# READING THE NETER A look inside a cleaner, safer, smarter auto industry.



#### **ALLIANCE FOR AUTOMOTIVE INNOVATION**

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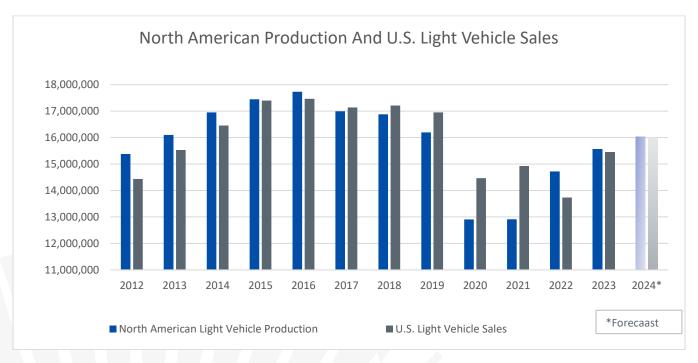


## Forecast Meter

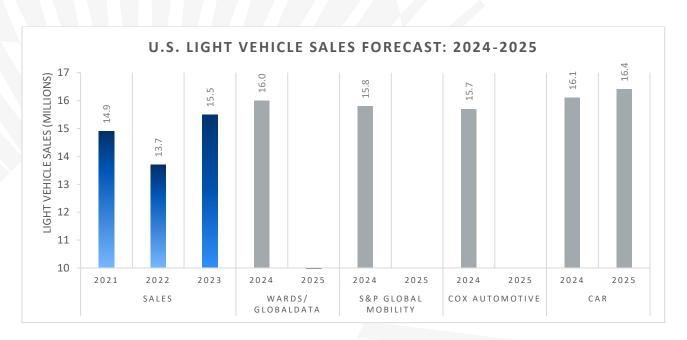
# Sales & Production Summary and Forecast (Updated 7/22)

	U.S. Sales & Forecasts	North American Production	
January '23	1,033,002 (+4.2% YoY)	1,195,548 (+12.9% YoY)	
February '23	1,136,332 (+8.7% YoY)	1,257,482 (+15% YoY)	
March '23	1,365,966 (+8.6% YoY)	1,442,991 (+6.7% YoY)	
April '23	1,347,159 (+13.1% YoY)	1,281,626 (+8.6% YoY)	
May '23	1,362,019 (+18.0% YoY)	1,462,273 (+25.5% YoY)	
June '23	1,370,976 (+19.9% YoY)	1,387,090 (+13.8% YoY)	
July '23	1,299,199 (+19.9% YoY)	1,173,342 (+15.6 YoY)	
August '23	1,328,526 (+12.8% YoY)	1,467,284 (+4.5% YoY)	
September '23	1,331,952 (+13.9% YoY)	1,353,072 (+7.6% YoY)	
October '23	1,200,286 (+5.7% YoY)	1,388,720 (+4.5% YoY)	
November '23	1,218,647 (+7.3% YoY)	1,372,253 (+8.1 YoY)	
December '23	1,433,266 (+17.3 YoY)	1,082,176 (-2.3% YoY)	
January '24	1,076,047 (-1.3% YoY)	1,327,765 (+7.8% YoY)	
February '24	1,247,516 (+5.2% YoY)	1,358,836 (+10% YoY)	
March '24	1,438,012 (+4.6% YoY)	1,414,502 (-5.7% YoY)	
April '24	1,313,512 (+0.6% YoY)	1,473,567 (+15.9% YoY)	
May '24	1,429,028 (+0.8% YoY)	1,485,373 (-1.7% YoY)	
June '24	1,321,932 (-3.4% YoY)	1,346,584 (-6.1% YoY)	
2023 Full Year	15,457,447 (+12.4% YoY)	16,144,461 (+9.3% YoY) (U.S. 10,611,580)	
2024 Estimate	16.1 M	16.0 M (U.S. 10.8M)	





## U.S. Light Vehicle Sales Outlook (Updated 7/9)



Wards Intelligence Outlook (6/5)<sup>4</sup>: "Third-quarter U.S. light-vehicle sales should get a jumpstart of sorts because of delayed sales created in June from a cyberattack on software used by dealers to finalize transactions and service orders.



"The estimated reduction in June sales of 50,000 units meant that inventory entering July was artificially higher because of vehicles still on dealer lots that otherwise would have been sold.

"Sales in the entire third quarter are forecast for volume of 4.04 million units, 2.1% above the year-ago period. The volume equates to a SAAR of 16.3 million units, up from 15.7 million in both Q2-2024 and like-2023."

**Cox Automotive Forecast (6/26):** "Cox Automotive forecasts U.S. new-vehicle sales in June to show mild improvement over last year, but high prices and interest rates continue to hinder a stronger market. In June, the seasonally adjusted annual rate (SAAR), or sales pace, is expected to finish near 16.0 million. This is down slightly from last June's 16.1 million level and a modest uptick from last month's 15.9 million pace.

"According to Cox Automotive's Kelley Blue Book estimates, new-vehicle sales volume through the first half of 2024 is forecast to increase by nearly 225,000 units compared to the first half of 2023 – an increase of 2.9%. The sales pace through the first half is expected to be 15.6 million, up from 15.4 million in the first half of 2023.

"With expectations of uncertainty in the second half of 2024, Cox Automotive is holding its full-year new-vehicle sales forecast steady at 15.7 million, a gain of 1.3% from 2023, when sales finished at 15.5 million. This increase is aligned with the slow growth expected in 2024. Fleet sales are forecast to finish the year at 2.9 million, up from 2.8 million in 2023. Full-year retail sales are forecast to increase from 12.8 million in 2024 to 12.7 million in 2023."

**J.D. Power (6/26)<sup>6</sup>:** "New-vehicle retail sales for June 2024 are expected to decrease when compared with June 2023. Retail sales of new vehicles are expected to reach between 1,009,845 and 1,073,000 units, a 2.5% to 8.2% decrease. New-vehicle retail sales for the first six months 2024 are projected to reach between 6,273,900 and 6,337,000 units, a 0.6% to 1.6% increase from the first six months of 2023 on a selling day adjusted basis. Comparing the same sales volume without adjusting for the number of selling days translates to an increase of 1.9% to 2.9% from a year ago."

#### North American Production & Inventory Outlook (Updated 7/22)

**Wards Intelligence Production Outlook (7/22)**?: "North America production of light vehicles and heavy-medium-duty trucks combined increased year-over-year for the ninth consecutive quarter in Q2-2024, while Q3 is tracking to become the first quarterly period to outperform pre-Covid 2019 in nearly four years.

"Growth is expected to resume in July, with production tracking to a 2.0% year-over-year increase, followed by gains of 2.5% and 2.9% in August and September, respectively. Third-quarter output is tracking to a total of 4.175 million units, up 2.5% from like-2023, and 1.2% above July-September 2019. The Q3 total will mark the first time since Q4-2020 a guarter has outperformed its pre-pandemic 2019 total.

"Production in first-half 2024 totaled 8.412 million units, a 2.3% increase in like-2023's 8.226 million. Including the third-quarter projection, 9-month 2024's total of 12.587 million also is 2.3% above the year-ago total - 12.300 million."

**S&P Global Mobility Outlook (7/22)8:** "North America: The outlook for North America light vehicle production was reduced by 125,000 units and by 256,000 units for 2024 and 2025, respectively (and reduced by 90,000 units for 2026). The outlook for North American light vehicle production has been revised down over the short-term horizon on the need for a greater inventory correction that is predominantly centered around the Detroit 3 manufacturers of GM, Ford and Stellantis where inventory for many vehicles is at excessive levels. Production in 2024 was revised down 0.8% as more proactive plant level actions, such as line rate and



shift reductions and downtime are incorporated into the forecast that cascade into 2025. Manufacturers are for the first time in over four years grappling with market realities compared to years of struggling to produce vehicles. Several manufacturers, particularly GM, Ford and Stellantis, are struggling to balance their sales, production, inventory and incentives targets as the market returns to more normal dynamics. Production in North America for 2025 was revised down a fairly significant 1.6% as part of the larger inventory correction process, particularly for the Detroit 3 automakers. The outlook for 2026 was revised down 0.5% on vehicle program re-timings and revised launch curves for several new vehicles, most notably for the launch of the Ram 1500 in Mexico."

Wards Intelligence Inventory Outlook (7/9) 9: "Inventory will decline at the end of July from June, mainly because several North America plants close for one to two weeks for vacation or tooling changes for model-year changeovers.

"Inventory is expected to remain relatively flat in August before posting steady month-to-month increases through November – inventory typically declines in December because of widespread production slowdowns due to the holiday season.

"Inventory is forecast to end the third quarter at 2.87 million units, up 39.0% year-over-year, and end the year at 2.80 million, up 21.5%.

#### Market Meter

#### U.S. Light Vehicle Sales (Updated 7/9)

#### Monthly Sales (Updated 7/9)

This chart helps to put into context the monthly retail sales due to the COVID pandemic and showing the relative drop in sales compared to the 2008 financial crisis.





#### June Sales (Updated 7/9)

**WardsIntelligence**\_10: "U.S. light-vehicle sales fell short of expectations in June, evidently because of the a cyberattack at CDK, a third party used by over 15,000 dealers in the U.S. and Canada for their dealer management services, which includes processing new-vehicle sales.

"Without figuring in an estimate for any losses caused by the cyberattack, Wards Intelligence previously projected that June sales were tracking to a total of 1.37 million units, up 0.2% from the year-ago month. Based on the forecast, the month's final sales of 1.32 million indicate volume losses from the cyberattack totaled 50,000.

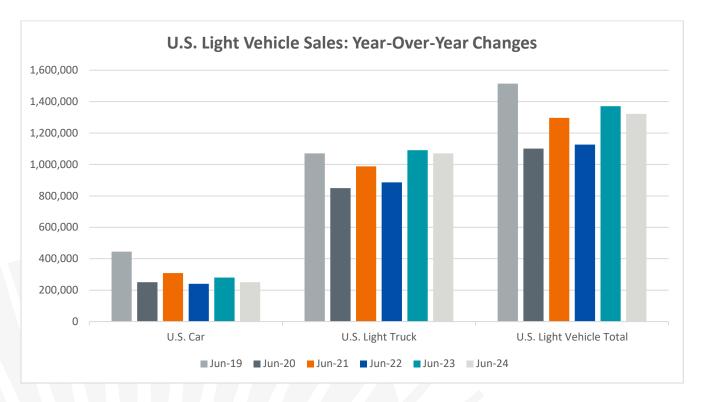
"CDK reportedly has said the issue is largely resolved. If so, the lost volume mostly – if not all - should be recouped in July.

"June's final total was 3.4% below same-month year-ago. The month's daily selling rate was 50,844, compared with like-2023's 52,643 – 26 selling days both periods.

"The seasonally adjusted annual rate, projected at 15.9 million without CDK-related losses, was 15.3 million, down from the year-ago total of 16.1 million. The 600,000-unit difference in the final from the forecasted total, means July's SAAR should finished roughly that much higher than otherwise, if June's losses are totally recouped.

"June's disruptions caused quarterly sales to decline year-over-year for the first time since Q3-2022. Sales in second-quarter 2024 totaled 4.075 million units, down 0.4% from like-2023's 4.090 million. The Q2 SAAR of 15.7 million units was flat with the year-ago total but still higher than Q1's 15.3 million."

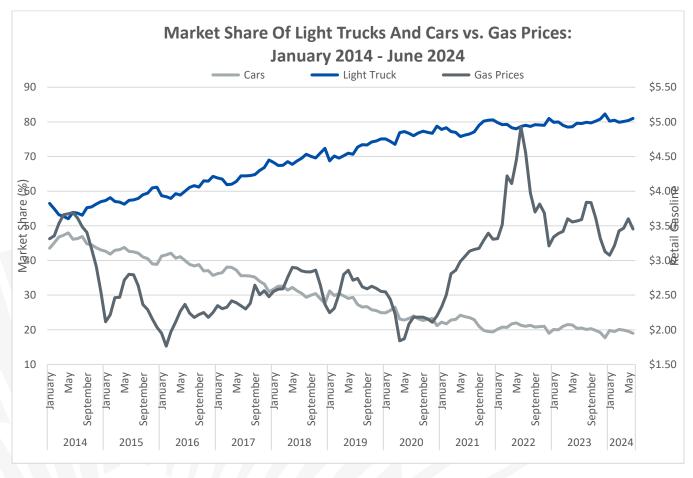




## Segments vs. Gas Prices (Updated 7/9)

**Monthly Sales For May:** Light trucks accounted for 81 percent of sales in June, up slightly from the market share a year ago. Compared to the same period in 2023, sales of cars are down by 29,175 units, and down more than 193,000 from June 2019, when cars comprised 29% of the market as opposed to the 19 percent of the market passenger cars have now.

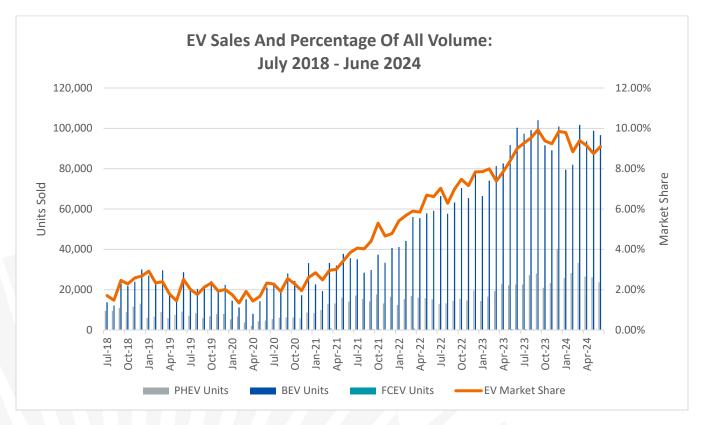




## EV Powertrain Sales (Updated 7/9)

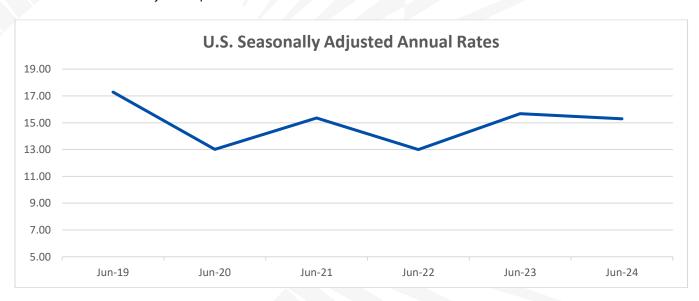
Sales of electric vehicles (BEV, PHEV, & Fuel Cell) accounted for 9.1 percent of total vehicle sales in June 2024 (120,341), per Wards estimates. Market share increased 0.36 percentage points (pp) from May 2024. June's EV market share is up 0.1 pp from a year ago. Sales of battery electric vehicles led the way for EVs, accounting for 7.3 percent of total sales, flat with June 2023. Plug-in hybrids accounted for 1.8 percent, up 0.14 pp from the same time last year.<sup>14</sup>





## Seasonally Adjusted Annual Rates (Updated 7/9)

**WardsIntelligence**<sup>15</sup>: "The seasonally adjusted annual rate, projected at 15.9 million without CDK-related losses, was 15.3 million, down from the year-ago total of 16.1 million. The 600,000-unit difference in the final from the forecasted total, means July's SAAR should finished roughly that much higher than otherwise, if June's losses are totally recouped."





#### Average Transaction Price (Updated 7/22)

**J.D. Power (Updated 7/22)**<sup>16</sup>: "The average new-vehicle retail transaction price is declining compared with a year ago as manufacturer incentives rise, retailer profit margins decline and availability of lower-priced vehicles increases. Transaction prices are trending towards \$44,857—down \$1,372 or 3%—from June 2023."

Note: JKBB's June ATP update unavailable as of 7/22

**Kelley Blue Book (May) (Updated 6/26)**. "New-vehicle prices in May remained lower year over year for the eighth consecutive month, as higher inventory levels continued to hold downward pressure on transaction prices. Last month, according to estimates by Kelley Blue Book, the average transaction price (ATP) for a new vehicle in the U.S. was \$48,389, statistically unchanged from the downwardly revised price of \$48,368 in April. The new-vehicle ATP in May was lower year over year by 0.9%, approximately \$442.

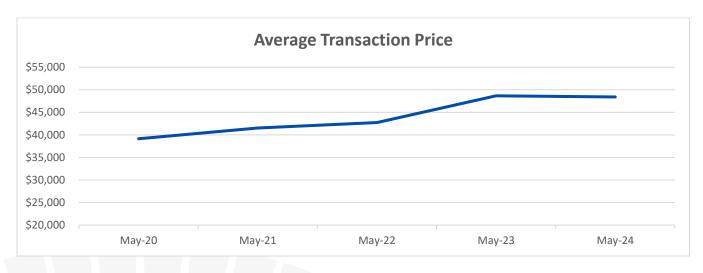
"Higher incentives helped make new vehicles more affordable in May. The average new-vehicle incentive package – discounts and rebates included – last month was 6.7% of the average transaction price, according to Kelley Blue Book estimates, an increase from April and the highest level since May 2021. Incentives in May were approximately \$3,200, notably higher than one year ago when discounts were measured at 4.0% of ATP.

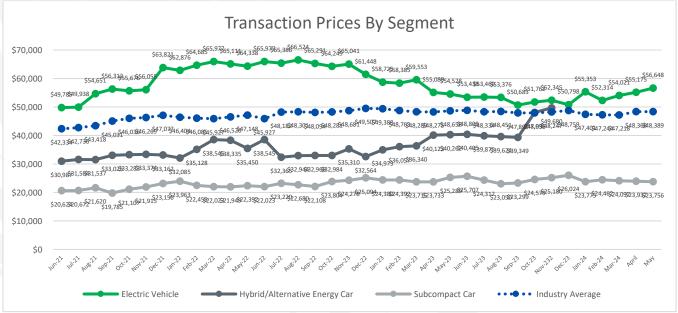
"Tesla prices, which bottomed out in late 2023, are estimated to have increased by 3.1% month over month to \$57,369 in May. Prices were higher year over year by 1.5%. Since January, when Tesla ATPs stood at \$51,892, the EV maker's average transaction price has increased by more than 10%, lifted in some part by growing Cybertruck sales – an estimated 3,000 were sold in May. Average transaction price: \$108,667.

"As Tesla is a bellwether for the overall EV market – with a nearly 50% share of total EV sales – overall EV transaction prices also increased in May. The average price paid for an electric vehicle in May was \$56,648, which is 2.6% higher than in April. Unlike Tesla, though, industry-wide EV prices in May were lower year over year by 4.1%. EV incentives continue to run much higher than the overall market. In May, the average incentive package for an electric vehicle was 12.4% of the ATP, up from April and 5.7 percentage points higher than the industry average.

"Overall, new EV prices peaked in the summer of 2022, during the last gas price surge, and have since generally been on the decline. This year, EV prices have been volatile on a month-to-month basis and fell to a low in March before increasing again in April and May. EV ATPs in May were approximately 17% higher than the industry average ATPs. One year ago, the EV premium was 21%."







#### Auto Loan Financing (Updated 7/22)

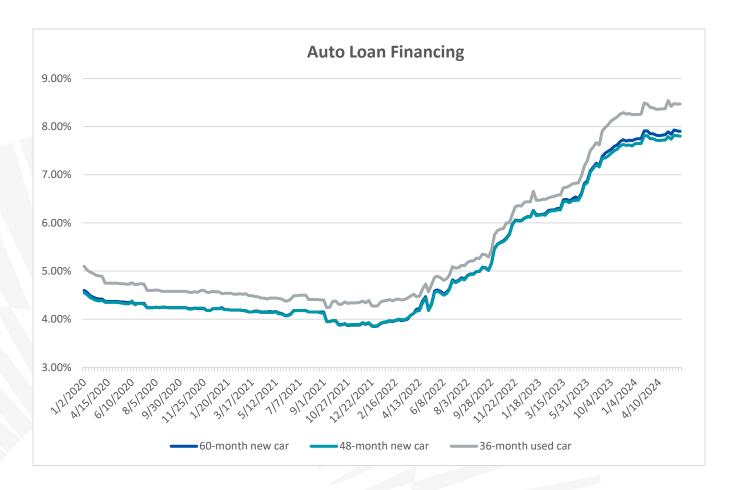
**Interest Rates (updated 7/22):** Interest rates dipped slightly on the 60-month, 48-month and held steady on the 36-month used car loans over the past two weeks. Rates now stand at 7.90%, 7.80%, and 8.47%, respectively. Since the beginning of 2020, 60-month rates are up 3.30 pp, and are up 0.66 pp since the same time a year ago.<sup>18</sup>

**JD Power (6/26)**<sup>19</sup>: "After rising consistently during the past few years, average monthly loan payments are stabilizing. The average monthly finance payment this month is on pace to be \$727, down \$1 from June 2023. The average interest rate for new-vehicle loans is expected to be 6.99%, flat from a year ago."

Dates	60-month new car	48-month new car	36-month used car
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1/2/2020	4.60%	4.55%	5.10%
7/24/2023	7.24%	7.21%	7.67%
7/3/2024	7.91%	7.81%	8.47%
7/17/2024	7.90%	7.80%	8.47%
Two Week Change	-0.01%	-0.01%	0.00%
Change since 1/3/20	3.30%	3.25%	3.37%
One Year Change	0.66%	0.59%	0.80%



#### Crude Oil and Gas Prices (Updated 7/22)

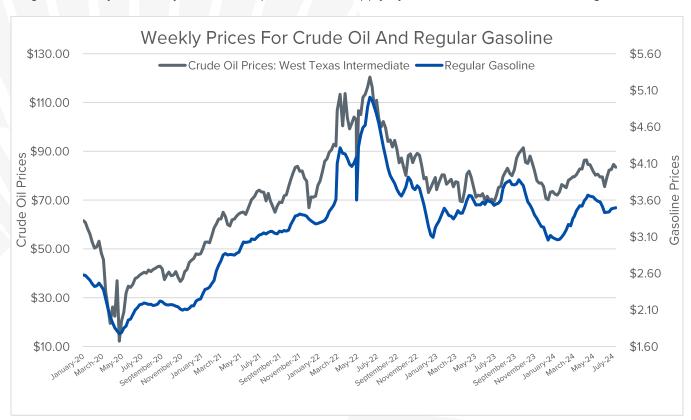
**Gas And Oil Remain Elevated (7/22): Note:** Oil prices, as benchmarked at West Texas Intermediate were \$83.44, up \$0.91 since the beginning of July. Since election day 2020, oil prices are \$47 a barrel higher. Gas is flat with a week ago at \$3.50. Gas is 36% higher than the beginning of 2020 and has not been below \$3 a gallon since May 2021.<sup>20</sup>

**EIA Outlook For Gasoline (7/9)**<sup>21</sup>: "We forecast regular-grade gasoline prices will average around \$3.50 per gallon in 2025 and gasoline consumption will average 8.9 million b/d. Continued increases in vehicle efficiency mean U.S. drivers will drive more miles in 2025 than before, but we expect 1% less U.S. gasoline consumption than in 2023 and 5% less than the record set in 2018."



**EIA Outlook For Oil (6/5):**<sup>22</sup> "Following a planned refinery closure next year, net production by U.S. refineries and blenders of the three largest transportation fuels (motor gasoline, distillate fuel oil, and jet fuel) will decline by 2%, or 0.4 million b/d between 2023 and 2025. Initially planned to close by the end of 2023, LyondellBasell announced last year its 264,000-b/d Houston refinery would remain open until early 2025. This refinery is in the Texas Gulf Coast region, where these transportation fuels made up an average of 86% of refinery output in 2023, the most on record for the region. In addition to the refinery closure, we forecast 2025 U.S. refinery utilization will average about one percentage point less than in 2023 because of lower refining margins, meaning other refiners will not offset the lost production by increasing refinery throughput. In other years when U.S. refiners closed capacity, utilization increased and mostly offset the loss of petroleum production.

"Despite the decline in fuel output, we do not expect significant changes to U.S. petroleum product availability or crack spreads because new refineries opening in other countries will add to world petroleum supply. Although not up to full utilization, Nigeria's 650,000-b/d Dangote refinery will likely be able to offset most petroleum product losses in the Atlantic Basin market following two planned refinery closures in the United States and the United Kingdom in 2025. The planned closure of the Grangemouth refinery in the United Kingdom in early 2025 may reduce transportation fuel supply by around 0.1 million b/d in the region."





#### **Production Meter**

#### U.S. Light Vehicle Inventory and Days' Supply (Updated 7/9)

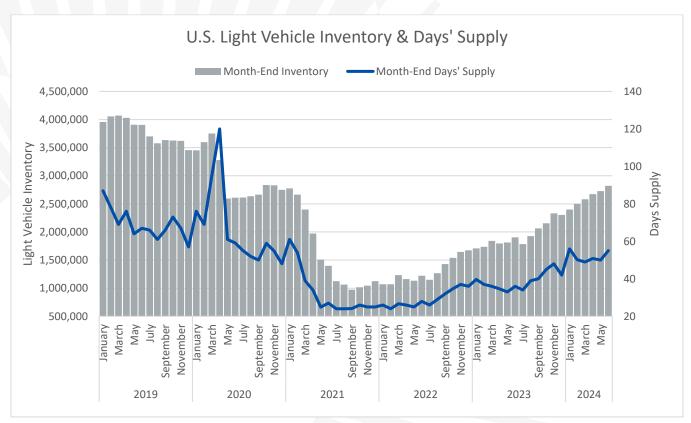
WardsIntelligence Inventory Update (7/9)<sup>23</sup>: "The estimated reduction in June sales of 50,000 units meant that inventory entering July was artificially higher because of vehicles still on dealer lots that otherwise would have been sold.

"Inventory rose 3.4% from the prior month to 2.82 million units, 47.8% above the same year-ago period. The total was the highest since November's 2020's 2.88 million.

"Inventory will decline at the end of July from June, mainly because several North America plants close for one to two weeks for vacation or tooling changes for model-year changeovers.

"Inventory is expected to remain relatively flat in August before posting steady month-to-month increases through November – inventory typically declines in December because of widespread production slowdowns due to the holiday season.

"Inventory is forecast to end the third quarter at 2.87 million units, up 39.0% year-over-year, and end the year at 2.80 million, up 21.5%."





#### North American Production (Updated 7/22)

**Wards Intelligence**<sup>24</sup>: "North America production of light vehicles and heavy-/medium-duty trucks combined increased year-over-year for the ninth consecutive quarter in Q2-2024, while Q3 is tracking to become the first quarterly period to outperform pre-Covid 2019 in nearly four years.

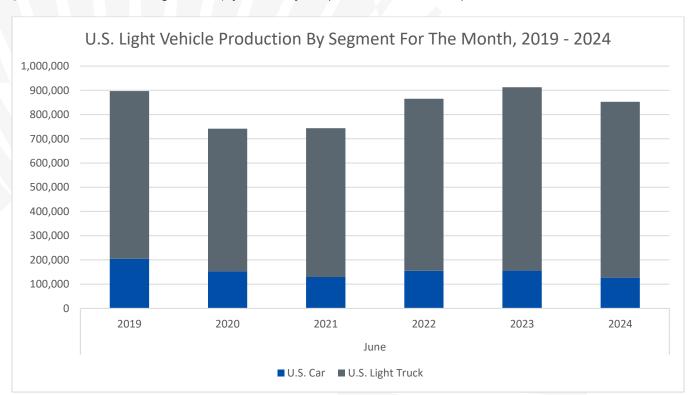
"Production during April-June totaled 4.304 million units, up 2.1% from like-2023. Production in June, which includes some estimates, totaled 1.347 million units, 6.1% below same-month 2023. June's comparison followed a 2.0% decline in May. Both were more than offset by March's robust gain of 16.2%.

"Production in first-half 2024 totaled 8.412 million units, a 2.3% increase in like-2023's 8.226 million. Including the third-quarter projection, 9-month 2024's total of 12.587 million also is 2.3% above the year-ago total - 12.300 million."

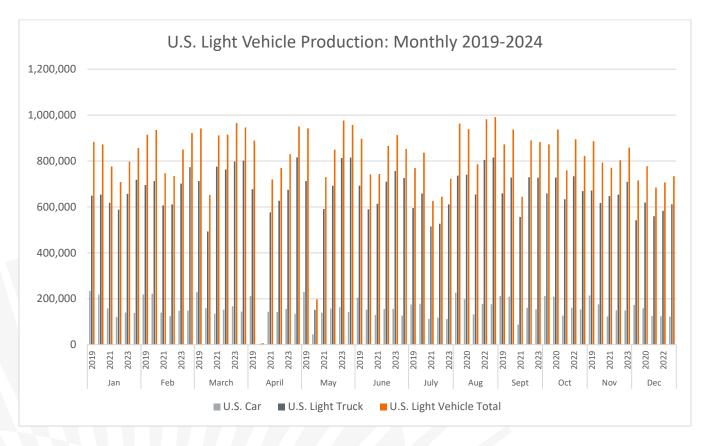
#### U.S. Light Vehicle Production (Updated 7/22)

#### U.S. Monthly Production (Upodated 7/22)

U.S. Light vehicle production for June 2024 was down 11 percent month-over-month, totaling 852,913 vehicles (126,626 cars, 726,287 light trucks), year-over-year, production is down 6 percent from 2023.<sup>25</sup>







## Global Meter

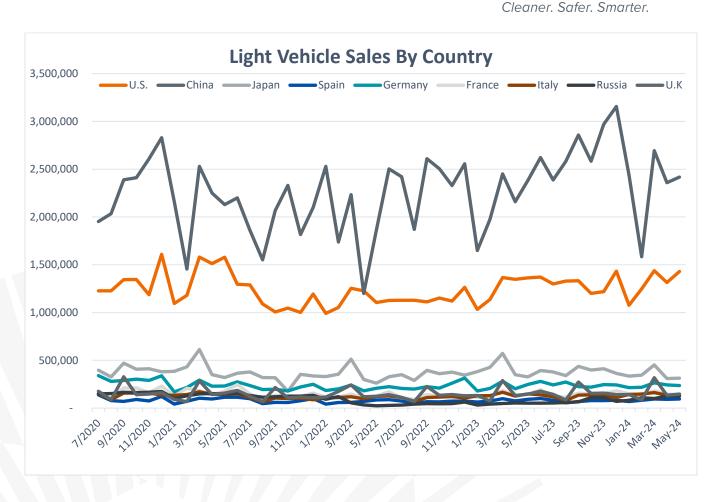
## Global Light Vehicle Sales (Updated 7/9)

**Wards Intelligence**...<sup>26</sup>: "Global vehicle sales increased year-over-year a third straight month in May, as estimated volume for light vehicles and medium-/heavy-duty trucks totaled 7.673 million units, 0.9% above same-month 2023's 7.601 million.

"Calendar 2024 volume through May stood at 37.332 million units, 3.7% above five-month 2023's 36.015 million.

"Excluding the big trucks, light-vehicle sales totaled 7.385 million units in May, 0.8% above like-2023's 7.323 million. The year-to-date total through May was 35.851 million, 3.6% above same-period 2023's 34.616 million."





#### Global Light Vehicle Production (Updated 7/22)

**S&P Global Mobility Forecast (4/24)**\_2\*\*: "As we enter the second half of 2024, the outlook for the global auto industry remains under pressure. After rather robust production growth in 2023 supporting sales as well as inventory rebuilding, this year continues to be more transitional in nature as automakers balance regional demand dynamics and inventory conditions. The production update for this month reflects those lingering challenges with notable regional downgrades with a focus on inventory management and factoring in region-specific influences, particularly amid recent sales weakness in China, persistent headwinds in Europe and growing vehicle inventories in North America. Elevated vehicle prices and "higher for longer" interest rates continue to be key considerations influencing demand in the near-term. Propulsion mix developments continue to vary by region as some markets face slower EV adoption growth rates while other areas continue to see rather encouraging results. The July forecast update reflects some noteworthy downgrades in the near-term, with reductions spread amongst several regions. Downward revisions are reflected through the near-term forecast horizon on regional dynamics for areas such as Greater China, Europe, North America and South Asia as those markets navigate dynamic demand fundamentals, inventory management, changing vehicle launch activity and varied states of BEV adoption depending on the market in question. The more noteworthy regional adjustments with the latest forecast update are detailed below:

**"Europe:** The outlook for Europe light vehicle production was reduced by 148,000 units and by 72,000 units for 2024 and 2025, respectively (and reduced by 35,000 units for 2026). European output for H1-2024 is



estimated to have reached 9.0 million units, roughly in line with our expectations. Yet, given the current level of confidence at various industry stakeholders and the rather pessimistic order books in the supply chain, among other factors, there are rising concerns on the near-term production outlook. Stellantis takes a significant share of the downgrade as the OEM continues to lose market share in Europe and appears in the process of clearing inventories ahead of next year. Of note, overall regional production is expected to decline by 835,000 units relative to 2023, a number that corresponds closely with our estimates for inventory rebuild during 2023, suggesting that underlying demand is fairly stable while production suffer mainly from a realignment of supply to sales. Looking to 2025 and 2026, total regional volume saw more modest changes. We continue to forecast rather flat developments despite the challenging regulatory gate coming up. The impact of the new EU tariff on electric cars coming from China has also been incorporated in our forecast assumptions, with little positive impact on volumes overall, as the tariffs are expected to be at least partially absorbed by the Chinese OEMs and given the potential to redirect consumers to their ICE-based vehicles.

"Greater China: The outlook for Greater China light vehicle production was reduced by 398,000 units and by 203,000 for 2024 and 2025, respectively (and increased by 9,000 units for 2026). Domestic consumption and vehicle demand remains fairly stagnate in spite of incentive programs such as subsidies for ICE vehicle replacement and vehicle financing programs implemented to support the domestic market. According to the CPCA, passenger vehicle sales for May totaled 1.72 million units, a reduction of 2%. The situation has not improved materially in June. Passenger vehicle sales improved to 1.78 million units but still dropped by 7% year-on-year owing to a higher base last year. Amid an aggressive price war, many consumers have become more hesitant to buy and expect further promotions in coming months. The subdued demand environment negatively impacts the profitability of most OEMs in mainland China. As a result, the intense competition continues to push Chinese OEMs from the local market to compete in the overseas market. Considering the domestic sluggishness and an escalation of trade conflicts in the global NEV market, the outlook for 2024 has been reduced by 1.4% to 29.1 million units, resulting in flat performance versus 2023. Further, the outlook for 2025 was reduced on the likelihood of a weaker market recovery than previously expected. In the longer term, our outlook remains consistent with last month's forecast with no significant changes from a macro perspective.

"Japan/Korea: Full-year 2024 Japan production was downgraded by 36,000 units relative to last month's forecast. Toyota and Daihatsu have struggled to recover their production speed in the second quarter after the certification irregularities, due to careful operations to prioritize quality amid stagnant domestic demand. The short-term forecast in 2025/2026 was upgraded by an average of around 100,000 units per year. As the BEV adoption speed has been slowing relative to expectations, ICE models such as the Lexus NX and ES and the 4Runner and Corolla for Toyota and the Rogue and the X-Trail for Nissan continue to gain momentum in export markets, particularly North America. As June production in South Korea was better than expected due to solid exports and in spite of somewhat sluggish domestic demand, full-year 2024 production was increased by 43,000 units, reaching 4.18 million units. Although battery electric vehicle production is slowing down, demand for hybrid vehicles is taking its place as a viable alternative. Considering the production trend in the first half of 2024, the forecasts for 2025 and 2026 were revised to 4.08 million units, up 0.9% and 3.88 million units, up 0.8%, respectively. In the longer-term, there were no major changes relative to last month's forecast other than some fluctuations mainly due to changes in global demand.

**"North America:** The outlook for North America light vehicle production was reduced by 125,000 units and by 256,000 units for 2024 and 2025, respectively (and reduced by 90,000 units for 2026). The outlook for North American light vehicle production has been revised down over the short-term horizon on the need for a greater inventory correction that is predominantly centered around the Detroit 3 manufacturers of GM, Ford and Stellantis where inventory for many vehicles is at excessive levels. Production in 2024 was revised down 0.8% as more proactive plant level actions, such as line rate and shift reductions and downtime are incorporated into the forecast that cascade into 2025. Manufacturers are for the first time in over four years



grappling with market realities compared to years of struggling to produce vehicles. Several manufacturers, particularly GM, Ford and Stellantis, are struggling to balance their sales, production, inventory and incentives targets as the market returns to more normal dynamics. Production in North America for 2025 was revised down a fairly significant 1.6% as part of the larger inventory correction process, particularly for the Detroit 3 automakers. The outlook for 2026 was revised down 0.5% on vehicle program re-timings and revised launch curves for several new vehicles, most notably for the launch of the Ram 1500 in Mexico.

**"South America:** The outlook for South America light vehicle production was largely unchanged for 2024 and was reduced by 40,000 units and by 51,000 units for 2025 and 2026, respectively. In the extreme near-term, the outlook for the region remains generally on track with expectations as stronger production actuals for Brazil are offset by lingering weakness in Argentina and residual impacts from recent flooding in Brazil. For 2025 and 2026, production volumes were revised down due, in part, to a more cautious outlook for exports from Argentina over the period. In the longer term, volumes have been left mostly unchanged and generally align with the demand forecast.

"South Asia: The outlook for South Asia light vehicle production was reduced by 147,000 units and by 83,000 units for 2024 and 2025, respectively (and reduced by 70,000 units for 2026). In the near-term, output for the region was downgraded for 2024 primarily due to more subdued auto markets in Indonesia and Thailand. Thailand's auto market has been significantly impacted by stricter auto loan policies, exacerbating the challenges posed by ongoing economic headwinds. Meanwhile, Indonesia's auto production sector has been adversely affected by weaker household spending, elevated interest rates and a slowdown in exports. Amid a slower economic expansion and growing concerns over the pace of recovery in the short-to-mid-term, the regional auto industry is currently undergoing inventory adjustments to align with somewhat deteriorating market conditions. Regarding the India market, production was revised down by 42,000 units for 2024 and by 51,000 units and 58,000 units for 2025 and 2026, respectively. The extreme near-term is influenced by rather elevated inventory levels and the likelihood that production schedules will remain weak in Q3-2024. Further, we expect the weaker rupee and elevated interest rates coupled with uncertainties associated with a possible alliance government to impact the Indian market through the near-to-intermediate term."

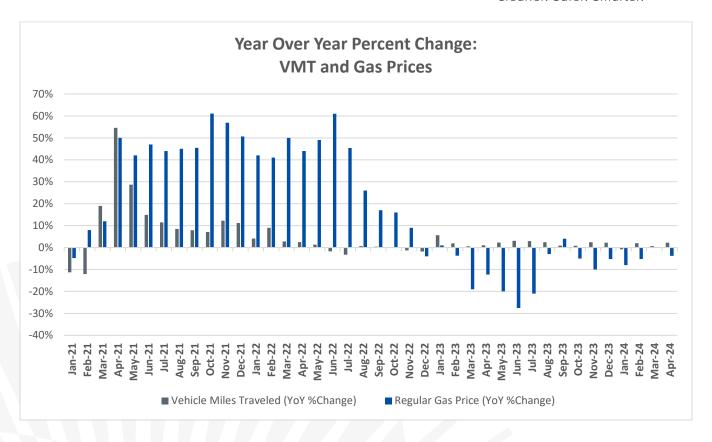
## Recovery Meter

## Roadway Travel (Updated 7/9)

According to the U.S. Department of Transportation, seasonally-adjusted vehicle miles traveled in May increased 0.3 percent from the same time a year ago. The cumulative travel estimate for 2024 is 1,320 billion vehicle miles.<sup>28</sup>

- Travel on all roads and streets changed by +1.3% (+3.8 billion vehicle miles) for May 2024 as compared with May 2023. Travel for the month is estimated to be 293.4 billion vehicle miles.
- The seasonally adjusted vehicle miles traveled for May 2024 is 274.2 billion miles, a (+2.6 billion vehicle miles) change over May 2023. It also represents a 0.3% change (0.8 billion vehicle miles) compared with April 2024.
- Cumulative Travel for 2024 changed by +1.1% (+14.1 billion vehicle miles). The cumulative estimate for the year is 1,320.0 billion vehicle miles of travel.



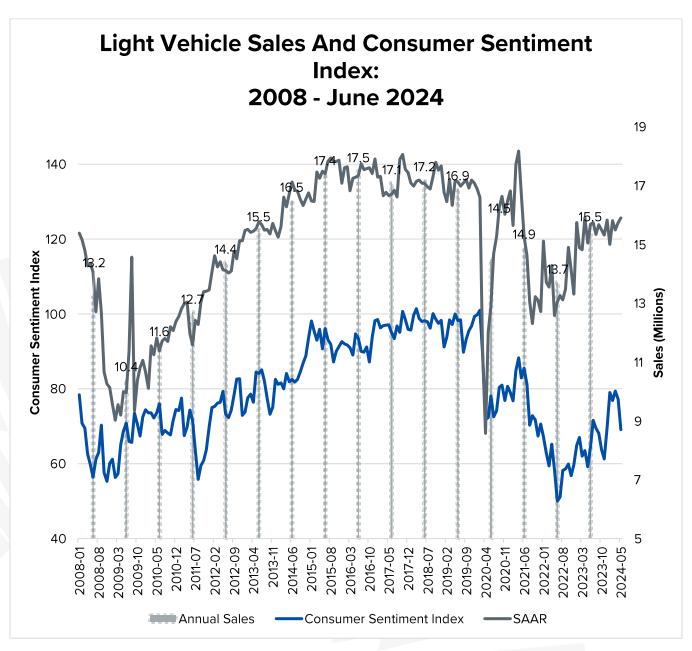


#### Consumer Confidence and Sales (Updated 7/9)

**Surveys of Consumers Director Joanne Hsu<sup>29</sup>:** "Consumer sentiment held steady in June; this month's reading was a scant and statistically insignificant 0.9 index points below May and well within the margin of error. While consumers exhibited confidence that inflation will continue to moderate, many expressed concerns about the effect of high prices and weakening incomes on their personal finances. These trends offset the improvements in the short- and long-run outlook for business conditions stemming in part from expectations for softening interest rates. Still, sentiment is currently about 36% above the trough seen in June 2022.

Year-ahead inflation expectations fell from 3.3% last month to 3.0% this month; in comparison, these expectations ranged between 2.3 to 3.0% in the two years prior to the pandemic. Long-run inflation expectations came in at 3.0% for the third consecutive month and have remained remarkably stable over the last three years. These expectations remain somewhat elevated relative to the 2.2-2.6% range seen in the two years pre-pandemic.



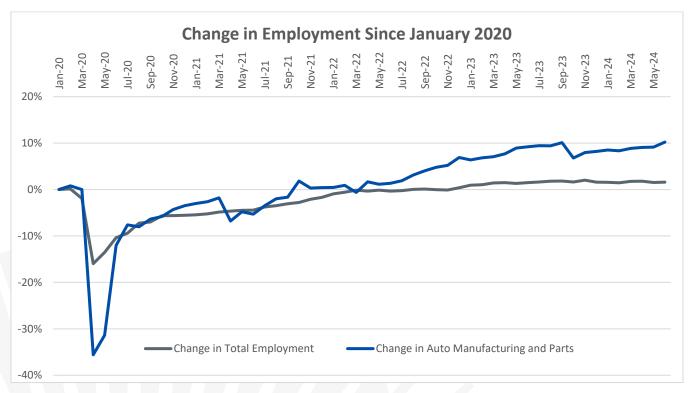


## Employment (Updated 7/9)

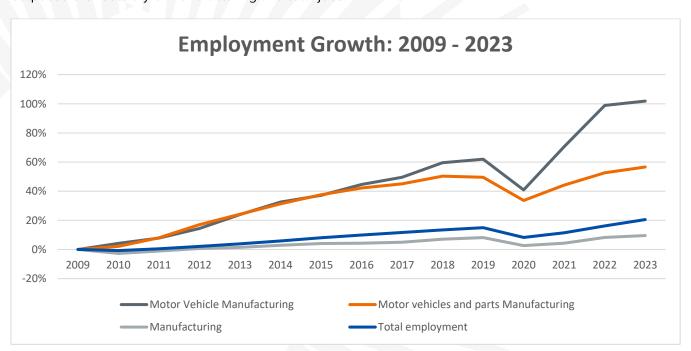
Motor Vehicle And Parts Manufacturing Gaine 5,900 Jobs in June.

After a loss of nearly 350,000 employees (about 35% of the workforce) in the height of the pandemic, employment in the Automobile Manufacturing and Parts sectors raced back but is now fighting losses due to supply chain disruptions with semiconductors...<sup>30</sup>





After the recession in 2009, the auto industry was credited with being on the leading edge of the recovery, which began a ripple effect through other parts of the country....<sup>31</sup> Additionally, the chart below shows how the recovery of jobs in motor vehicle manufacturing alone and motor vehicle and parts manufacturing far outpaced the recovery of manufacturing and total jobs.



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