

Consensus Outlook



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Results from the 2021 EOS forecast competition

- Inflation much higher than expected
- GDP growth lower than expected

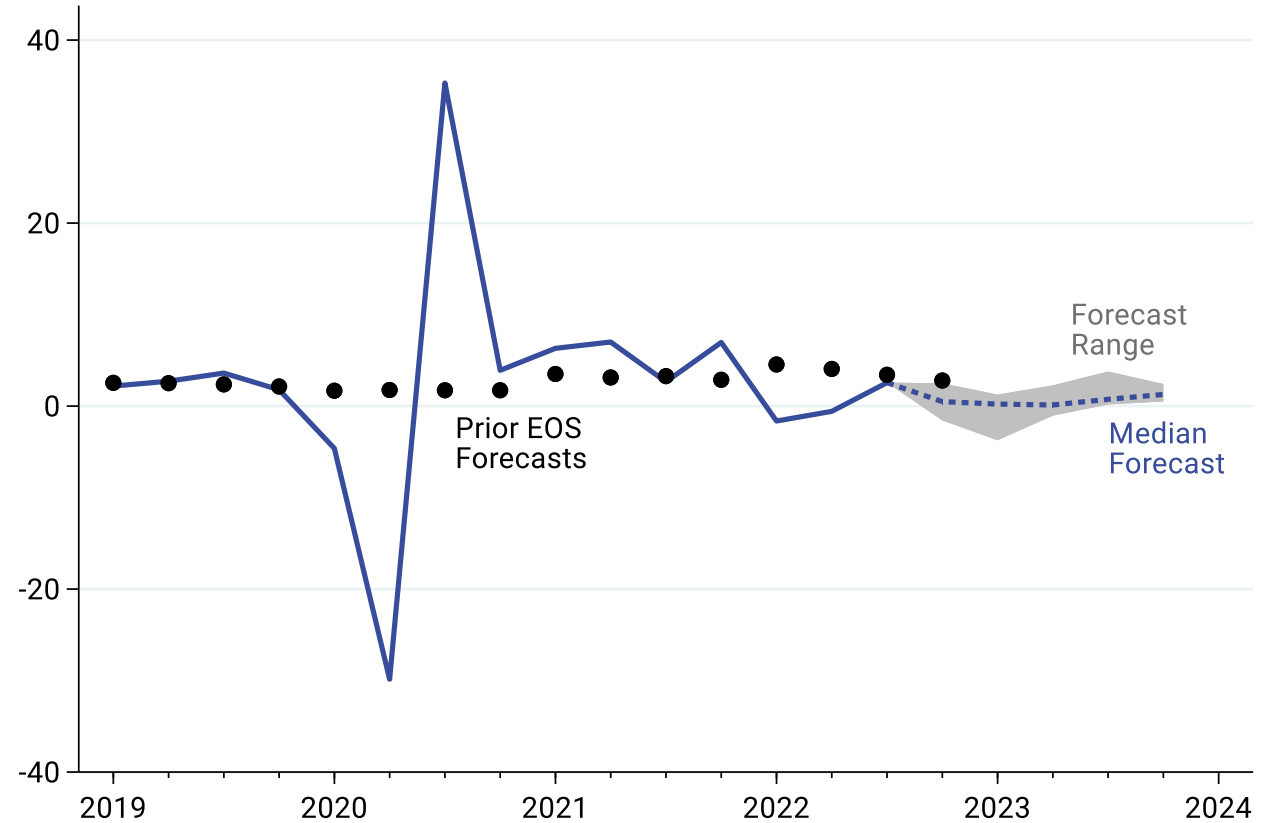
Overall	Tom Portz - Sterling Capital Management, Inc.	
GDP, current dollars	Bill Rapp	
GDP price index, chain-type	Eric Hale - Trader Oasis	
Real GDP, chained dollars	Tom Portz - Sterling Capital Management, Inc.	
Personal consumption expenditures	Carl Tannenbaum and Ryan James Boyle - Northern Trust	
Business fixed investment	Ronald Pankau - JH Best and Sons	
Residential investment	Rajeev Dhawan - Georgia State University	
Change in private inventories	Eric Hale - Trader Oasis	
Net exports	Jack Kleinhenz - National Retail Federation	
Government consumption expenditures and gross investment	Bill Witte - Witte Econometrics/FTR	
Industrial production	Diane Swonk - Grant Thornton LLP	
Car & light truck sales	Matthew Kodis - Iowa Economic Development Authority	
Housing starts	Maira Trimble and Jordan Vickers - Eaton	
Oil Price	Todd Tomalak - John Burns Real Estate Consulting	
Unemployment rate	Diane Swonk - Grant Thornton LLP	Mark Zhang - Navistar
Inflation rate (CPI)	Todd Tomalak - John Burns Real Estate Consulting	
Treasury constant maturity one-year rate	Tom Guthrie - FM Fincorp	
Treasury constant maturity ten-year rate	Tom Guthrie - FM Fincorp	
J.P. Morgan broad nominal effective exchange rate	Todd Tomalak - John Burns Real Estate Consulting	

A recession?

- Does the bottom of the range still qualify as a soft landing?

Real GDP Growth

percent



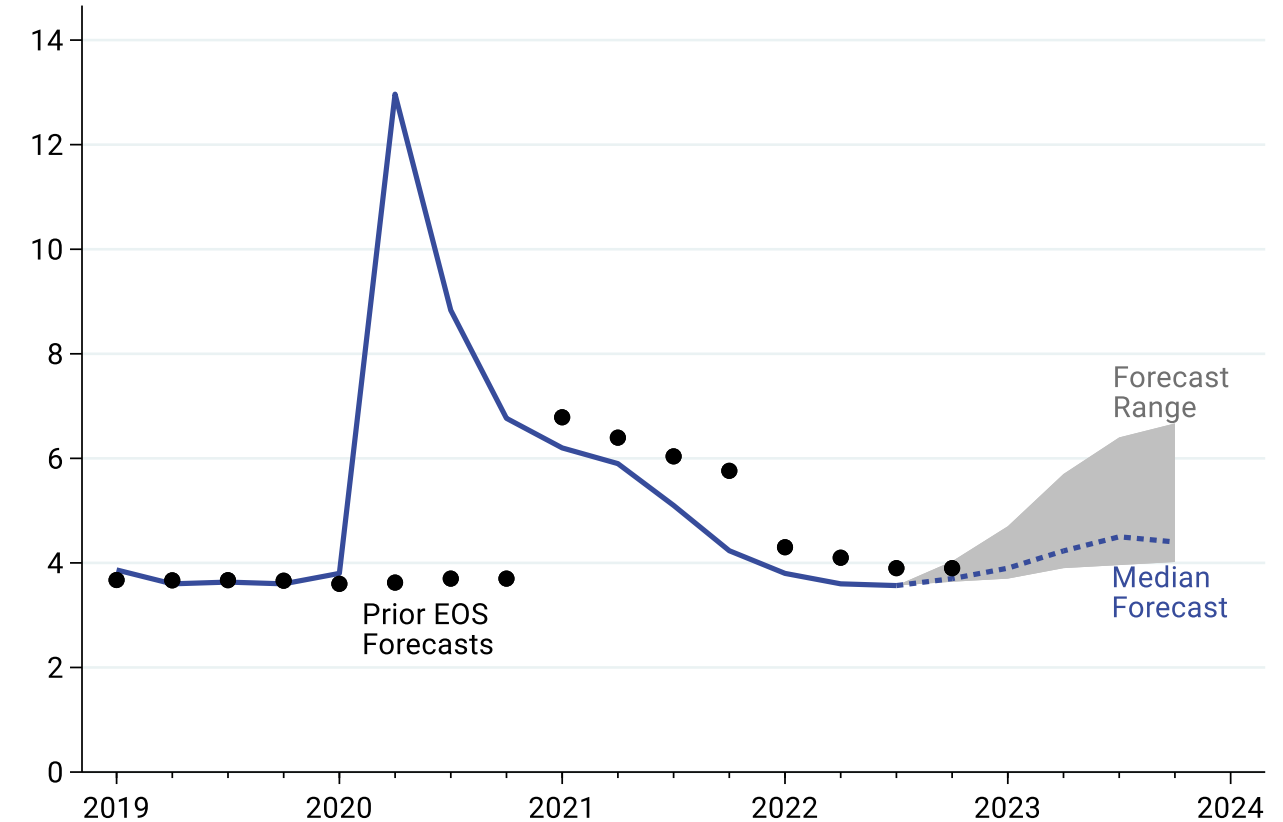
Source: Bureau of Economic Analysis and Federal Reserve Bank of Chicago

Potential for a hard landing

- But most participants are in soft landing territory

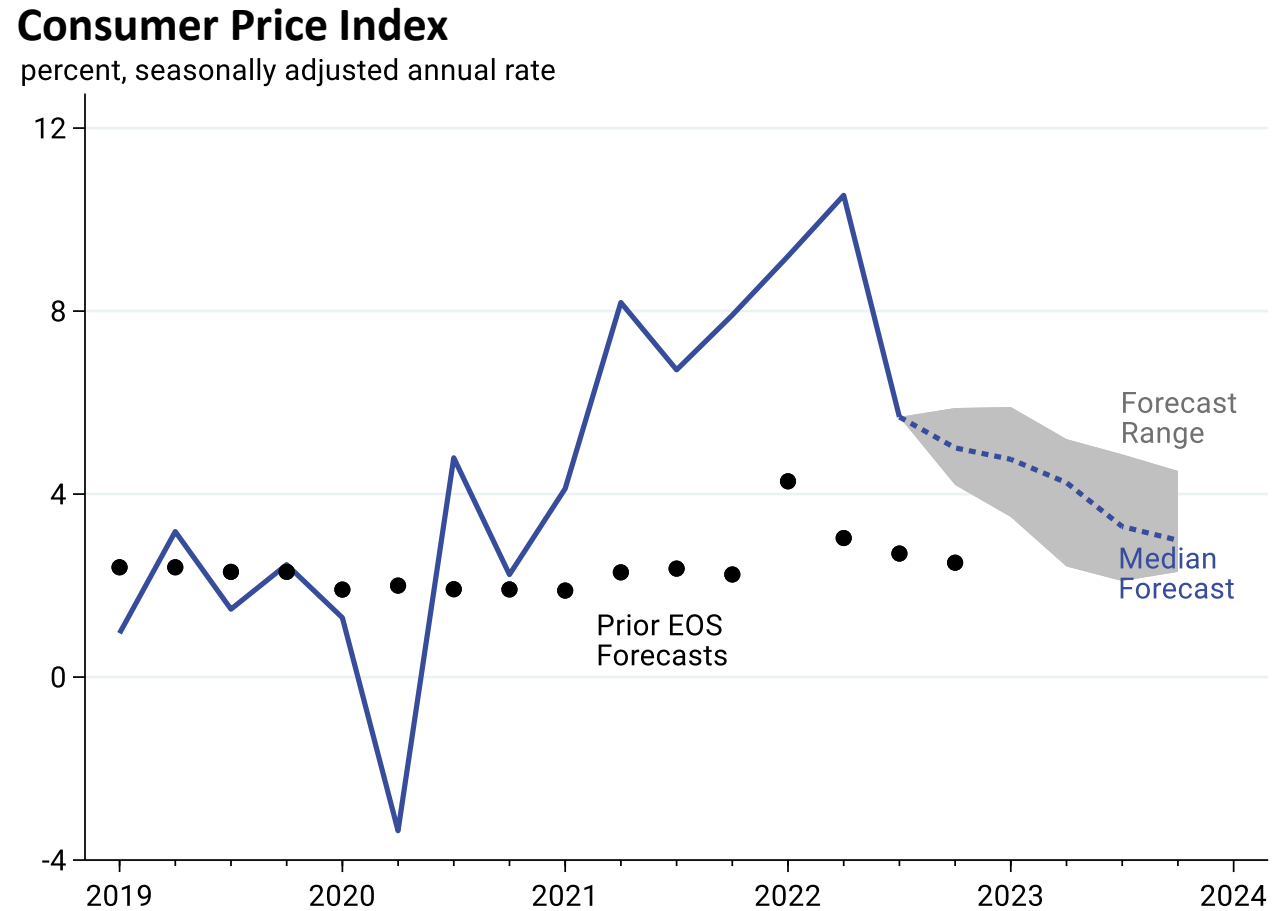
Unemployment Rate

percent



Source: Bureau of Labor Statistics and Federal Reserve Bank of Chicago

Will this year's inflation forecast be more accurate?



Source: Bureau of Labor Statistics and Federal Reserve bank of Chicago

Full list of forecast medians

	2021	2022	2023
GDP, current dollars*	12.2%	6.6%	3.0%
GDP price index, chain-type*	6.1%	6.4%	3.2%
Real GDP, chained dollars*	5.7%	0.2%	0.6%
Personal consumption expenditures*	7.2%	1.6%	1.0%
Business fixed investment*	5.0%	3.1%	0.4%
Residential investment*	-0.3%	-16.5%	-1.5%
Change in private inventories (billions of constant dollars)**	\$197.6	\$62.3	\$44.0
Net exports of goods and services (billions of constant dollars)**	-\$1,297.6	-\$1,277.8	-\$1,266.8
Government consumption expenditures and gross investment*	0.5%	-0.2%	1.0%
Industrial production*	4.5%	3.3%	-0.1%
Car & light truck sales (millions - calendar year including imports)***	14.9	13.9	14.6
Housing starts (millions)***	1.61	1.56	1.36
Oil price (dollars per barrel of West Texas Intermediate)**	\$77.44	\$92.00	\$88.50
Unemployment rate**	4.2%	3.7%	4.4%
Inflation rate (consumer price index)*	6.7%	7.6%	3.7%
Treasury constant maturity one-year rate**	0.20%	4.44%	4.04%
Treasury constant maturity ten-year rate**	1.54%	3.85%	3.60%
J.P. Morgan trade weighted OECD dollar*	0.9%	11.4%	-1.9%

*Q4 over Q4

**Q4 value

***Yearly average

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- Responses are kept confidential, but aggregate results are made public.

