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What you need to know: While exports are not a dominant part of the US economy, the US is still the world's second-largest

exporter, and the slowdown in US and global trade is likely to cause pain in the second half of 2019.

Slowing Trade Dragging on US and Global Economies

When it comes to US trade, the general perception is that imports are all that matter. "The US doesn't make anything anymore," is a common refrain, or "We buy everything from China." These common maxims are likely derived from the fact that the US

runs a perpetual trade deficit. However, this line of thinking is incorrect. US manufacturing is quite robust. Not only does the US create a tremendous number of products in-country, it also sell a tremendous number of those products overseas. For this reason, trade wars can cut both

ways, potentially harming US exporters as much as they harm the targets of tariffs and trade barriers. While it is impossible to assign exact percentages, the global wave of protectionism headlined by the US-China trade conflict appears to be taking a toll, with global economic activity on the back side of the business cycle and key global and US export trends moving in a negative direction. Total US exports to the world amount to roughly 8.8% of the overall US economy as measured by US gross domestic product. It may be a small slice of the pie, but to cast it as irrelevant would be a mistake. On a dollar basis, the US exported \$1.67 trillion in

Production **Exports** US Industrial Production Index to US Total Exports to the World 15 30 Rates-of-Change

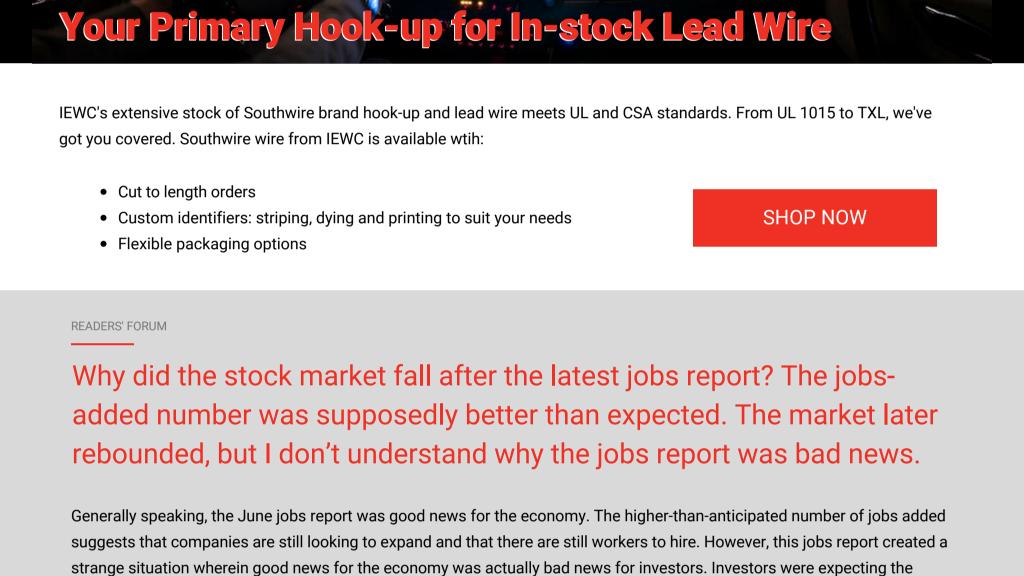


Production Volume World Industrial Production Index to Hong Kong Air Freight Volume 15 Rates-of-Change

The trend lines look worse outside the US. World industrial production was up 2.4% during the most recent 12 months and decelerating. The current growth rate for US industrial production is 3.3%. A look to Hong Kong air freight, a bellwether for

global trade volumes, points to a rather unsettling trajectory for the global economy through the rest of this year:

15 5 0 -15 -5 -30 -10 Annual Production Growth Rate (12/12) Volume is shifted eight months forward along the horizontal axis to reflect its cyclical relationship to Production. Quarterly Volume Growth Rate (3/12) -15 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17 '18 '19 '20 '21 '22 '23 '24 '25 '26 Hong Kong air freight volume during the second quarter came in 8.2% below the second quarter of 2018. This portends further deceleration in the world industrial production trend into at least early 2020. As US exports activity goes, the broader US trend lines tend to follow, and slowing or contracting trade activity across much of the globe points to a difficult second half of the year ahead. Living in a globalized economy for quite some time, we often take for granted the importance and value of trade. It allows countries to specialize, creates jobs while raising standards of living, facilitates economic development, and encourages the international competition that ultimately delivers the consumer the highest quality goods and services at the lowest prices. It is important for the US and the rest of the world that the current downswing in trade prove only a symptom of the current business cycle rather than the beginning of a long-term shift away from the global trade system.



Wholesale Trade

Retail Sales

Pace of growth will slow into mid-2020

Retail sales up 4.0% from same period a year ago

E-Commerce retail sales were up 13.3% with slowing growth

Auto Production

US farm machinery and equipment production, up 7.5% on a year-over-year basis, is rising at a generally slowing pace. This includes agricultural and farm machinery and equipment and other turf and ground care equipment, including planting, harvesting, and mowing equipment. Activity will likely peak imminently before declining through the remainder of 2019 and

into mid-2020.

expected to be particularly weak

Copper Prices

otherwise.

Copper

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• N. America light vehicle production down 0.5% from year-ago level Production will generally decline into next year • N. America light truck production up 2.6% while passenger car production

Manufacturing

Total Manufacturing Production up 2.1% from one year ago

Production likely to decline during majority of second half of 2019

• US Metalworking Machinery and US Construction Machinery are

Agricultural Machinery Outlook

down 7.2%

- - equipment were up 2.3% year over year, and the pace of growth is generally slowing. Exports will likely be limited by slowing in the global economy and the increasing strength of the US dollar. Farming equipment production is also likely suffering from the effects of protectionist trade policies. Although the US agreed to remove tariffs on Canadian and Mexican metals, tariffs remain in place for the rest of the world, driving up costs for equipment. This may be discouraging farmers from purchasing new machinery. Retaliatory tariffs implemented by US trade partners, most notably China, are lifting prices and limiting demand for American food products abroad. Until the US and

that you are adjusting your prices to remain competitive in your market.

Data Trend

Copper Prices 3MMA

GLOBAL DEEP-DIVE

Aluminum Prices 3MMA

'10 '11 '12 '13 '14 '15 '16 '17 '18

are unlikely to rise much this year as the global economy slows in its pace of growth.

\$2.76/lb

Aluminum

Stagnating US food production is likely limiting demand for farming equipment. Food production will be relatively flat during at least the next few quarters, which will drive down farm machinery and equipment production into mid-2020.

Arrows indicate 12-month moving total/average direction

Oil prices will pressure rotary rig count downward for at least the next

Nonresidential Construction

Nonresidential construction up 5.8% from one year ago

double-digit rates in 2019, will be areas of opportunity

Residential construction

• Residential construction down 3.5% from a year ago

transition to a recovery trend by early next year

Residential construction is declining at an increasing rate

Recent decline in mortgage rates suggests that construction may

· The manufacturing and warehouse segments, expected to grow at

• Construction is currently in accelerating growth trend

Rotary Rig

Count up 7.4% from one year ago

two quarters

Rig count has moved down in recent months

Capital Goods

US aluminum futures prices during the three months through June averaged \$1.78 per kilogram, down 20.2% from the second quarter of 2018. Prices have generally declined since mid-2020. As with copper prices, aluminum prices

Mexico's industrial sector recently entered a recessionary trend. the US has dropped the threat of tariffs on Mexican goods in response to Mexico's concessions on immigration. This will keep prices for Mexican products competitive in its most important foreign market. However, despite the positive signs, do not plan

for Mexico industrial production to grow at a rapid rate next year. Our analysis indicates that growth in 2020 will be mild by Data Trend Index Index 120 120 ■12MMA —3MMA 110 110 100 100

goods during the most recent 12 months, making it the world's second-largest goods exporter, behind only China. While it may import more than it exports, the chart below shows that the export side of the equation is relevant to the US economy:

The struggling US exports trend is likely due to a combination of the strengthening US dollar, the simmering US trade conflict with China, and weaker global demand stemming from anemic growth amongst most other advanced economies.

report as bad news, but they should be mindful that a second cut is not a given. **INDUSTRY SNAPSHOTS**

Federal Reserve to cut interest rates in response to recent slowing economic growth, but the stronger-than-anticipated job

growth weakened the case for cuts. The stock market has since rebounded, assisted by hints from Chairman Jerome Powell

exceed expectations going forward, the chances of a second cut later this year will fall. Businesses should not view this jobs

that the Federal Reserve could cut interest rates this month despite the job growth number. However, if job growth continues to

• Wholesale trade was up 4.4% from one year ago Nondefense capital goods new orders up 4.2% from year-ago level • Durable goods up 4.8% and wholesale trade of nondurable goods up New orders likely to peak imminently before declining in early 2020 4.1%; growth in both is slowing Defense capital goods new orders were up 16.7% • Durable segment likely to outperform bondurable segment this cycle Spending on defense capital goods will likely plateau in late 2019

Foreign markets are not presenting significant growth opportunities in this sector. US exports of farm machinery and

US copper futures prices during the three months through June averaged \$2.76 per pound, down 8.7% from the

same period one year ago. Prices have generally fallen in recent months. Slowing growth in the global industrial

economy could keep prices trending downward through the remainder of this year. If your input costs fall, ensure

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0

-50

-100

-150

- China can come to an agreement on tariffs, farmers will likely have less money to spend on new equipment than they would
 - Rate-of-Change Copper 150

Aluminum

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0

-100

-150

'19 '20

Copper Prices 3/12

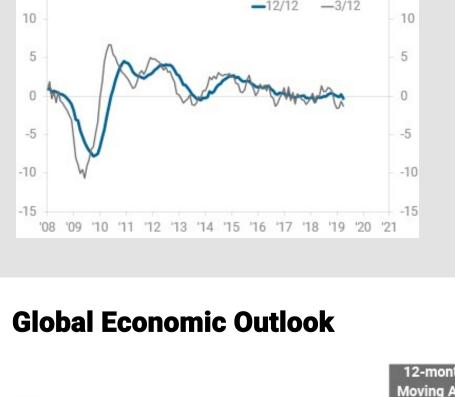
'17 '18

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Aluminum Prices 3/12

Mexico Industrial Production Mexico industrial production during the 12-month period ending in May was down 0.3% from the same period one year ago. Mexico manufacturing production, up 1.5% year over year, has been relatively flat in recent months. Meanwhile, Mexico's mining sector is currently in a recession; mining production was down 6.6% from one year ago. While neither sector is currently presenting significant opportunities for growth, the Mexico leading indicator and the Mexico manufacturing capacity utilization rate are signaling that Mexico's industrial economy will reach the bottom of the business cycle by the end of this year. This bodes well for recovery by the start of next year. Businesses operating in Mexico can plan with increased confidence now that

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	80 '08 '09 '10 '11	1 '12 '13 '14	15 16 17 18	19 '20	
ith Avg	Chg. Over Prev. 12 Months	2019 YTD	2020 Projected	2021 Projected	
	1.8	0.5	0.2	2.8	
	-0.3	-0.4	1.3	0.3	
	0.0	-1.4	1.9	1.1	

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historic standards. Expand capacity with caution.

Rate-of-Change

		Moving Avg	Months	2019 YTD	Projected	Projected
*	Canada Industrial Production		1.8	0.5	0.2	2.8
THE.	Mexico Industrial Production Index		-0.3	-0.4	1.3	0.3
THE STATE OF THE S	Brazil Manufacturing and Mining Industrial Production Index		0.0	-1.4	1.9	1.1
THE STATE OF	Western Europe Industrial Production Index		-0.2	-1.3	1.4	1.0
1	Eastern Europe Industrial Production Index		4.0	-1.3	4.3	3.2
THE STATE OF THE S	India Industrial Production Index		3.5	0.9	5.5	4.3
1	China Industrial Production Index		5.9	5.2	6.1	5.9
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Note: Forecast color represents market projection at end of year. Accelerating growth Recovery Slowing growth Recession