

# Decoding the GDP



**About:** This PBIX displays data and graphs for several segments of the GDP, namely, quarterly GDP, inflation indicators for the PCE deflator (quarterly) and producer price index (monthly), and durable goods orders (monthly). Data was sourced from FRED using an API call in Power Query in Power BI. To keep the API key private, the API call was moved to Excel. The data model is a star schema with multiple fact tables. Each fact table has an associated dimension table with categorical data.

# GDP

## Real GDP

**Frequency:** Quarterly

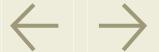
**Importance:** Medium to High

### Section Navigation

GDP Overview



Go



### Real GDP -- Most Recent Quarter 1/1/2022

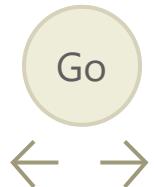
GDP	19,735.9
QoQ%	▼ -1.4%
YoY%	▲ 3.6%

# GDP

## Real, Seasonally Adjusted

Section Navigation

GDP Overview



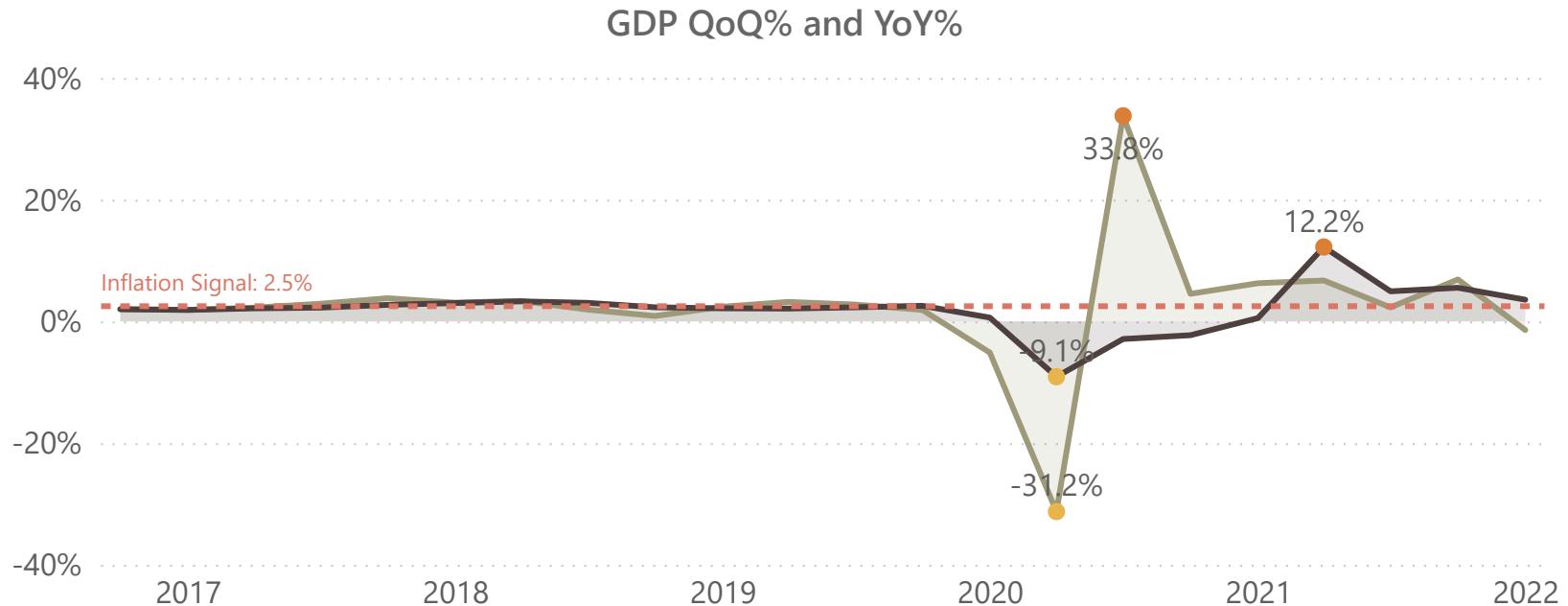
9/30/2016    3/1/2022

Inflation % Signal

- 2.00%
- 2.50%
- 3.00%
- 3.50%

Recessions

- Show
- Hide



	4/1/2020	7/1/2020	10/1/2020	1/1/2021	4/1/2021	7/1/2021	10/1/2021	1/1/2022
GDP QoQ%	-31.2%	33.8%	4.5%	6.3%	6.7%	2.3%	6.9%	-1.4%
GDP YoY%	-9.1%	-2.9%	-2.3%	0.5%	12.2%	4.9%	5.5%	3.6%
Inflation		●		●	●	●	●	●

# Inflation

## PCE Deflator

**Frequency:** Quarterly

**Importance:** Very High

## Producer Price Index Final Demand

**Frequency:** Monthly

**Importance:** Very High

### Section Navigation

GDP Overview

Go



### PCE Deflator -- Most Recent Quarter 1/1/2022

PCE Deflator	120.1
QoQ%	▲ 7.0%
YoY%	▲ 6.3%

### Producer Prices as of 3/1/2022

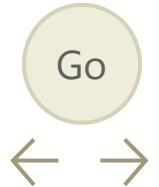
	Value	MoM%	YoY%
Overall	136.7	▲ 1.4%	▲ 11.2%
Goods	140.4	▲ 2.3%	▲ 15.7%
Construction	153.4	▲ 0.6%	▲ 16.7%
Transportation & Warehousing	150.5	▲ 5.5%	▲ 21.0%
Trade Services	145.0	▲ 1.2%	▲ 17.2%
Services Less TTW	127.5	▲ 0.3%	▲ 3.6%

# PCE Deflator Index

## *Inflation Gauge*

## Section Navigation

GDP Overview



9/30/2016 3/1/2022



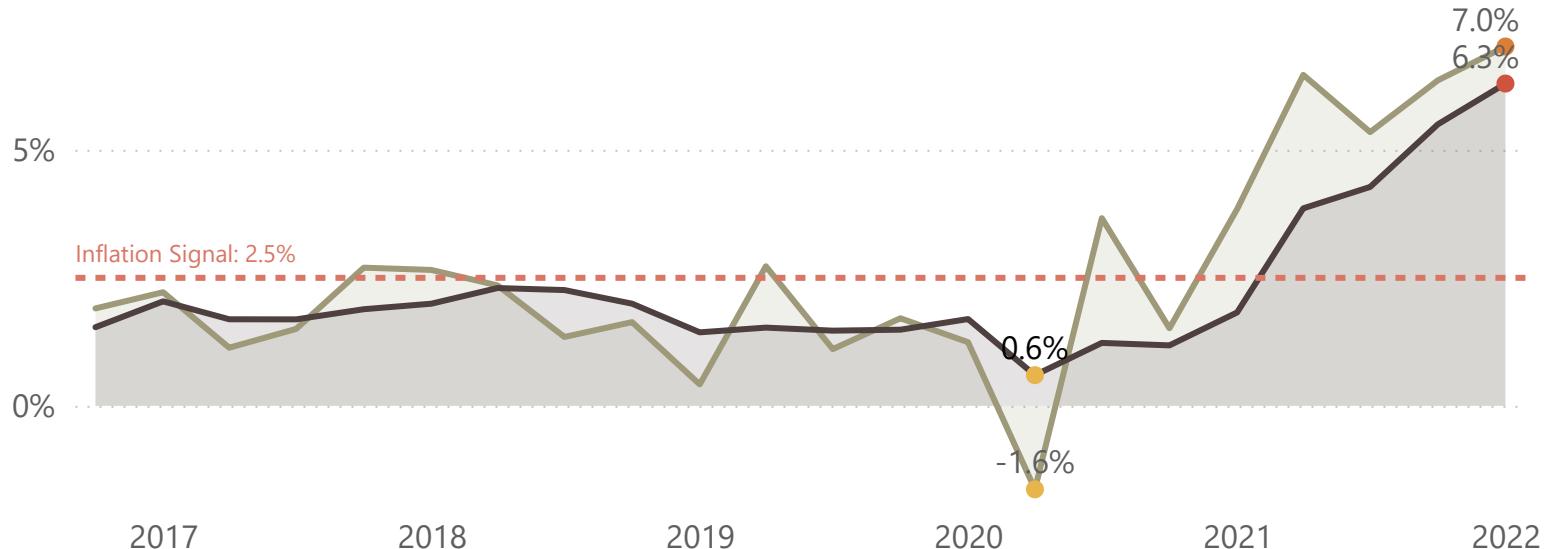
## Inflation % Signal

- 2.00%
  - 2.50%
  - 3.00%
  - 3.50%

## Recessions

- Hide

## PCE Deflator QoQ% and YoY%



	4/1/2020	7/1/2020	10/1/2020	1/1/2021	4/1/2021	7/1/2021	10/1/2021	1/1/2022
Deflator QoQ%	-1.6%	3.7%	1.5%	3.8%	6.5%	5.3%	6.4%	7.0%
Deflator YoY%	0.6%	1.2%	1.2%	1.8%	3.9%	4.3%	5.5%	6.3%
Inflation		●		●	●	●	●	●

# Producer Price Index

## Final Demand

Section Navigation

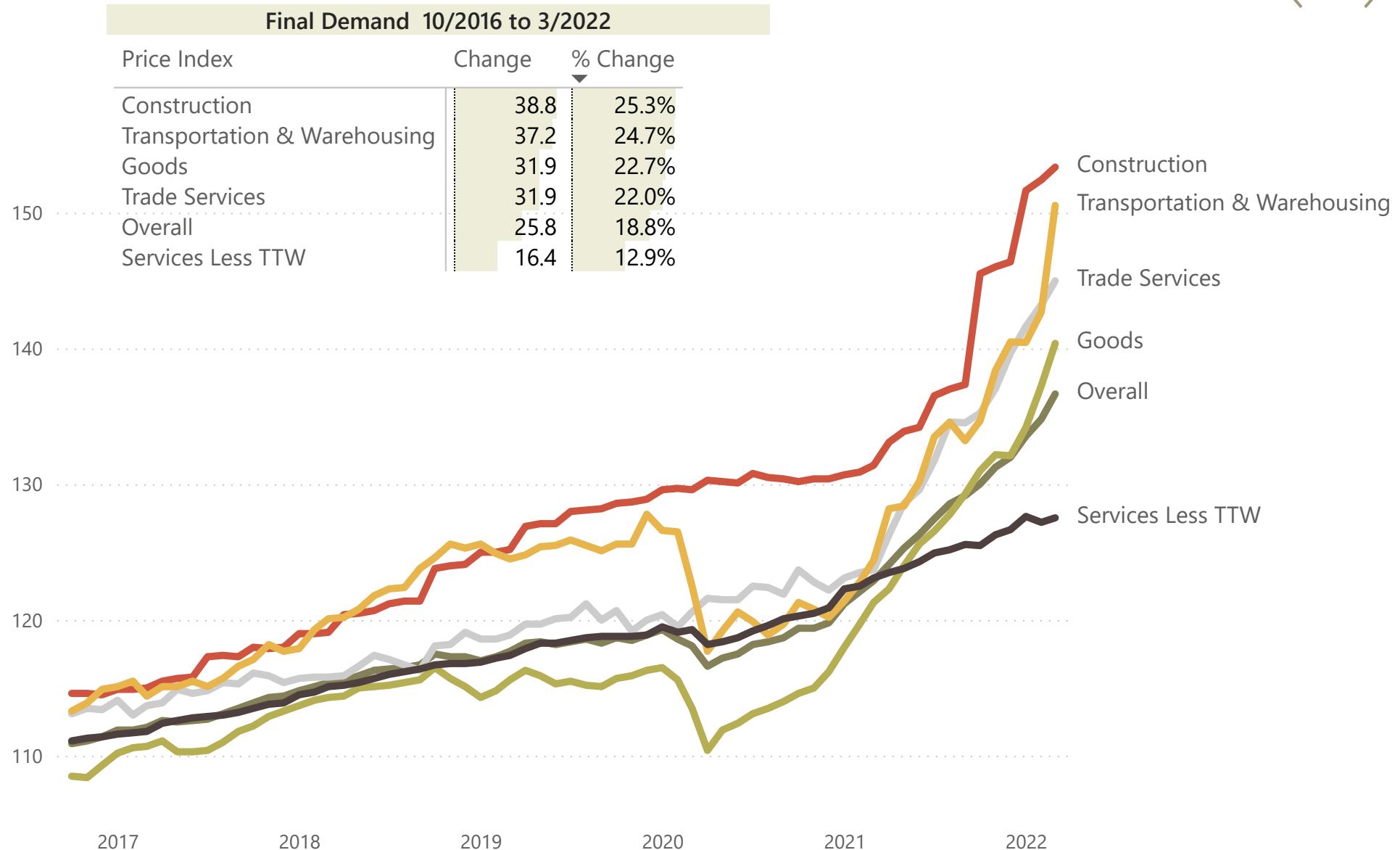
GDP Overview



9/30/2016    3/1/2022

### Final Demand

- Select all
- Overall
- Goods
- Construction
- Trade Services
- Transportation & Warehousing
- Services Less TTW



# Producer Price Index

## Comparative Changes

Section Navigation

GDP Overview



9/30/2016    3/1/2022

### Final Demand

- Select all
- Overall
- Goods
- Construction
- Trade Services
- Transportation & Warehousing
- Services Less TTW

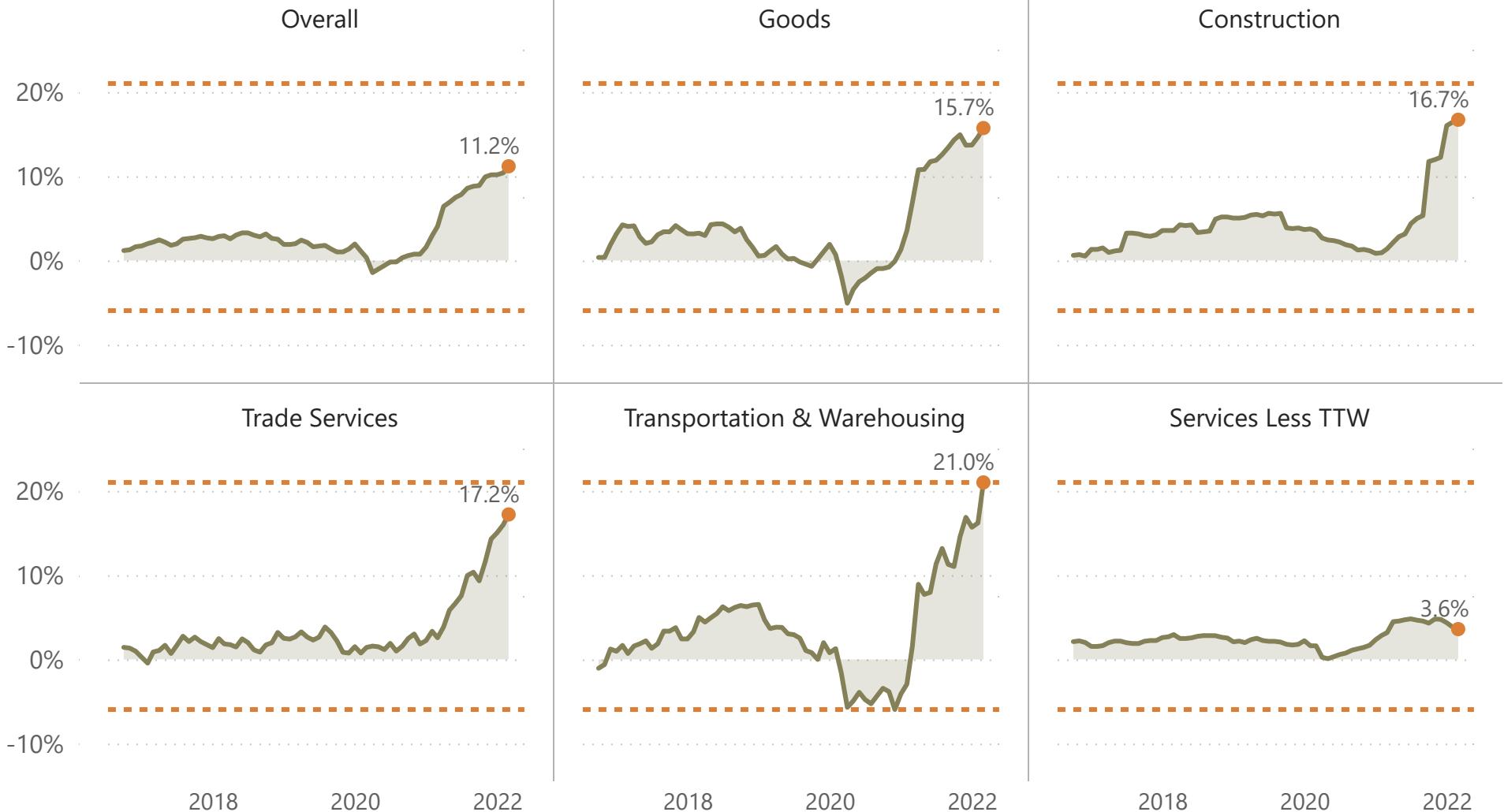
### Comparative Measure

- Value
- MoM
- MoM %
- YoY
- YoY %

### Recessions

- Show
- Hide

### PPI Final Demand YoY % Change 10/2016 to 3/2022



# Durable Goods

## New Orders

**Frequency:** Monthly

**Importance:** Very High

### Durable Goods as of 3/1/2022

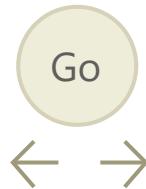
	Value	MoM%	YoY%
New Orders	275,776.0 	1.1% 	10.5%
Capital Goods	101,641.0 	-0.9% 	13.3%
Inventories	483,444.0 	0.8% 	10.0%
Shipments	274,809.0 	1.4% 	11.1%
Unfilled Orders	1,294,790.0 	0.4% 	8.3%

# Durable Goods Orders

## New Orders

Section Navigation

GDP Overview



9/30/2016    3/1/2022

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Data displayed for March 1, 2022

### New Orders

	Value	MoM%	YoY%
New Orders	275,776.0	1.1% <span style="color: green;">▲</span>	10.5% <span style="color: green;">▲</span>
Defense	12,874.0	-5.6% <span style="color: red;">▼</span>	-6.4% <span style="color: red;">▼</span>
Transportation	83,897.0	0.4% <span style="color: green;">▲</span>	13.6% <span style="color: green;">▲</span>

### New Orders Ex Defense & Transportation

	Value	MoM%	YoY%
Ex Defense	262,902.0	1.4% <span style="color: green;">▲</span>	11.5% <span style="color: green;">▲</span>
Ex Transportation	191,879.0	1.4% <span style="color: green;">▲</span>	9.3% <span style="color: green;">▲</span>
Ex Defense & Transportation	179,005.0	1.9% <span style="color: green;">▲</span>	10.6% <span style="color: green;">▲</span>

### Capital Goods

	Value	MoM%	YoY%
Capital Goods	101,641.0	-0.9% <span style="color: red;">▼</span>	13.3% <span style="color: green;">▲</span>
Nondefense	90,357.0	-0.2% <span style="color: red;">▼</span>	16.7% <span style="color: green;">▲</span>
Nondefense Ex Aircraft	81,113.0	1.3% <span style="color: green;">▲</span>	10.6% <span style="color: green;">▲</span>

### Primary Metals

	Value	MoM%	YoY%
Primary Metals	25,726.0	2.2% <span style="color: green;">▲</span>	17.2% <span style="color: green;">▲</span>
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### Inventories

	Value	MoM%	YoY%
Inventories	483,444.0	0.8% <span style="color: green;">▲</span>	10.0% <span style="color: green;">▲</span>
Ex Defense Aircraft	12,648.0	0.5% <span style="color: green;">▲</span>	3.0% <span style="color: green;">▲</span>

### Unfilled Orders & Shipments

	Value	MoM%	YoY%
Unfilled Orders	1,294,790.0	0.4% <span style="color: green;">▲</span>	8.3% <span style="color: green;">▲</span>
Shipments	274,809.0	1.4% <span style="color: green;">▲</span>	11.1% <span style="color: green;">▲</span>

## Metric 1

- New Orders
- New Orders Ex Transportation
- New Orders Ex Defense & Transportation
- Capital Goods
- Nondefense Capital Goods
- Nondefense Capital Goods Ex Aircraft
- Primary Metals
- Shipments
- Unfilled Orders
- Inventories
- Inventories Ex Defense Aircraft
- No selection

## Metric 2

- New Orders
- New Orders Ex Transportation
- New Orders Ex Defense & Transportation
- Capital Goods
- Nondefense Capital Goods
- Nondefense Capital Goods Ex Aircraft
- Primary Metals
- Shipments
- Unfilled Orders
- Inventories
- Inventories Ex Defense Aircraft
- No selection

### Comparative Periods

- Current
- MoM %
- YoY %

Trailing 12 Months

### Section Navigation

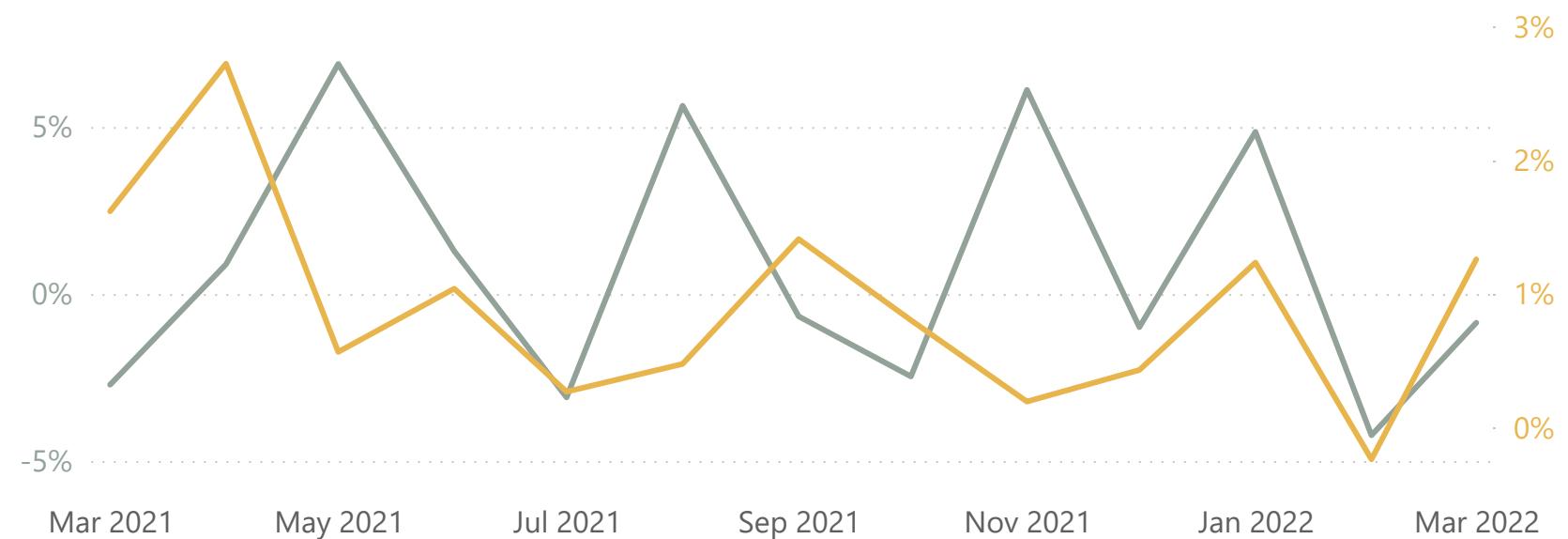
GDP Overview

Go

## Durable Goods New Orders

Capital Goods (Metric 1) and Nondefense Capital Goods Ex Aircraft (Metric 2)

● Metric 1 ● Metric 2



3/1/2021 4/1/2021 5/1/2021 6/1/2021 7/1/2021 8/1/2021 9/1/2021 10/1/2021 11/1/2021 12/1/2021

Metric 1	-2.7%	0.9%	6.9%	1.3%	-3.1%	5.6%	-0.7%	-2.5%	6.1%	-1.0%
Metric 2	1.6%	2.7%	0.6%	1.0%	0.3%	0.5%	1.4%	0.8%	0.2%	0.0%

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