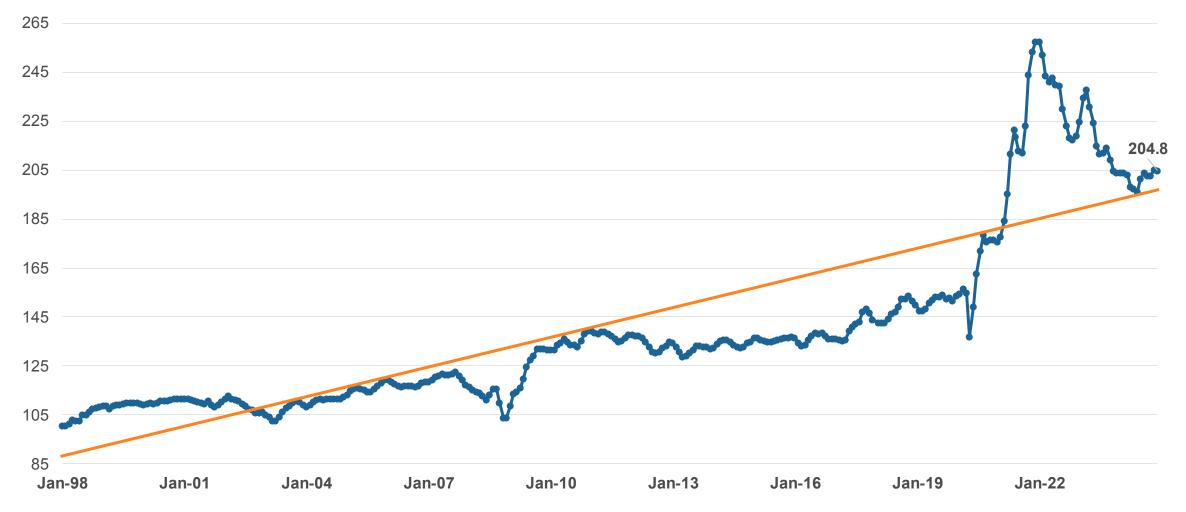
#### **Steps**

- All Manheim U.S. sales 1.
- Classify by market segment 2.
- Account for differences in mileage 3.
- Weight to provide smoother segment mix 4.
- Seasonally adjust 5.



## Wholesale Vehicle Values Fell Slightly in December

Prices fell 0.3% from November and now show a gain of 0.4% from last year



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## Manheim Index: EV & Non-EV

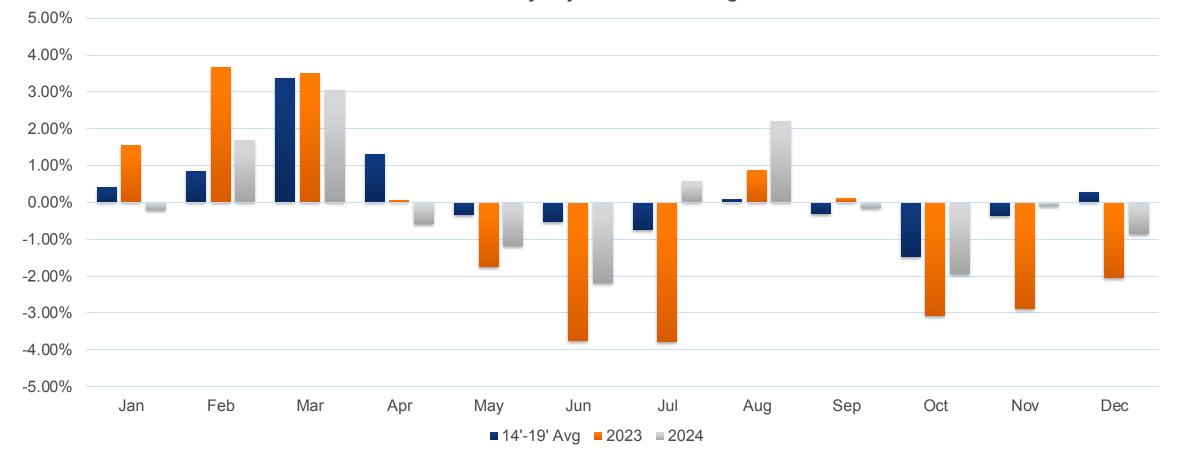
The EV Index has outperformed the Non-EV index over the 2H of 2024

Rebased MUVVI Index: EV & Non-EV Jan-2015 = 100300.0 250.0 188.3 200.0 149.8 150.0 146.3 100.0 50.0 0.0 Jan-15 Apr-15 Jul-15 Oct-15 Jan-16 Apr-16 Jul-16 Oct-16 Jan-18 Apr-18 Jul-18 Oct-18 Jan-19 Apr-19 Jul-19 Oct-19 Jan-20 Apr-20 Jul-20 Oct-20 Apr-22 Jul-22 Oct-22 Jan-23 Apr-23 Jul-23 Oct-23 Jan-24 Apr-24 Jul-24 Oct-24 Oct-21 Jan-22 Apr-17 Oct-17 Jan-21 Apr-21 Jul-21 Jan-17 Jul-17 

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## **Month-Over-Month Performance Trend**

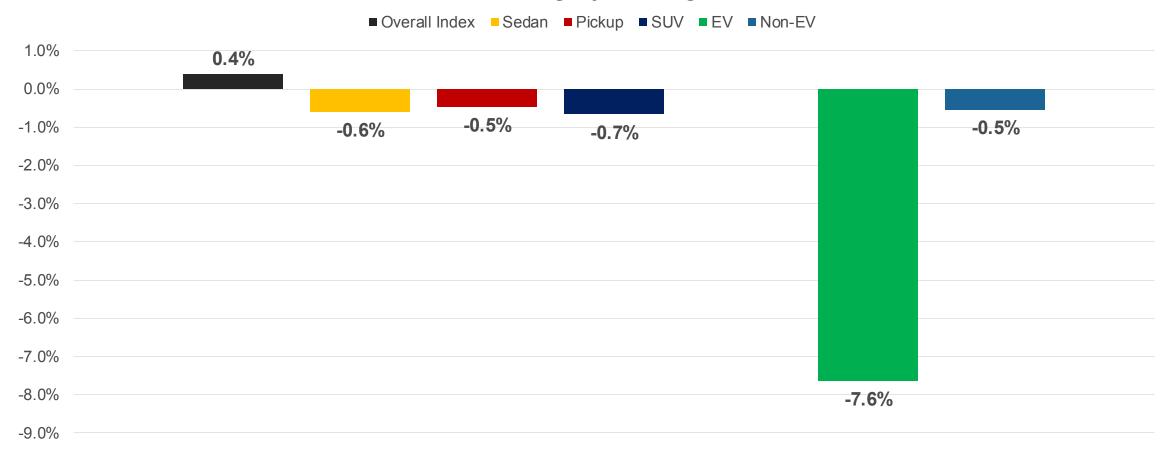
Values have shown some variance from long term trends recently, and December declined more than typical



Non-Seasonally Adjusted Price Change M/M

## **MUVVI Index Trends By Key Segment**

The overall market is now up Y/Y though most segments are down while EV's continue to underperform

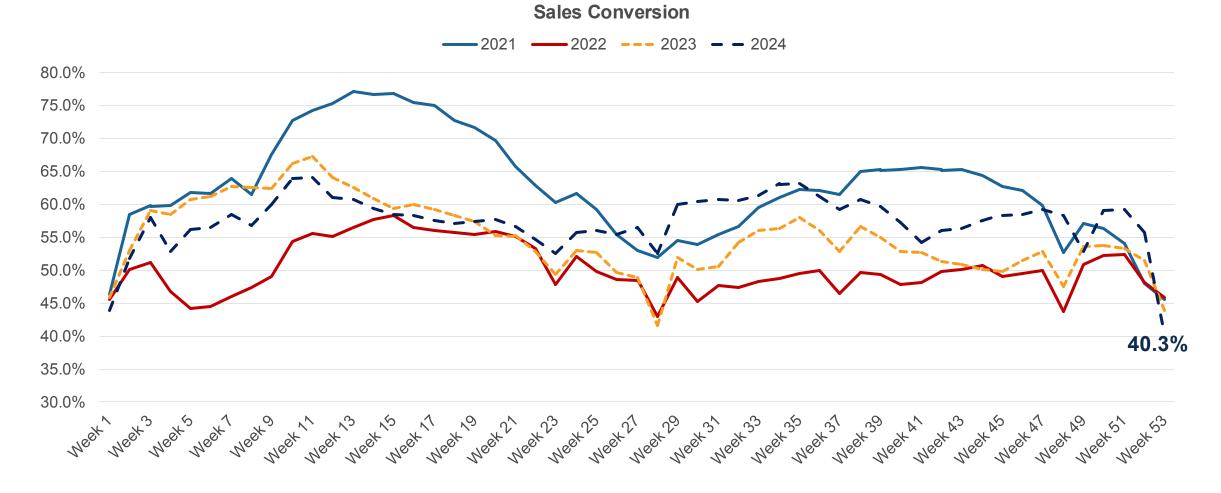


Annual Change by Index Segment

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## Wholesale Sales Conversion

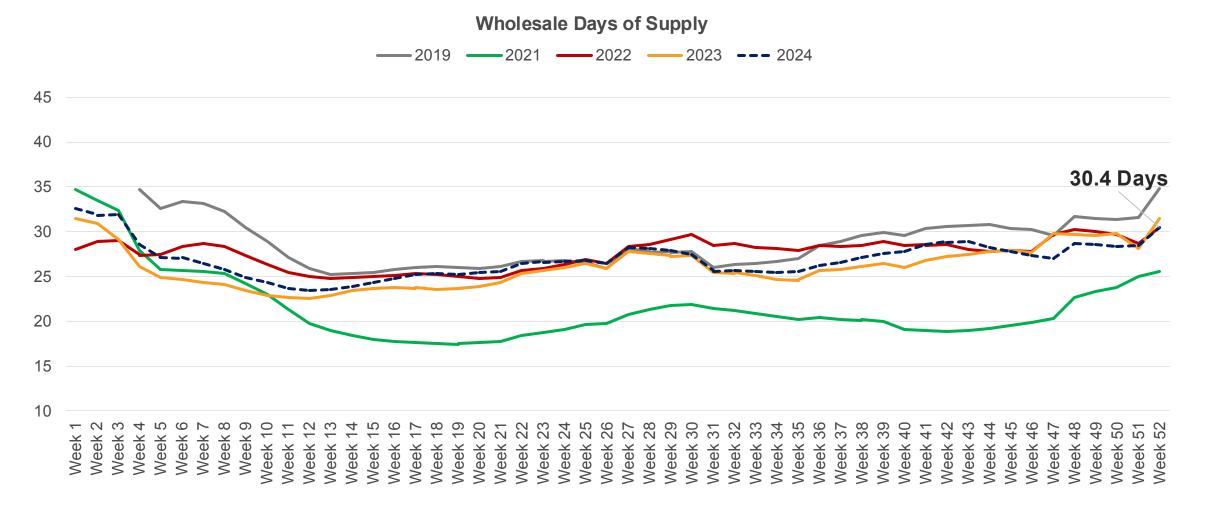
Sales Conversion dropped in the last week of the year but has been higher than most years during Q4



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## Wholesale Supply Rose at Year End – Seasonally Normal

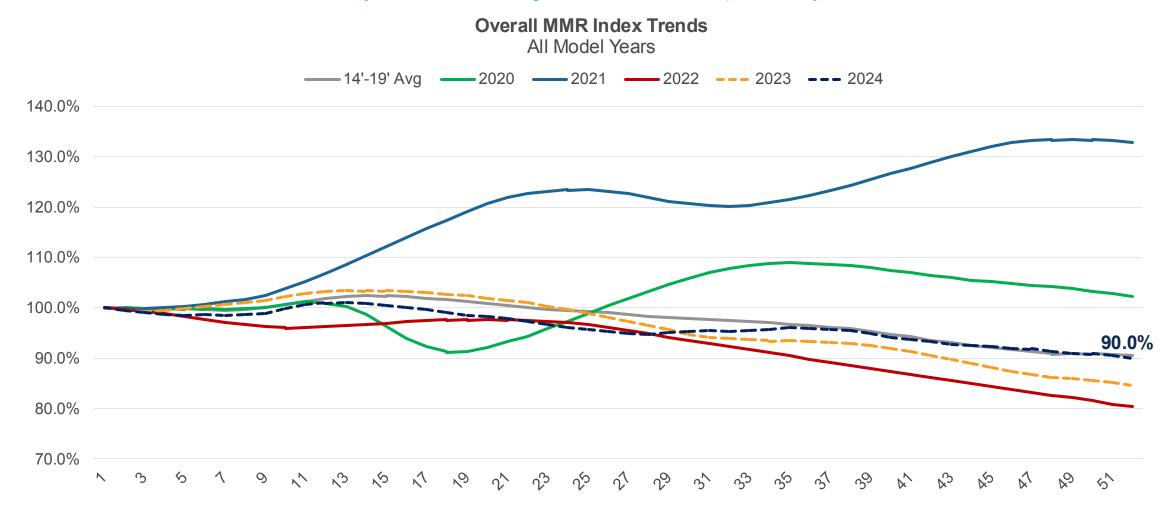
Inventory is 10% higher Y/Y while Sales are up 13% as Days Supply rose to 30.4 Days, down 2% Y/Y



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## **Overall Wholesale MMR Value Trends**

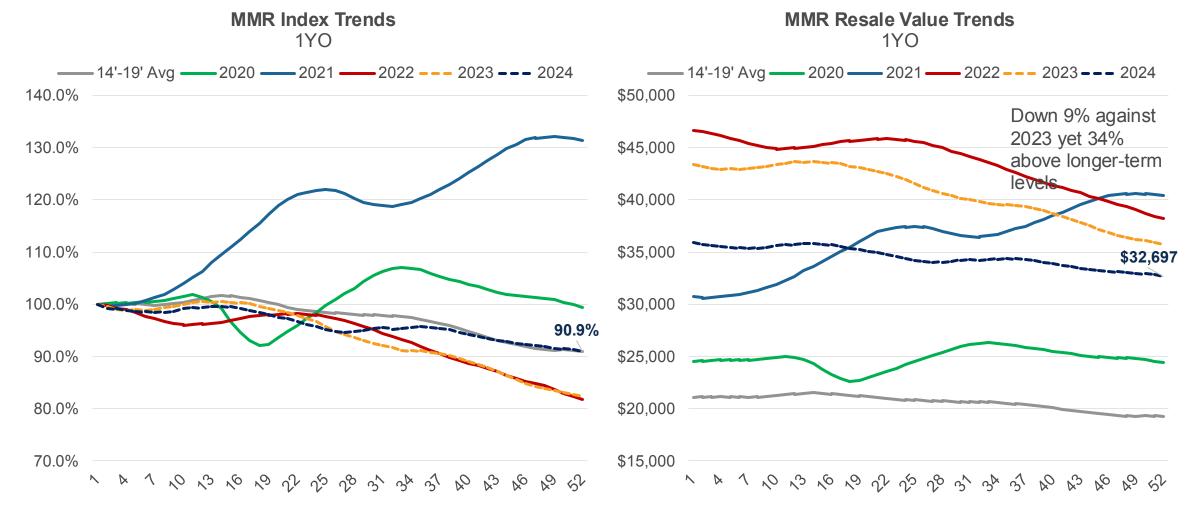
Year-to-date wholesale values are just below the long-term trend but the path this year has varied



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## **1YO MMR Index With Resale Values By Calendar Year**

The 1YO has shown normal depreciation trends this year even as incentives have increased

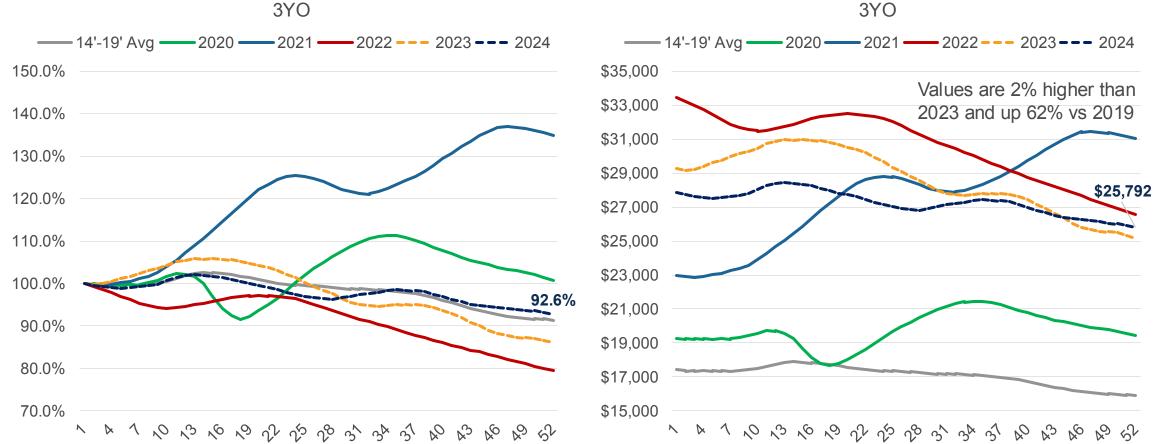


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## **3YO MMR Index With Resale Values By Calendar Year**

**MMR Index Trends** 

3YO values have continued to show less depreciation than other age segments over the course of 2024

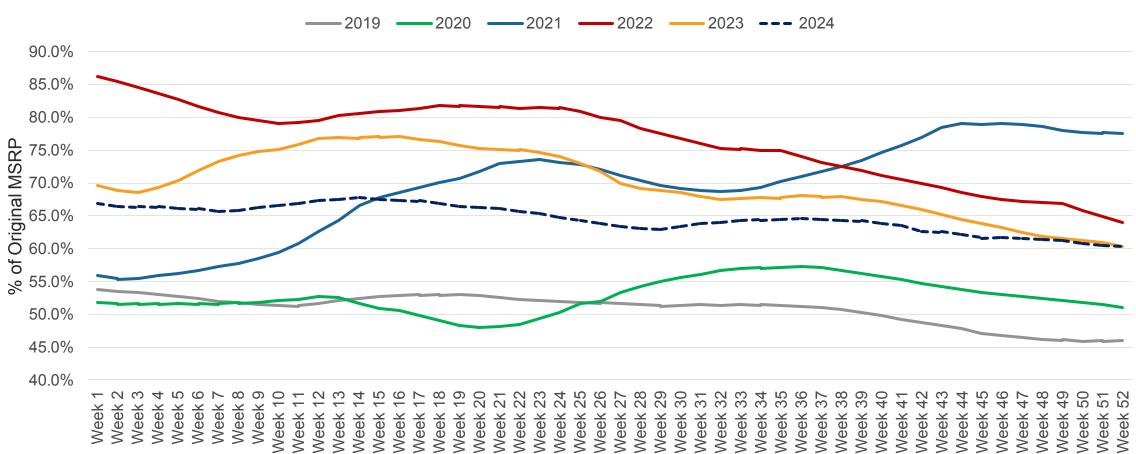


MMR Resale Value Trends

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## **Retention Values at Auction**

Retention values remain higher against historical standards but fell one point over the last month



#### **3YO Retention Values**

## **CALE: Lease Equity At The Lowest Point in Three Years**

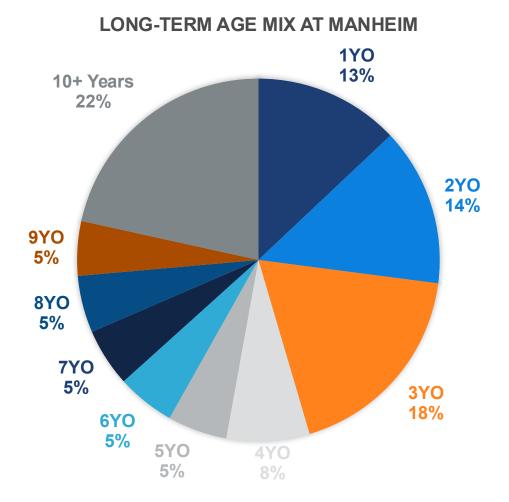
Lease equity remains slightly positive but is down substantially as residual values converge to market prices

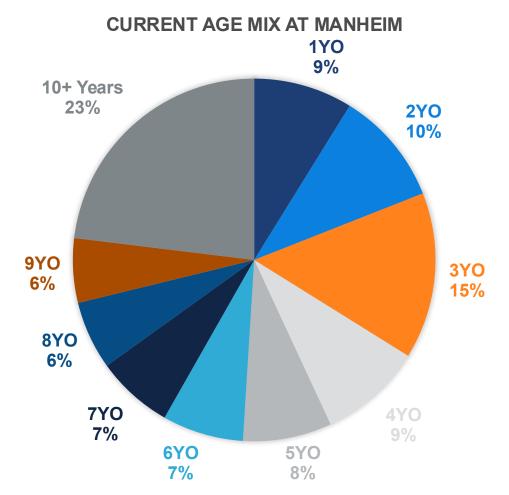


Monthly Lease Weighted CALE

## **Sales Mix At Manheim**

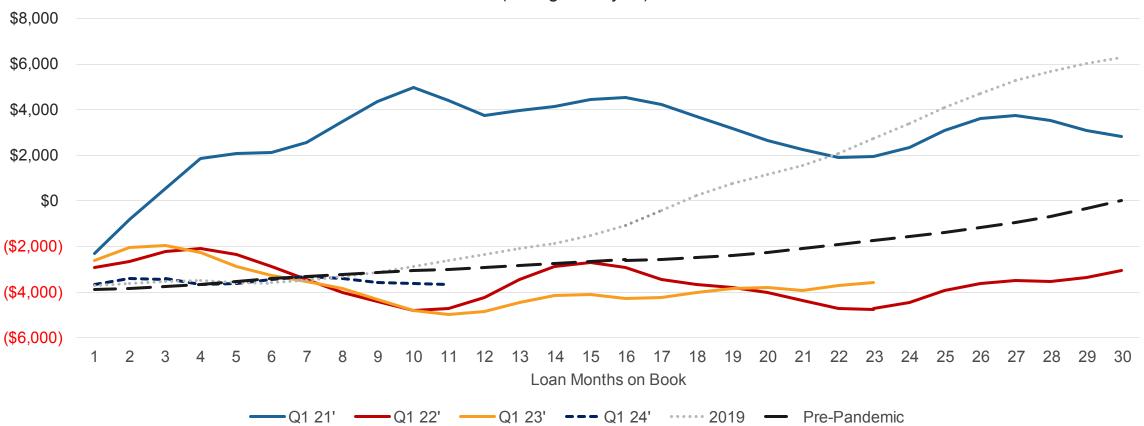
Total 1 to 3YO vehicles are 10 points less in mix at Manheim offset with gains in units older than 4 years old





## **CARE: Loan Equity Performing Better Than Last Two Years**

Current 2024 vintages show improvement in loan equity vs the last two years, still below long-term levels



CARE: Cox Auto Retail Loan Equity (Vintage Analysis)

## **Transportation Metrics: Prices and Mileage**

Average miles moved up 9.6% year over year while Price Per Mile declined 2.8% against December 2023



**Central Dispatch Marketplace Metrics** 

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## Auction Data and Rental Market

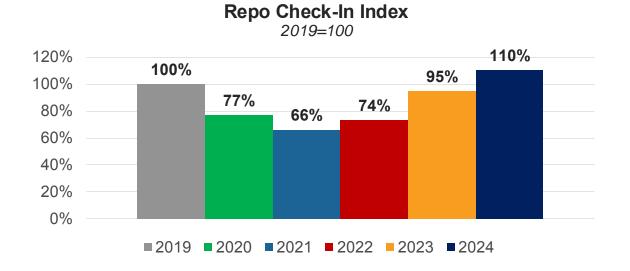
#### **Scott Vanner**

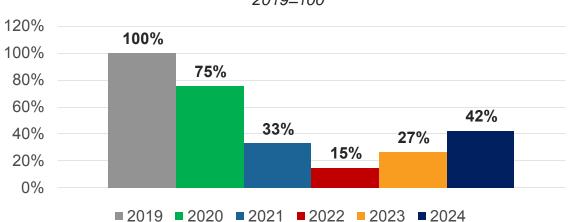
Senior Analyst of Economic and Industry Insights



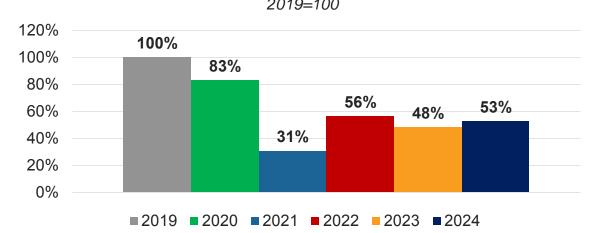
## **Auction Check-Ins for Commercial Segments**

Repo holds higher against 2019, yet growth has slowed, while lease has slowed and rental has been stronger





#### Lease Check-In Index 2019=100

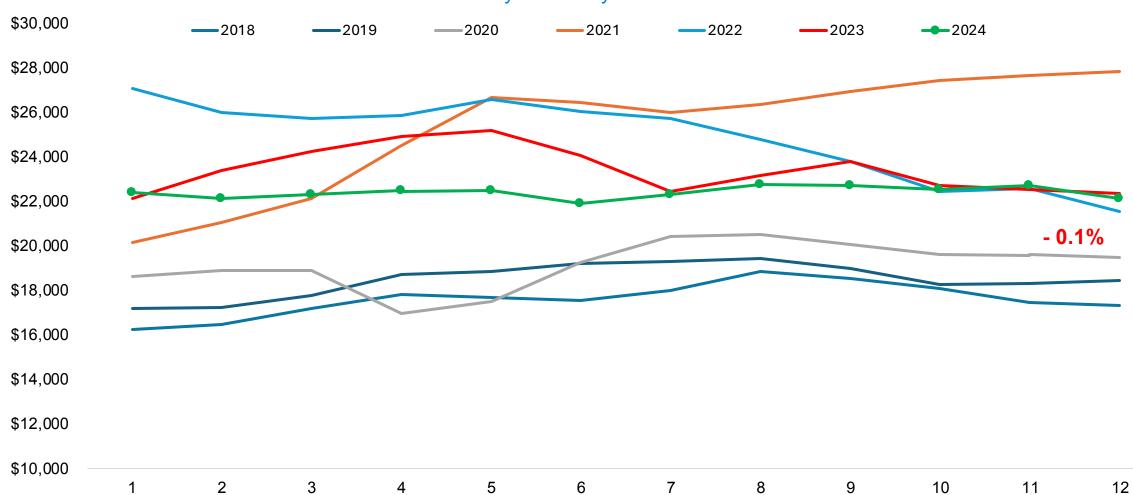


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Rental Check-In Index 2019=100

- Repo +16% vs 23' & up +10% vs 19'
- Lease +65% vs 23' yet down (58%) vs 19'
- Rental up 10% vs 23' and down (47%) vs 19'

## **Rental Risk Average Auction Prices**



Prices for units sold in December were down 0.1% year-over-year and down 0.3% from November

## **Rental Risk Vehicle Variety Increasing**

Auctions see less concentration of rental units sold from a configuration perspective

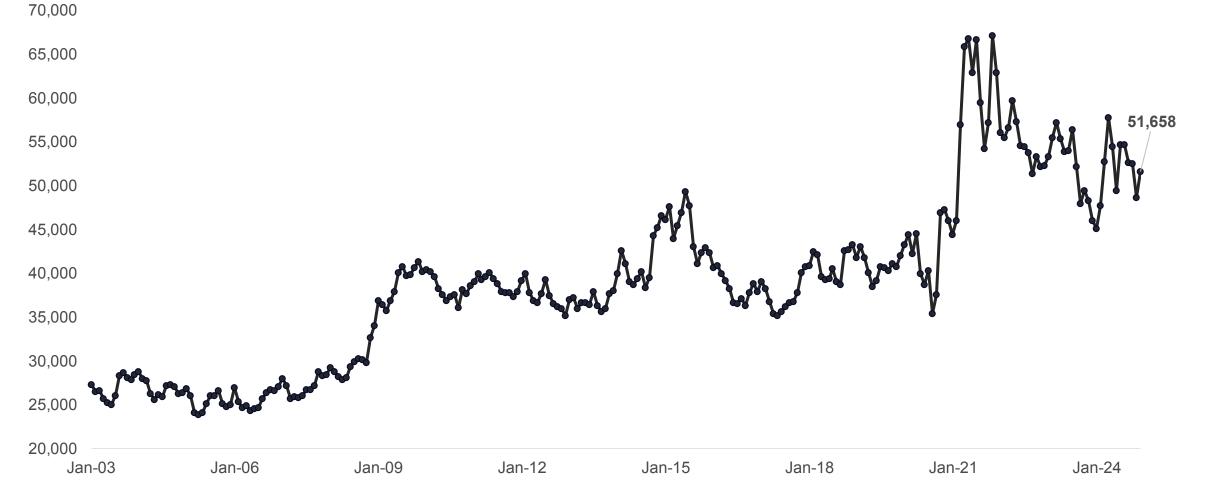
Rank	2022 Q4	2023 Q4	2024 Q4
Number of unique year, make, model, body configurations sold	4,164	3,886	4,541
Share accounted for top 10 YMMB	11.6%	14.3%	12.4%
Share accounted for top 25 YMMB	20.5%	24.8%	21.1%
Number of YMMB to reach 50% share	137	107	160



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# **Rental Risk Average Mileage**

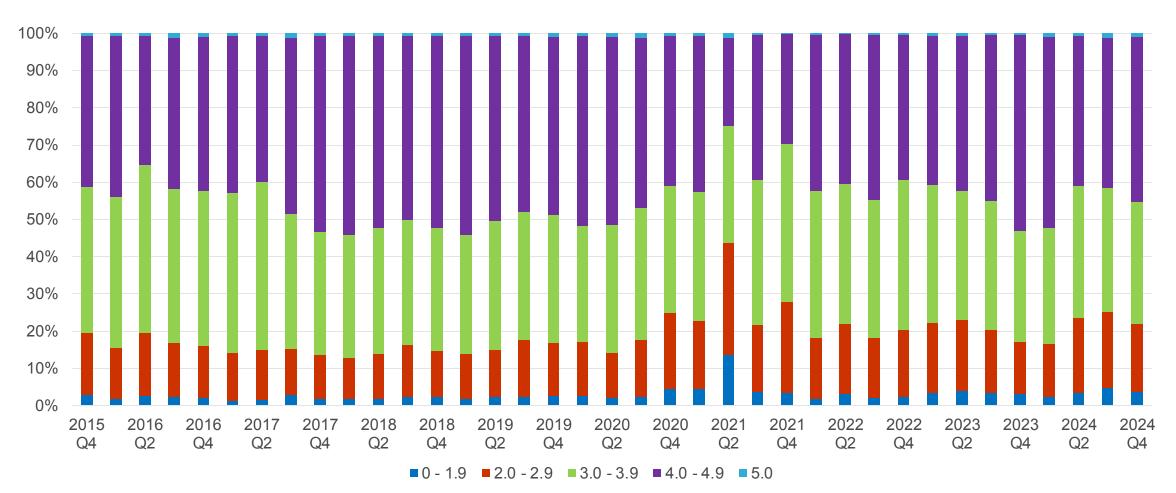
Average mileage was up 6% compared to November and up 12% from December 2023



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## **Rental Risk Sales Condition**

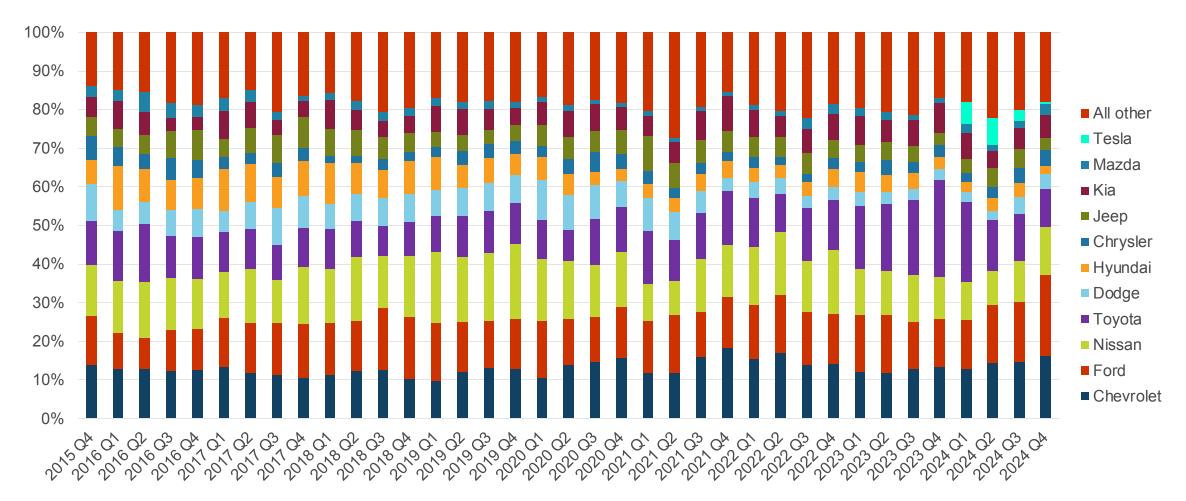
A jump in share of higher graded units from previous quarter as share of lower graded units shrink slightly



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## **Rental Risk Sales By Make**

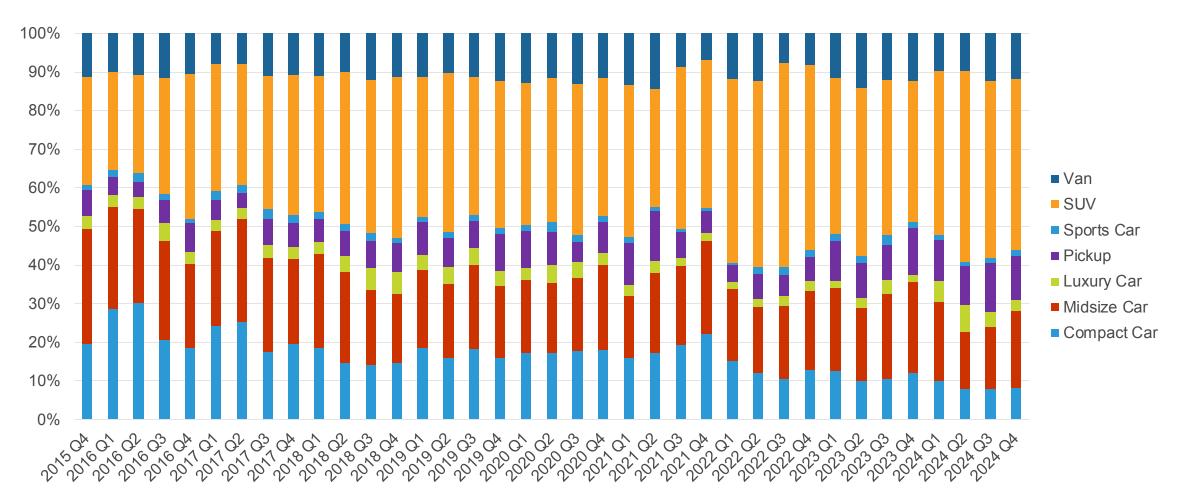
Tesla's share continues to drop as Ford makes large gains



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## **Rental Risk Sales by Vehicle Segment**

Compact, Midsize, and Sports Cars are up, while all other segments are down from Q3 2024



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# Manheim Insights on Top Volume Vehicles

Price trends on top selling vehicles in December showed the 2022 Malibu in several top categories

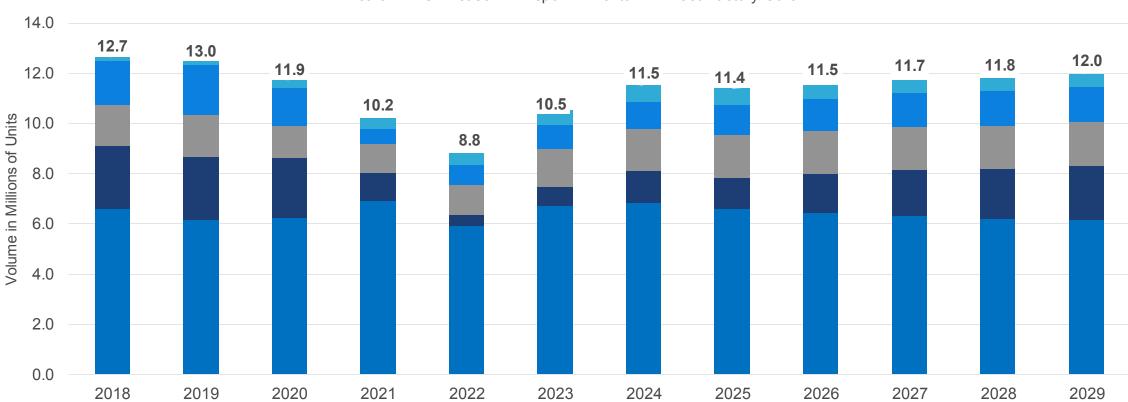
Rank	Source(Rank)	Category	Subcategory	Vehicle	Dec-25	Past 30 Days	Last Year	Current Dep	L12M Dep/Mo
1	All	MIDSIZE CAR	ENTRY MIDSIZE CAR	2022 CHEVROLET MALIBU 4D SEDAN LT	\$15,157	\$15,708	\$17,475	-3.5%	-1.1%
2	All	SUV	LUXURY SUV	2024 VOLVO XC90 HYBRID 4D SUV B5 PLUS BRIGHT THEME	\$36,353	\$36,358		0.0%	
3	All	SUV	LUXURY SUV	2024 VOLVO XC60 HYBRID 4D SUV PLUS DARK THEME	\$30,973	\$31,042		-0.2%	
4	All	MIDSIZE CAR	ENTRY MIDSIZE CAR	2023 CHEVROLET MALIBU 4D SEDAN 1LT	\$16,700	\$17,125	\$18,279	-2.5%	-0.7%
5	All	COMPACT CAR	PREMIUM COMPACT CAR	2021 TOYOTA COROLLA 4D SEDAN LE	\$14,633	\$15,313	\$15,888	-4.4%	-0.7%
1 Dealer	Dealer	MIDSIZE CAR	ENTRY MIDSIZE CAR	2022 CHEVROLET MALIBU 4D SEDAN LT	\$15,157	\$15,708	\$17,475	-3.5%	-1.1%
1 Lease	Lease	SUV	LUXURY SUV	2022 VOLVO XC60 AWD HYBRID 4D SUV B5 MOMENTUM	\$26,213	\$27,192	\$31,692	-3.6%	-1.4%
1 Rental	Rental	MIDSIZE CAR	ENTRY MIDSIZE CAR	2022 CHEVROLET MALIBU 4D SEDAN LT	\$15,157	\$15,708	\$17,475	-3.5%	-1.1%

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## **Wholesale Flows Bottomed in 2022**

The wholesale market rebounded in the last two years, but growth will falter over 2025/2026

Estimated Wholesale Volumes by Inflow Channel (Annual Volume) (millions)

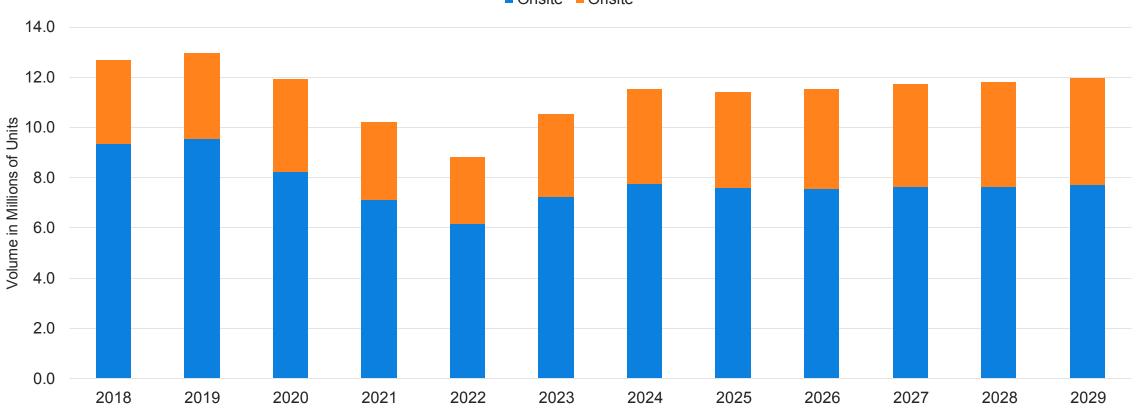


■ Dealer ■ Off Lease ■ Repo ■ Rental ■ Fleet/Factory/Other

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## **Onsite Physical Auction Market Does Not Fully Recover**

With gradual shift to more transactions offsite and fully digital, onsite volume in 2029 is expected to be down 19% vs 2019



Onsite Offsite

Wholesale Onsite vs Offsite (millions)

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## **Repo Recovery Will Be More Normal**

Longer term expect normalized default rates but low loan growth has an impact

2.0 1.8 1.7 1.7 1.7 1.7 1.7 1.7 1.6 1.7 1.6 1.5 Volume in Millions of Units 0.0 0.0 0.0 0.0 1.3 1.2 1.1 0.4 0.2 0.0 2018 2021 2022 2023 2024 2025 2026 2027 2028 2019 2020 2029

**Estimated Repossession Volume** 

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# **Off Lease Return Rate Will Grow But Maturities Fall Faster**

Return rate hit historical low of 11% in 2022 vs. 62% in 2019, lease equity and maturities declining in 2025

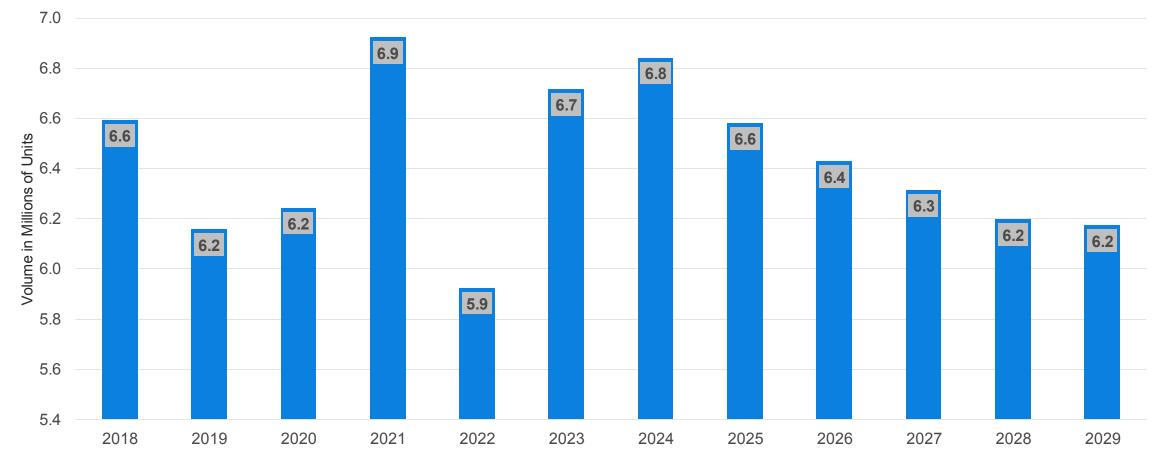
3.0 2.5 2.5 2.5 2.4 Volume in Millions of Units 1.5 1.0 2.1 2.0 1.8 1.6 1.3 1.2 1.1 0.8 0.5 0.4 0.0 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029

**Off Lease Returns** 

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# **Dealer Volumes Peaked in 2021: Declining in Coming Years**

Off-lease arbitrage and record retail sales powered 2021 but higher retail rates lower wholesale offloading



**Estimated Dealer Volumes** 

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## **Rental Volumes Improve But Recovery Is Slow & Steady**

Total fleet size will expand but still fall short of pre-pandemic levels as share of new market recovers slowly

2.5 2.0 2.0 Volume in Millions of Units 1.8 1.5 1.5 1.4 1.4 1.3 1.3 1.2 1.0 1.1 1.0 0.8 0.6 0.5 0.0 2018 2019 2020 2021 2022 2023 2024 2026 2027 2028 2025 2029

**Estimated Rental Volumes** 

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## **EV** Transactions

Manheim EV sales are up 59% in Q4 Y/Y while used retail EV transactions have grown 57% over the same time

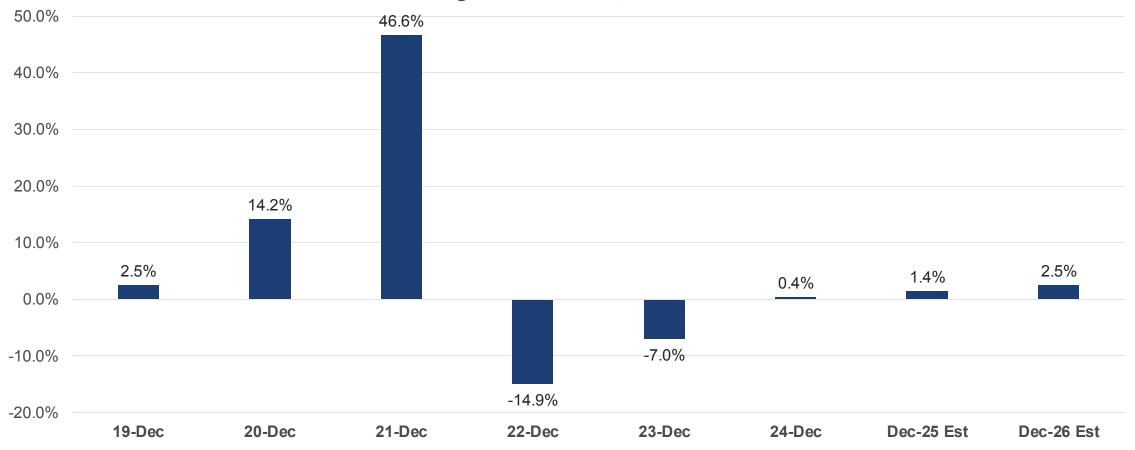


EV Transactions: Manheim (LHS) & Retail Used (RHS)

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# **Used Vehicle Value Outlook Returning To Normal**

2024 saw more normal depreciation trends vs previous years and we expect normalization to continue in 2025



Y/Y % Change Manheim Index, As Of December

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## **2025 Forecasts**

Updated Jan. 3, 2025

13.3M 3.0M 16.3M **FLEET SALES NEW SALES NEW RETAIL SALES** (+2.8% versus 2024) (+1.7 versus 2024) (+7.7% versus 2024) 25% 2.5M 3.3M **CPO SALES** LEASE **NEW LEASE** VOLUME PENETRATION (-1.6% versus 2024) (+4.2% versus 2024) (+1.0% versus 2024) +1.4% 20.1M 37.8M **DEC 2025 Y/Y MANHEIM USED RETAIL SALES USED SALES USED VEHICLE** (+1.0% versus 2024) (+1.2% versus 2024) **VALUE INDEX** 

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Q&A



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# THANK YOU FOR ATTENDING!

Contact us with questions or to speak with an expert:

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Mark Schirmer Director Cox Automotive Corporate Communications mark.schirmer@coxautoinc.com

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