

#### **AGENDA**

Time Check: 75 Minutes

**Intro & Cox Automotive** 

The Economy

**Electric Vehicles** 

**New-Vehicle Market** 

**Used-Vehicle Market** 

**Outlook & Playlist** 

Q&A

Mark Schirmer, Director, Corporate Communications

Jonathan Smoke, Chief Economist

Jonathan Gregory, Senior Manager, Economic and Industry Insights

Charlie Chesbrough, Senior Economist

Chris Frey, Senior Manager, Economic and Industry Insights

Jonathan Smoke, Chief Economist and Resident DJ

w/ Michelle Krebs, Executive Analyst

Jeremy Robb, Senior Director, Economic and Industry Insights

Rebecca Rydzewski, Research Manager, Economic and Industry Insights



#### THE POWER OF COX AUTOMOTIVE

Harnessing the power of connected data for game-changing results



















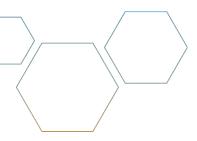
















#### **AGENDA**

Time Check: 75 Minutes

**Intro & Cox Automotive** 

The Economy

**Electric Vehicles** 

**New-Vehicle Market** 

**Used-Vehicle Market** 

**Outlook & Playlist** 

Q&A

Mark Schirmer, Director, Corporate Communications

Jonathan Smoke, Chief Economist

Jonathan Gregory, Senior Manager, Economic and Industry Insights

Charlie Chesbrough, Senior Economist

Chris Frey, Senior Manager, Economic and Industry Insights

Jonathan Smoke, Chief Economist and Resident DJ

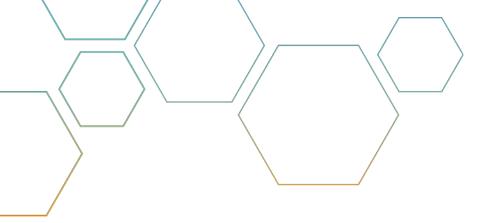
w/ Michelle Krebs, Executive Analyst

Jeremy Robb, Senior Director, Economic and Industry Insights

Rebecca Rydzewski, Research Manager, Economic and Industry Insights

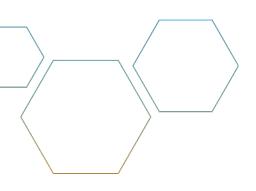






## **JONATHAN SMOKE**

**Chief Economist** 



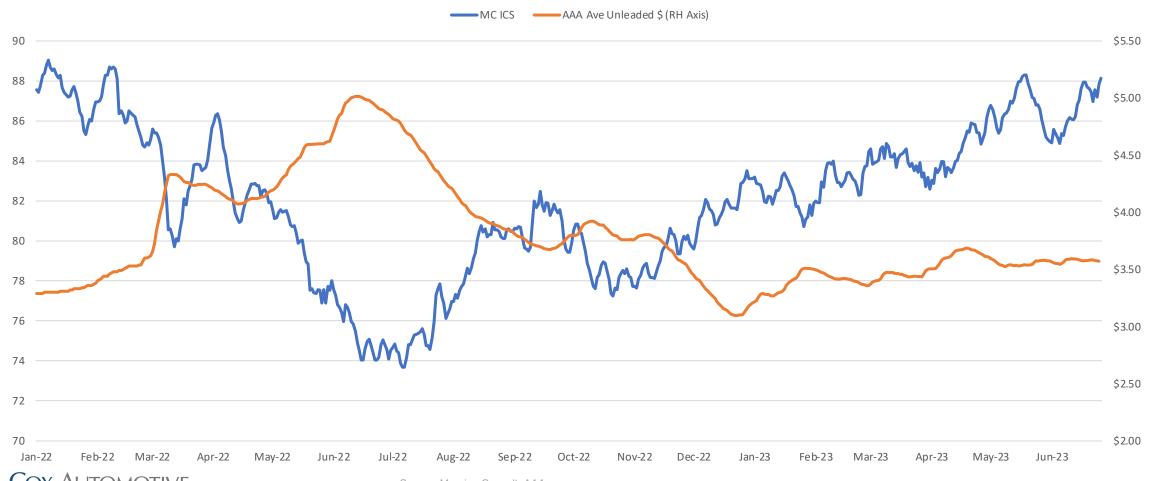




#### **CONSUMER SENTIMENT**

#### Consumer sentiment has been up and down this year

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





#### THE ECONOMY

Overall Economy	Real GDP Growth	-0.6% (Q2 '22)	1.3% (Q1 '22)	+1.4% (Q2 '23 F)	
Employment Conditions	U3 Unemployment Rate	3.6% (May '22)	3.4% (April '23)	3.7% (May '23)	
Buyer Confidence	UofM Consumer Sentiment	50.0 (Jun '22)	59.2 (May '23)	63.9 (Jun '23 P)	
Wages	Earnings Growth	5.5% (May '22)	4.4% (Apr '23)	4.3% (May '23)	
Buyer Ability	Disposable Income Y/Y	-1.5% (Apr '22)	7.9% (Apr '23)		

#### THE ECONOMY

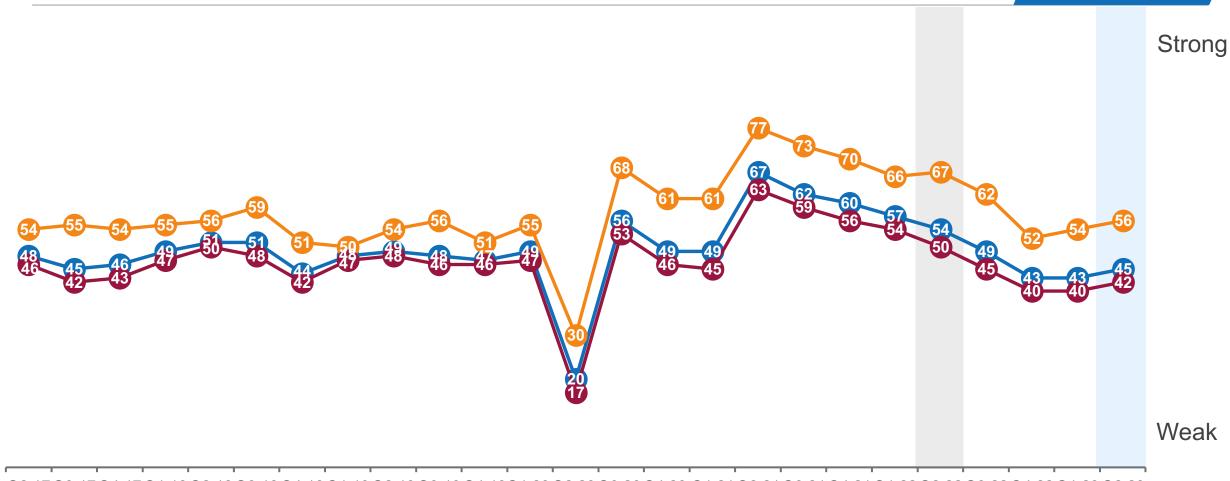
Auto Finance	FRBNY	\$177 billion (Q1 '22)	\$162 billion (Q1 '23)		
Interest Rates	Effective Fed Funds Rate	0.76% (Jun '22)	5.08% (Jun '23)		
<b>Borrowing Costs</b>	Average New Auto Loan Rate	6.25% (Jun '22)	8.99% (Jun MTD '23)		
Mobility Costs	AAA Average Retail Unleaded Gasoline Price	\$4.84 (Jun '22)	\$3.57 (May '23)	\$3.58 (Jun MTD '23)	



#### How would you describe the current market for vehicles in the areas where you operate?

## **Dealer Sentiment Index**

SECOND QUARTER 2023



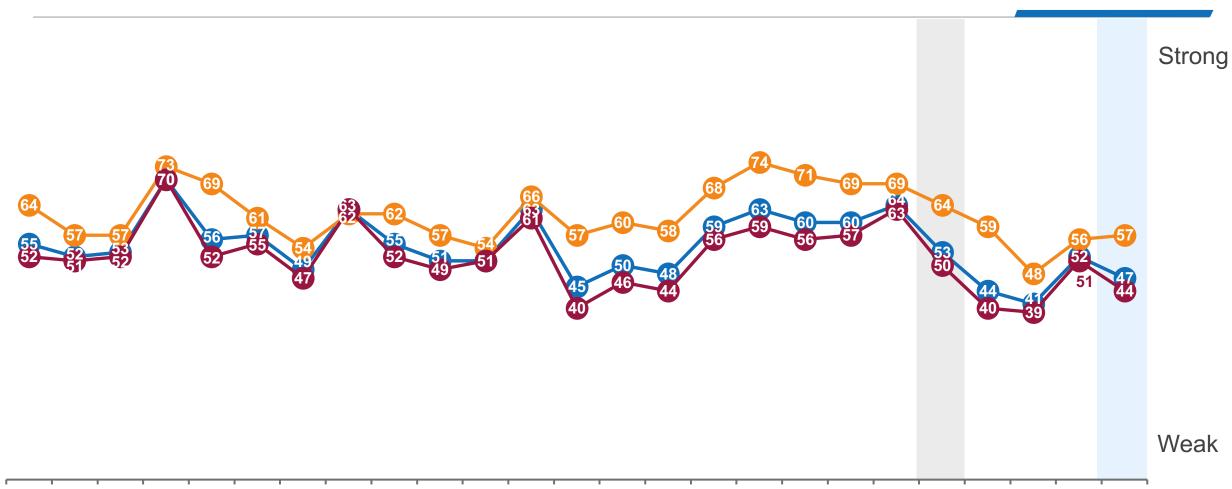
Q2 17 Q3 17 Q4 17 Q1 18 Q2 18 Q3 18 Q4 18 Q1 19 Q2 19 Q3 19 Q4 19 Q1 20 Q2 20 Q3 20 Q4 20 Q1 21 Q2 21 Q3 21 Q4 21 Q1 22 Q2 22 Q3 22 Q4 22 Q1 23 Q2 23



Note: Scale 1 - 100

## What do you expect the market for vehicles in your area to look like 3 months from now?

## Dealer Sentiment Index SECOND QUARTER 2023



Q2 17 Q3 17 Q4 17 Q1 18 Q2 18 Q3 18 Q4 18 Q1 19 Q2 19 Q3 19 Q4 19 Q1 20 Q2 20 Q3 20 Q4 20 Q1 21 Q2 21 Q3 21 Q4 21 Q1 22 Q2 22 Q3 22 Q4 22 Q1 23 Q2 23



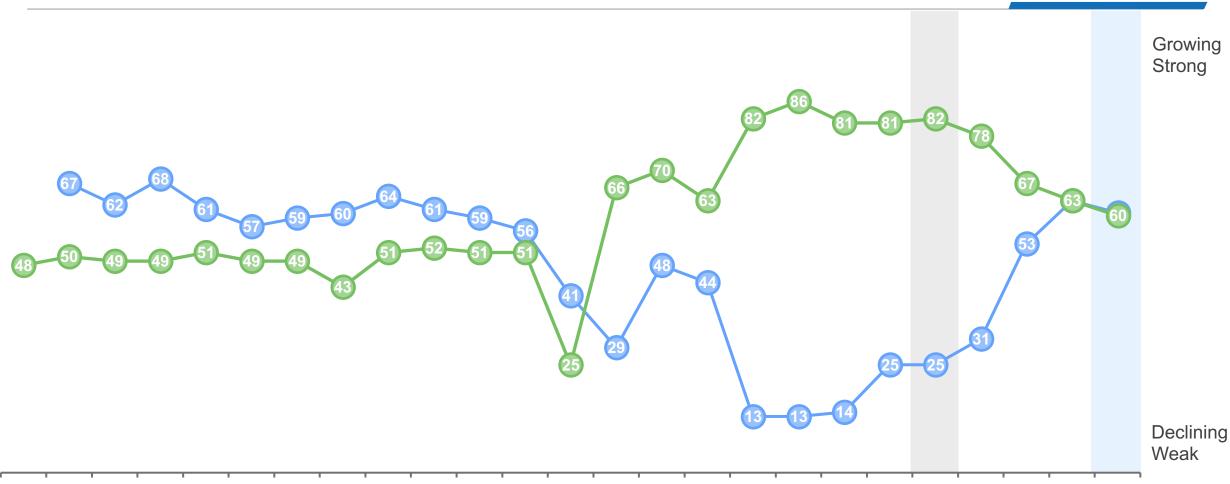
Note: Scale 1 - 100

Cox Automotive

#### **Dealer Sentiment Index**

SECOND QUARTER 2023

Inventory/Profits
Q4: How would you describe your profits over the past 3 months?
Q8: How would you describe the current new-vehicle inventory levels?



Q2 17 Q3 17 Q4 17 Q1 18 Q2 18 Q3 18 Q4 18 Q1 19 Q2 19 Q3 19 Q4 19 Q1 20 Q2 20 Q3 20 Q4 20 Q1 21 Q2 21 Q3 21 Q4 21 Q1 22 Q2 22 Q3 22 Q4 22 Q1 23 Q2 23

New Vehicle Inventory

Franchised Profits

Note: Scale 1 - 100



# *VERALL RANK*

#### **Dealer Sentiment Index**

SECOND QUARTER 2023

#### Factors Holding Back Your Business?

			Q2 '23	Q1 '23	Q2 '22	Q2 '21
	1	Economy	55%	54%	46%	24%
	2	Interest Rates	53%	55%	17%	3%
	3	Limited Inventory	44%	43%	61%	64%
	4	Market Conditions	42%	42%	44%	34%
1	5	Credit Availability for Consumers	30% 👚	26%	17%	14%
	6	Expenses	30%	29%	28%	19%
	7	Political Climate	29% 👚	25%	28%	18%
	8	Consumer Confidence	26%	28%	22%	8%
	9	Competition	12%	12%	11%	15%
	10	Business Impacts From COVID- 19/Coronavirus	11%	11%	20%	28%

Significant decrease vs previous quarter

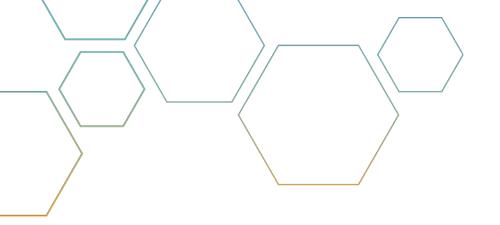
Significant increase vs previous quarter





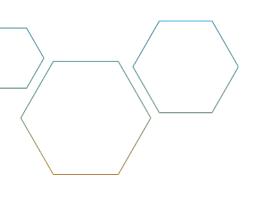
Dealer Sentiment Index Q2 2023





## **JONATHAN GREGORY**

**Senior Manager, Economic and Industry Insights** 





# Path to EV Adoption: Consumer and Dealer Perspectives





Cox Automotive started researching the EV market in 2019 and continues to monitor changing consumer and dealer sentiment. This research focuses on understanding how EVs will change the consumer shopping and ownership experiences along with impacts to the dealership.

**Cox Automotive surveyed...** 

1,024 152
CONSUMERS DEALERS

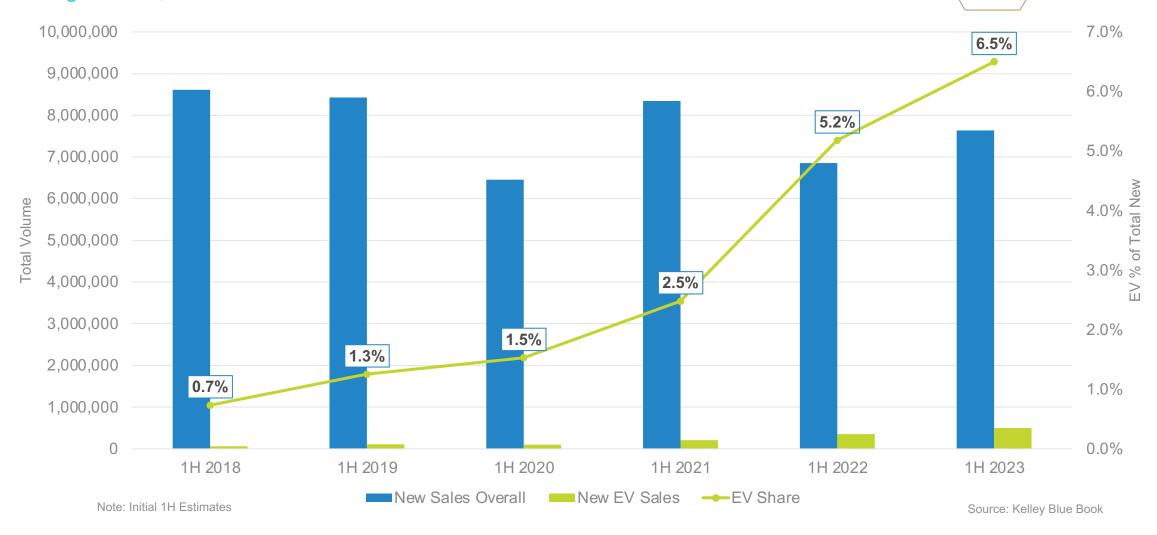
#### **Now Available**

Visit the Cox Automotive Newsroom for more information.



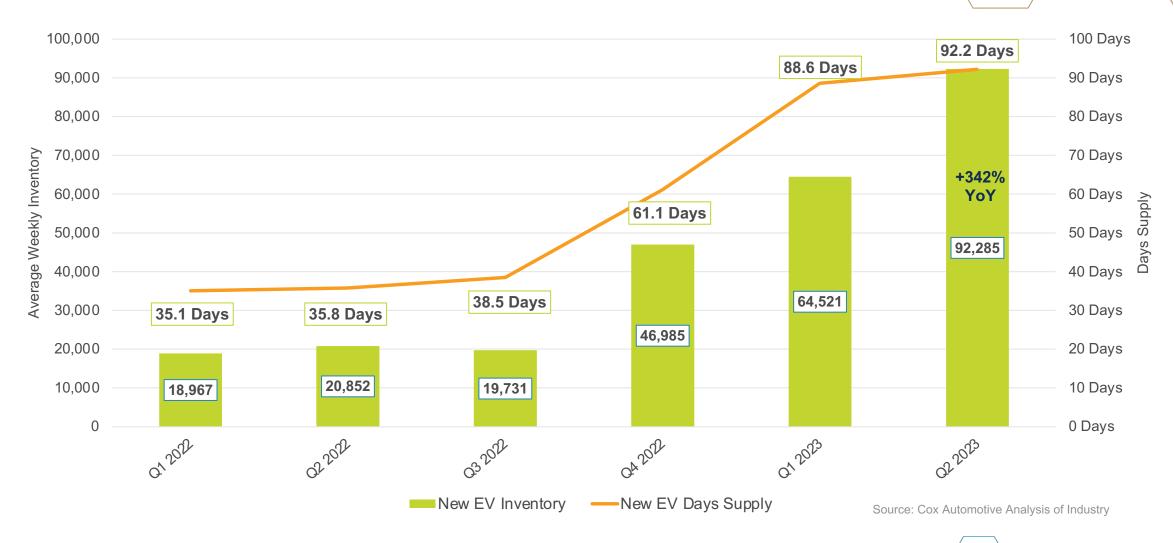
#### **NEW EV SALES HIT CRITICAL MASS**

Through 1<sup>st</sup> half, EV sales estimated at 6.5% of all new-vehicle sales



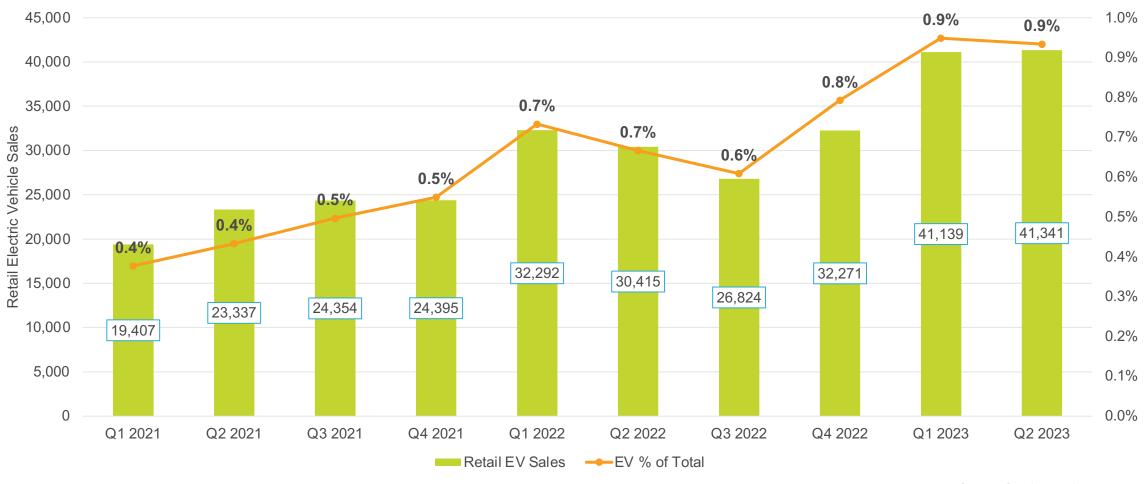
#### **NEW EV INVENTORY & DAYS' SUPPLY ESTIMATES**

EV inventory is having a "Field of Dreams" moment – and days' supply follows



#### **CONSUMER PURCHASES OF RETAIL USED EVS**

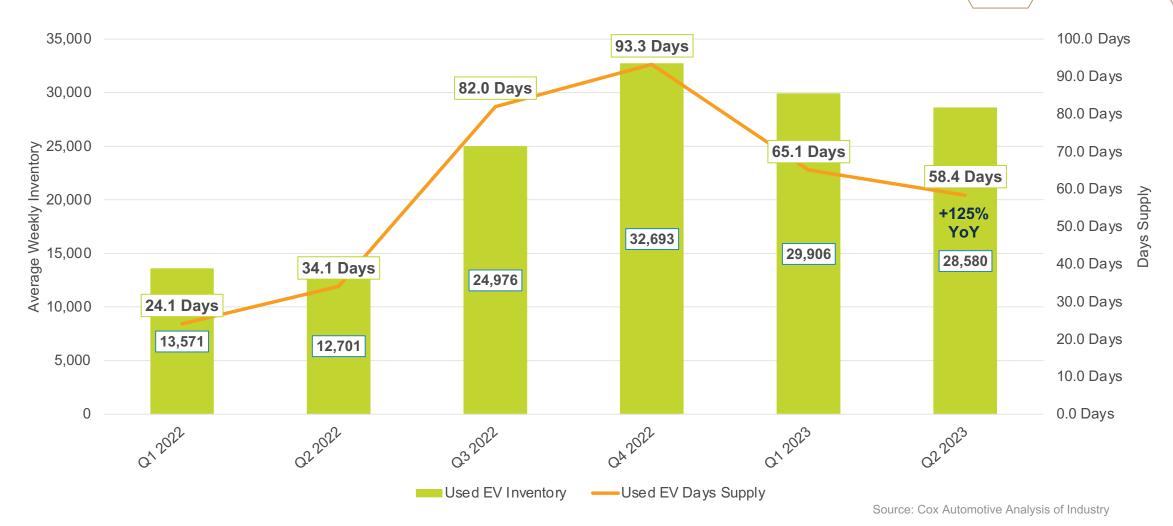
In Q2 2023, EV sales estimates show 36% growth as new units grow supply of used



Source: Cox Automotive

#### **USED EV INVENTORY & DAYS' SUPPLY ESTIMATES**

Used retail EV inventory down since year end and days' supply has declined





#### **RETAIL EV PRICE TRENDS**

The ratio of new to used EV price has continued to drop





Source: Cox Automotive



WITH NEW PRODUCT LAUNCHES, THE EV MARCH IS WELL UNDERWAY

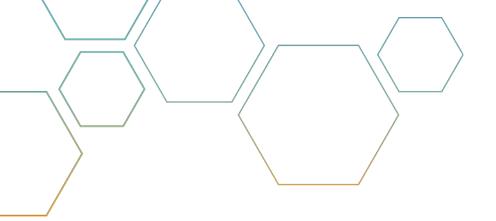


Launches In 2023

50+ In 2024 U.S. NEW EV SALES WILL
SURPASS 1 MILLION UNITS
SURPASS 1 MILLION UNITS
FOR THE FIRST TIME IN 2023.
- Cox Automotive

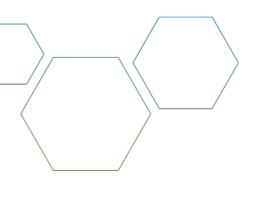






### **CHARLIE CHESBROUGH**

**Senior Economist** 

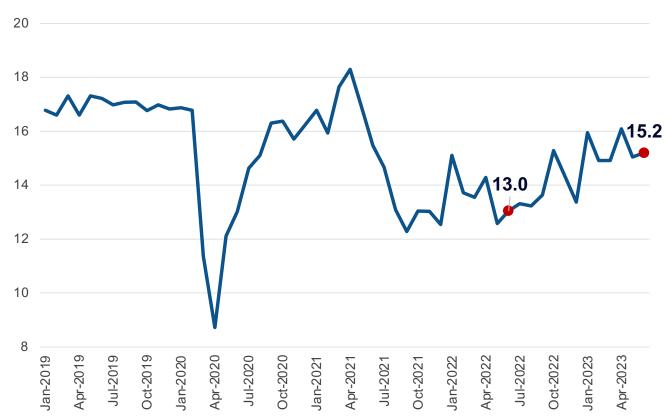




## **NEW-VEHICLE SALES | Strong First Half – Forecast Now 15.0M**

Pace average 15.4 million in H1 but H2 expected to slow

Monthly Light Vehicle Sales SAAR (millions)



Period	Sales	SAAR		
Period	millions	millions		
June 2022	1.14	13.0		
June 2023	1.33	15.2		
Change	16.3%	2.2m		
Q2 2022	3.52	13.3		
Q1 2023	3.59	15.3		
Q2 2023	4.06	15.4		
Y/Y change	15.3%	2.1m		
Q/Q change	13.2%	0.1m		
H1 2022	6.78	13.7m		
H2 2022	6.97	13.9m		
H1 2023	7.61	15.4m		
Y/Y change	12.3%	1.7m		
H/H change	9.2%	0.1m		
CY 2022	13.8 million			
CY 2023	15.0 Forecast	14.2 F		
Change	9.2%			



# **MARKET CHANGES | More Fleet, More Discounts As Expected**



Consumers surprisingly shrug off higher payments and fleet recovery stronger than expected

#### **Pricing Changes**

	YTD Avg 2022	YTD Avg 2023	Difference	YTD Change
Incentives	\$1,468	\$1,613	\$145	9.9%
Transaction Price	\$46,512	\$48,564	\$2,052	4.4%
MSRP	\$45,849	\$48,867	\$3,018	6.6%
Premium	+\$663	-\$303	\$966	
Loan Payment	\$691	\$784	\$93	13.5%
Lease Payment	\$568	\$684	\$117	20.6%
Avg Loan APR	4.86	7.09	2.23	45.8%

#### **Channel Changes**

Channel	YTD Sales Change	YTD Share 2022	YTD Share 2023	Share Difference
Retail Purchase	3.6%	68.6%	65.5%	-3.1%
Retail Lease	-0.0%	17.0%	15.6%	-1.4%
Retail Total	2.8%	85.7%	81.1%	-4.6%
Fleet Rental	52.4%	7.8%	11.0%	3.2%
Fleet Other	31.7%	6.5%	7.9%	1.4%
Fleet Total	43.0%	14.3%	18.9%	4.6%



#### **OEM PERFORMANCE | Most Show Gains Over Last Year**

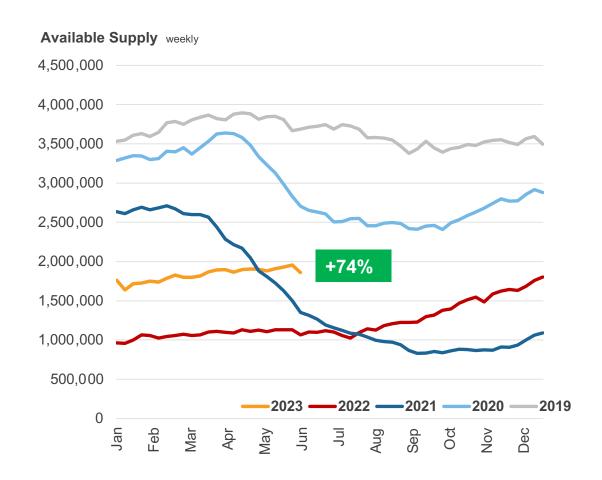
GM wins H1 sales, but Tesla and Honda see strong gains

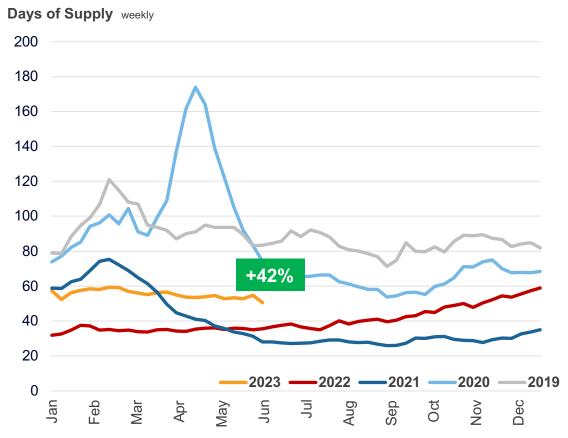
OEM	Q2 2022	Q1 2023	Q2 2023	Q/Q	Y/Y	H1 2022	H2 2022	H1 2023	Y/Y	н/н	Share CY2022	Share H1 2023	Change
GM	578,639	599,187	675,417	12.7%	16.7%	1,087,761	1,170,668	1,274,604	17.2%	8.9%	16.3%	16.7%	0.4%
Toyota	531,105	469,558	555,402	18.3%	4.6%	1,045,697	1,062,760	1,024,960	-2.0%	-3.6%	15.2%	13.4%	-1.8%
Ford	480,558	471,861	523,717	11.0%	9.0%	909,732	941,193	995,578	9.4%	5.8%	13.3%	13.0%	-0.3%
Hyundai	380,282	382,354	434,160	13.5%	14.2%	702,875	771,349	816,514	16.2%	5.9%	10.6%	10.7%	0.1%
Stellantis	408,521	368,327	433,992	17.8%	6.2%	813,742	733,334	802,319	-1.4%	9.4%	11.1%	10.5%	-0.7%
Honda	239,789	284,507	350,220	23.1%	46.1%	506,207	477,300	634,727	25.4%	33.0%	7.1%	8.3%	1.2%
Nissan-Mitsu	205,043	256,756	268,330	4.5%	30.9%	432,524	382,636	525,086	21.4%	37.2%	5.9%	6.9%	1.0%
Tesla	130,047	161,630	167,507	3.6%	28.8%	259,790	262,654	329,137	26.7%	25.3%	3.8%	4.3%	0.5%
Subaru	131,449	143,376	156,942	9.5%	19.4%	263,795	292,786	300,318	13.8%	2.6%	4.0%	3.9%	-0.1%
VW	145,822	138,056	151,094	9.4%	3.6%	259,362	298,647	289,150	11.5%	-3.2%	4.0%	3.8%	-0.2%
Mazda	60,535	88,384	97,564	10.4%	61.2%	142,803	152,106	185,948	30.2%	22.2%	2.1%	2.4%	0.3%
BMW	84,036	89,750	93,294	3.9%	11.0%	164,626	197,266	183,044	11.2%	-7.2%	2.6%	2.4%	-0.2%
Daimler	98,835	75,701	91,207	20.5%	-7.7%	174,774	176,175	166,908	-4.5%	-5.3%	2.5%	2.2%	-0.3%
Geely	30,055	28,823	33,298	15.5%	10.8%	54,322	57,187	62,121	14.4%	8.6%	0.8%	0.8%	0.0%
Tata	12,545	20,077	18,779	-6.5%	49.7%	30,738	37,808	38,856	26.4%	2.8%	0.5%	0.5%	0.0%
Rivian	4,467	7,946	8,171	2.8%	82.9%	5,694	14,638	16,117	183.1%	10.1%	0.1%	0.2%	0.1%
Nation	3,522,210	3,587,809	4,061,201	13.2%	15.3%	6,855,384	7,030,221	7,649,010	11.6%	8.8%	100%	100%	



#### **NEW-VEHICLE INVENTORY | Up 74% From Last Year**

Nearly 793K more vehicles than year ago – Days of Supply at 51



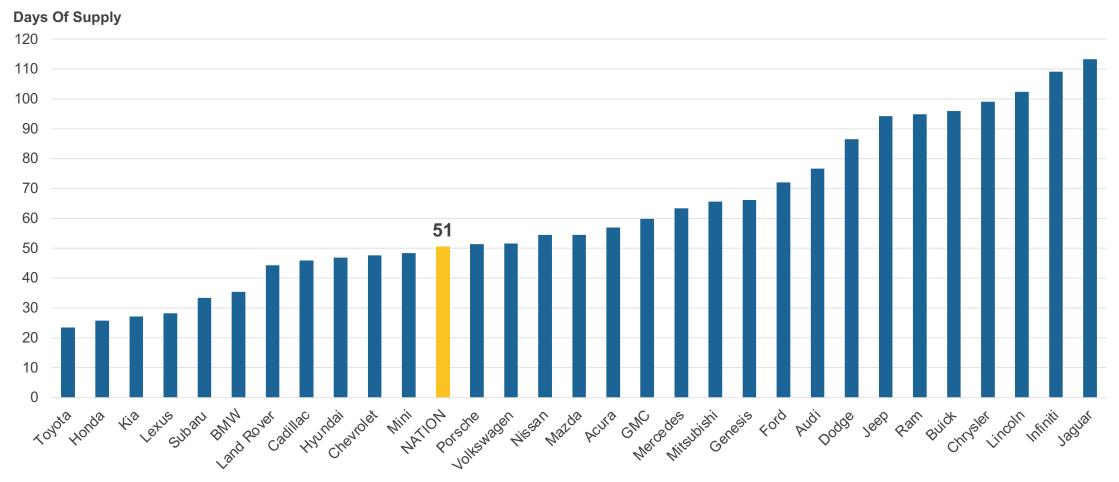




Source: Cox Automotive, vAuto

#### **BRAND INVENTORY | Supply Situation Remains Varied**

Many brands have returned to pre-covid levels while others remain constrained



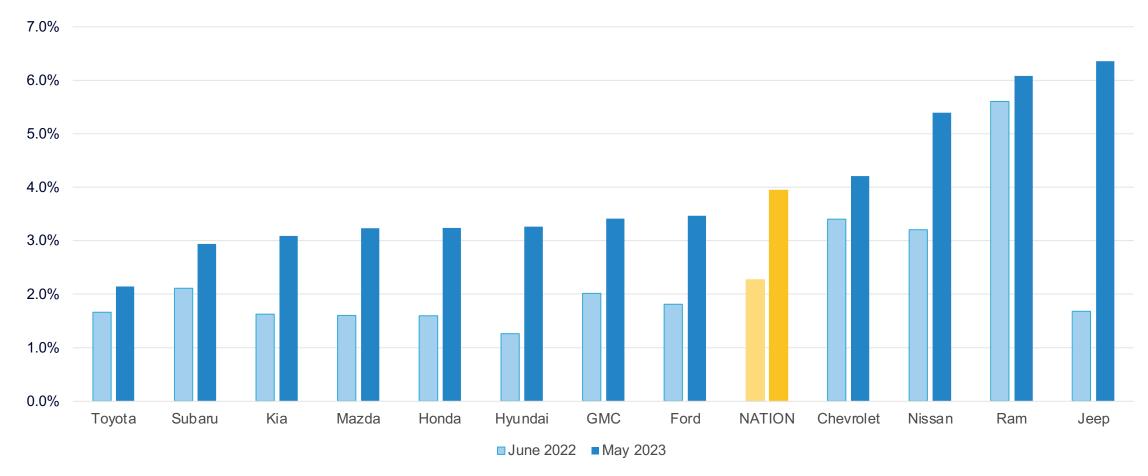


# **BIG BRAND DISCOUNTING** | As Supply Changes, So Does Pricing



All increasing incentives but some much more than others

#### **Incentive % of Transaction Price**



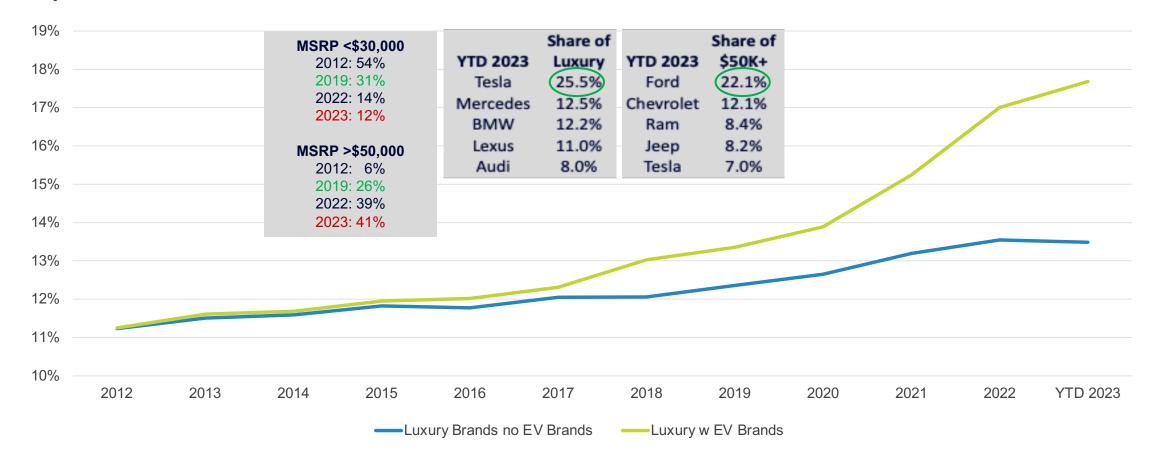




#### **LUXURY BRAND SHARE** Lines Blurring As Prices Rise

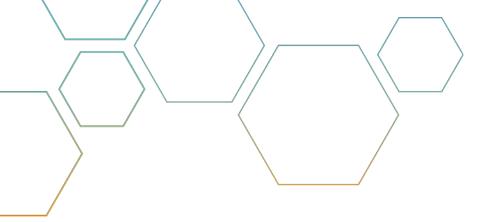
Higher-end brands gaining, but Tesla is clearly a significant force

#### Luxury Brands' Share of US Sales



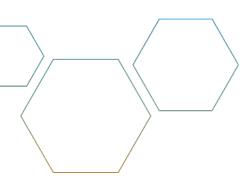






### **CHRIS FREY**

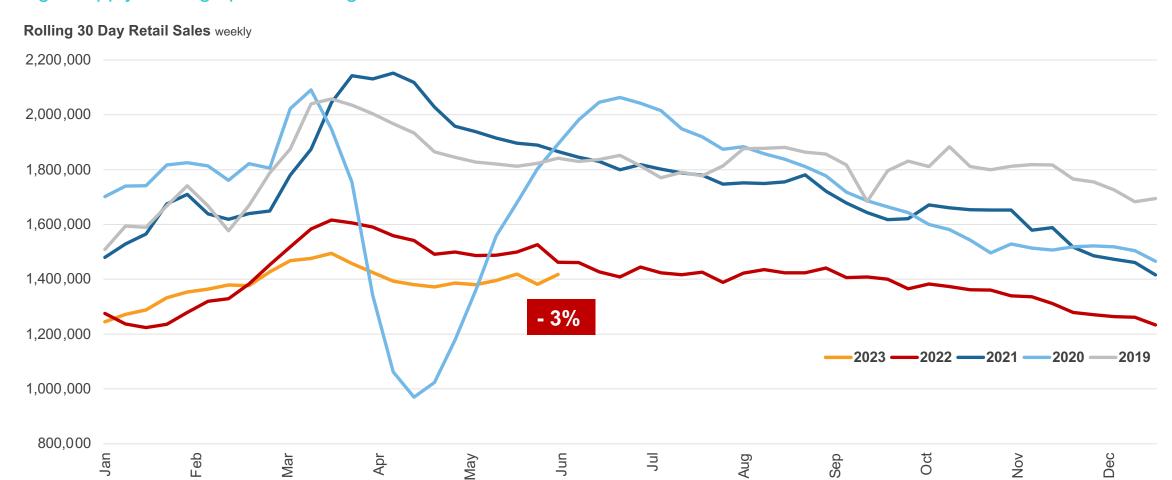
**Senior Manager, Economic and Industry Insights** 





#### **USED-VEHICLE SALES PERFORMANCE**

#### Tight supply and high prices limiting sales

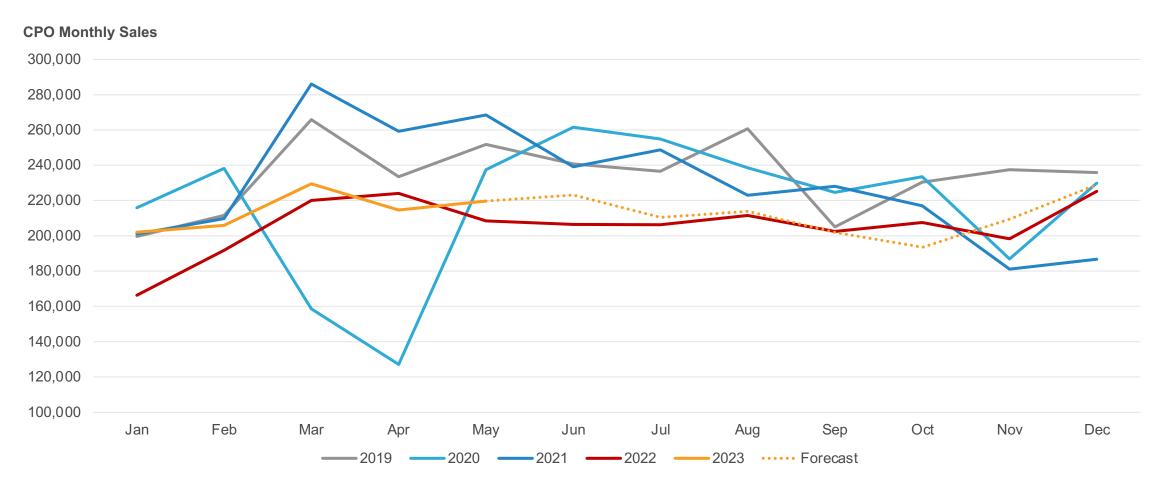




#### **CERTIFIED PRE-OWNED (CPO) MARKET**



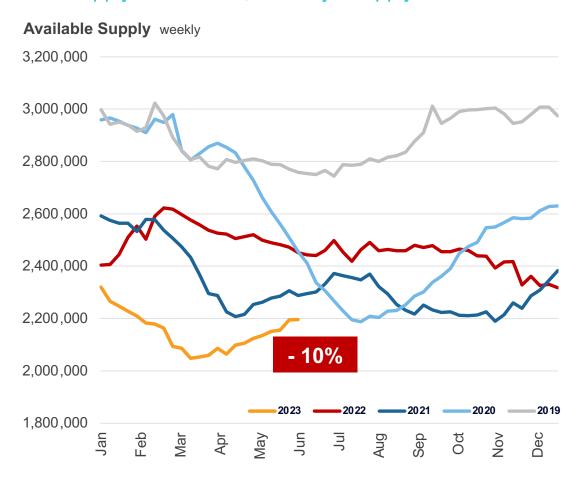
Outlook difficult to assess – limited off-lease supply in coming years, but expanded eligibility supporting sales

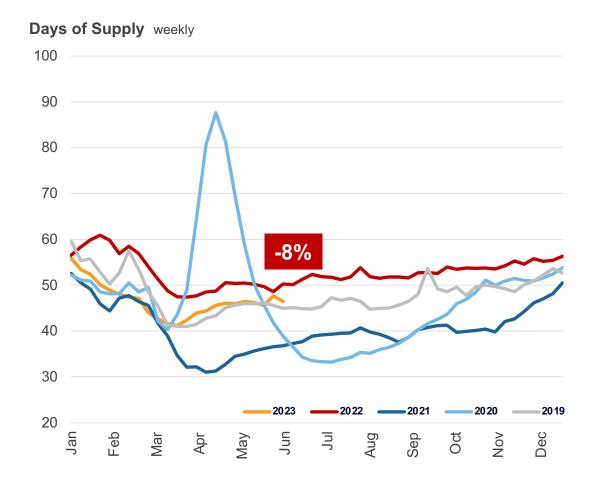




# **USED-VEHICLE INVENTORY MOVEMENT**

## Total supply down 256K, and days' supply now at 46

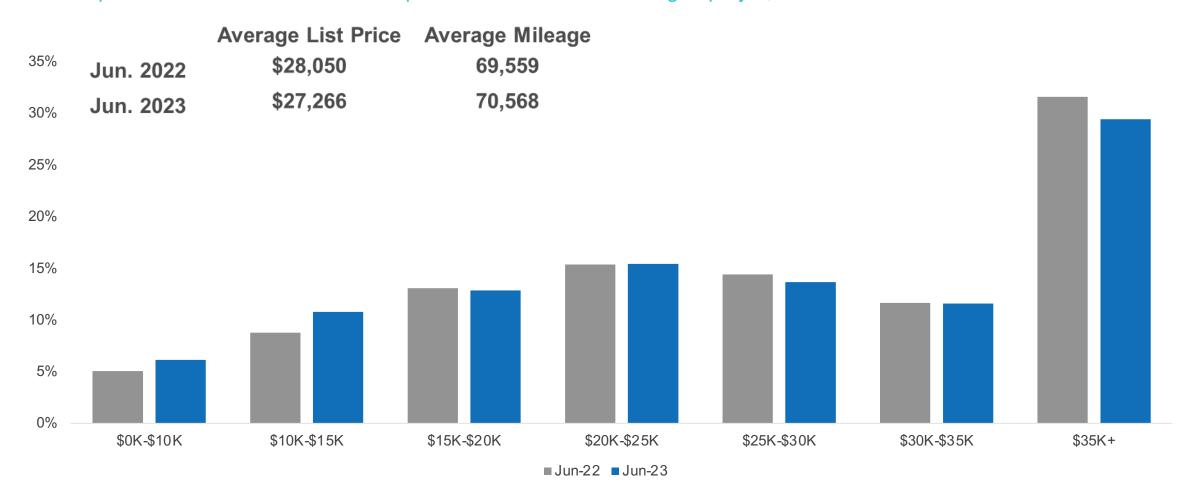






## RETAIL INVENTORY BY PRICE SEGMENT

Similar pattern to our March data – YoY price down ~\$800 but mileage up by 1,000.



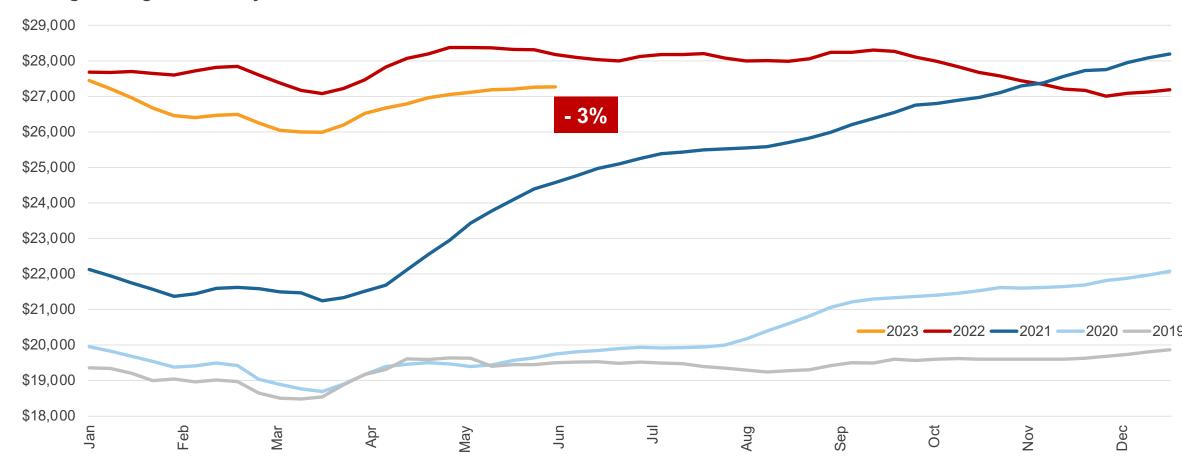




# **USED-VEHICLE PRICE MOVEMENT**

Settling into last year's trend, but slightly lower

## **Average Listing Price weekly**

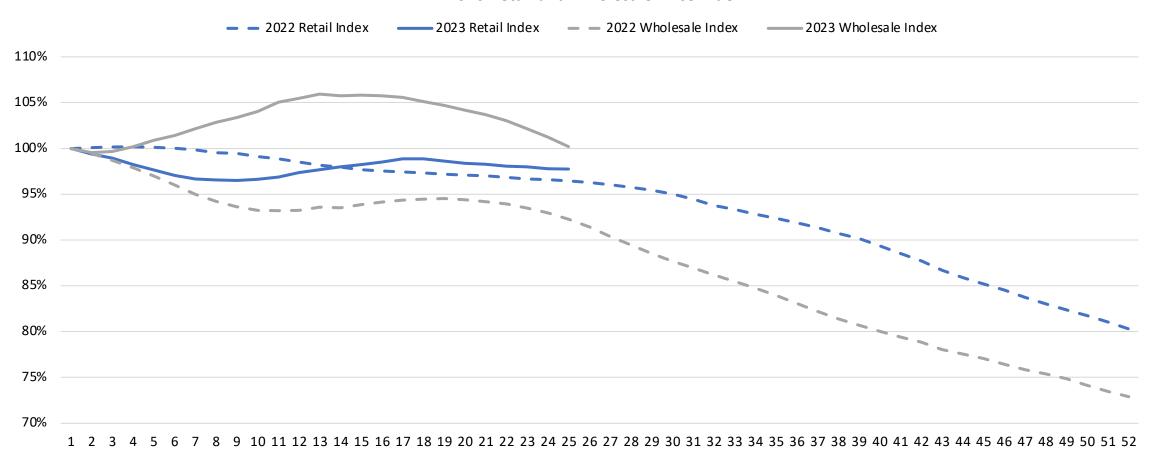




## WHOLESALE AND RETAIL PRICE MOVEMENT

Trends are converging, though the dip in wholesale suggests a dip in retail is on the way

## MY 2020 Retail and Wholesale Price Index



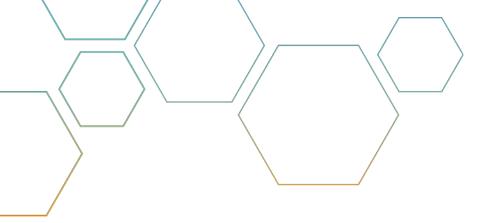


# **USED-VEHICLE OUTLOOK**

High new prices pushing more buyers into used market, but rates will impede sales recovery

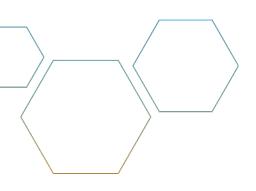
### **USED-VEHICLE SALES OUTLOOK (MILLIONS)** 41.0 40.0 39.0 38.0 37.0 36.0 35.0 34.0 2012 2016 2014 2018 2020 2025 2026 2028 2021 2022 2023 2024 **COX AUTOMOTIVE COX AUTOMOTIVE** 2021 2022 2024 2020 2021 2022 2023 2024 2020 2023 **RETAIL FORECASTS FULL-YEAR FORECASTS** 19.8 21.2 19.1 18.9 19.4 37.3 40.6 36.3 **35.7** 36.4





# **JONATHAN SMOKE**

**Chief Economist** 



COX AUTOMOTIVE











15.0M NEW SALES

(original 2023: 14.1M)

12.4M
NEW RETAIL SALES

(original 2023: 11.9M)

2.6M FLEET SALES

(original 2023: 2.2M)

2023 FORECASTS

First Half Update

**2.3M** 

NEW LEASE VOLUME

(original 2023: 2.5M)

19%

LEASE PENETRATION

(original 2023: 21%)



2.6M CPO SALES

(original 2023: 2.2M)



35.7M USED SALES

(original 2023: 35.6M)



18.9M
USED RETAIL SALES

(original 2023: 18.9M)



-1.1%

USED VEHICLE VALUE INDEX

(original 2023: -4.3%)



## **SUMMER PLAYLIST**



Dancing on the Ceiling
By Lionel Richie

US credit-defaultinduced recession is off the table



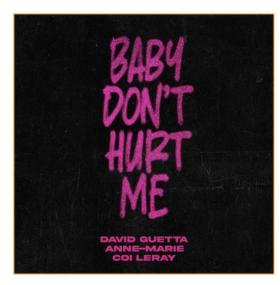
Livin' On a Prayer By Bon Jovi

A slowing economy but we're halfway through 2023 and no recession



Meltdown By Niall Horan

Wholesale used car prices falling again, but just know this too shall pass



Baby Don't Hurt Me By David Guetta, Anne-Marie, and Coi Leray

Dear Fed, resist the urge to raise again



# MORE AUTO INDUSTRY DATA AND INSIGHTS FROM COX AUTOMOTIVE



The go-to source for insights based on the largest breadth of first-party data in the automotive ecosystem

Cox Automotive Newsroom: www.coxautoinc.com/newsroom/

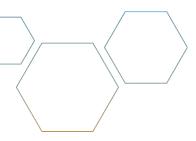
Fresh content from Chief Economist Jonathan Smoke and the Industry Insights team is published regularly.

**Auto Market Snapshot**: <u>www.coxautoinc.com/marketsnapshot</u>

This dashboard is a one-stop dashboard for the most recent data points our team is tracking.

From the Newsroom: www.coxautoinc.com/signup

The Cox Automotive biweekly newsletter, published every other Tuesday, is a round-up of news from Cox Automotive and perspectives from its analysts and experts on topics dominating the automotive industry.





# **THANK YOU FOR ATTENDING!**

Contact us with questions or to speak with an expert:

## **Dara Hailes**

Senior Manager
Cox Automotive Corporate Communications
<a href="mailes@coxautoinc.com">dara.hailes@coxautoinc.com</a>

## **Mark Schirmer**

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

Cox Automotive

