## Wisconsin's Recovery from the COVID Contraction

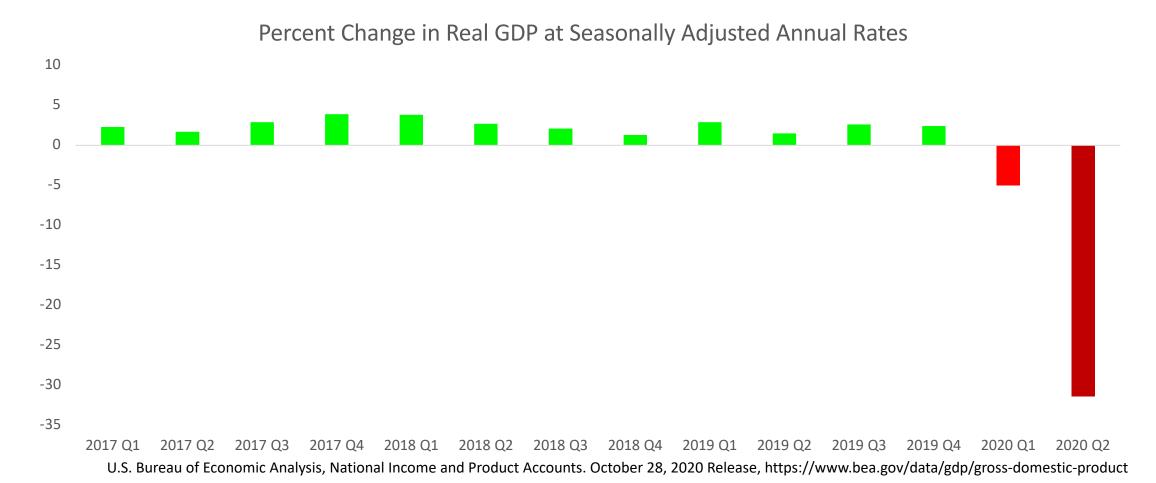
#### An International Focus

January 12, 2021

## Today's Discussion

- 1. Recap the 2020 COVID Contraction
- 2. Illustrate the significant divides in the rebuilding economy
- 3. Consider Wisconsin's outlook for 2021
- 4. Consider Wisconsin's International Trade Position

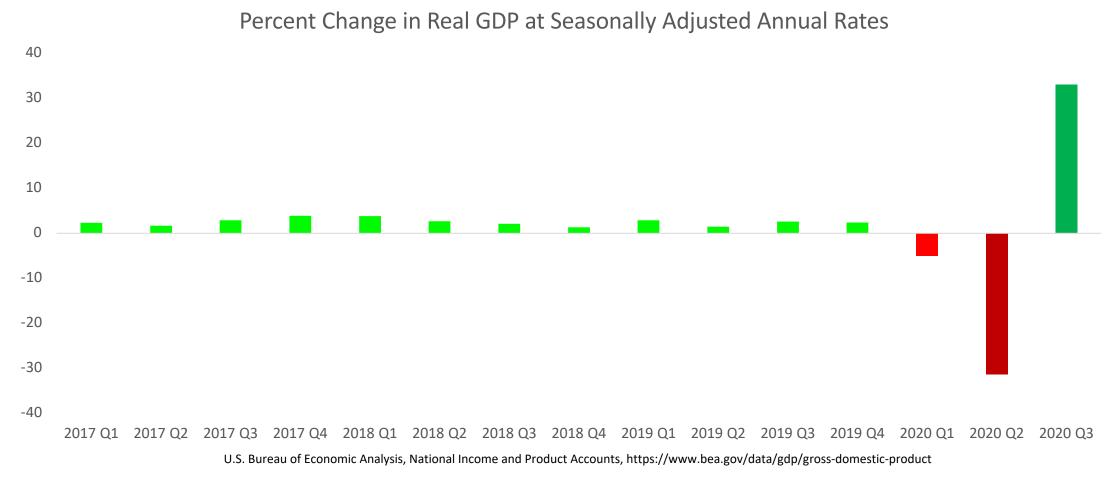
## Stunning Drop in Real GDP in First Half of 2020



### *Then This Happened* The COVID Contraction: Largest One-Quarter Economic Decline in U.S. History



#### Sharp Rebound in Real GDP in 2020 Q3 After record drop, a record rebound



#### **Reviewing Macroeconomic Fundamentals**

#### Drilling Down Into the Details

Second Quarter 2020 Compared to Third Quarter 2020 Contributions to Real Real GDP Growth

	2 <sup>nd</sup> Qtr	<u>3rd Qtr</u>		2 <sup>nd</sup> Qtr	<u>3rd Qtr</u>
Total GDP	-31.40%	+33.10%			
Consumption:	-24.01%	+25.27%	Trade:	+0.62%	-3.09%
Goods	-2.06%	+9.24%	Exports	-9.51%	+4.90%
Services	-21.95%	+16.04%	Imports	+10.13%	-7.99%
Investment:	-8.77%	+11.58%	Government:	+0.77%	- <b>0.68%</b>
Business	-3.67%	+2.88%	Defense	0.18%	+0.17%
Residential	-1.60%	+2.09%	Nondefense	0.98%	-0.55%
Inventory	-3.50%	+6.62%	State & Local	-0.40%	-0.30%

## The Economy's Fault Line Lies Between Goods and Services

U.S. Personal Consumption Expenditures, February 2020 = 100 110 105 100 95 90 85 80 75 70 Sep-19 Oct-19 Nov-19 Dec-19 Jan-20 Feb-20 Mar-20 Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Oct-20 Nov-20 Total Goods Services

Source: U.S. Bureau of Economic Analysis, National Income & Product Accounts, Table 2.8.5

## U.S. Exports Reflect the Same Goods-Service Divide

Service Exports Still Challenged



**Goods Exports Reviving** 

## *The Cross-Currents and Rip Tides* The COVID Recovery Is A Tale of Three Economies

Wide Variance in Recovery Status by Industry Depending on Continuing COVID Related Restrictions or Personal Response to COVID Risks

REVIVED Immediate Bounce Back Industries

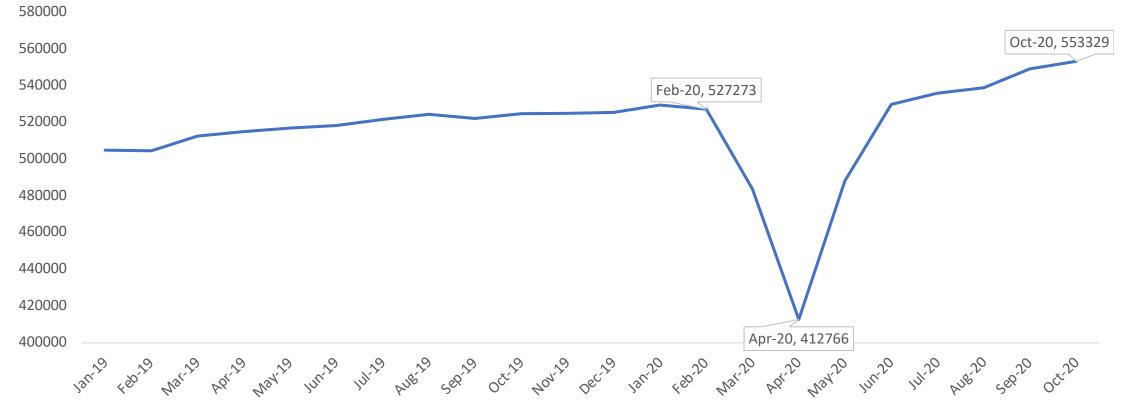
Retail Sales Auto Production Housing REBOUNDING Gradual Recovery Industries RECESSIONARY Deeply Challenged Industries

Health Care Personal Services Industrial Production Air Travel Airplane Production Destination Travel Mass Entertainment Education

## Revived: Total U.S. Retail Sales Rebound

October Retail Sales Up 4.8% Over Pre-Recession Levels and 5.6% over Year Ago

Total U.S. Retail Sales \$B Seasonally Adjusted at Annual Rates



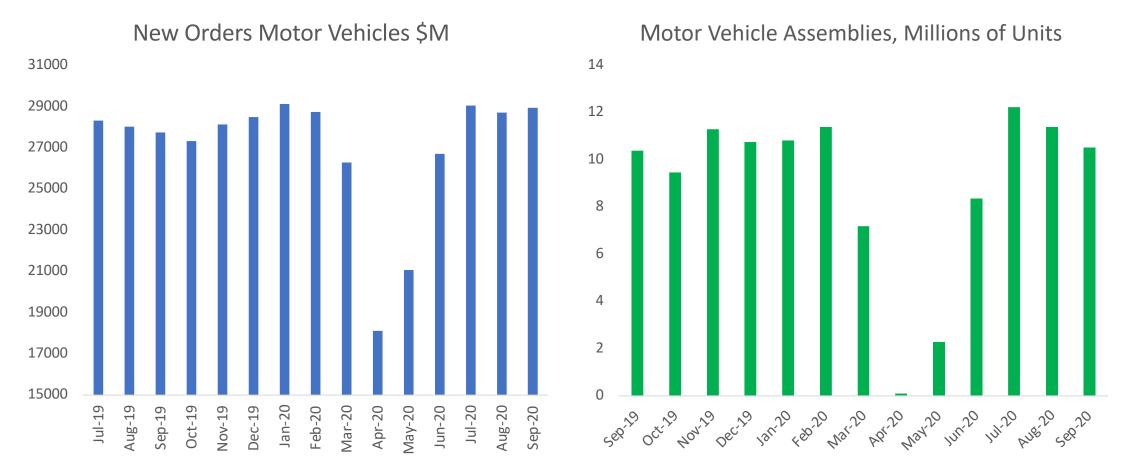
Source: U.S. Bureau of the Census, Advance Retail Sales, Release Date November 17,, 2020

### *Revived:* Wisconsin Retail Sales Outpacing U.S. In Most Retail Sales Categories

Percent Change in Retail Sales, July 2020 Over July 2019 40 U.S. Wisconsin 30 20 10 0 -10 -20 -30 Motor Vehicle Furniture and Electronics Building Health and Gas Stations Miscellaneous TOTAL Food and Clothing Sporting General and Parts Furnishings Material and Beverage Personal Care Goods Merchandise and Appliances &Hobby Garden Supplies Note: Total Excludes Sales From Non-store Retailers

Source: U.S. Bureau of the Census, https://www.census.gov/retail/state\_retail\_sales.html

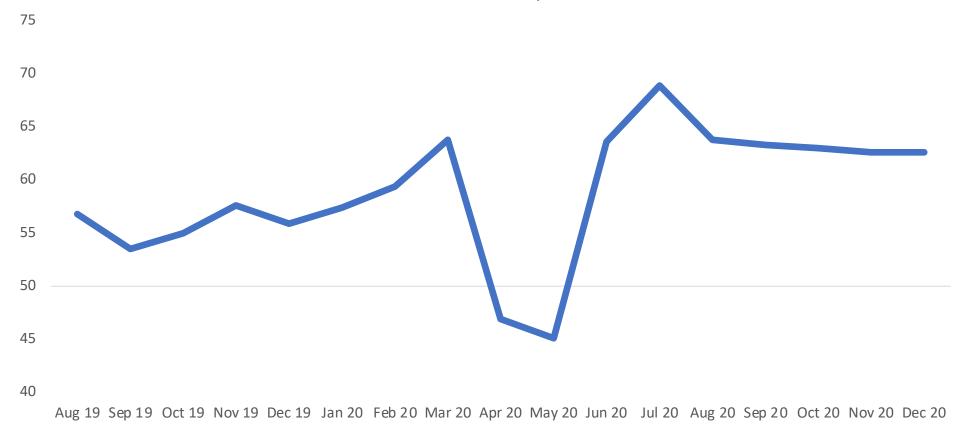
## *Revived:* Motor Vehicles New Orders Recovers, Production Follows



U.S. Bureau of the Census, New Orders for Manufactured Goods, Release Date, November 3, 2020; Federal Reserve Board of Governors, Industrial Production Release, November 17, 2020

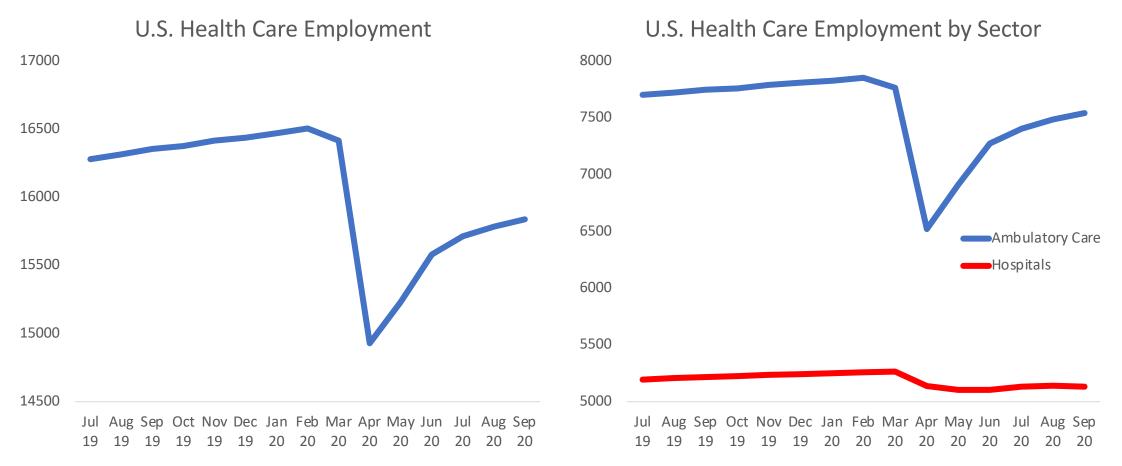
## Rebounding: Hospital Sector Back Sharply

ISM Services Index: Hospital Subsector



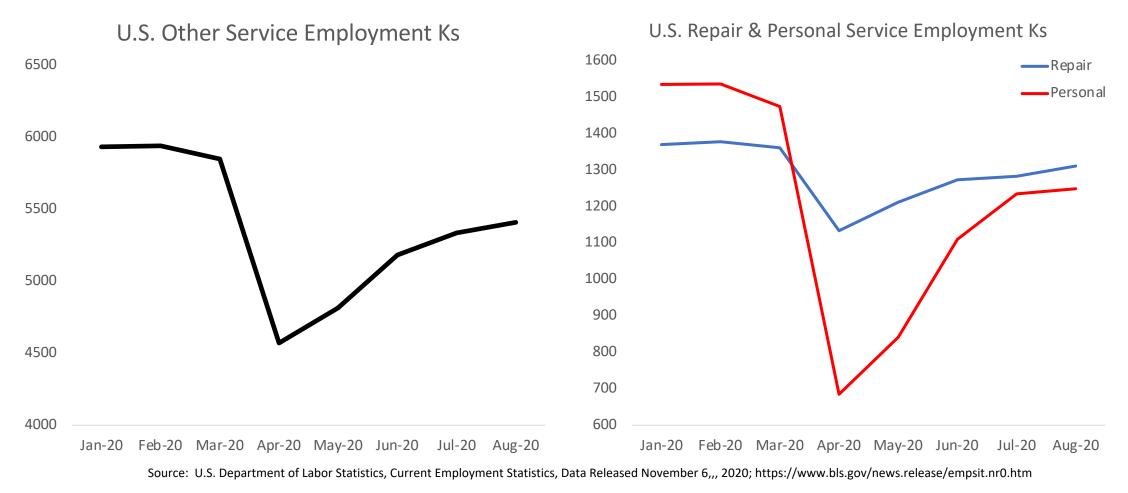
Source: Institute for Supply Management, Hospital ISM Report on Business, November 6, 2020

## *Rebounding*: Health Care Employment Recovering Led by Recovery in Ambulatory Care

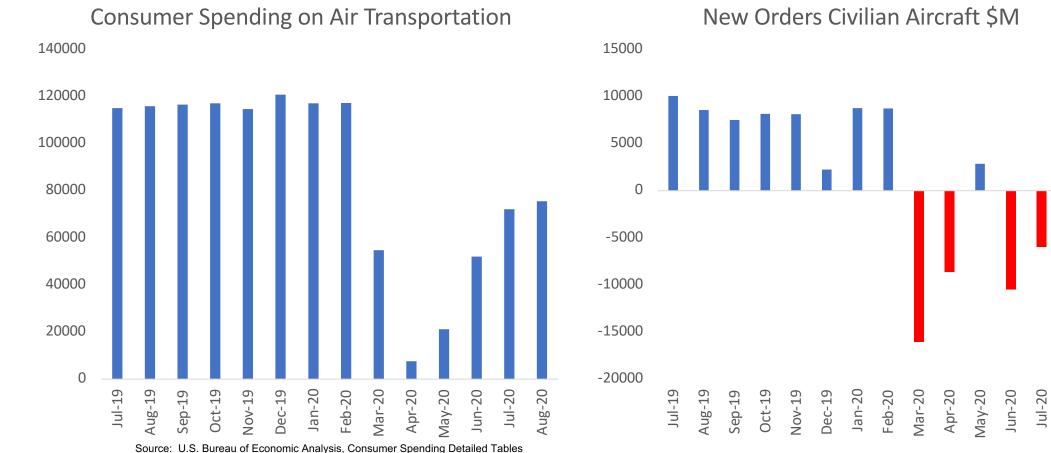


Source: U.S. Department of Labor Statistics, Current Employment Statistics, Data Released November 6,,, 2020; https://www.bls.gov/news.release/empsit.nr0.htm

## Other Service Employment Rebounding Led by Repair & Personal Services



## Recessionary: Air Travel Down, Aircraft Orders Canceled

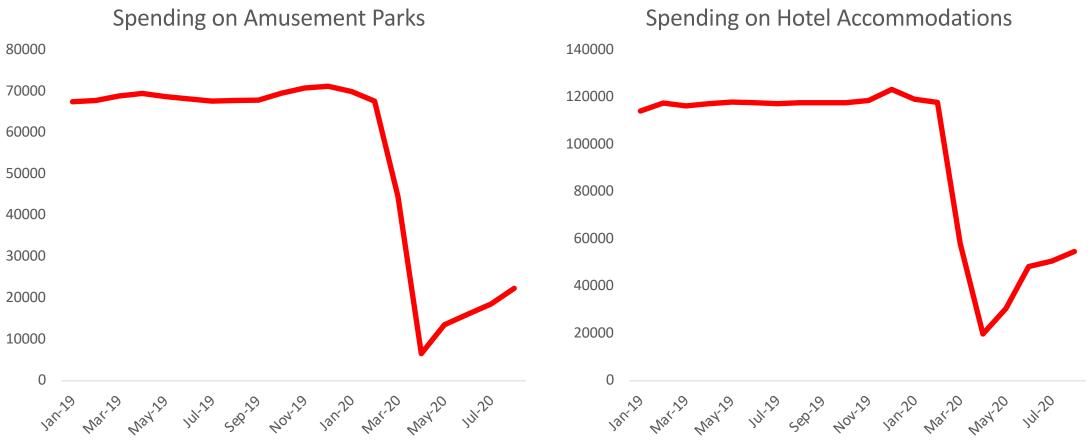


U.S. Bureau of the Census, New Orders for Manufactured Goods, Release Date, October, 2020

Sep-20

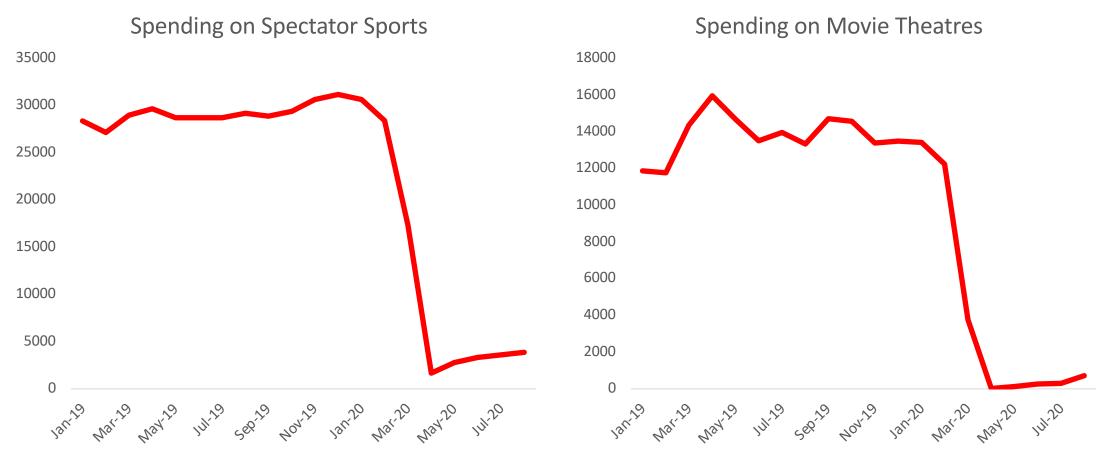
Aug-20

## *Recessionary:* Destination Travel Still In Major Contraction



Source: U.S. Bureau of Economic Analysis, Consumer Spending Detailed Tables

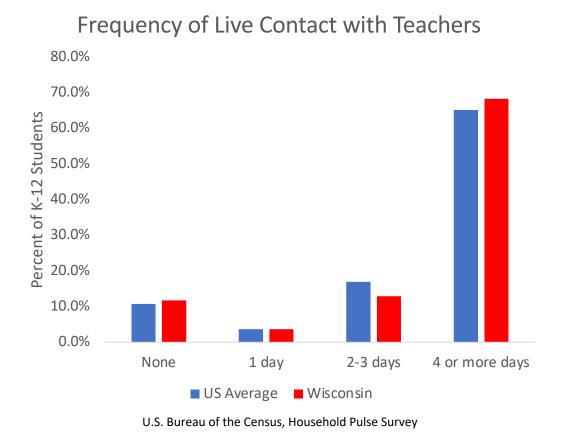
### *Recessionary:* Mass Entertainment Closer to Zero than Last Year's Levels



Source: U.S. Bureau of Economic Analysis, Consumer Spending Detailed Tables, https://apps.bea.gov/iTable/iTable.cfm?ReqID=19&step=2#reqid=19&step=2&isuri=1&1921=underlying

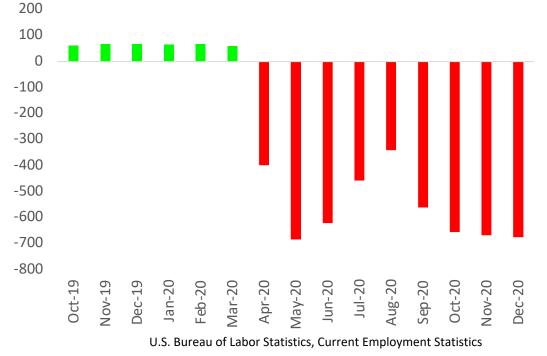
### *Recessionary*: K-12 Education: The Virtual Lockdown in Local Schools

#### **One-Third of K-12 Students Not In Full** Session



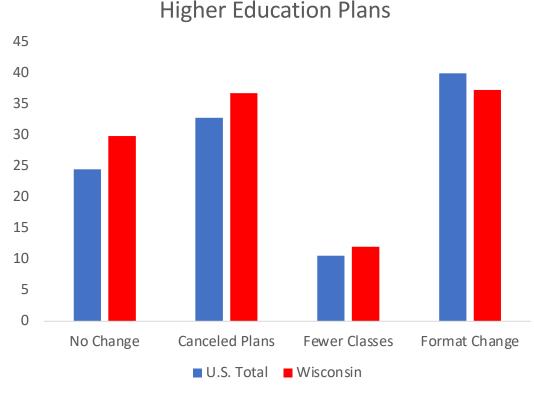
#### Local Public Education Unprecedented Jobs Loss

Local Education Employment Change Over Prior Year in Thousands



#### *Recessionary*: Higher Education Enrollment Shrinks. Job Losses Follow

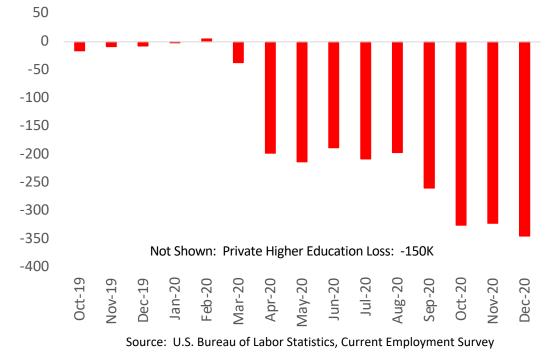
#### **Over 30% of Post-Secondary Students Cancelled Plans To Attend This Fall**



Source: U.S. Bureau of Census, Household Pulse Survey

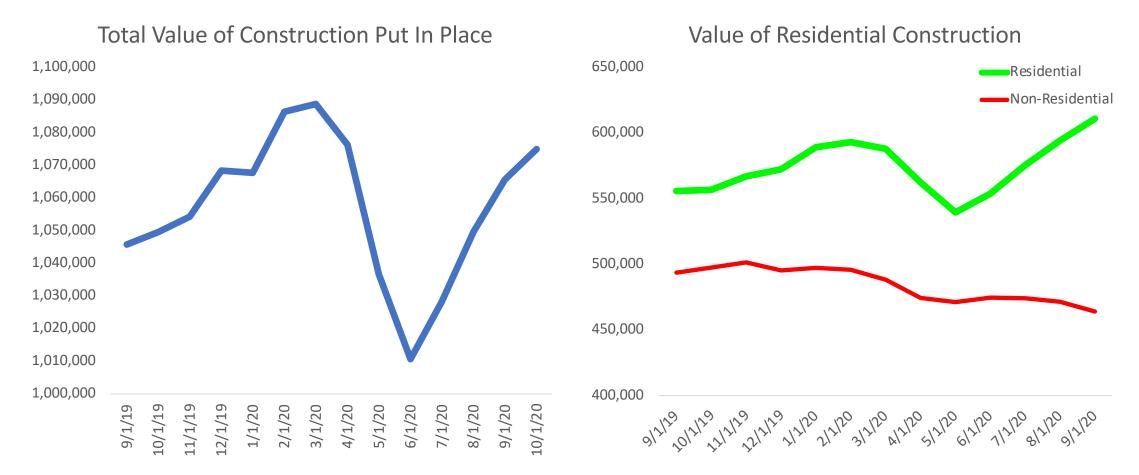
#### State Higher Education Job Loses Widening

State Higher Education Employment Year Over Year Change in Thousands



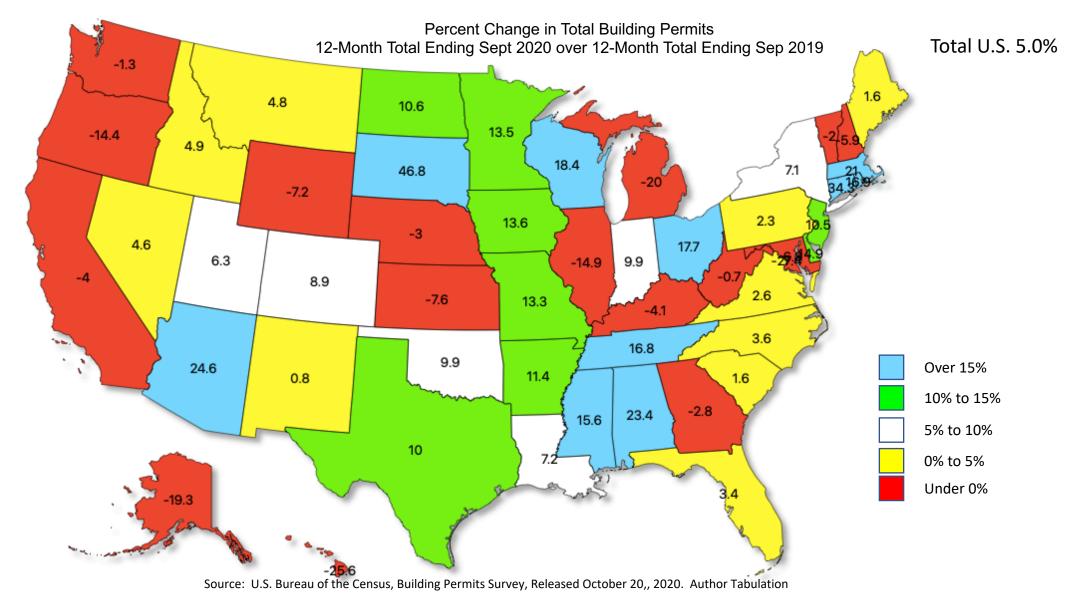
# Cross-Currents Occur Even Within Industries

#### Construction Rebound Led by Residential Construction



U.S. Census Bureau, Value of Construction Spending, November 2, 2020; https://www.census.gov/construction/c30/pdf/release.pdf

#### Housing Construction Pace in Wisconsin Faster Than Most States



### Manufacturing Rebuilding

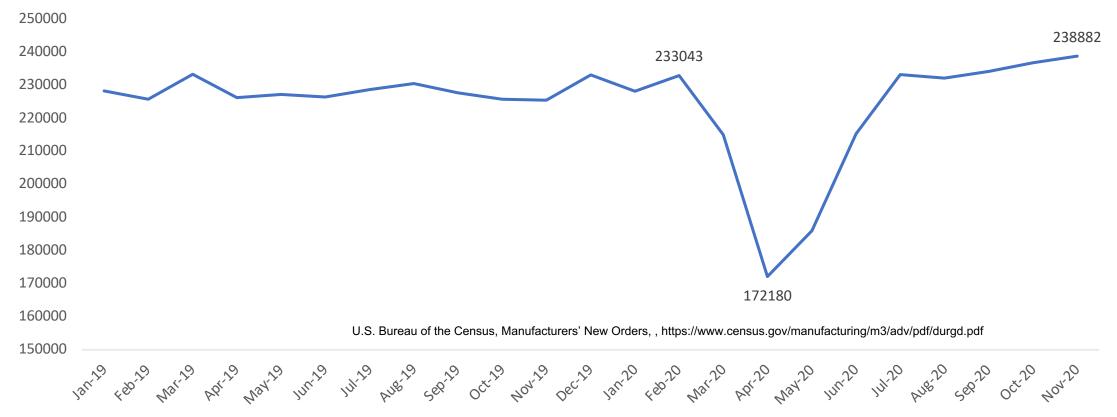
Manufacturing Dropped 20% from February to April Gained 21% April to November

Total Manufacturing, Industrial Production Index, 2012 Average = 100 110 106.1033 105 102.3853 100 95 90 85 84.8494 80 Aug-19 Sep-19 Oct-19 Nov-19 Dec-19 Jan-20 Feb-20 Mar-20 Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Oct-20 Nov-20 Jul-19

Source: Federal Reserve Board of Governor's, Industrial Production Index, https://www.federalreserve.gov/releases/g17/Current/default.htm

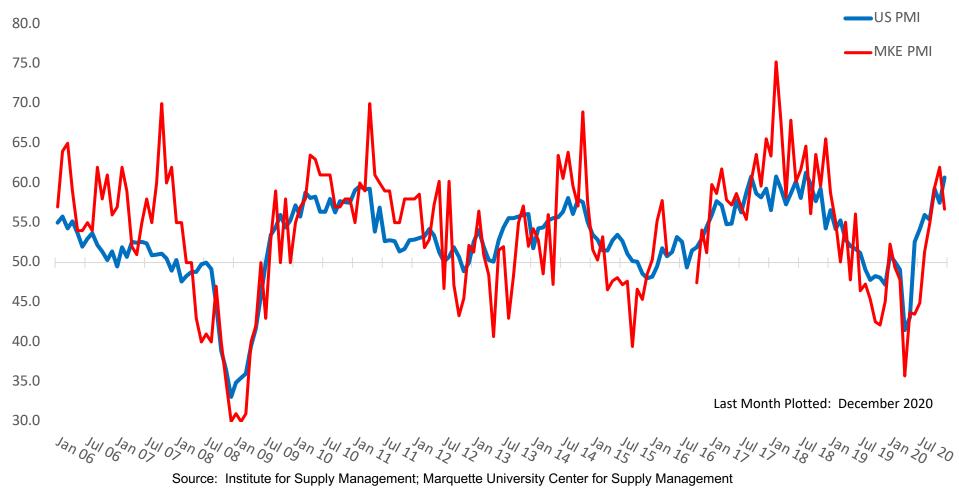
## Outside of Aircraft, Durable Goods Orders Rebound

Manufacturers Durable Goods Orders Excluding Aircraft and Parts



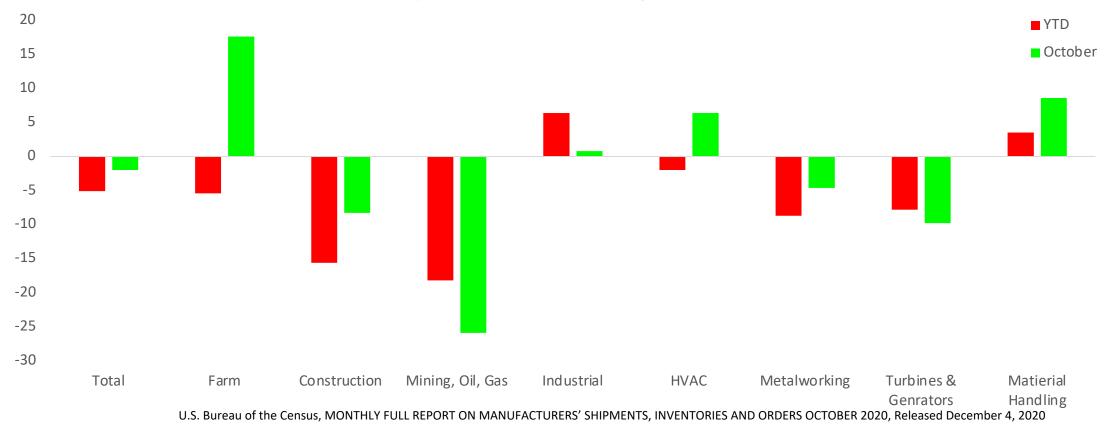
#### After April Collapse Wisconsin Manufacturing Moves Back to Expansion





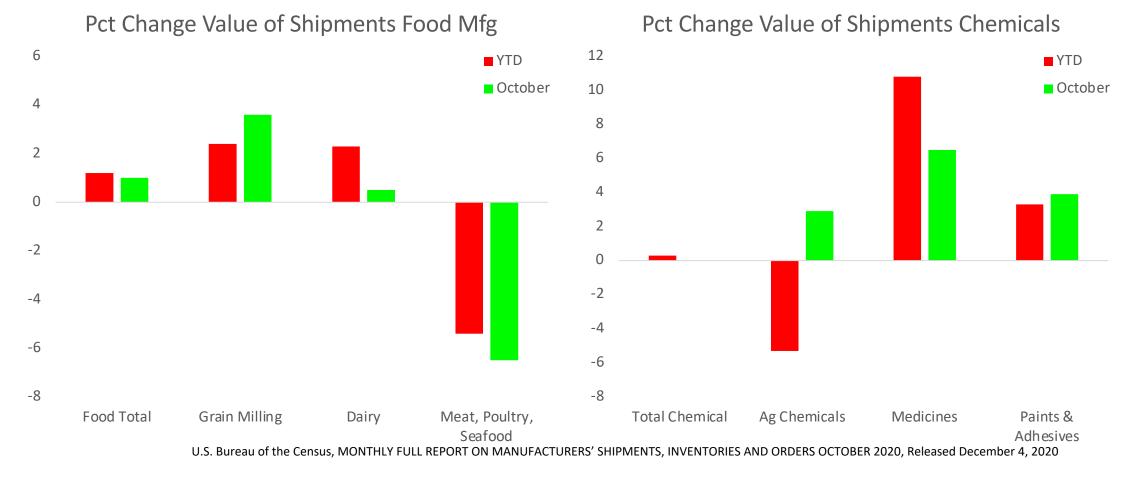
#### Different Results Even Within an Industry Reflect the Cross-Currents The Case of Machinery Manufacturing

Value of Shipments, Percent Change Over Prior Year

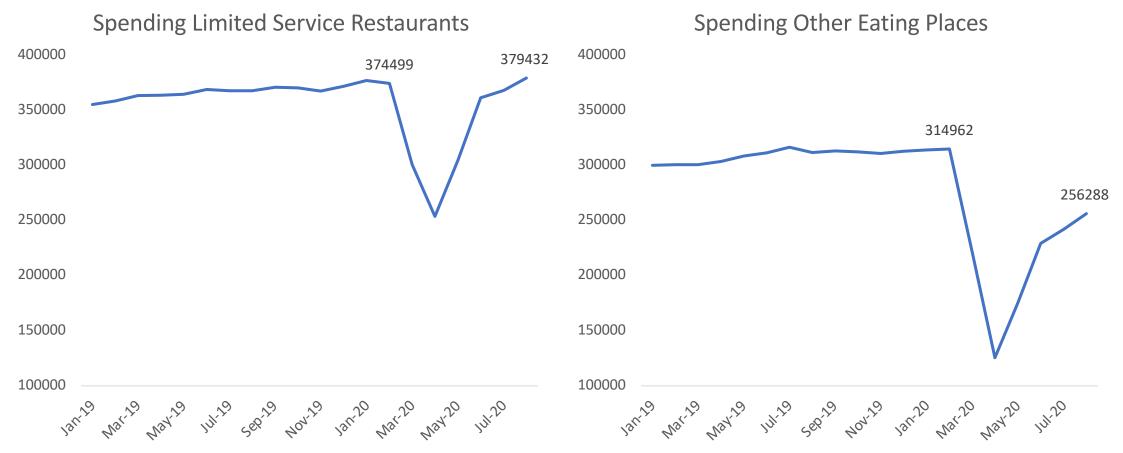


## Different Results Within an Industry Reflect the Cross-Currents

#### The Cases of Food Manufacturing & Chemical Manufacturing



## Restaurant Trade Rebuilding Fast Food Rebounds. Dine-In Still Behind



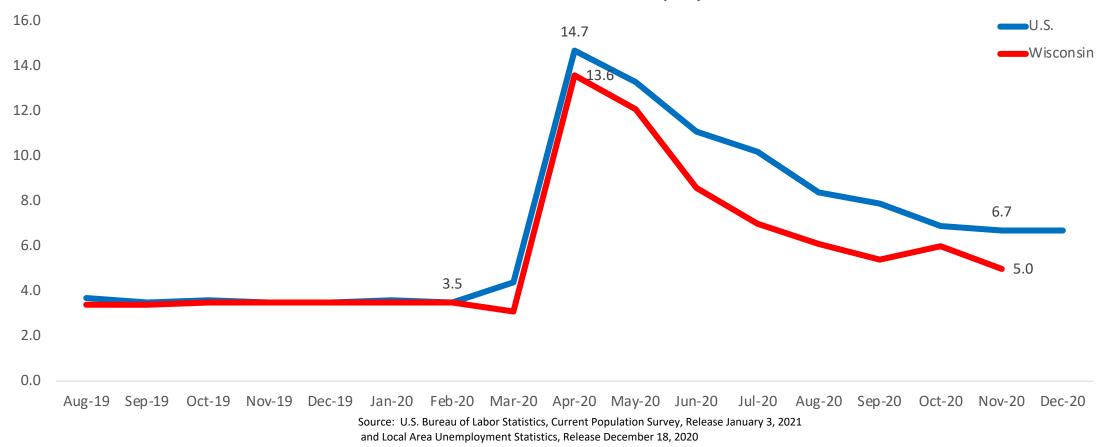
Source: U.S. Bureau of Economic Analysis, Consumer Spending Detailed Tables, https://apps.bea.gov/iTable/iTable.cfm?ReqID=19&step=2#reqid=19&step=2&isuri=1&1921=underlying

## Labor Markets

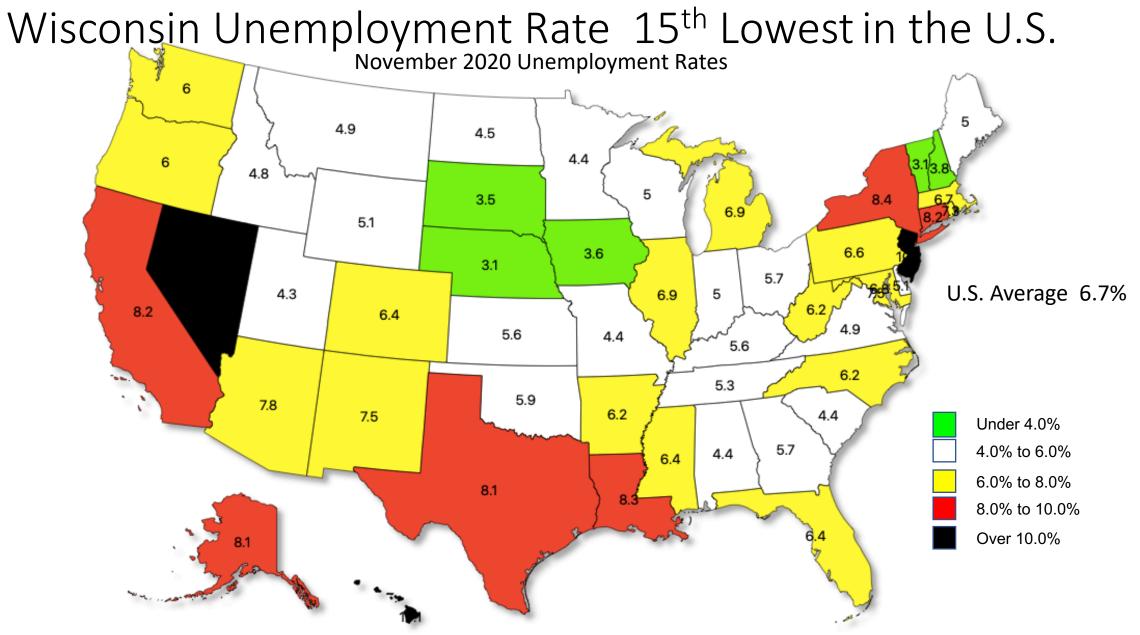
## U.S. and Wisconsin Unemployment Rates Down Sharply from April Peak

Wisconsin's Unemployment Rate 2.7 Points Below U.S. Average

Percent of Workforce Unemployed



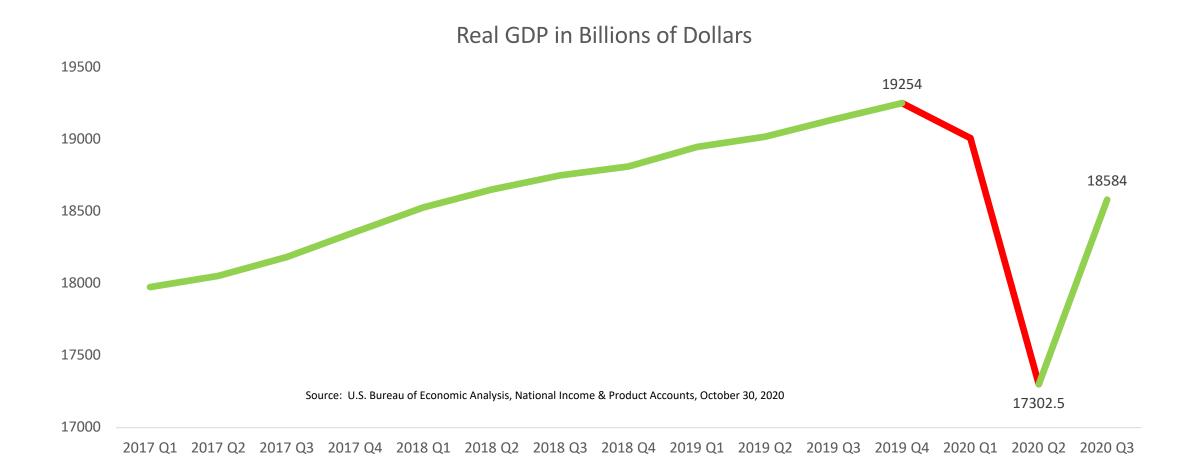
Wisconsin Department of Revenue



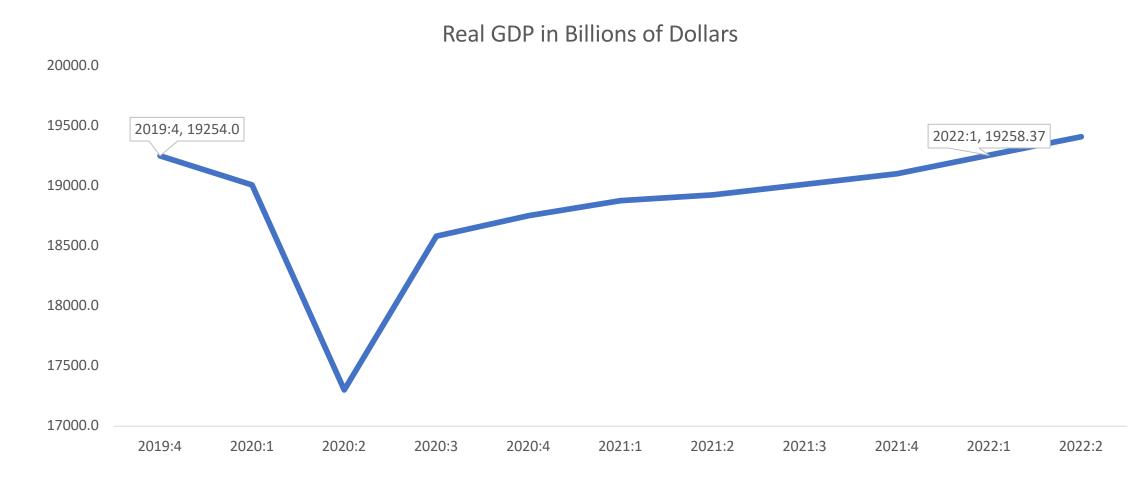
Source: U.S. Bureau of Labor Statistics, Local Area Unemployment Statistics, Release December 18, 2020

## 2021 Outlook

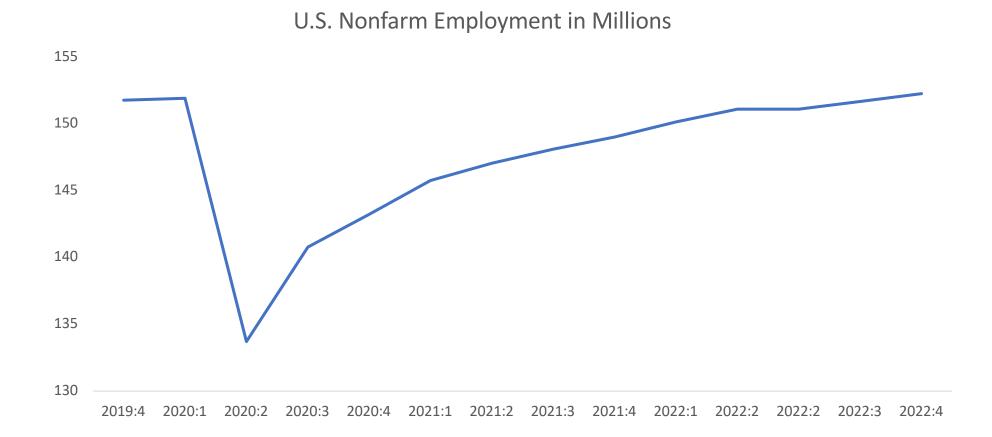
## Real GDP Still 3.5% Below 2019 Q4 Peak



## Real GDP Reaches Full Recovery By 2022 Q1 Expansion Thereafter



## Full Recovery for Employment by 2022 Q4



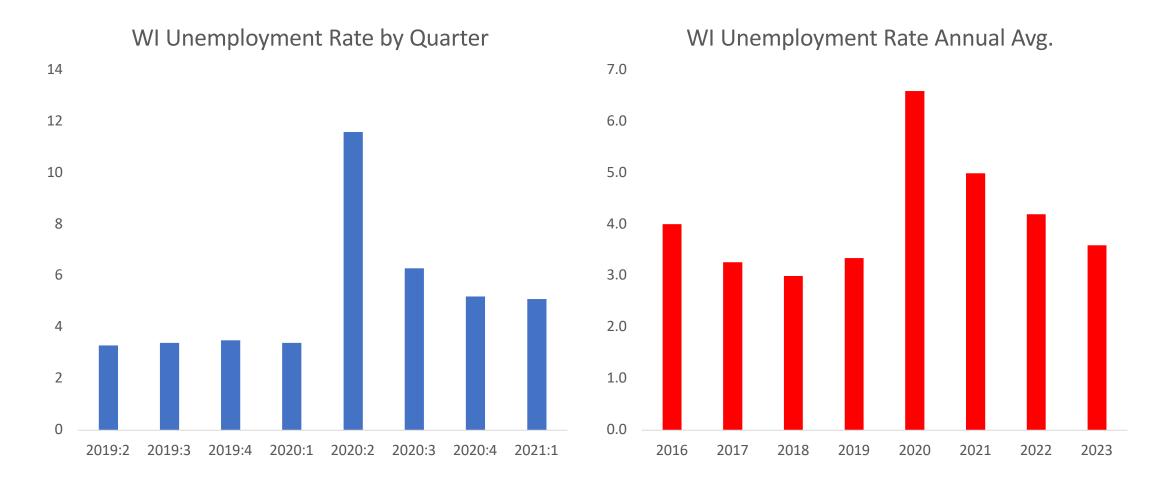
## Federal Reserve Open Market Committee Guidance on Outlook for 2021 & 2022

Federal Reserve will support the recovery

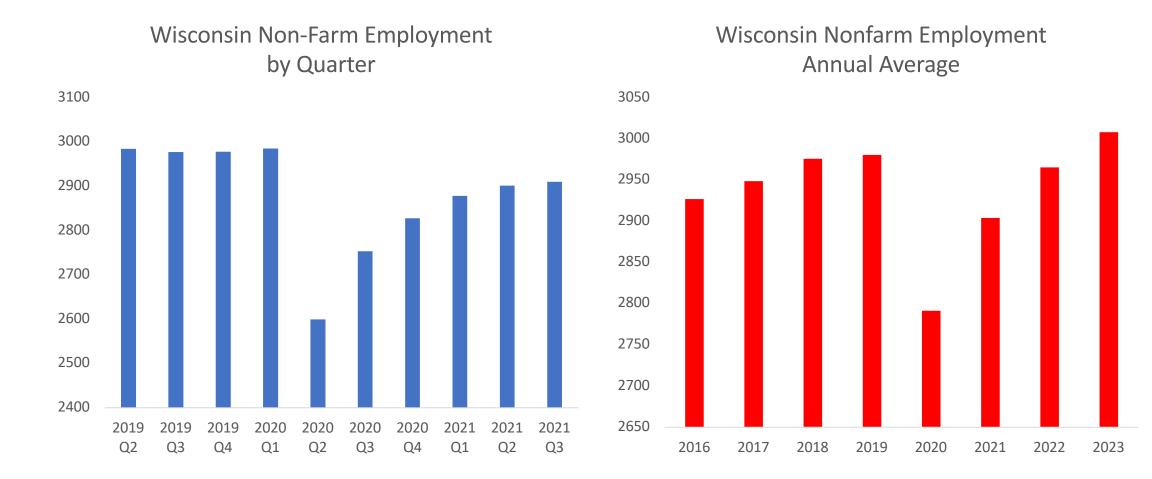
Federal Reserve FOMC Outlook, September 2020					
	Median Forecasts				
	Annual Average				
Economic Indicator	2020	2021	2022		
Real GDP, Percent Change	-3.7	4.0	3.0		
Unemployment Rate	7.6	5.5	4.6		
Inflation Rate	1.5	1.7	1.8		
Federal Funds Rate	0.1	0.1	0.1		

Source: Federal Reserve Board of Governors, https://www.federalreserve.gov/monetarypolicy.htm

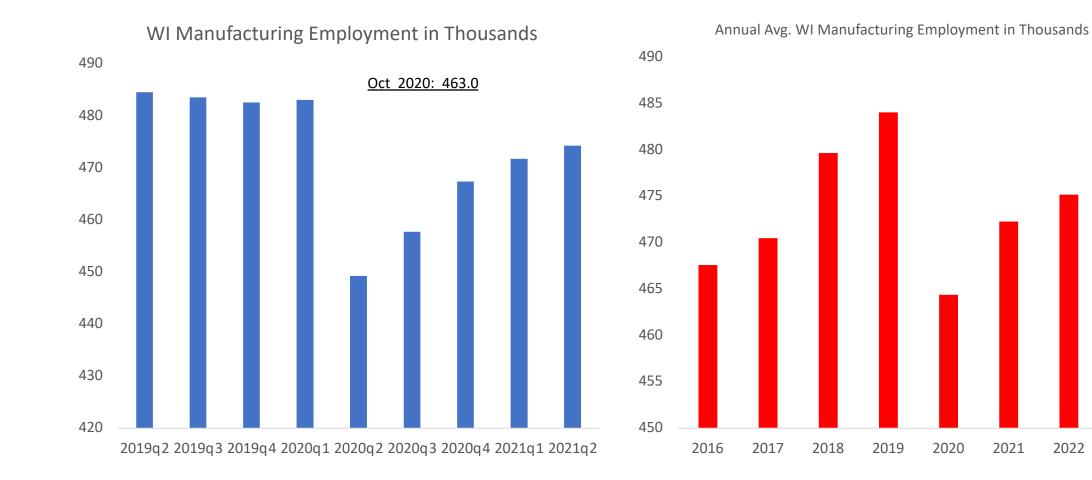
## Wisconsin's Economic Outlook: Unemployment Rate Declines Starting 3rd Qtr. 2020, Reaches Full Employment in 2023



## Wisconsin Employment Rebounding Recovered by Late 2022



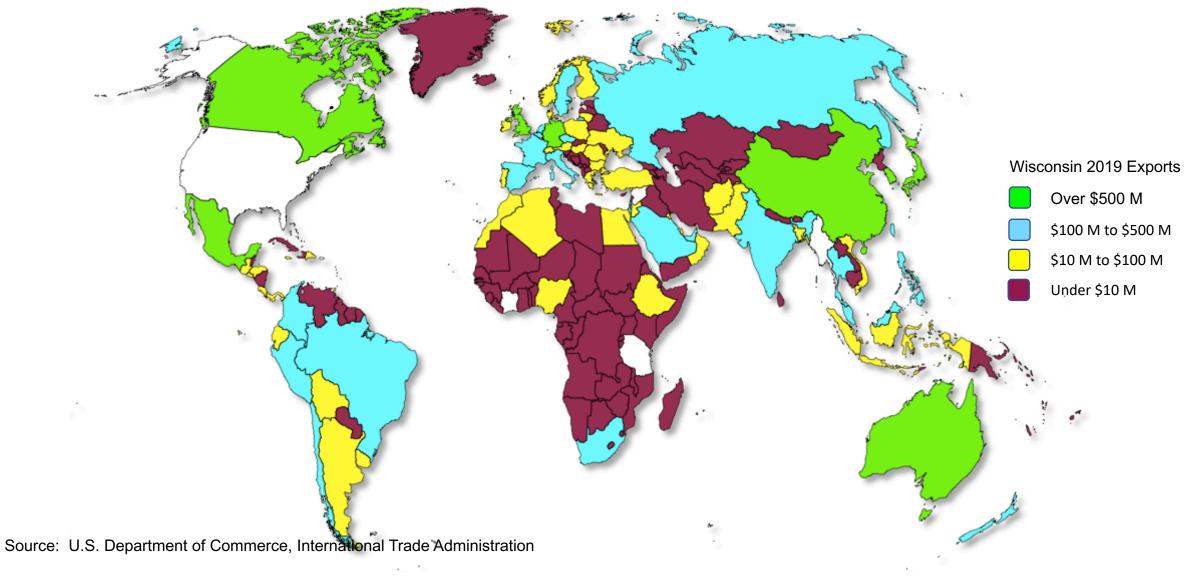
### Wisconsin Manufacturing Employment Turnaround Started In Third Quarter



2023

Wisconsin's International Trade

#### Wisconsin Exports to Over 200 Countries World-Wide



#### Wisconsin's 25 Largest Export Markets: Over Half of Exports to 3 Countries: Canada, Mexico, and China

#### Wisconsin Exports 2019 Total by Destination Country

			Country		_				Country	Cumulative
WI Rank	Country	Amount \$M	Share	Share	1	WI Rank	Country	Amount \$M	Share	Share
	WI Export Total	21,668.5								
1	Canada	6,753.9	31.2%	31.2%		11	Belgium	418.6	1.9%	74.3%
2	Mexico	3,281.8	15.1%	46.3%		12	Thailand	328.2	1.5%	75.8%
3	China	1,373.2	6.3%	52.7%		13	Italy	312.3	1.4%	77.3%
4	United Kingdom	804.6	3.7%	56.4%		14	Brazil	299.4	1.4%	78.7%
5	Germany	760.0	3.5%	59.9%		15	India	289.1	1.3%	80.0%
6	Japan	704.4	3.3%	63.1%		16	Singapore	235.2	1.1%	81.1%
7	Australia	576.2	2.7%	65.8%		17	Chile	229.0	1.1%	82.1%
8	Korea, South	544.6	2.5%	68.3%		18	Taiwan	226.6	1.0%	83.2%
9	Netherlands	451.8	2.1%	70.4%		19	Hong Kong	212.4	1.0%	84.2%
10	France	434.9	2.0%	72.4%		20	Saudi Arabia	156.3	0.7%	84.9%
						21	Malaysia	153.9	0.7%	85.6%
	Top 10 Total	15,685.4		72.4%		22	Czech Republic	144.4	0.7%	86.3%
						23	Spain	137.6	0.6%	86.9%
						24	Peru	136.8	0.6%	87.5%
						25	United Arab Emirates	136.6	0.6%	88.2%
							Top 25 Total	19,101.7		88.2%
							Rest of the World	2,566.7		11.8%

# North American and Asia are Primary Destinations for Wisconsin Exports

Wisconsin Exports 2019 Total by Destination Region

	1						
WI Rank	Country	Amount \$M	Share	WI Rank	Country	Amount \$M	Share
	WI Export Total	21,668.5					
NORTH /	AMERICA	10,035.7	46.3%	EUROPE		3,464.1	16.0%
1	Canada	6,753.9	31.2%	4	United Kingdom	804.6	3.7%
2	Mexico	3,281.8	15.1%	5	Germany	760.0	3.5%
				9	Netherlands	451.8	2.1%
				10	France	434.9	2.0%
ASIA		4,223.8	19.5%	11	Belgium	418.6	1.9%
3	China	1,373.2	6.3%	13	Italy	312.3	1.4%
6	Japan	704.4	3.3%	22	Czech Republic	144.4	0.7%
8	Korea, South	544.6	2.5%	23	Spain	137.6	0.6%
12	Thailand	328.2	1.5%				
15	India	289.1	1.3%	SOUTH AN	MERICA	665.2	3.1%
16	Singapore	235.2	1.1%	14	Brazil	299.4	1.4%
18	Taiwan	226.6	1.0%	17	Chile	229.0	1.1%
19	Hong Kong	212.4	1.0%	24	Peru	136.8	0.6%
20	Saudi Arabia	156.3	0.7%				
21	Malaysia	153.9	0.7%	OCEANIA		576.2	2.7%
25	United Arab Emira	136.6	0.6%	7	Australia	576.2	2.7%

## Top Markets for Wisconsin's Principal Export Industries

Wisconsin Industries with Exports Over \$500 Million						
Industry	2019 Exports \$M	Top 3 Destination Markets				
Machinery	4,529.3	Canada	Mexico	Australia		
<b>Computers &amp; Electronics</b>	2,611.2	China	Canada	Mexico		
Transportation Equipment	2,200.0	Mexico	Canada	United Kingdom		
Food	1,994.9	Canada	Mexico	South Korea		
Chemicals	1,986.3	Canada	Germany	Mexico		
Electrical Equipment	1,718.8	Canada	Mexico	China		
Fabricated Metals	1,059.3	Mexico	Canada	China		
Plastics & Rubber	1,002.6	Canada	Mexico	Germany		
Paper	946.6	Canada	Mexico	China		
Miscellaneous Manufacturing	674.6	Canada	Mexico	Germany		
Agricultural Products	604.0	Italy	Canada	China		

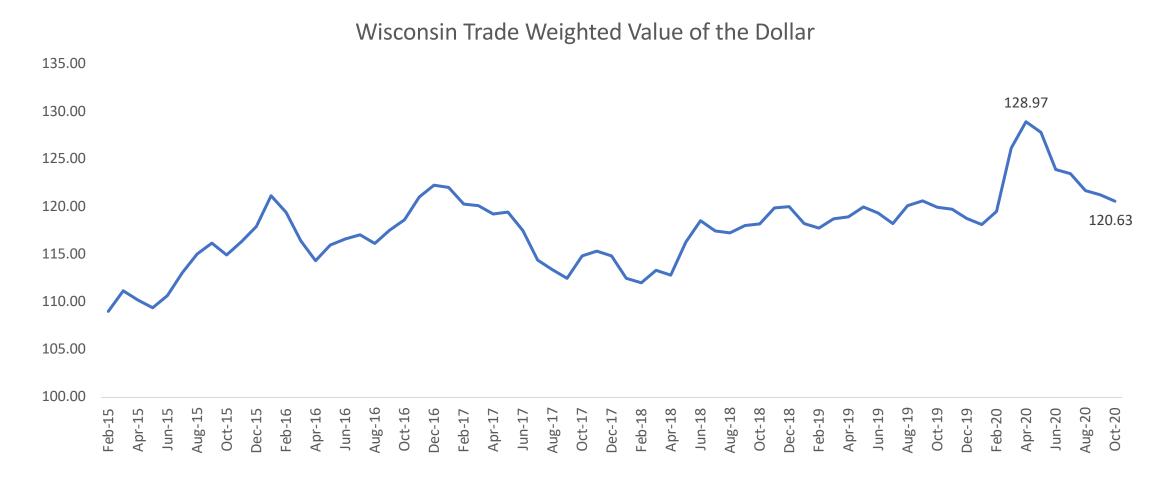
#### WI Agricultural Exports Led by Dairy Products

Agricultural Exports Here Include Food Manufacturing

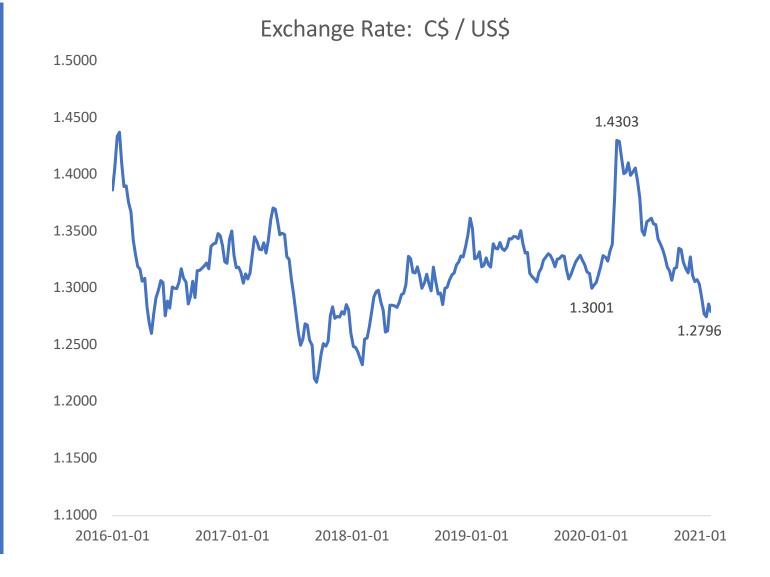
	2019 Amount \$M
Dairy products Soybeans	834.5 399.5
Feeds and other feed grains	218.0
Corn	214.9
Beef and veal	203.1
Vegetables, processed	111.1
Total agricultural exports	2,841.4

Source: U.S. Department of Agriculture, Economic Research Service

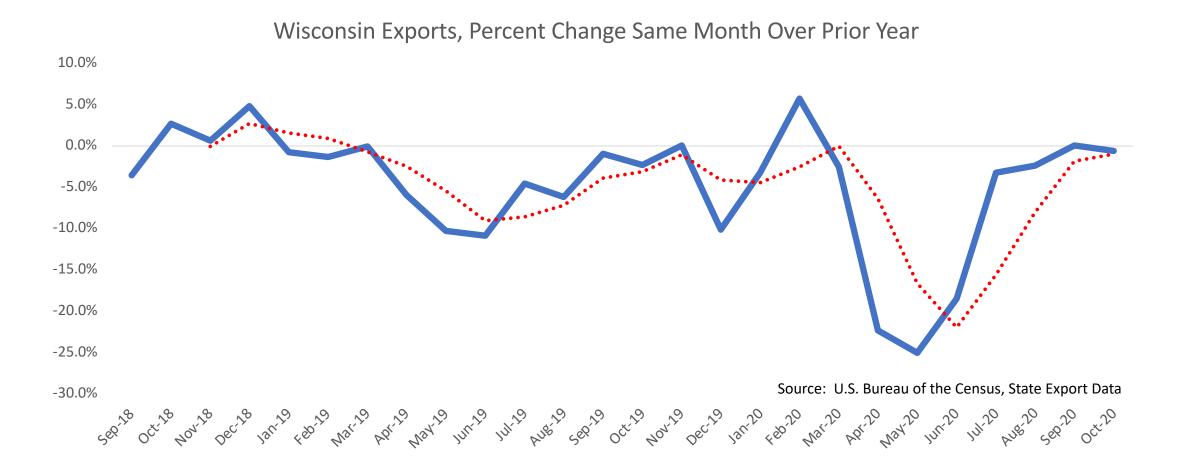
# Wisconsin Trade Weighted Value of the Dollar Declining After the Spring Spike



Wisconsin Industries More Sensitive the U.S.-Canada Exchange Rate



### Wisconsin Exports Recovering from Spring COIVD Contraction

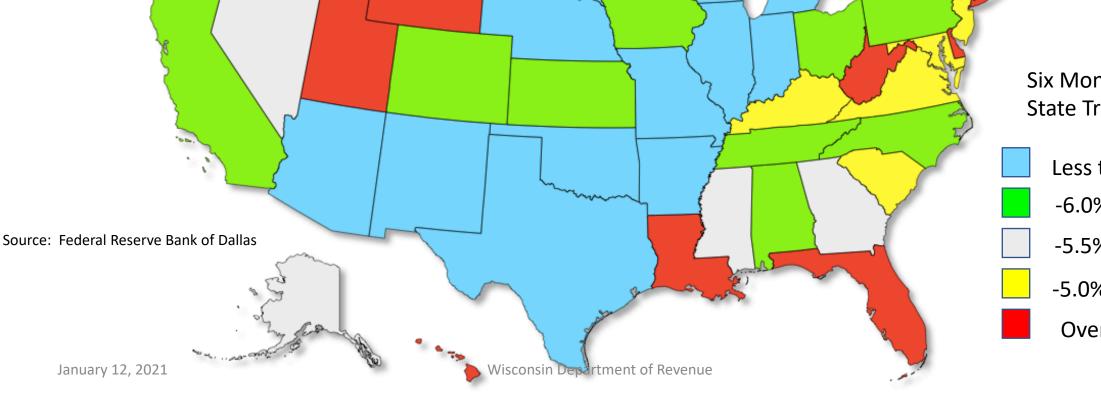


## Wisconsin Trade Weighted Dollar Falling Faster Than Most States

Six Month Change State Trade Dollars

Less than -6.0% -6.0% to -5.5% -5.5% to -5.0% -5.0% to -4.5% Over -4.5%

50

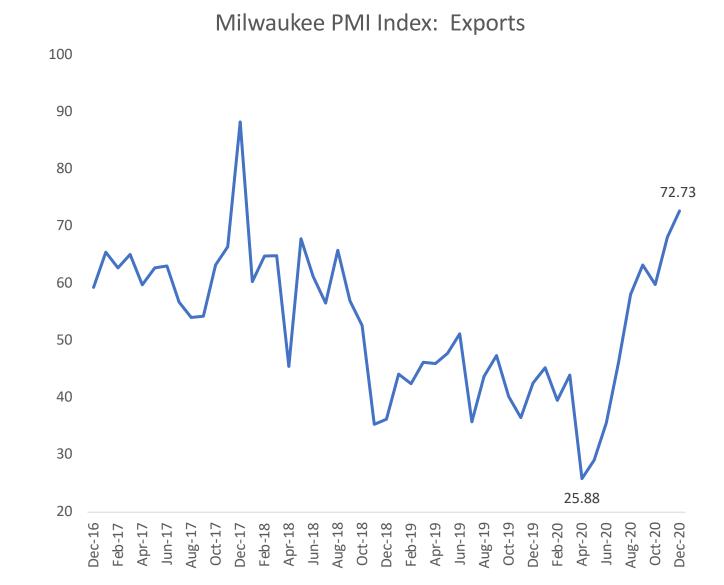


Continuing Decline in the Trade Value of the U.S Dollar Should Sustain Stronger Exports



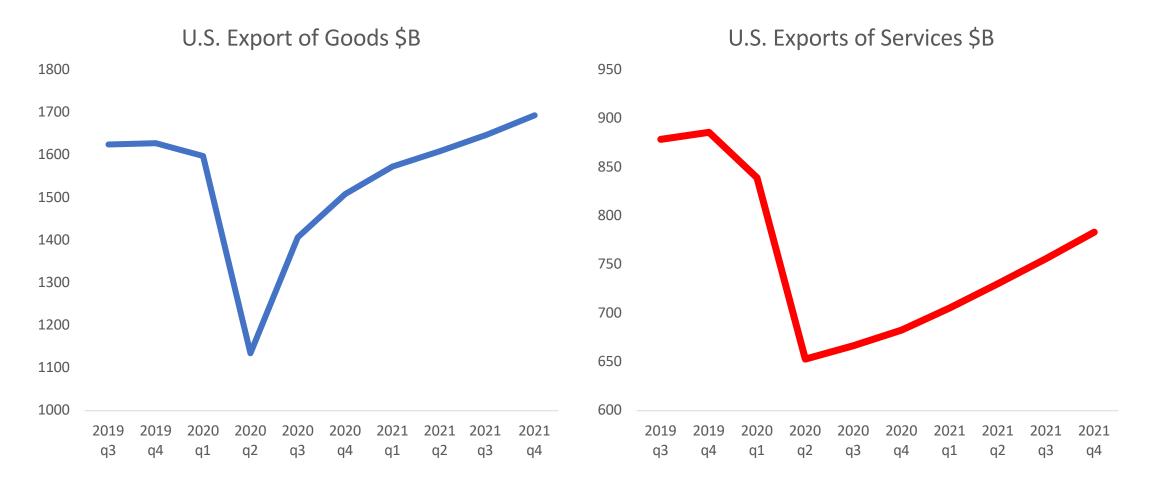
#### Broad Trade Weighted Value of U.S. Dollar

Export Prospects Improving: Milwaukee PMI **Exports: Strong** Positive Highest Reading Since December 2017



Source: Marquette ISM Manufacturing Index, Export Subcomponent

## Exports of Goods Recovers in Mid-2021 Exports of Services Recovery Delayed to 2022



## An Invitation to Partner with DOR

#### 1. Participate in a roundtable discussion

Business Development and Government Relations Unit provides business and government outreach

<u>https://www.revenue.wi.gov/Pages/Businesses/bdgr.aspx</u>

#### 2. Stay Informed with DOR research

- Quarterly reports on the Wisconsin Economy
  - <u>https://www.revenue.wi.gov/Pages/Report/WI-Economic-Outlook.aspx</u>
- Data Visualizations on Wisconsin's Exports
  - <a href="https://www.revenue.wi.gov/Pages/RA/Wisconsin-Exports.aspx">https://www.revenue.wi.gov/Pages/RA/Wisconsin-Exports.aspx</a> .