

The Manufacturing Economic Update

Dr. Chad Moutray

Chief Economist
National Association of Manufacturers

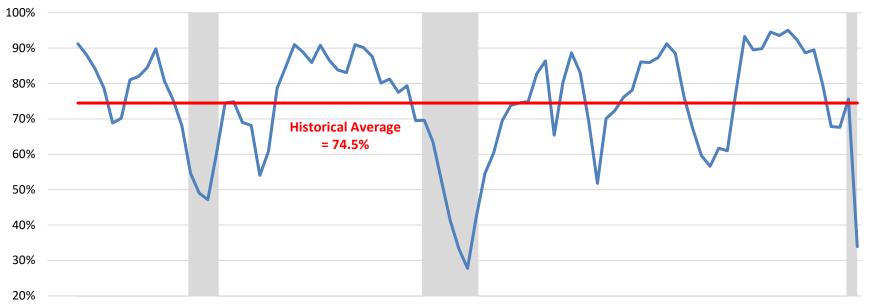
Director, Center for Manufacturing Research The Manufacturing Institute

@chadmoutray



NAM Manufacturers' Outlook Survey by Quarter, 1997-2020

(Recessions Are Highlighted with Gray Shading)



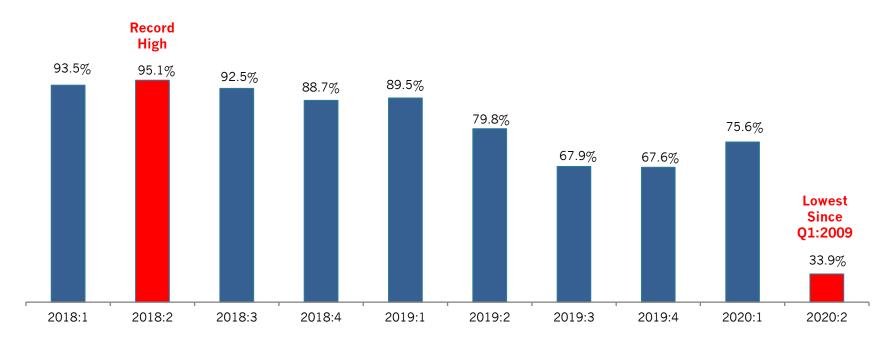
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020





NAM Manufacturers' Outlook Survey by Quarter

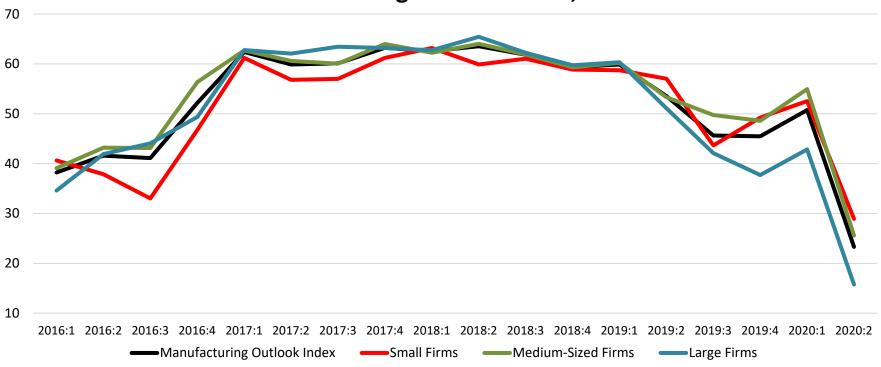
(First Quarter 2018 – Second Quarter 2020)







NAM Manufacturing Outlook Index, 2016–2020

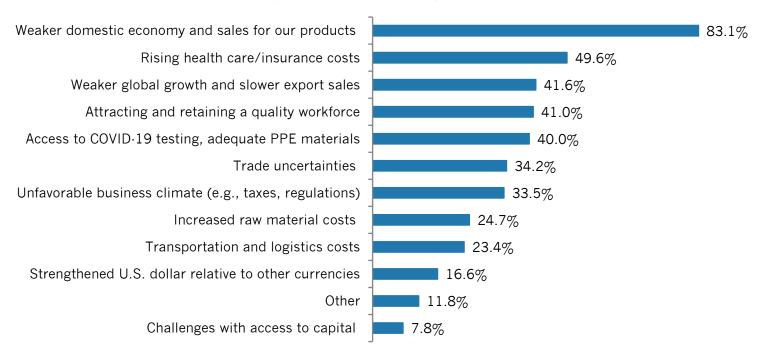






NAM Manufacturers' Outlook Survey Primary Business Challenges

(Second Quarter 2020)

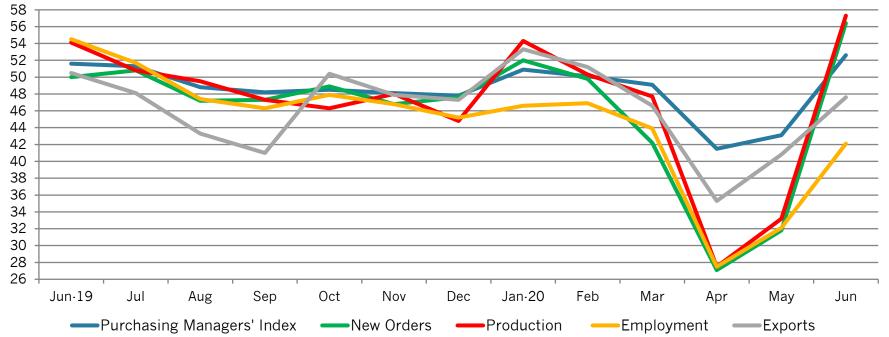






ISM® Manufacturing Purchasing Managers' Index®

(June 2019 – June 2020)

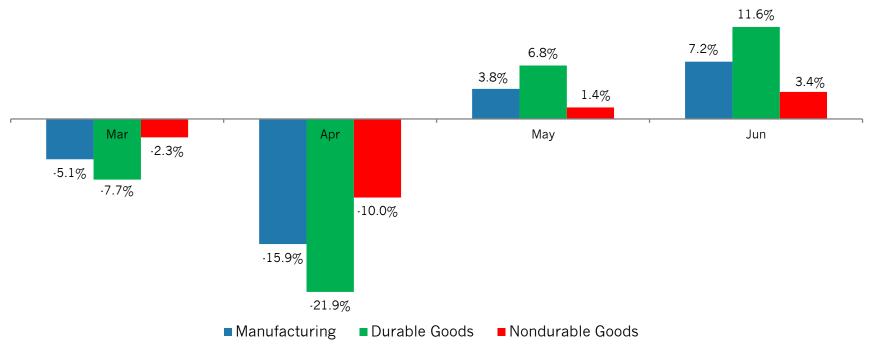






Monthly Percentage Changes in Manufacturing Production

(March – June 2020)

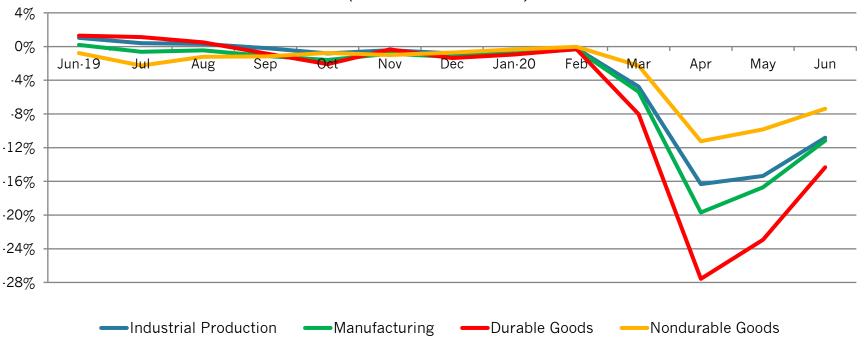






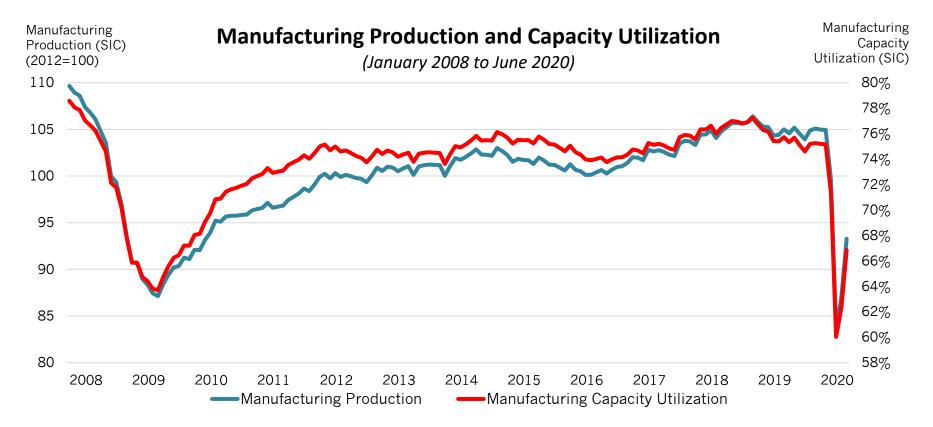
Year-Over-Year Industrial Production Growth

(June 2019 – June 2020)





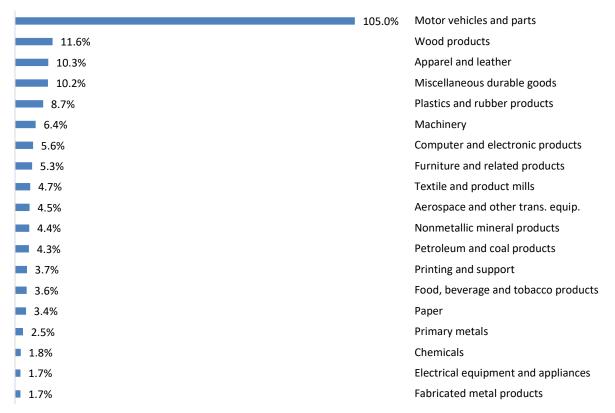








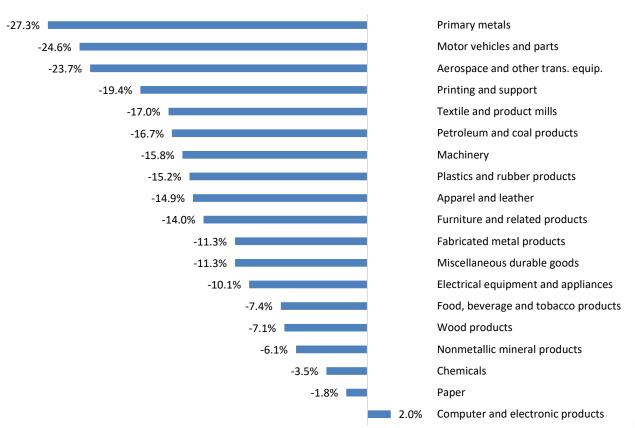
Monthly Percentage Change in Manufacturing Production by Major Sector, June 2020







Year-Over-Year Percentage Change in Manufacturing Production by Major Sector, June 2020

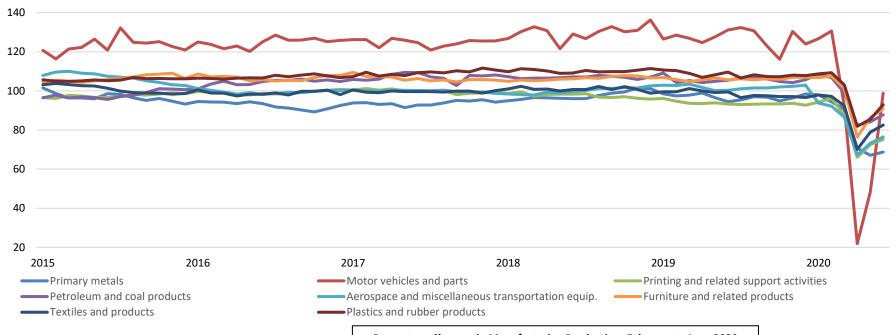






Hardest-Hit Manufacturing Sectors by COVID-19:

Manufacturing Production for Select Industries Since 2015 (2012=100), Seasonally Adjusted





Source: Federal Reserve Board

Percentage Changes in Manufacturing Production, February to June 2020

Primary metals, -27.2%

Motor vehicles and parts, -24.4%

Printing and related support activities, -21.8%

Petroleum and coal products, -17.8%

Aerospace and miscellaneous transportation equip., -17.0%

Furniture and related products, -15.5%

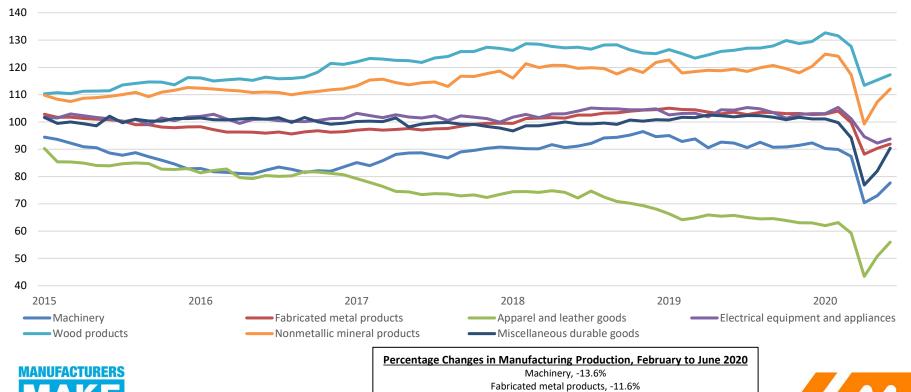
Textiles and products, -15.0%

Plastics and rubber products, -15.0%



Moderately-Hit Manufacturing Sectors by COVID-19:

Manufacturing Production for Select Industries Since 2015 (2012=100), Seasonally Adjusted



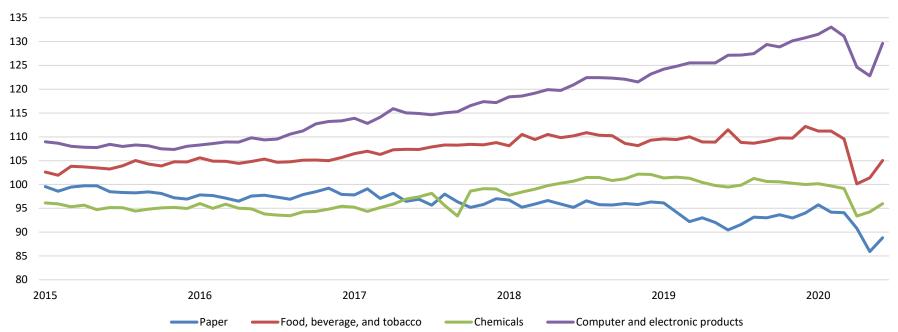
Source: Federal Reserve Board

Machinery, -13.6%
Fabricated metal products, -11.6%
Apparel and leather goods, -11.4%
Electrical equipment and appliances, -11.0%
Wood products, -10.8%
Nonmetallic mineral products, -9.8%
Miscellaneous durable goods, -9.4%



Least-Hit Manufacturing Sectors by COVID-19:

Manufacturing Production for Select Industries Since 2015 (2012=100), Seasonally Adjusted





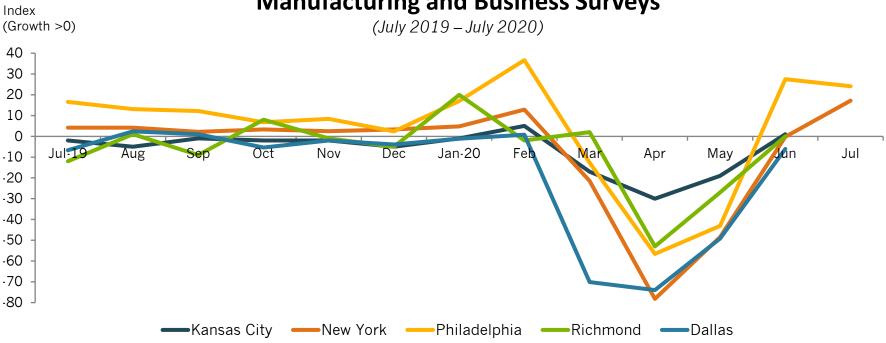
Source: Federal Reserve Board

Percentage Changes in Manufacturing Production, February to June 2020

Paper, -5.7%
Food, beverage, and tobacco, -5.5%
Chemicals, -3.7%
Computer and electronic products, -2.6%



Regional Federal Reserve Bank Manufacturing and Business Surveys

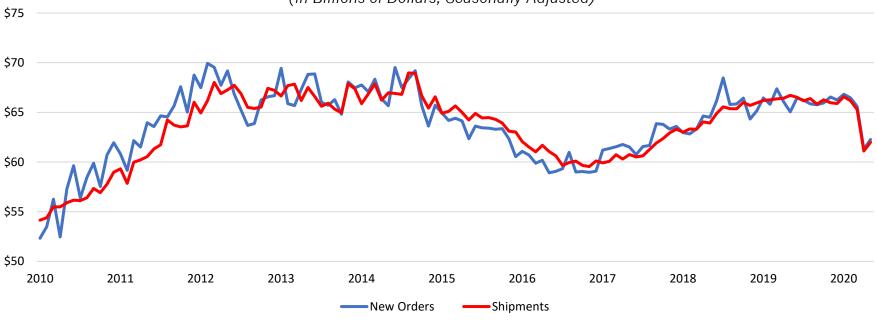






Core Capital Goods New Orders and Shipments, 2010–2020

(in Billions of Dollars, Seasonally Adjusted)



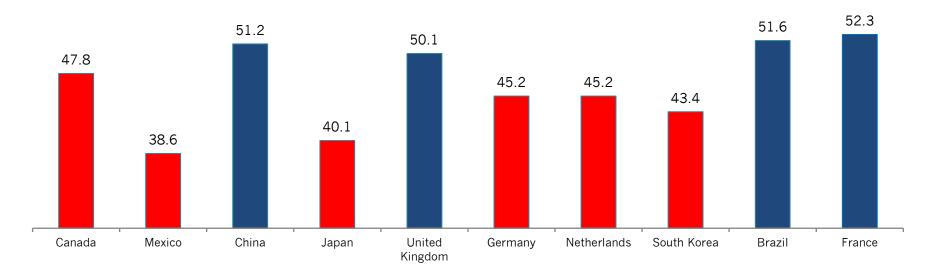
Note: "Core capital goods" are nondefense capital goods excluding aircraft.





IHS Markit Purchasing Managers' Indices® for the Top 10 Export Markets for U.S. Manufactured Goods

(June 2020)





Emerging Markets Manufacturing PMI: 49.6
Eurozone Manufacturing PMI: 47.4
Global Manufacturing PMI: 47.8
U.S. Manufacturing PMI (Markit): 49.8



Source: IHS Markit

Note: Top 10 Export Markets Based on 2019 Data from the U.S. Commerce Department

Monthly Unemployment Rate, 2005–2019

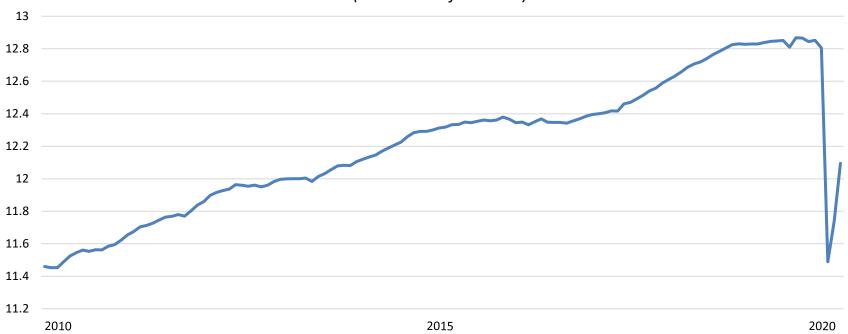






Monthly Employment in Manufacturing, 2010–2020

(in Millions of Workers)

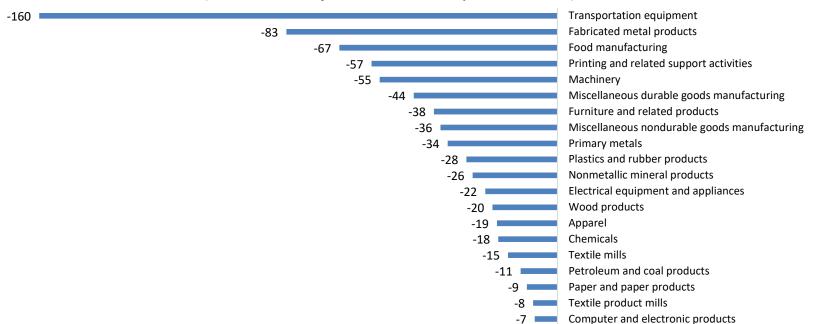






Declines in Manufacturing Employment by Sector Since February

(in Thousands of Workers, February to June 2020)

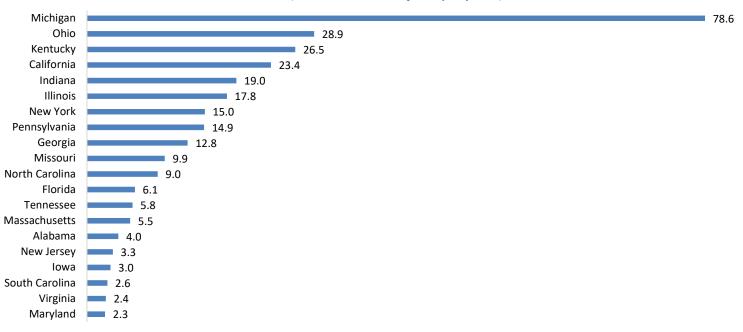






Top 20 States with Increased Manufacturing Employment, June 2020

(in Thousands of Employees)

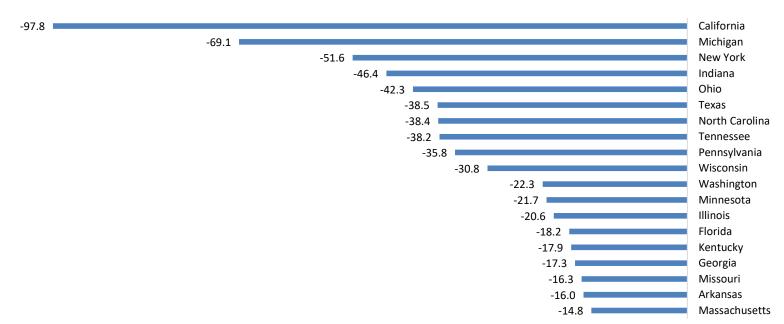






Largest Statewide Declines in Manufacturing Employment Since February

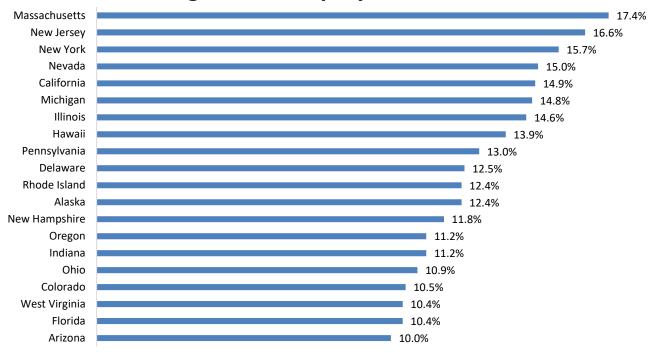
(in Thousands of Workers, February to June 2020)







States with the Highest Unemployment Rates, June 2020

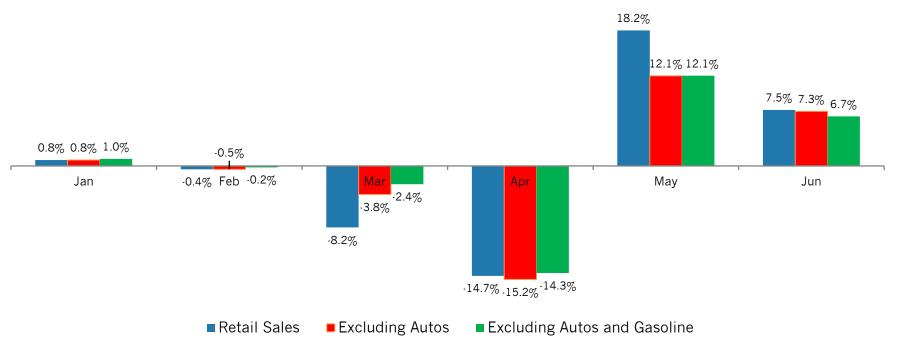






Percentage Changes for Retail Spending by Month

(January – June 2020)



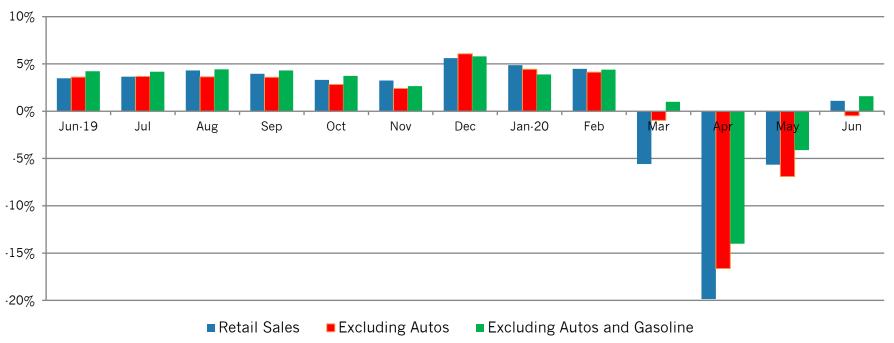




Source: Census Bureau

Year-Over-Year Growth in Retail Sales

(June 2019 – June 2020)

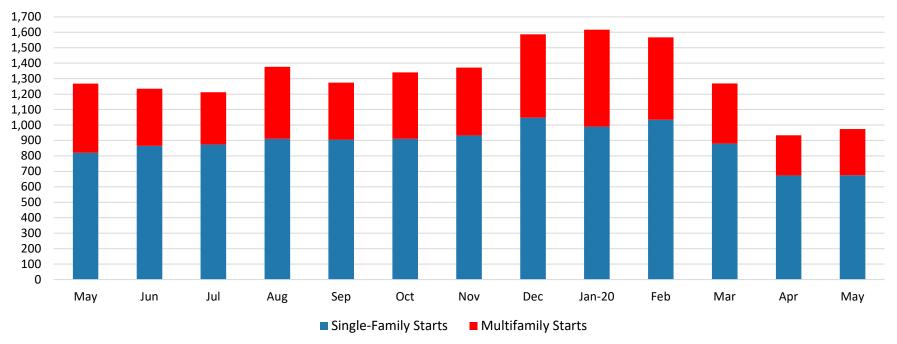






Housing Starts, May 2019 – May 2020

(Seasonally Adjusted, at the Annual Rate, in Thousands of Units)







Source: U.S. Census Bureau

Auto and Light Truck Vehicle Sales, 2007–2020

(in Millions of Units)



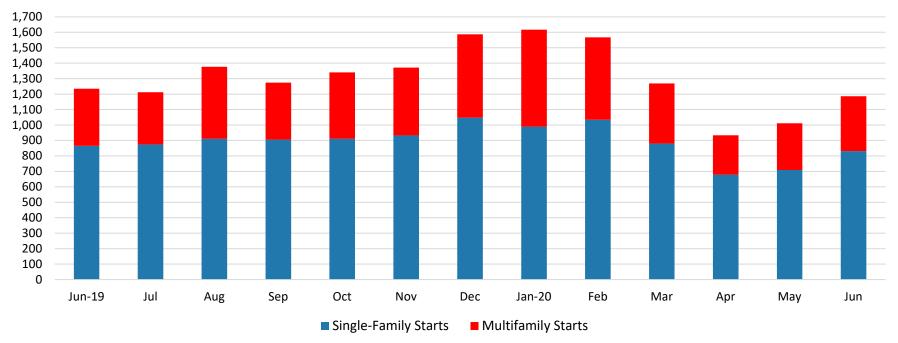




Source: Bureau of Economic Analysis

Housing Starts, June 2019 – June 2020

(Seasonally Adjusted, at the Annual Rate, in Thousands of Units)







Source: U.S. Census Bureau

Manufacturing Construction Spending, 2008–2020

(Value of Private Construction Put in Place, in Billions of Dollars)







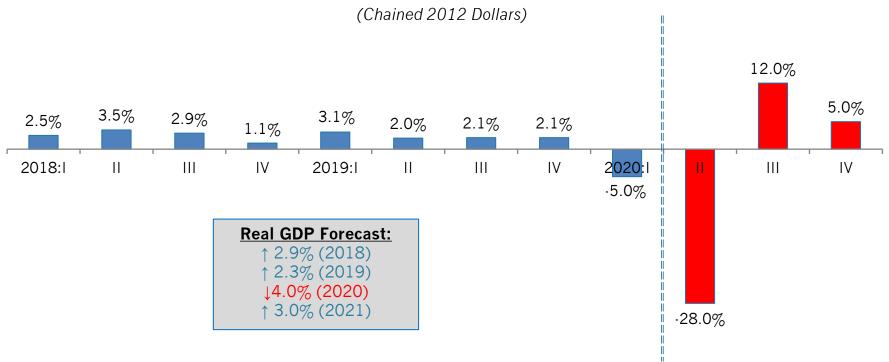
Source: U.S. Census Bureau

Economic Outlook





Real Gross Domestic Product

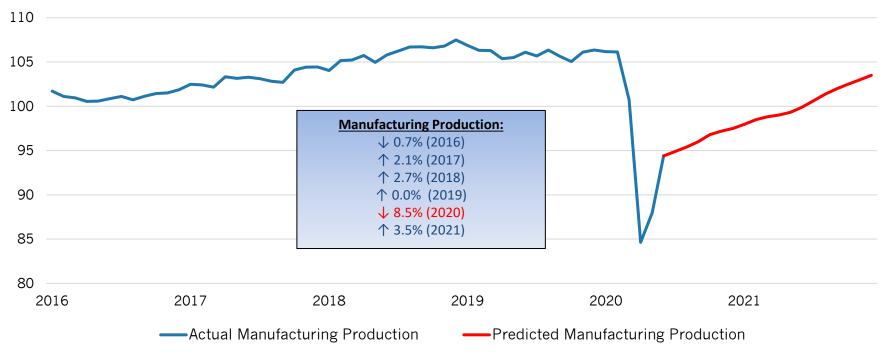






Actual and Predicted Manufacturing Production Growth

(NAICS, 2012=100)







	2020	2021
MANUFACTURING PRODUCTION	-8.6%	3.8%
Aerospace and other trans. equip.	-13.1%	2.7%
Apparel and leather	-15.1%	-2.4%
Beverages	-3.5%	4.0%
Chemicals	-4.0%	3.6%
Computer and electronic products	-6.8%	1.2%
Electrical equipment and appliances	-8.3%	1.1%
Fabricated metal products	-11.2%	5.6%
Food	-1.7%	3.3%
Furniture and related products	-10.8%	1.5%
Machinery	-12.8%	3.8%
Miscellaneous manufacturing	-11.0%	2.5%
Motor vehicles and parts	-20.2%	13.0%
Nonmetallic mineral products	-6.3%	3.9%
Paper	-3.1%	-1.4%
Petroleum and coal products	-3.4%	1.9%
Plastics and rubber products	-5.4%	3.8%
Primary metals	-10.8%	4.6%
Printing and support	-7.4%	1.0%
Textile and product mills	-8.0%	1.0%
Wood products	-6.5%	3.1%
DURABLE GOODS PRODUCTION	-12.5%	4.4%
NONDURABLE GOODS PRODUCTION	-3.5%	2.9%
MINING PRODUCTION	-0.4%	1.1%
UTILITIES PRODUCTION	-6.6%	0.7%





	Recession Dates				
	January to June 1980, and July 1981 to November 1982	July 1990 to March 1991	March to November 2001	December 2007 to June 2009	February 2020 to TBD
Gross Domestic Product	-8% in the first	-3.6% in the	-1.7% in the	-8.4% in the	Down 28% in the second quarter of
(largest quarterly decline during the recession period)	quarter of 1980	fourth quarter of 1990	third quarter of 2001	fourth quarter of 2008	2020; for 2020 as a whole, down 4%
Unemployment Rate	10.8% on	7.8% on June	6.3% on June	10% on October	14.7% in April before starting to pull
(peak unemployment rate during	November and	1992	2003	2009	back to roughly 9% by the fall;
or right after the recession period)	December 1983				11.1% in June
Manufacturing Employment	2.1 million	1.3 million	2.95 million	2.3 million	1.3 million workers lost between Feb.
(total lost employment during or	workers between	between Mar.	between Sept.	workers between	and April before rebounding; currently
right after the recession period,	June 1981 and	1989 to July	2000 to Jan.	Dec. 2007 and	down around 750,000 or down 400,000
peak to trough)	Dec. 1982	1993	2004	Feb. 2010	by year's end
Manufacturing Production	-9.1% between	-2% between	-6.1% between	-20.8% between	Down 20% between Feb. and April
(total percentage of lost output in	May 1981 to	Aug. 1990 to	July 2000 to	Dec. 2007 to June	before rebounding; output down 8% in
the sector, peak to trough)	Nov. 1982	Jan. 1992	Oct. 2001	2009	2020 overall relative to last year
Manufacturing Value-Added				-11% between	
Output (total percentage change,				Q4:2006 to	
peak to trough)				Q4:2009	







Questions?

Dr. Chad Moutray

Chief Economist
National Association of Manufacturers

Director, Center for Manufacturing Research The Manufacturing Institute CMoutray@nam.org
202.637.3148
@chadmoutray

