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## Forecast Meter

### Sales & Production Summary and Forecast (Updated 8/24)

<table>
<thead>
<tr>
<th>2022-2023 Sales, ¹ Extended Sales Forecast,² and Production Forecasts,³</th>
<th>U.S. Sales &amp; Forecasts</th>
<th>North American Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>January ‘22</td>
<td>991,156 (-10% YoY)</td>
<td>1,111,390 (-4% YoY)</td>
</tr>
<tr>
<td>February ‘22</td>
<td>1,052,524 (+11.8% YoY)</td>
<td>1,112,429 (-1% YoY)</td>
</tr>
<tr>
<td>March ‘22</td>
<td>1,246,336 (-22% YoY)</td>
<td>1,350,102 (-1% YoY)</td>
</tr>
<tr>
<td>April ‘22</td>
<td>1,226,950 (-22% YoY)</td>
<td>1,177,851 (+8% YoY)</td>
</tr>
<tr>
<td>May ‘22</td>
<td>1,104,993 (-23.8% YoY)</td>
<td>1,215,000 (+20.4% YoY)</td>
</tr>
<tr>
<td>June ‘22</td>
<td>1,126,724 (-16.8% YoY)</td>
<td>1,259,515 (+13.8% YoY)</td>
</tr>
<tr>
<td>July ‘22</td>
<td>1,129,371 (-8.4% YoY)</td>
<td>977,485 (+7% YoY)</td>
</tr>
<tr>
<td>August ‘22</td>
<td>1,128,200 (-7.7% YoY)</td>
<td>1,413,262 (+29%)</td>
</tr>
<tr>
<td>September ‘22</td>
<td>1,112,245 (+3.9% YoY)</td>
<td>1,258,501 (+38% YoY)</td>
</tr>
<tr>
<td>October ‘22</td>
<td>1,151,774 (+13.8% YoY)</td>
<td>1,299,707 (+12.4% YoY)</td>
</tr>
<tr>
<td>November ‘22</td>
<td>1,120,067 (+6% YoY)</td>
<td>1,200,244 (+5.5% YoY)</td>
</tr>
<tr>
<td>December ‘22</td>
<td>1,263,268 (+4.9% YoY)</td>
<td>1,074,938 (+3.4% YoY)</td>
</tr>
<tr>
<td>January ‘23</td>
<td>1,033,002 (+42% YoY)</td>
<td>1,195,548 (+12.9% YoY)</td>
</tr>
<tr>
<td>February ‘23</td>
<td>1,136,332 (+8.7% YoY)</td>
<td>1,257,482 (+15% YoY)</td>
</tr>
<tr>
<td>March ‘23</td>
<td>1,365,966 (+8.6% YoY)</td>
<td>1,442,991 (+6.7% YoY)</td>
</tr>
<tr>
<td>April ‘23</td>
<td>1,347,159 (+13.1% YoY)</td>
<td>1,281,626 (+8.6% YoY)</td>
</tr>
<tr>
<td>May ‘23</td>
<td>1,362,019 (+18.0% YoY)</td>
<td>1,462,273 (+25.5% YoY)</td>
</tr>
<tr>
<td>June ‘23</td>
<td>1,370,976 (+19.9% YoY)</td>
<td>1,387,090 (+13.8% YoY)</td>
</tr>
<tr>
<td>July ‘23</td>
<td>1,299,199 (+19.9 YoY)</td>
<td>1,173,342 (+15.6 YoY)</td>
</tr>
<tr>
<td>2022 Full Year</td>
<td>15.3 million units (WardsIntelligence)</td>
<td>14,721,053 (+9.8% YoY) (U.S. 10,019,791)</td>
</tr>
</tbody>
</table>
U.S. Light Vehicle Sales Outlook (Updated 8/24)

Wards Intelligence Outlook (8/24): “U.S. light-vehicle sales in August are expected to weaken from July, based on seasonally adjusted annual rates, while raw volume will increase year-over-year for the 12th straight month. Deliveries in August are tracking to 1.353 million units, 19.3% above like-2022’s 1.134 million. The daily selling rate over the month’s 27 selling days equals 50,111, 14.9% above August 2022’s 43,626 – 26 selling days.

“August’s forecast SAAR of 15.3 million units is below July’s 15.7 million and the lowest since May’s 15.1 million. The August total, however, is well above year-ago’s 13.2 million units. Keeping sales from rising faster, especially on a sequential basis, are still-elevated average vehicle prices and inventory stuck at historic lows with the mix slanted toward higher cost models and trims levels.

“Although still expected to record strong year-over-year growth, fleet penetration is not expected to rebound from July’s month-to-month seasonal decline. After tracking at 18% of sales in first-half 2023, share fell to an estimated 15.3% in July and is expected to drop to 14.8% in August. However, August’s estimated fleet volume is 36% above the year-ago month, while retail deliveries are expected to rise 17% year-over-year.

“Sales in the third quarter are forecast to total a 15.5 million-unit SAAR, down from Q2-2023’s 15.6 million and above Q2-2022’s 13.3 million.

“WI partner GlobalData has not revised its sales forecasts for 2023 and 2024. Sales in entire-2023 are tracking to 15.4 million units, and 2024 is pegged at 16.0 million.

“Aug. 31 inventory is forecast to rise 6.3% from the prior month to 1.90 million units, 50% above the year-ago total. Days’ supply will total 38, up from July’s 34 and like-2022’s 29, but well below the 63 averaged in the five years prior to the start of the pandemic in 2020.”
August’s projected total of 1.55 million units would make it the first month since December 2020 — just before the chip shortages began to cause production shortfalls in early 2021 — to rise from its pre-pandemic total in 2019. August’s expected total is 1.7% above like-2019 and September’s projection is 1.0% above its pre-pandemic sum.
“Third-quarter light-vehicle production is pegged at 3.96 million units, 8.9% above like-2022 but 0.4% Q3-2019’s 3.98 million.”

S&P Global Mobility Outlook (8/24): “The outlook for North America light vehicle production was reduced by 8,000 units and increased by 6,000 units for 2023 and 2024, respectively (and reduced by 2,000 units for 2025). The greatest threat to the forecast in the near-term surrounds the union negotiations between the United Auto Workers (UAW) in the US and Unifor in Canada with their respective contracts set to expire in mid-September 2023. Hard line stances from union leadership along with strong demands create a high likelihood that a strike will occur. Minimum estimates are for two weeks of a select manufacturer, GM, Ford or Stellantis, with the potential for it to be drawn out to as long as 10 weeks with scenarios ranging from 100,000 to as much as 600,000 units or more of lost output. While the latest forecast does not include a strike scenario, there is in effect a built-in hedge totaling around 545,000 units since the Detroit-based manufacturers have strong inventories. If a strike is averted, then as forecast, GM, Ford and Stellantis would likely need to curb output plans. Over the forecast horizon, the outlook remains somewhat muted given expectations for an industry inventory profile that continues to focus on quality volume at the expense of costly volume behaviors. This new normal is based on continued commitments bolstering transaction prices and supported by manufacturer plans to grow build-to-order programs, especially for new BEV entrants.”

Market Meter

U.S. Light Vehicle Sales (Updated 8/3)

Monthly Sales (Updated 8/3)

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.
**July Sales (Updated 8/3)**

**WardsIntelligence.** "U.S. light-vehicle sales in July hit nearly spot-on to expectations, finishing the month at a 15.7 million-unit seasonally adjusted annual rate.

"The SAAR was flat with June’s results, highest since April’s 16.0 million, and well above like-2022’s 13.3 million.

"Raw volume totaled 1.299 million units, was 15.3% above July 2022, and equated to a daily selling rate over the month’s 25 selling days of 51,968, 19.9% above same-month year-ago’s 43,328 – 26 selling days.

"July’s estimated retail volume was 13% above the same year-ago month, while fleet was up 35%. Fleet penetration fell to 15.4% from June’s 18.0%, though a month-to-month decline is a normal seasonal trend in July. Estimated fleet penetration in July 2022 was 13.2%."
Segments vs. Gas Prices (Updated 8/3)

**Monthly Sales For July:** Light trucks accounted for 79.5 percent of sales in July, nearly flat with the market share a year ago. Compared to the same period in 2022, sales of cars are up about 30,000, and down more than 116,000 from June 2019, when cars comprised 27% of the market as opposed to the 20.5% of the market passenger cars have now.

**Historic Perspective:** The upward trend in the popularity of light trucks over cars has been steady since 2013, when only 2% of annual market share separated the two segments\textsuperscript{9} and gas was over $3.00\textsuperscript{10} a gallon. As fuel prices dropped below the $3.00 mark in mid-September 2014, light truck sales began to take off. Gas prices since have averaged only $2.83 a gallon (through December 2022) and when combined with increased fuel economy for light trucks, an increase of 4 mpg since 2013, the perfect conditions existed to continue fueling light truck market growth\textsuperscript{11}. 

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\textsuperscript{9} Source: Alliance for Automotive Innovation

\textsuperscript{10} Source: Energy Information Administration

\textsuperscript{11} Source: Alliance for Automotive Innovation
EV Powertrain Sales (Updated 8/3)

Sales of electric vehicles (BEV, PHEV, & Fuel Cell) accounted for 9.26% of total vehicle sales in July 2023 (120,350) – the highest market share to date, per Wards estimates. Market share increased 0.27 percentage points from June 2023. July’s EV market share is up 2.23 pp from a year ago. Sales of battery electric vehicles led the way for EVs, accounting for 7.5 percent of total sales, up 1.6 pp from July 2022. Plug-in hybrids accounted for 1.6%, up 0.6 pp from the same time last year.¹²
Seasonally Adjusted Annual Rates (Updated 8/3)

WardsIntelligence: “U.S. light-vehicle sales in July hit nearly spot-on to expectations, finishing the month at a 15.7 million-unit seasonally adjusted annual rate. The SAAR was flat with June’s results, highest since April’s 16.0 million, and well above like-2022’s 13.3 million.”
Average Transaction Price (Updated 8/24)

Kelley Blue Book (June) (Updated 8/24). “The average price Americans paid for a new vehicle in July 2023 was 0.4% higher than one year ago, the smallest year-over-year price increase in the last decade. According to Kelley Blue Book, a Cox Automotive company, the average transaction price (ATP) of a new vehicle in July was $48,334, a month-over-month decrease of 0.7% ($337) from June's ATP of $48,671, and up only $199 from one year ago. Compared to the start of the year, transaction prices are down 2.7%, or $1,335, the largest January to July tumble in the past decade.

“Auto manufacturers' incentive spend increased for the tenth consecutive month in July to the highest level since October 2021, averaging $2,148, or 4.4% of the average transaction price. One year ago, average incentive spending was 2.4% of ATP.

“EV prices continue to fall, once again led by market leader Tesla. In July, the average EV ATP was $53,469, down from $53,682 in June and down from more than $61,000 in January. Incentives for EVs in July were 6.7% of ATP, or $3,755. EV ATPs are down more than 19% from their recent peak of more than $66,000 just a little more than a year ago in June 2022. The price declines in the EV segment have mirrored the inventory increases experienced by some automakers. At the end of July, the EV segment days' supply was near 100 days, while industry days' supply stood at 54. (Cox Automotive days' supply calculations include vehicles in dealer inventory and in-transit/pipeline units but do not include Tesla).

"The year-over-year decline of EV ATPs has been led by Tesla slashing prices on its popular models," added Rydzewski. "Tesla prices are down nearly 20% versus a year ago, and other EV models, such as the Ford F-150 Lightning, have been following Tesla's lead. While automakers report losing money on electric vehicles, they continue to aggressively pursue EV growth strategies."
J.D. Power (Updated 8/3). “The average new-vehicle retail transaction price in July is expected to reach $45,305, down $866 from July 2022. The previous high for any month—$47,362—was set in December 2022. Average incentive spending per unit in July is expected to reach $1,888, up from $977 in July 2022. Spending as a percentage of the average MSRP is expected to increase to 3.7%, up 1.7 percentage points from July 2022.”
Auto Loan Financing (Updated 8/24)

**Interest Rates (updated 8/24):** Interest rates continued their steady increase on the 60-month, 48-month and 36-month used car loans. Rates now stand at 7.38%, 7.34%, and 7.91%, respectively. Since the beginning of 2020, 60-month rates are up 2.78 pp, and are up 2.25 pp since the same time a year ago.16

**JD Power (8/3)**: “Elevated pricing coupled with interest rate increases continue to inflate monthly loan payments. The average monthly finance payment in July is on pace to be $720, up $16 from July 2022. That translates to a 2.3% increase in monthly payments from a year ago. The average interest rate for new-vehicle loans is expected to be 7.1%, an increase of 180 basis points from a year ago.”

<table>
<thead>
<tr>
<th>Dates</th>
<th>60-month new car</th>
<th>48-month new car</th>
<th>36-month used car</th>
</tr>
</thead>
<tbody>
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<td>1/2/2020</td>
<td>4.60%</td>
<td>4.55%</td>
<td>5.10%</td>
</tr>
<tr>
<td>8/17/2022</td>
<td>4.94%</td>
<td>4.93%</td>
<td>5.21%</td>
</tr>
<tr>
<td>8/3/2023</td>
<td>7.19%</td>
<td>7.16%</td>
<td>7.62%</td>
</tr>
<tr>
<td>8/16/2023</td>
<td>7.38%</td>
<td>7.34%</td>
<td>7.91%</td>
</tr>
<tr>
<td>Two Week Change</td>
<td>0.19%</td>
<td>0.18%</td>
<td>0.29%</td>
</tr>
<tr>
<td>Change since 1/3/20</td>
<td>2.78%</td>
<td>2.79%</td>
<td>2.81%</td>
</tr>
<tr>
<td>One Year Change</td>
<td>2.25%</td>
<td>2.23%</td>
<td>2.41%</td>
</tr>
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</table>
Crude Oil and Gas Prices (Updated 8/24)

**EIA Outlook For Oil (8/24)**: “In our August STEO, we now expect total U.S. crude oil production to average 12.8 million barrels per day (b/d) in 2023, an annual average increase of about 0.2 million b/d compared with our July STEO. Our higher production outlook reflects the effect of higher well productivity in recent historical data from the Petroleum Supply Monthly, which we have extended into our current forecast for July and forward through 2023. Our outlook for higher crude oil prices, beginning in July 2023 and continuing into 2024, supports higher production in 2024 because of the lagged effect of prices on rig additions and production.”

**EIA Outlook For Gasoline (8/24)**: “In our August STEO, we expect lower gasoline production to reduce inventories and increase gasoline prices and crack spreads (the difference in price between a gallon of gasoline and a gallon of crude oil) in 2H23 compared with the July STEO. Previously, we assumed high crack spreads and more U.S. refining capacity in 2023 would contribute to rising gasoline production and inventory builds. However, a series of unplanned refinery outages this summer have limited increased refinery operations. Among the outages, a reformer outage occurred at Marathon’s Galveston Bay refinery, and fluid catalytic cracking unit outages occurred at Phillips 66’s Bayway refinery and ExxonMobil’s Baton Rouge refinery. Many of the outages affected secondary conversion units, reducing the relative yields of gasoline from those facilities. We decreased our outlook for refinery utilization and refinery gasoline yield for the rest of the summer and the start of fall, which reduces our forecast of gasoline production. Lower gasoline production and lower net imports of gasoline contribute to lower total gasoline inventories in our forecast, which we now expect to remain near the five-year (2018–2022) low through the end of our forecast.

“In the August STEO, we estimate that persistent low gasoline inventories through the forecast period will contribute to higher gasoline crack spreads compared with last month’s forecast. The annual average gasoline crack spread averages $0.73 dollars per gallon (gal) in 2023, compared with $0.63/gal in the July STEO. The increasing crack spread and higher crude oil prices both contribute to higher overall retail gasoline prices in this month’s forecast as well. We now estimate 2023 U.S. retail gasoline prices to average $3.56/gal in 2023 and $3.45/gal in 2024.

**Gas And Oil Creeping Up (8/24)**: Oil prices, as benchmarked at West Texas Intermediate decreased $2 to $81 a barrel. Since election day 2020, oil prices are $44 a barrel higher. Gas prices are up $.05 from two weeks prior to $3.87. Gas is 50% higher than the beginning of 2020...
Production Meter

U.S. Light Vehicle Inventory and Days’ Supply (Updated 8/3)

WardsIntelligence Inventory Update (7/7): “U.S. new-vehicle inventory continued to show strong year-over-year growth for all segments in July, but increased availability of more affordable vehicles is accelerating faster than for higher priced models.

“U.S. light-vehicle inventory ended July at 1.79 million units, a 55.5% year-over-year increase, with days' supply equating to 34, compared with like-2022’s 27.

“As expected, inventory declined from the prior month due to normal summer shutdowns at some vehicle assembly plants in North America, which reduces the volume available to ship to dealers.”
North American Production (Updated 8/24)

Wards Intelligence: “Several automakers recorded overbuilds in July, with the biggest surpluses at Volkswagen, Nissan and Ford, more than offset shortfalls at General Motors and Tesla, which is estimated. Excluding medium-/heavy-duty trucks, July light-vehicle production totaled 1.13 million units, 15.7% above same-month 2022. Production, however, still has not returned to pre-pandemic levels, as July’s total was 4.6% below same-month 2019’s 1.18 million units.”

U.S. Light Vehicle Production (Updated 8/24)

Monthly Production (Updated 8/24)

U.S. Light vehicle production for July 2023 decreased month-over-month by 21 percent, totaling 747,727 vehicles (111,683 cars, 610,845 light trucks), year-over-year, production is up 12 percent from 2022. 

22. Wards Intelligence

23. Wards Intelligence
U.S. Light Vehicle Production: Monthly 2019-2023

U.S. Light Vehicle Production By Segment For The Month, 2019 - 2023
Global Light Vehicle Sales (Updated 8/3)

Wards Intelligence.24: “Global vehicle sales grew year-over-year for the fifth straight month in June and deliveries in first-half 2023 rose 10.9% from January-June 2022. June sales of light vehicles and medium-/heavy-duty trucks totaled 8.12 million units, up 10.7% from same-month 2022’s 7.334 million. Volume also increased from May, rising 6.9%.

“June gains were led by a 23.4% year-over-year increase in Europe and a rise of 18.7% in North America. Sales in the Asia-Pacific region increased a weaker 4.3%, while volume in South America declined 2.7%, the region’s second straight downturn.

“Excluding medium- and heavy-duty trucks, light-vehicle sales totaled 7.81 million units in June, up 10.4% from same-month 2022.

“Global volume for all vehicles in first-half 2023 totaled 44.12 million units, well above like-2022’s 39.78 million. All major regions booked first-half increases, with Europe up 18.0%, North America up 13.1%, AP up 8.8% and South America deliveries rising a tepid 0.7%. First-half 2023 sales in China totaled 13.59 million units, up 9.4%. Demand in the rest-of-AP was up 7.7% year-over-year.

“Light vehicles in January-June 2023 increased 10.9% to 42.45 million units from like-2022’s 38.29 million.”
Global Light Vehicle Production (Updated 8/24)

S&P Global Mobility Forecast (8/24)\textsuperscript{25}: “Light vehicle production continues a general theme of stronger performance in the immediate near-term as production in several regions ramps up further and inventory restocking accelerates. Further, as pent-up demand is being released, some vehicle manufacturers are still dealing with somewhat tight inventory levels further supporting the near-term production outlook. We remain focused on the state of consumer demand given elevated vehicle pricing and still challenging credit conditions; however, consumers remain fairly well-engaged in the light vehicle market. Looking beyond 2023, the general production outlook shifts toward a more traditional demand-driven model with inventory equilibrium achieved in several markets. The August 2023 forecast update reflects some noteworthy upgrades in the near-term, particularly for Japan/Korea and Europe on continued production recovery supporting demand, as well as inventory backfill, and Greater China given ongoing strength in export activity. The acceleration in inventory restocking supported by strengthening output in the near-term results in a production profile that more closely aligns with and is driven by demand expectations starting in 2024 and beyond. The more noteworthy regional adjustments with the latest forecast update are detailed below:

“Europe: The outlook for Europe light vehicle production was increased by 102,000 units and by 94,000 units for 2023 and 2024, respectively (and increased by 57,000 units for 2025). The August update for Europe continues to show upward pressure on short-term builds amidst somewhat muted demand and growing
competition from imported cars. The sales backlog will play a crucial role in production for the second half of 2023, with expectations of a quicker fade than initially anticipated. This, in turn, is projected to completely resolve vehicle availability issues by the end of the year. Looking ahead, production for 2024 is anticipated to turn negative compared to 2023, in line with expected growth in vehicle inventories. Compared to the prior month forecast, the evaluation of H1-2023 has been adjusted upward by 72,000 units based on stronger actual production results, marking a 17% increase over H1-2022. The projections for H2 2023 have been augmented by 30,000 units, representing a 5% increase in comparison to H2-2022. The outlook through the intermediate-term has been further upgraded due to the transfer of some production of the Volkswagen Polo from Africa to Europe, along with the introduction of several new vehicle models in select Commonwealth of Independent States (CIS) countries.

**Greater China:** The outlook for Greater China light vehicle production was increased by 76,000 units and reduced by 38,000 for 2023 and 2024, respectively (and reduced by 34,000 units for 2025). Robust export activity continues to be a strong driver of light vehicle production growth in the region. In addition, further momentum continues to be provided by compelling New Energy Vehicle (NEV) activity. In H1-2023, the NEV market penetration rate exceeded 35%, helping Chinese domestic brands continue to make noteworthy market share gains. Of note, we continue to reflect a more measured outlook for NEV activity in Q4-2023 given the recent NEV tax policy extension to beyond 2023 which is expected to mitigate any meaningful pull-ahead effect to NEV sales at year end. Given the risk of slowing economic growth, local currency depreciation and private demand destruction, the production outlook for 2024 and 2025 has been modestly downgraded, yet still represents a post-COVID rebound of 5.3% for both years.

**Japan/Korea:** Full-year 2023 Japan production was increased by 101,000 units. Toyota continues to outperform and is the main driver for the increase as the company satisfies pent-up demand with semiconductor shortage issues continuing to improve. Further, in the intermediate-term, the end of production for the current Suzuki Swift was extended to 2025 and will run concurrently with the redesigned model. There were no major changes with the longer-term forecast. Full-year 2023 South Korea production was increased by 31,000 units relative to the previous forecast as strong export activity continues to support production. Production in 2024 and 2025 was increased by 9,000 units and 24,000 units, respectively, primarily due to vehicle timing adjustments for the Samsung QM6 and the Kia EV5, among others. In the longer-term, there were no significant changes other than small volume fluctuations due to the timing change for the Kia EV5.

**North America:** The outlook for North America light vehicle production was reduced by 8,000 units and increased by 6,000 units for 2023 and 2024, respectively (and reduced by 2,000 units for 2025). The greatest threat to the forecast in the near-term surrounds the union negotiations between the United Auto Workers (UAW) in the US and Unifor in Canada with their respective contracts set to expire in mid-September 2023. Hard line stances from union leadership along with strong demands create a high likelihood that a strike will occur. Minimum estimates are for two weeks of a select manufacturer, GM, Ford or Stellantis, with the potential for it to be drawn out to as long as 10 weeks with scenarios ranging from 100,000 to as much as 600,000 units or more of lost output. While the latest forecast does not include a strike scenario, there is in effect a built-in hedge totaling around 545,000 units since the Detroit-based manufacturers have strong inventories. If a strike is averted, then as forecast, GM, Ford and Stellantis would likely need to curb output plans. Over the forecast horizon, the outlook remains somewhat muted given expectations for an industry inventory profile that continues to focus on quality volume at the expense of costly volume behaviors. This new normal is based on continued commitments bolstering transaction prices and supported by manufacturer plans to grow build-to-order programs, especially for new BEV entrants.
“South America: The outlook for South America light vehicle production was reduced by 8,000 units and increased by 14,000 units for 2023 and 2024, respectively (and increased by 17,000 units for 2025). The rather small near-term forecast downgrade was focused on Brazil and Argentina and reflected lower production actuals posted recently. Our general production outlook continues to reflect an earlier return to inventory normalization and consequently is more reliant on demand fundamentals going forward. The production upgrades for 2024 and 2025, while fairly modest in nature, were due primarily to vehicle timing changes with the end of production for the Renault Logan and Sandero delayed by two quarters and the start of production for the Honda WR-V pulled ahead by several quarters, among other timing shifts.

“South Asia: The outlook for South Asia light vehicle production was increased by 5,000 units and reduced by 9,000 units for 2023 and 2024, respectively (and increased by 4,000 units for 2025). There were only fairly minor overall revisions to production for the South Asia region with the August 2023 forecast update, yet, there were some relevant country-specific adjustments. In the near-term, India production has produced somewhat stronger results on backlog order fulfillment and new vehicle launch activity. This is only partially offset by lingering weakness in Pakistan due to deteriorating economic conditions and other exogenous factors. With regard to the ASEAN market, recent weakness in production for Vietnam given economic headwinds and weaker export activity is offset by stronger production performance for Thailand and Indonesia. Production for Thailand and Indonesia is supported by the need to satisfy outstanding orders as well as fairly strong export momentum.”

Recovery Meter

Roadway Travel (Updated 8/24)

According to the U.S. Department of Transportation, seasonally-adjusted vehicle miles traveled in June increased 3.1 percent from the same time a year ago. The cumulative travel estimate for 2023 is 1,578.9 billion vehicle miles.26

- Travel on all roads and streets changed by +3.1% (+8.4 billion vehicle miles) for June 2023 as compared with June 2022. Travel for the month is estimated to be 283.0 billion vehicle miles.
- The seasonally adjusted vehicle miles traveled for June 2023 is 268.9 billion miles, a 2.8% (7.4 billion vehicle miles) change over June 2022. It also represents a -0.2% change (-0.4 billion vehicle miles) compared with May 2023.
- Cumulative Travel for 2023 changed by +2.3% (+35.1 billion vehicle miles). The cumulative estimate for the year is 1,578.9 billion vehicle miles of travel.
**Economic News (Updated 8/24)**

**The ISM Index Slips To 46 Percent In July – Ninth Consecutive Month of Contraction.** “The latest Manufacturing ISM Report On Business for July 2023 reveals that economic activity in the manufacturing sector has continued to contract for the ninth consecutive month. This decline follows a 28-month period of growth, signifying a challenging time for the nation’s supply executives. The Manufacturing PMI for July registered at 46.4%, a slight improvement from June’s 46%.**

**Consumer Confidence and Sales (Updated 8/24)**

**Surveys of Consumers Director Joanne Hsu**

“Consumer sentiment was essentially unchanged from July, with small offsetting increases and decreases within the index. At 71.2 index points, sentiment is now about 42% above the all-time historic low reached in June of 2022 and is approaching the historical average reading of 86. In general, consumers perceived few material differences in the economic environment from last month, but they saw substantial improvements relative to just three months ago.

Year-ahead inflation expectations edged down from 3.4% last month to 3.3% this month, showing remarkable stability for three consecutive months. The current reading remains above the 2.3-3.0% range seen in the two years prior to the pandemic. Long-run inflation expectations also remained stable at 2.9%, again staying within the narrow 2.9-3.1% range for 24 of the last 25 months. These expectations are elevated relative to the 2.2-2.6% range seen in the two years pre-pandemic.”
Employment (Updated 8/24)

Motor Vehicle And Parts Manufacturing Lost 2,200 Jobs In July.

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.²⁹
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... 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.