READING THE METER

A Look Inside A Cleaner, Safer, Smarter Auto Industry.

January 6, 2021

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Forecast Meter

Forecast Summary (Updated 1/6)

<table>
<thead>
<tr>
<th>2020 Sales,¹ Extended Sales Forecast² and Production Forecasts³</th>
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<tbody>
<tr>
<td>April</td>
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<td>4th Quarter</td>
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<tr>
<td>Calendar Year</td>
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<td>2020 Full Year Estimate</td>
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U.S. Light Vehicle Sales Outlook (Updated 1/6)

Wards Intelligence Outlook: “Fleet demand is the main component keeping total light-vehicle sales from resuming pre-pandemic levels, but retail volume, though hurt by lean inventory, eked out a December increase.

The resurgence in Covid-19 cases that began in fall 2019, and subsequent increase in lock-down measures, did not have the negative impact expected in December on U.S. demand for light vehicles. In fact, excluding fleet, it seemed to have very little impact, if at all, on retail volume.

December’s seasonally adjusted annual rate of 16.3 million units was still well below like-2019’s 16.8 million but was a stronger-than-anticipated improvement on November’s 15.6 million. Furthermore, the results were in line with the two previous highs since the last full pre-pandemic month of February - 16.8 million units - of 16.3 million and 16.4 million in September and October, respectively.

The fourth-quarter SAAR was 16.1 million units, well below like-2019’s 16.8 million, but significantly higher than Q2’s 11.3 million – when the economic fallout from the virus had its first impact on an entire quarter – and Q3’s 15.3 million. The Q1 SAAR, which included the start of the Covid-19 effect in mid-March, totaled 14.8 million units.
Besides the economic impact from battling the Covid-19 spread – but a consequence of it - long-time low inventory did have a downward effect on deliveries. Manufacturers entered the month with inventory down 22% year-over-year, and lowest for Nov. 30 since 2011.⁵

**Credit Suisse Outlook:** “We forecast 2021 US auto sales of 15.4mn, representing a 7% increase off our 2020 estimate. We recognize that the obvious unknown and the most important factor in forecasting 2021 SAAR is the status of the US consumer – if coronavirus re-emergence limits consumer recovery, that would clearly limit auto sales. That said, the Sep/Oct/Nov SAAR prints provide reason to believe that 2021 could bring sales near normalized levels. Specifically, we’d flag two key reasons indicating potential return to more normalized SAAR in 2021, with potential upside:

- “Solid retail driven by health of new car buyer, financing intact: New car buyers have seen less labor shock than the national avg. – with median household income of ~$100k, the avg. US new vehicle buyer has higher household income than the national avg., and never saw the same labor shock as lower income cohorts. Moreover financing availability has remained intact (~85% new car sales financed). Lastly, the case remains for increased personal vehicle ownership (see our report: “Post coronavirus auto trends”). Accordingly, we may see retail sales return to normalized levels.

- “Fleet recovery: While fleet is on track to be down ~35% for 2020, we see potential for some recovery in 2021, as commercial remains healthy, and as daily rental likely sees some form of recovery.”⁶

**J.D. Power November Forecast:** “New-vehicle retail sales for the month of December are expected to be up from December 2019, according to a joint forecast from J.D. Power and LMC Automotive. Retail sales for new vehicles are projected to reach 1,400,300 units, a 1.0% increase compared with a year ago when adjusted for selling days. December 2020 contains three more selling days and one more selling weekend than December 2019. Comparing the same sales volume without adjusting for the number of selling days translates to an increase of 13.1% year over year.

Total new-vehicle sales for the month of December—including retail and non-retail transactions—are projected to reach 1,619,000 units, a 5.1% decrease from December 2019 when adjusted for selling days. Reporting the same numbers without controlling for the number of selling days translates to an increase of 6.3% from December 2019. The seasonally adjusted annualized rate (SAAR) for total new-vehicle sales is expected to be 16.4 million units, down 500,000 units from 2019.

New-vehicle total sales for 2020 are projected to reach 14,468,200, a 14.8% decrease from 2019.”⁶

**IHS Markit Update:** “US light vehicle retail demand has proven more resilient in the near-term in spite of a very challenged US economic outlook. As a result, the US light vehicle sales outlook has been increased to 14.3 million units and 15.5 million units for 2020 and 2021, respectively.”⁷

“IHS Markit expects the market’s sales recovery to be over years, with the US not seeing 17 million light-vehicle registrations annually again through 2026.”⁸
North American Production Outlook (Updated 12/23)

Credit Suisse Outlook: “Inventory remains tight; expect further positive revisions to IHS estimates: While we ultimately expect industry volumes to be dictated by demand trends, supply remains tight, and may remain tight through 1H’21 – especially in LG pickups. November-end US industry gross stock was 2.8mn units (up ~80k units m/m), an improvement, albeit still quite low vs. the 3.5-4mn level we’ve seen in recent years. Similarly, with November ending at 53 days supply, inventory is still light of the typical ~70 DSO for the industry. We think this is manageable, but tight. Given tight inventory and return of SAAR to pre-virus levels, we expect upside to IHS NA production estimates for 2021.”

WardsIntelligence Update: “November was the second straight month North America vehicle production significantly finished short of expectations. November’s final total of 1.31 million units was 69,900 units below the projection for it coming into the period, and 6.4% below like-2019’s 1.40 million.”

“The fourth-quarter is pegged at 3.93 million units, 1.1% above Q4-2019’s 3.89 million, and entire-2020 is estimated to total 13.33 million, down 20.5% from the prior year’s 16.78 million.”

“Production in Q1-2021 is forecast to total 4.04 million units, 4.5% above like-2019’s COVID-19-impacted 3.87 million. Year-over-year declines of 7.0% and 9.6% are expected in January and February, respectively, but March is expected to rise 39.0% from the year-ago month, which is the month when widespread pandemic-related shutdowns earlier this year began.”
IHS Markit November Update: “The production outlook for North America remains stable for the November 2020 release with 2020 revised up 0.2% or 23,000 units to total 13.0 million units. Production in 2021 was revised up a marginal 9,000 units or less than 0.1% totaling 15.9 million units with 2022 revised down 18,000 unit or 0.1% at 16.3 million units. With the month-over-month trend showing a slow restocking on inventory is underway, the restocking phase for North American production is forecast to continue through second quarter 2021 before moving towards the alignment phase that more closely aligns to demand. During this extended restocking phase, production in the region will outpace demand and is projected to add over 400,000 units to US inventory by the end of second quarter 2021. GM’s announcement to add production of T1XX pickups at Oshawa surprised many, coming about through a deal with the Unifor union that represents Canadian auto workers. Production is expected to start at the retooled facility in January 2022. Production of both the light- and heavy-duty pickups will be added for the December forecast round with volume being mostly incremental for the first 12 to 18 months and totaling upwards of 150,000 units. With Oshawa serving as a relief valve, GM is also expected to garner additional cost savings with reduction in overtime at the already stressed Flint Truck, Fort Wayne and Silao plants.”

Market Meter

U.S. Light Vehicle Sales (Updated 1/6)

Monthly Sales (Updated 1/6)

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.
December Sales (Updated 1/6)

Wards Intelligence: “December’s volume of 1.609 million units was 6.4% above like-2019 and finalized the entire pandemic-impacted year at 14.46 million, 14.7% below 2019’s 16.95 million and lowest since 14.43 million in 2012.

Based on DSRs, December’s sales declined 5.0% to 57,460 over the month’s 28 selling days from the same year-ago period’s 60,490 – 25 selling days.

The fourth-quarter SAAR was 16.1 million units, well below like-2019’s 16.8 million, but significantly higher than Q2’s 11.3 million – when the economic fallout from the virus had its first impact on an entire quarter – and Q3’s 15.3 million. The Q1 SAAR, which included the start of the Covid-19 effect in mid-March, totaled 14.8 million units.

Besides the economic impact from battling the Covid-19 spread – but a consequence of it - long-time low inventory did have a downward effect on deliveries. Manufacturers entered the month with inventory down 22% year-over-year, and lowest for Nov. 30 since 2011.

Estimated retail sales in December finished 0.5% above like-2019 – based on DSRs – and would have been stronger if dealers had more inventory. But having higher stock levels at this point also would mean excess inventory of slower selling vehicles, which usually leads to higher incentives to move the additional metal off dealer lots. Lack of excess inventory, especially of cars and pre-21-model-year vehicles, meant less need for discounting.

According to initial estimates by J.D. Power, average incentives in December declined 12.7% year-over-year to $4,014, but average transaction prices hit an all-time high $38,077, a 9% increase from like-2019.”

U.S. Light Vehicle Sales: Year-Over-Year Changes

![Graph showing U.S. Light Vehicle Sales Year-Over-Year Changes](image-url)
Fleet Sales (Updated 1/6)

**Credit Suisse:** “Fleet still weak but showing continued recovery, especially in daily rental: Fleet sales saw another challenged month, down ~28% in November vs. Oct -22%, albeit an improvement from down ~40% in Aug/Sep, and certainly much better than down ~70% in April-June. Fleet remains a tale of three channels, with sharp weakness in daily rental somewhat offset by government and commercial. Indeed, daily rental sales were down ~40% in November, still quite weak, albeit flat vs. Oct, and a sharp improvement from ~60% in September and vs. the ~80-90% declines we saw in May-Aug (daily rental typically accounts for ~10% of US auto sales). Conversely, commercial and government have mostly held in, with commercial down low double digits % in November and government up low single digit %. We see potential for continued fleet recovery into 2021, even if not at normalized levels.”

**Wards Intelligence:** “Although retail volume could have been higher with more inventory, fleet demand is the main component keeping total light-vehicle sales from rising to pre-Covid-19 levels. In December, fleet deliveries are estimated to have declined 31% year-over-year, based on DSRs, with raw volume down 22%.”

**J.D. Power:** “Fleet sales are expected to total 218,700 units, down 31% from December 2019 on a selling day adjusted basis. Fleet volume is expected to account for 14% of total light-vehicle sales, down from 19% a year ago.”

<table>
<thead>
<tr>
<th><strong>J.D. Power Retail and Fleet Sales Forecast</strong></th>
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<tbody>
<tr>
<td><strong>Pessimistic Forecast</strong></td>
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<tr>
<td>-------------------------</td>
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<tr>
<td>Retail Sales Forecast (million)</td>
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<tr>
<td>Fleet/Other Sales Forecast (million)</td>
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<tr>
<td>Total Sales Forecast (million)</td>
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<tr>
<td>Fleet Percent of Total Sales</td>
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<tr>
<td>Retail Percent of Total Sales</td>
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<tr>
<td>Fleet Loss From Baseline of 3.4 (million)</td>
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<tr>
<td>Fleet Loss as % Baseline Fleet Sales</td>
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<tr>
<td>Fleet Loss as % Total Sales</td>
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Segments vs. Gas Prices (Updated 1/6)

**Wards Intelligence:** “In total, December’s truck DSR declined 0.6% from like-2019, but market share increased to 78.8% from 75.3%. Volume for 12-months 2020 totaled 11.06 million units, 9.7% below 2019. However, calendar-year market penetration increased to a record high 76.4% from the prior-year’s 72.2%. ... Car deliveries in December fell 18.5% year-over-year and market share dropped to 21.2% from 24.7% in the year-ago month. For the year, car sales totaled 3.41 million units, down 27.7% from 2019, and market share declined to a record low 23.6% from 27.8%.”
**Segment Sales For December:** For the year, the CUV segment group posted record market penetration of 43.3%. Except 2012, CUV penetration has risen every year since the first one hit the market in 1995. The SUV group recorded its highest annual market share (8.7%) since 2008. In entire-2020, CUVs and SUVs for the first time accounted for over half the market – 52%. With 19.7% of the market in 2020, the Pickup group recorded its highest market share since at least 1970 – when WI’s digital records begin – and probably for the post-World War II era, if not before then. Inside the group, the Large Pickup segment’s 15.5% market share in 2020 also was a likely post-World War record.17

**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,18 and gas was over $3.00 a gallon. As fuel prices dropped below the $3.00 mark in mid-September 2014, light truck sales began to take off – and never looked back. Gas prices since have averaged only $2.68 a gallon (through October 2020) 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.20

**ZEV Powertrain Sales (Updated 1/6)**

Sales of zero emission vehicles (BEV, PHEV, & Fuel Cell) accounted for 2.6% of total vehicle sales in December 2020, up 1.7% from a year ago and 1.9% from November 2020. Sales of battery electric vehicles led the way for ZEVs, accounting for 2.1% of total sales, a jump from 1.4% from November 2019. Plug-in hybrids accounted for 0.5%, the same figure as last year.21
Credit Suisse: “For all the hype around EV euphoria, we still haven’t seen the inflection in the US. YTD BEV+PHEV sales in the US are down ~12% y/y, outpacing the industry decline of -17%...albeit EV sales in the last 3 months are up 20%+ y/y; BEV+PHEV have accounted for 2.0% of vehicle sales YTD.”

Seasonally Adjusted Annual Rates (Updated 1/6)

“The fourth-quarter SAAR was 16.1 million units, well below like-2019’s 16.8 million, but significantly higher than Q2’s 11.3 million – when the economic fallout from the virus had its first impact on an entire quarter – and Q3’s 15.3 million. The Q1 SAAR, which included the start of the Covid-19 effect in mid-March, totaled 14.8 million units. Besides the economic impact from battling the Covid-19 spread – but a consequence of it - long-time low inventory did have a downward effect on deliveries. Manufacturers entered the month with inventory down 22% year-over-year, and lowest for Nov. 30 since 2011.”
Average Transaction Price (Updated 12/2)

*Kelley Blue Book:* “The valuation analysts at Kelley Blue Book today reported the estimated average transaction price for a light vehicle in the United States was $39,259 in November 2020. New-vehicle prices increased $499 (up 1.3%) from November 2019, while falling $480 (down 1.2%) from last month.”

**Average Transaction Price**

$35,500 $36,000 $36,500 $37,000 $37,500 $38,000 $38,500 $39,000 $39,500

Nov-18 Nov-19 Nov-20

Auto Loan Financing (Updated 1/6)

**Financing Rates Set New Low For The Year:** Rates in the week before Christmas inched up ever so slightly to 4.24% for 60 months, but remained the same for 48-month loans. Rates had remained relatively static since mid-July until starting to dip in November. Since the beginning of last year, rates are down 0.36% and down the same amount from about a year ago.

<table>
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<tr>
<th>Dates</th>
<th>60-month new car</th>
<th>48-month new car</th>
<th>36-month used car</th>
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<tr>
<td>12/4/2019</td>
<td>4.61%</td>
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<td>1/2/2020</td>
<td>4.60%</td>
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<td>One Week Change</td>
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<td>Two Week Change</td>
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<tr>
<td>Change since 1/3/20</td>
<td>-0.36%</td>
<td>-0.33%</td>
<td>-0.57%</td>
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<tr>
<td>One Year Change</td>
<td>-0.36%</td>
<td>-0.33%</td>
<td>-0.57%</td>
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Crude Oil and Gas Prices (Updated 1/6)

**EIA Outlook For Gasoline:** “U.S. Energy Information Administration (EIA) estimates gasoline inventories increased by 7.4 million barrels (3.3%) from October, which is slightly higher than the average five-year increase of 2.7% from October to November. EIA estimates November gasoline consumption averaged 8.2 million barrels per day (b/d), a decrease of 3.2% from October.”²⁶

**EIA Outlook For Production:** “EIA estimates that U.S. crude oil production was 11.2 million b/d in November, which is up from 10.9 million b/d in September (the most recent month for which historical data are available). The increase mostly reflects greater production in the U.S. Federal Gulf of Mexico after hurricane-related disruptions. EIA expects that U.S. crude oil production will decline to less than 11.0 million b/d in March 2021 mostly because of falling production in the Lower 48 states, where EIA expects declining production rates at existing wells will outpace production from newly drilled wells in the coming months. EIA expects crude oil production in the Lower 48 states will increase from 8.7 million b/d in February 2021 to 9.1 million b/d in December 2021, as drilling increases in response to rising oil prices. This increase contributes to total U.S. crude oil production reaching 11.4 million b/d in December 2021. On an annual average basis, EIA expects U.S. crude oil production to fall from 12.2 million b/d in 2019 to 11.3 million b/d in 2020 and 11.1 million b/d in 2021.”²⁷

**Oil Rises To Highest Level Since Pandemic Began While Gas Remains Low, Though Trending Up:** Oil prices, as benchmarked at West Texas Intermediate, increased to its highest level since early March, reaching $47.98 in early 2021, an increase of $11.38 from the beginning of November, only two months ago. Gasoline prices ticked up slightly to $2.25, still about mid-way between the high and low for 2020. Compared to the start of the year, crude oil is down 22%, while gas prices are down 13%.²⁸
Production Meter

**U.S. Light Vehicle Production (Updated 12/23)**

_WardsIntelligence:_ “A shortfall from expectations for production in November led to a reduction in final projections for Q4-2020 for light-vehicle and medium-/heavy-duty trucks. However, much of those cuts could be recouped in Q1-2021 if there are no major disruptions to supply or labor because of the global resurgence of the Covid-19 virus. November was the second straight month North America vehicle production significantly finished short of expectations. November’s final total of 1.31 million units was 69,900 units below the projection for it coming into the period, and 6.4% below like-2019’s 1.40 million. Including revisions to some estimates first made to October’s data, the prior month finished 58,700 units below the last projection for the period before it started, though its total of 1.45 million was up 3.7% year-over-year.”

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U.S. Light Vehicle Inventory and Days’ Supply (Updated 1/6)

WardsIntelligence Inventory Update: “Besides the economic impact from battling the Covid-19 spread – but a consequence of it - long-time low inventory did have a downward effect on deliveries. Manufacturers entered the month with inventory down 22% year-over-year, and lowest for Nov. 30 since 2011.

Estimated retail sales in December finished 0.5% above like-2019 – based on DSRs – and would have been stronger if dealers had more inventory. But having higher stock levels at this point also would mean excess inventory of slower selling vehicles, which usually leads to higher incentives to move the additional metal off dealer lots. Lack of excess inventory, especially of cars and pre-21-model-year vehicles, meant less need for discounting.”
Global Meter (Updated 12/30)

Global Light Vehicle Sales Outlook (Updated 12/30)

Wards Intelligence Outlook33: “After two months of gains, world sales dipped 1.3% to 7.72 million vehicles in November. The Asia-Pacific region again was the only region to improve, with a 9.0% boost to 4.12 million. However, a 14.9% drop in sales to 1.46 million in North America helped bring down the global total. Sales in China grew 12.6% to 2.77 million units, compared to year-ago’s 2.46 million, due to low COVID-19 infection rates and pent-up demand from shutdowns in the first quarter. ... Japan also saw gains in November, up 6.7% to 412,000 units, though year-ago totals were artificially low due to dealership closures caused by typhoons. Sales there were down 13.0% for the year. ... In Europe, sales were down 8.3% to 1.51 million for the month. Results were mixed across the region: Germany slipped 2.2% to 327,000 units and Spain dropped 17.1% to 92,000, while Greece improved 2.4% to more than 8,000 and Norway jumped 19.8% to 16,000. France had strict lockdown measures in place in November to help curb the spread of the coronavirus ahead of the Christmas season, helping to bring sales down 22.3% to 167,000 vehicles. ... With one month left in a tough year, world sales tumbled 15.6% through November to 70.78 million, compared to same-period 2019’s 83.87 million. Wards Intelligence Senior Industry Analyst Haig Stoddard expects sales to continue to fall in Q1 2021, though not as sharply as Q1 2020.”
Sales in select countries around the globe, including year-over-year percent change by month as well as raw volume by month:
Recovery Meter

North American Assembly Facility Operating Status (Updated 9/3)

After all automotive manufacturing was shut down for the first time since World War II for roughly eight weeks, automakers have resumed production at all plants across North America. The extent to which production has ramped up or employment has been reinstated continues to fluctuate due to the impacts of COVID-19. We will continue to monitor the operational status of assembly facilities.

To view information on plant operating status during the shutdown, please click here.

Roadway Travel (Updated 12/23)

According to the U.S. Department of Transportation, vehicle miles traveled in October were the strongest stopped its slide since the start of the pandemic, with VMT down 8.8% year-over-year, a slight uptick it the decline from September.

- “Travel on all roads and streets changed by -8.8% (-25.0 billion vehicle miles) for October 2020 as compared with October 2019. Travel for the month is estimated to be 259.0 billion vehicle miles.
- “The seasonally adjusted vehicle miles traveled for October 2020 is 246.8 billion miles, a -9.2% (-25.0 billion vehicle miles) decline from October 2019. It also represents -0.02% decline (-0.1 billion vehicle miles) compared with September 2020.
- “Cumulative Travel for 2020 changed by -13.9% (-380.7 billion vehicle miles). The cumulative estimate for the year is 2,351.9 billion vehicle miles of travel.”

Year Over Year Percent Change: VMT and Gas Prices

- February 2020: -19%
- March 2020: -40%
- April 2020: -34%
- May 2020: -26%
- June 2020: -35%
- July 2020: -23%
- August 2020: -21%
- September 2020: -17%
- October 2020: -16%
- November 2020: -12%
- December 2020: -8.6%
- January 2021: -8.8%

• Vehicle Miles Traveled (YoY %Change)
• Gasoline Price (Regular)
Repairable Claims (Updated 12/16)

In addition to highlighting key data regarding vehicle production and sales, the number of auto accidents and insurance claims are also useful to understand since the start of the COVID pandemic. The following chart and statistics help to highlight how vehicle repairs and insurance claims have decreased since that start of the year.

**Latest Data From CCC:** “Repairable appraisal counts in November 2020 versus November 2019 remained down nearly 20 percent, but showed a modest improvement coming in at -18.7 percent decline versus a -19.6 percent decline in October 2020. COVID-19 diagnoses, hospitalizations, and deaths continue to climb, as the third wave of the pandemic continues to affect most of the country. Data from Johns Hopkins Coronavirus Resource Center shows the Midwest, Southeast, and California have been hit particularly hard.

- “Overall claim counts remain down 20 percent year-to-date through November; excluding comprehensive, which are down 24 percent.
- “With the CDC recommending people not travel during the upcoming December and New Year’s holidays, it is unlikely claim counts will recover substantially during the final month of the year.
- “As we look forward to early CY 2021, promising news on several vaccines suggest we will start to see some improvement in travel during the second half of the year, which should lift claim counts up over CY 2020, but likely keep them below where they were in CY 2019.”
Economic News (Updated 12/9)

November U.S. Manufacturing Job Gains Boosted By 15,400 From Motor Vehicle Sector. “U.S. manufacturing added 27,000 jobs last month, buoyed by gains in motor vehicles and parts, the Labor Department said today. The motor vehicle sector boosted employment by 15,400 jobs, according to a breakdown by industry issued by the Bureau of Labor Statistics.”  36

- **Industry Recovery Helped By Continuing Strong Demand For Trucks And SUVs.** “The auto industry has recovered from plant shutdowns early in the year to slow the spread of the novel coronavirus (COVID-19). Factories restarted operations in May with new safety procedures in place. The industry has been helped by continuing strong demand for trucks and SUVs.”  37

U.S. Car And Truck Production Credited With Giving The Economy Its Biggest Boost In 50 Years. “U.S. car and truck production in the third quarter gave the economy its biggest boost in almost a half century. A surge in motor-vehicle output contributed just over 6 percentage points to the annualized 33.1% increase in gross domestic product, according to government data. That was the largest share since the first quarter of 1971, when United Auto Workers union members were returning to assembly lines after a months-long strike.”  38

As Automakers Ramped Up Output To Make Up For Lost Production In The Spring, Production Ran At An 11.4 Million Annualized Rate. “U.S. vehicle production ran at an 11.4 million annualized pace in the third quarter, compared with 3.6 million in the previous three months, Federal Reserve data show. Plants across the U.S. were shuttered for several weeks during the spring to prevent the spread of the coronavirus, but automakers have ramped up output in recent months, trying to replenish thinning inventories.”  39

- **“Household Spending On Motor Vehicles And Parts Surged At An 87% Annualized Rate, Also The Most Since 1971, The GDP Report Showed.”**  40

Consumer Confidence and Sales (Updated 12/9)

At the start of the year, consumer sentiment, as measured by the University of Michigan, was registering a 100 on their index, but as Covid-19 took hold, the index dropped at its worst by more than a quarter. The index made slight gains in October (81.8) over September, when it first climbed over 80 for the first time since March, however, the index fell to 76.9 in November. While the April low of 71 is only 6 points off from where the index sits currently, it is still much higher than it was during the depths of the recession in 2008. The downturn in sentiment corresponds to a decrease in the month’s seasonally adjusted annual rate.
Employment (Updated 12/9)

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 has raced back and is now only down about 77,000 employees, constituting a 6.3 percent loss since January. November’s employment is an improvement of over 23,000 jobs since October.41

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 country42.
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.

![Employment Growth: 2009 - January 2020](chart)

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3 Haig Stoddard, “COVID-19’s Toll on North America Vehicle Production in March, Q2,” WardsIntelligence, 3/30/20; Haig Stoddard, “North America Production Undershoots Expectations Second Straight Month in November,” WardsIntelligence, 12/18/20
4 Haig Stoddard, “December U.S. Light-Vehicle Sales End Bad Year With Some Optimism,” WardsIntelligence, 1/5/2021
6 J.D. Power, email, “Memorable (or Forgettable) Year to End Positively as December Sales Up and Average Transaction Prices Surpass $38,000 for First Time,” 12/23/2020
7 IHS Markit, email, “IHS Markit Monthly Automotive Update – October 2020,” 10/16/2020
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