

North Dakota Outlook: Where are we, and where are we going?

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NDSU

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Acknowledgements

- Thank you all for joining us today.
- Thank you Joe Mahon for organizing this event and inviting me to speak.

The views in this presentation belong to the presenters and do not reflect the views of North Dakota State University.

Outline

- Where are we?
 - National Economy
 - State Economy
- Where are we going?
 - National Economy
 - State Economy
- Summary Points




- Questions

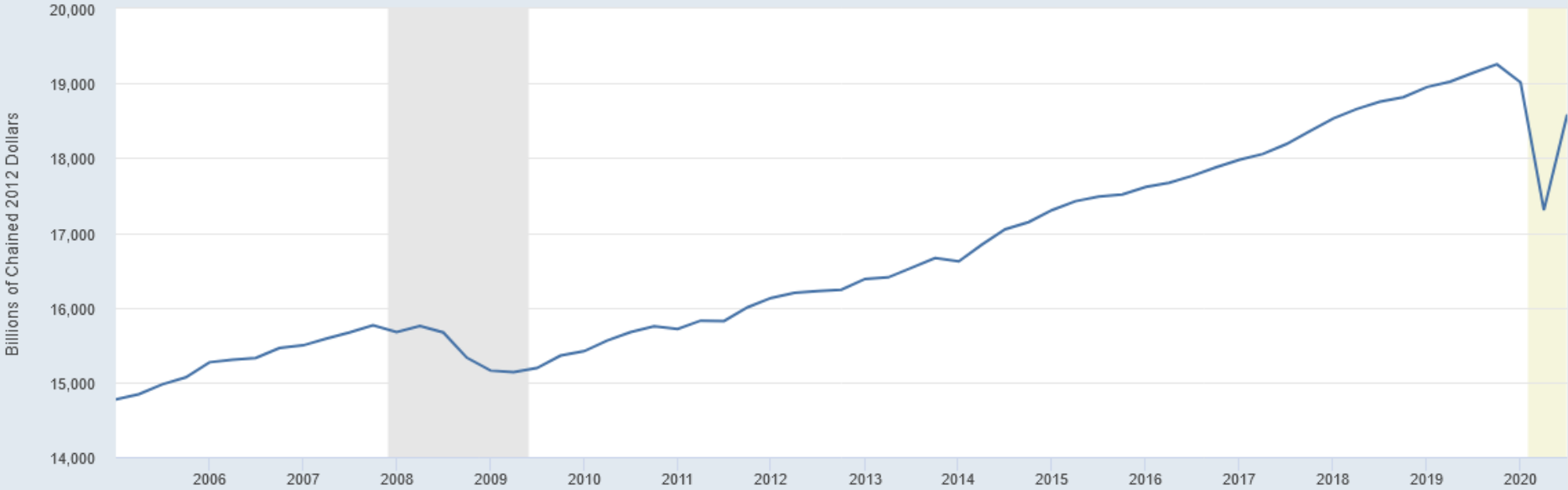


National Economy

- Gross Domestic Product
- Unemployment Rate
- Consumption
- Net Investment
- Corporate Profits
- Crude Oil

National GDP

FRED  — Real Gross Domestic Product

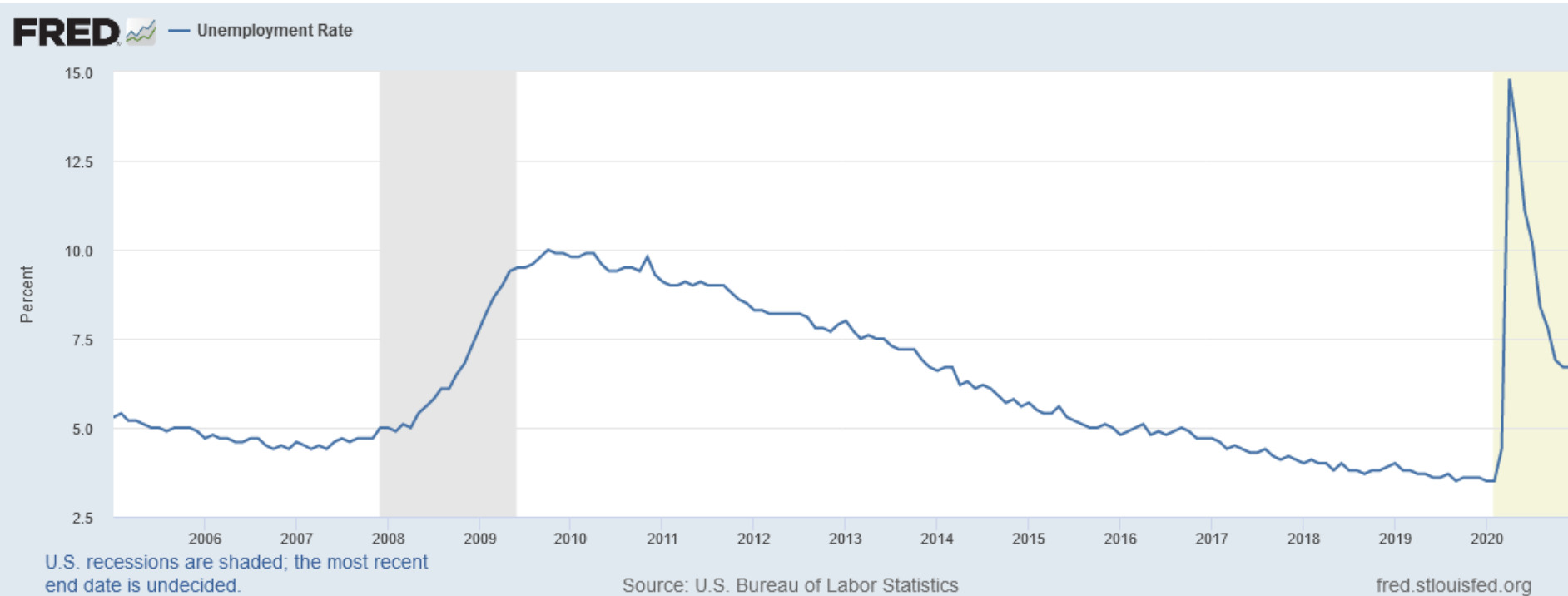


U.S. recessions are shaded; the most recent end date is undecided.


Source: U.S. Bureau of Economic Analysis

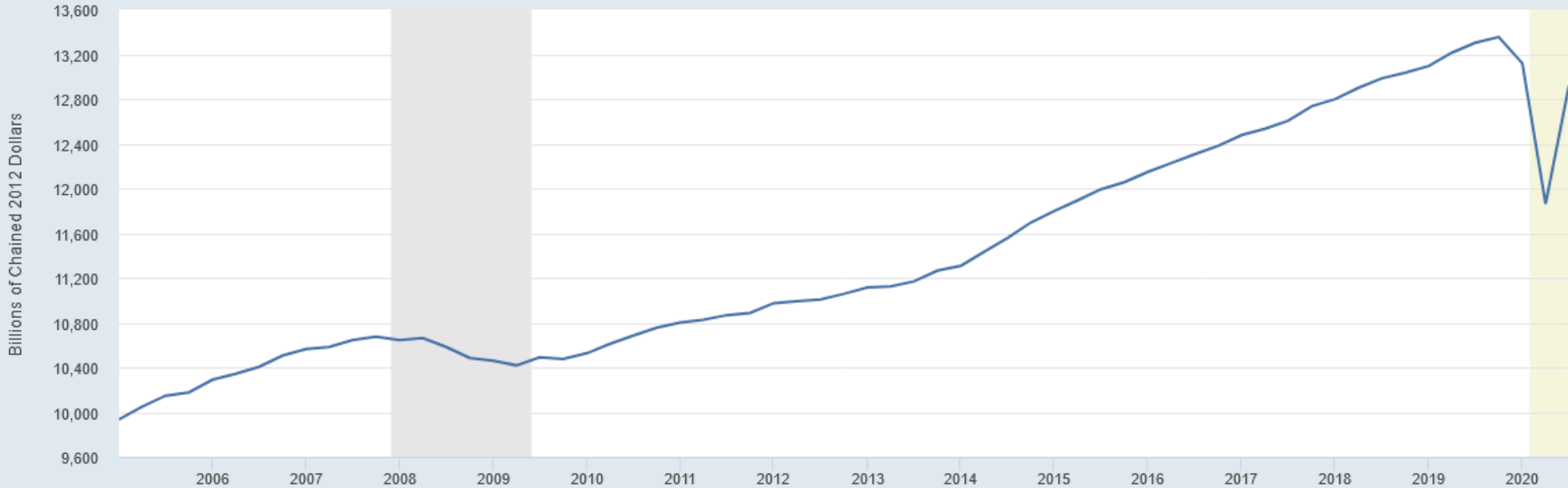
fred.stlouisfed.org

National UR



Consumption

FRED  — Real Personal Consumption Expenditures




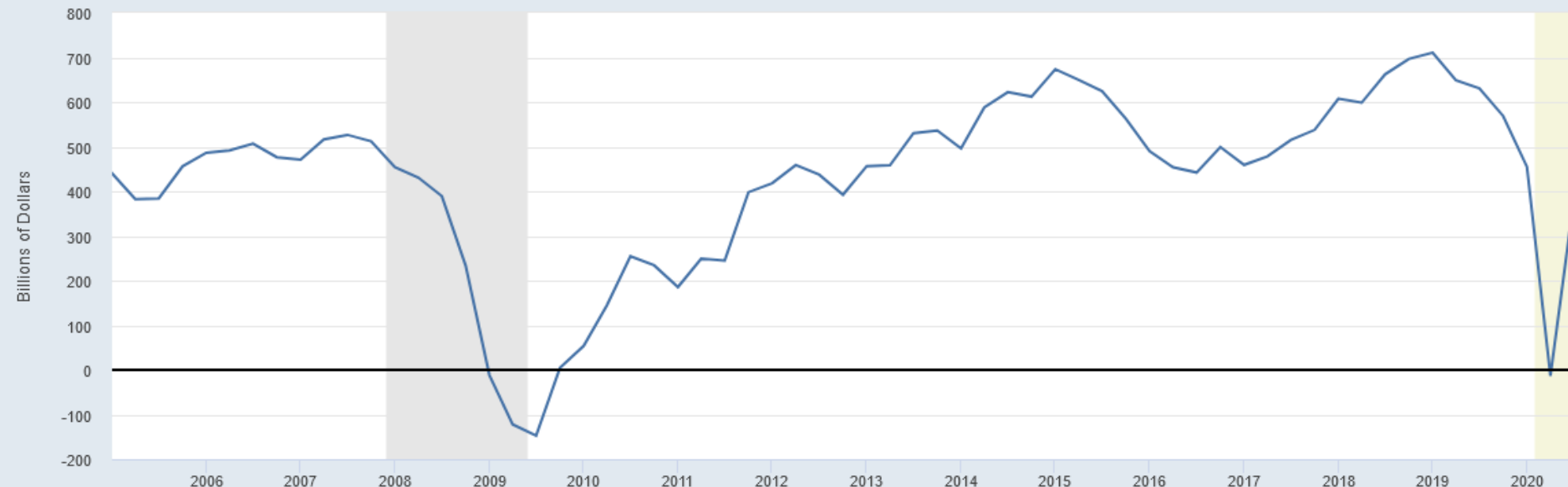
U.S. recessions are shaded; the most recent end date is undecided.

Source: U.S. Bureau of Economic Analysis

fred.stlouisfed.org

Net Investment

FRED  — Net domestic investment: Private: Domestic business



U.S. recessions are shaded; the most recent end date is undecided.

Source: U.S. Bureau of Economic Analysis

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Corporate Profits

FRED  — National income: Corporate profits before tax (without IVA and CCAj)



U.S. recessions are shaded; the most recent end date is undecided.

Source: U.S. Bureau of Economic Analysis

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WTI Crude Futures

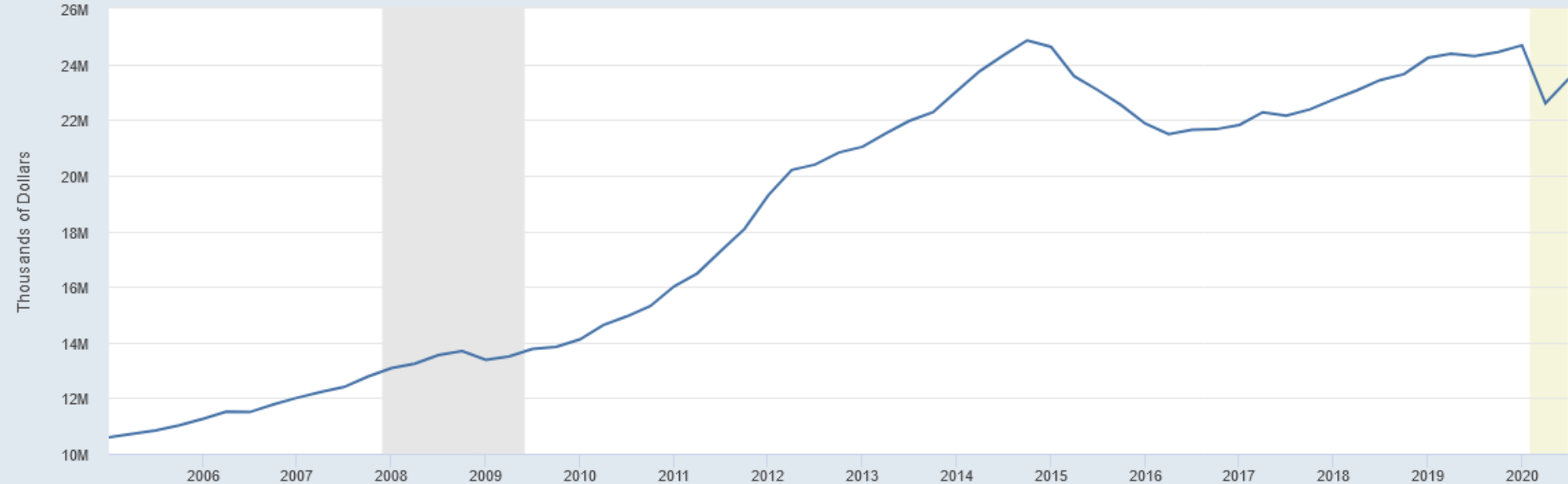


State Economy

- ND Total Wages and Salaries
- ND Labor Force
- ND Unemployment Rate
- ND Gross State Product
- ND Total Tax Revenue

ND Total Wages and Salaries

FRED  — Total Wages and Salaries in North Dakota



U.S. recessions are shaded; the most recent end date is undecided.

Sources: BEA; St. Louis Fed

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ND Labor Force



U.S. recessions are shaded; the most recent end date is undecided.

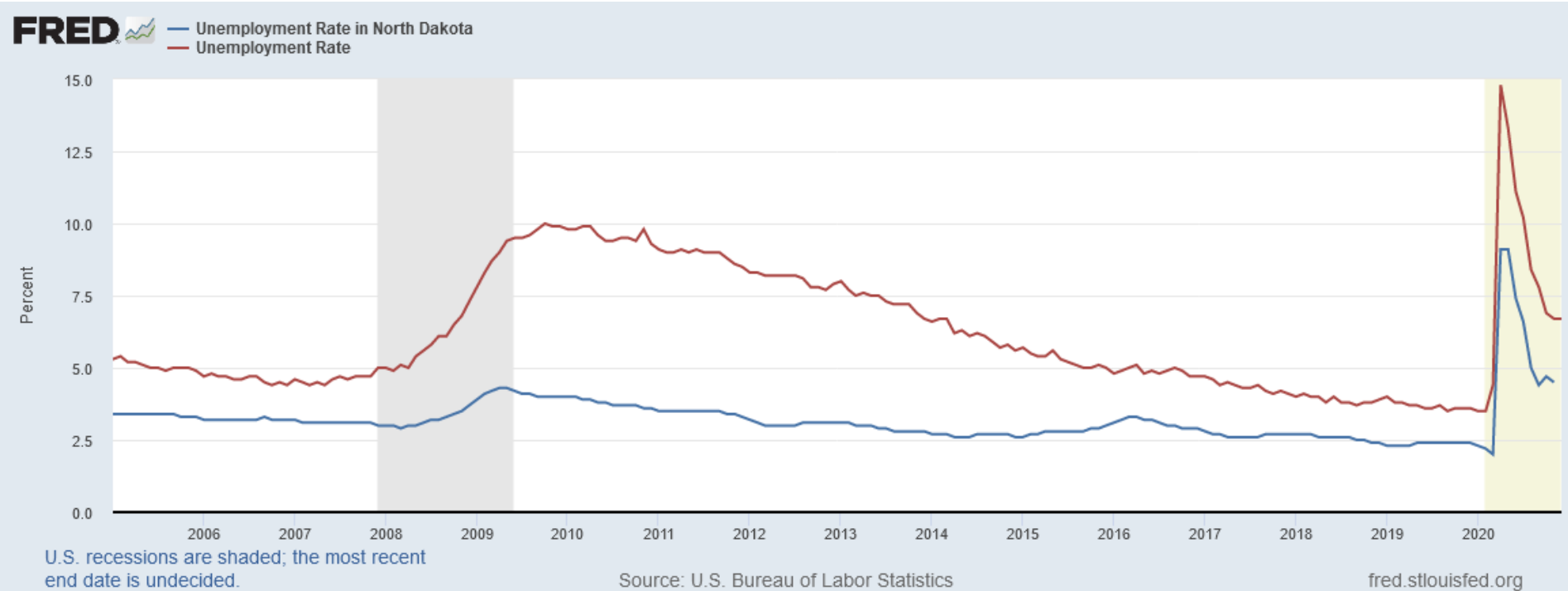
Source: U.S. Bureau of Labor Statistics

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ND Unemployment Rate

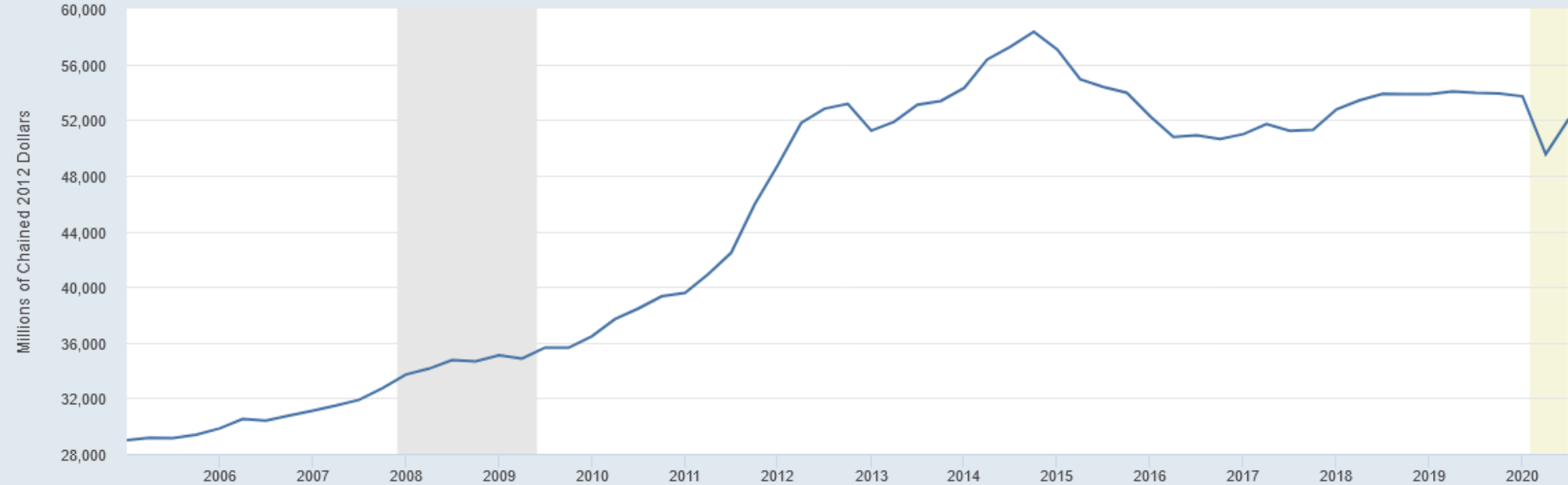


ND Unemployment Rate



ND Gross State Product

FRED  — Total Real Gross Domestic Product by Industry for North Dakota



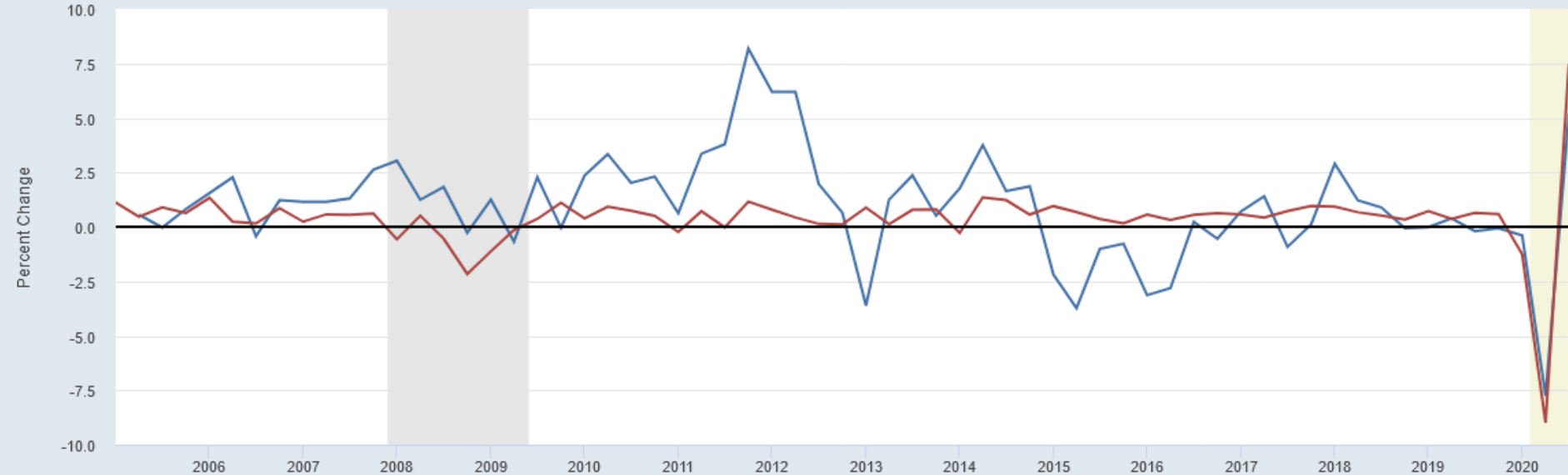
U.S. recessions are shaded; the most recent end date is undecided.

Source: U.S. Bureau of Economic Analysis

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ND GSP and GDP (% Change)

FRED  — Total Real Gross Domestic Product by Industry for North Dakota
— Real Gross Domestic Product



U.S. recessions are shaded; the most recent end date is undecided.

Source: U.S. Bureau of Economic Analysis

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ND Total Tax Collections

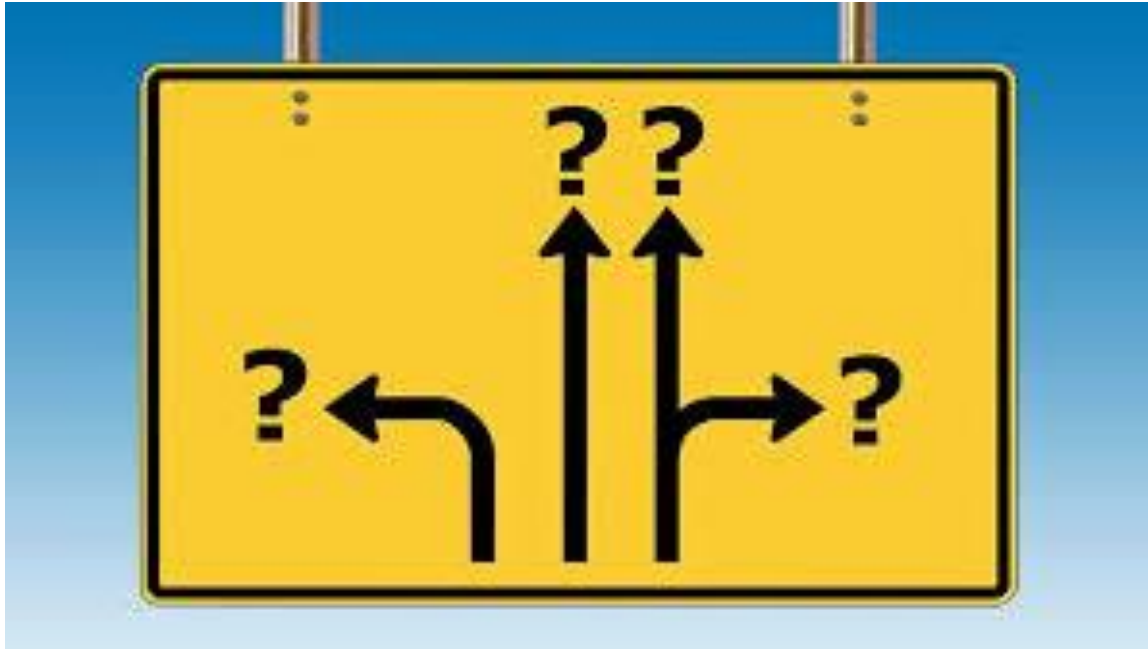
FRED — State Tax Collections: Total Taxes for North Dakota



U.S. recessions are shaded; the most recent end date is undecided.

Source: U.S. Census Bureau

fred.stlouisfed.org



Where are we going?

ND Forecast Model

- We are publishing an Economic Outlook Quarterly Report using the North Dakota Forecast Model.
 - https://www.ndsu.edu/centers/pcpe/research/economic_outlook/
- The model requires regularly updated and accessible data.
 - Currently, all data used in the model is available from the Federal Reserve Economic Database (FRED) hosted by the St. Louis Federal Reserve Bank.
 - <https://fred.stlouisfed.org/>
- Methodology is Vector Auto Regression (VAR)



A word of caution...

Why Forecast?

- Even though wrong, forecasts give us useful information that can help us plan for the future.
- Forecasts can reveal trends and patterns that aren't readily evident in casual observance of the data.
- Forecast methods allow us to calculate what “may” happen in hypothetical scenarios.
- Forecasts, done properly, can reveal information about risk and the range of possible outcomes.

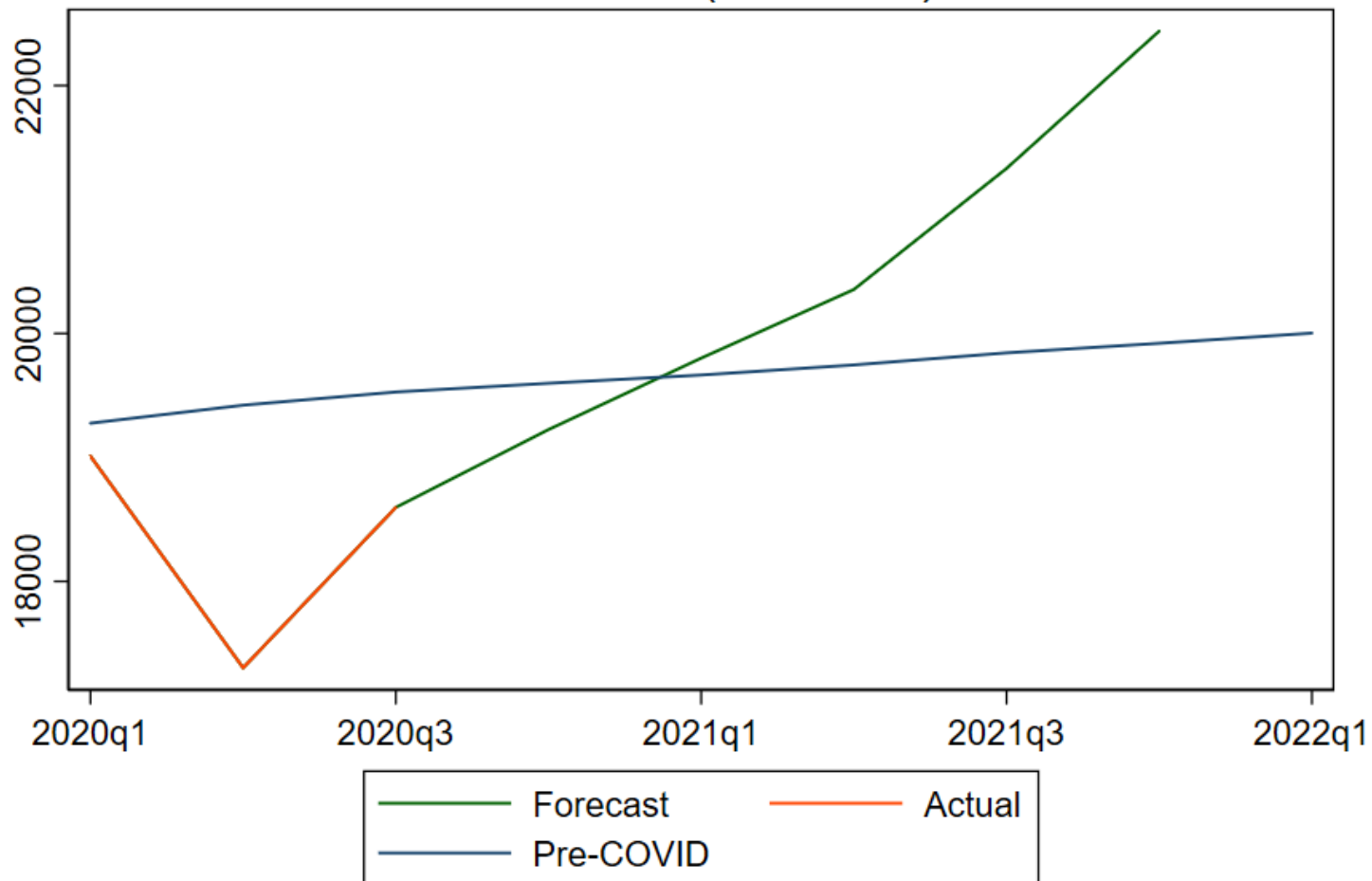


The Forecast – latest run 1/9/2021

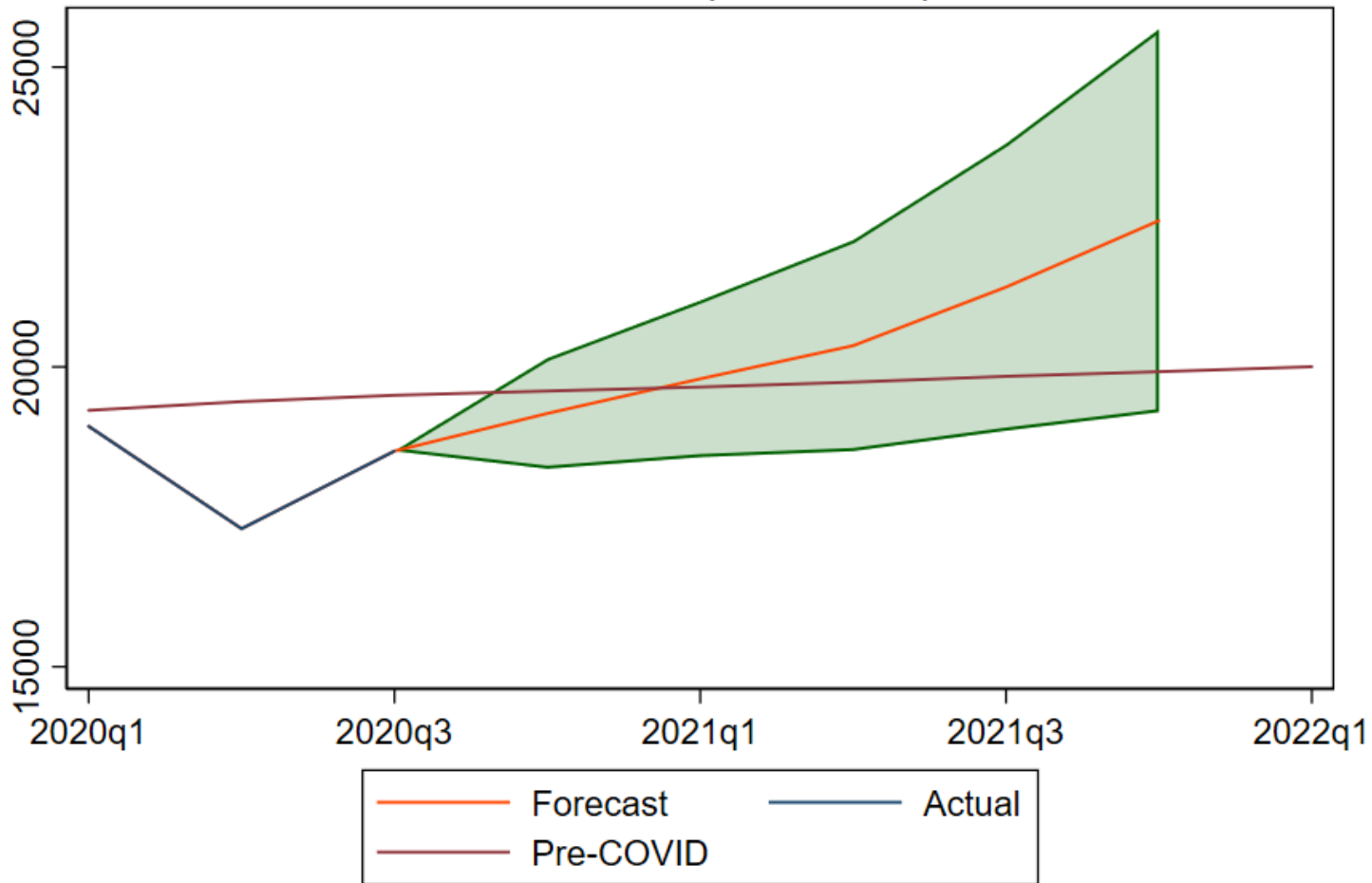
National Economy

- Gross Domestic Product
- Unemployment Rate
- Consumption
- Net Investment
- Corporate Profits
- Commodities
- Highly Volatile 2020 Economy has created lots of uncertainty moving forward
- Largest Quarter Contraction (Q2) and Quarter Growth (Q3) in history
- Following this massive 3rd quarter growth is a wildly unrealistic forecast of economic growth

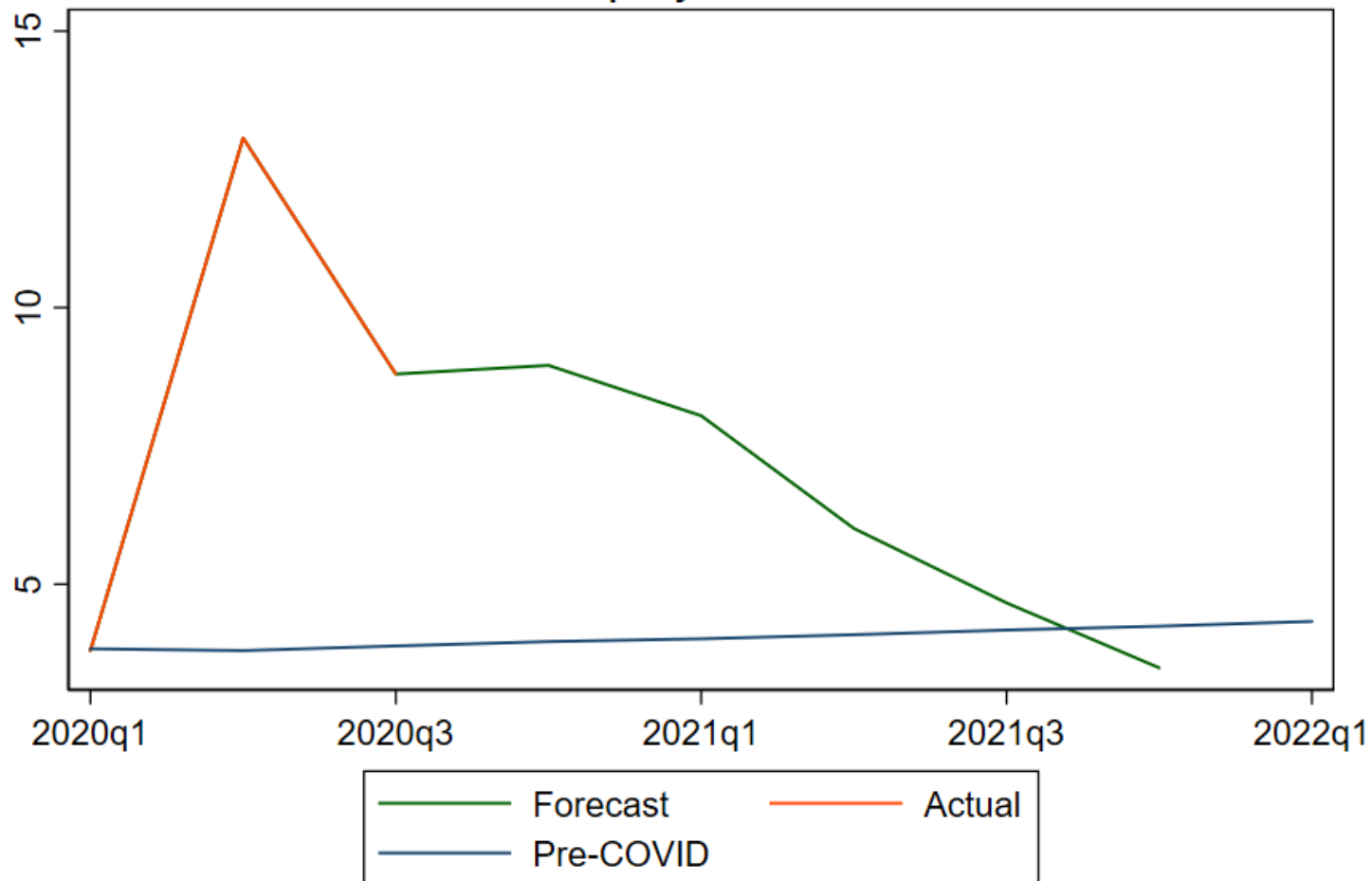
Real GDP (in billions)



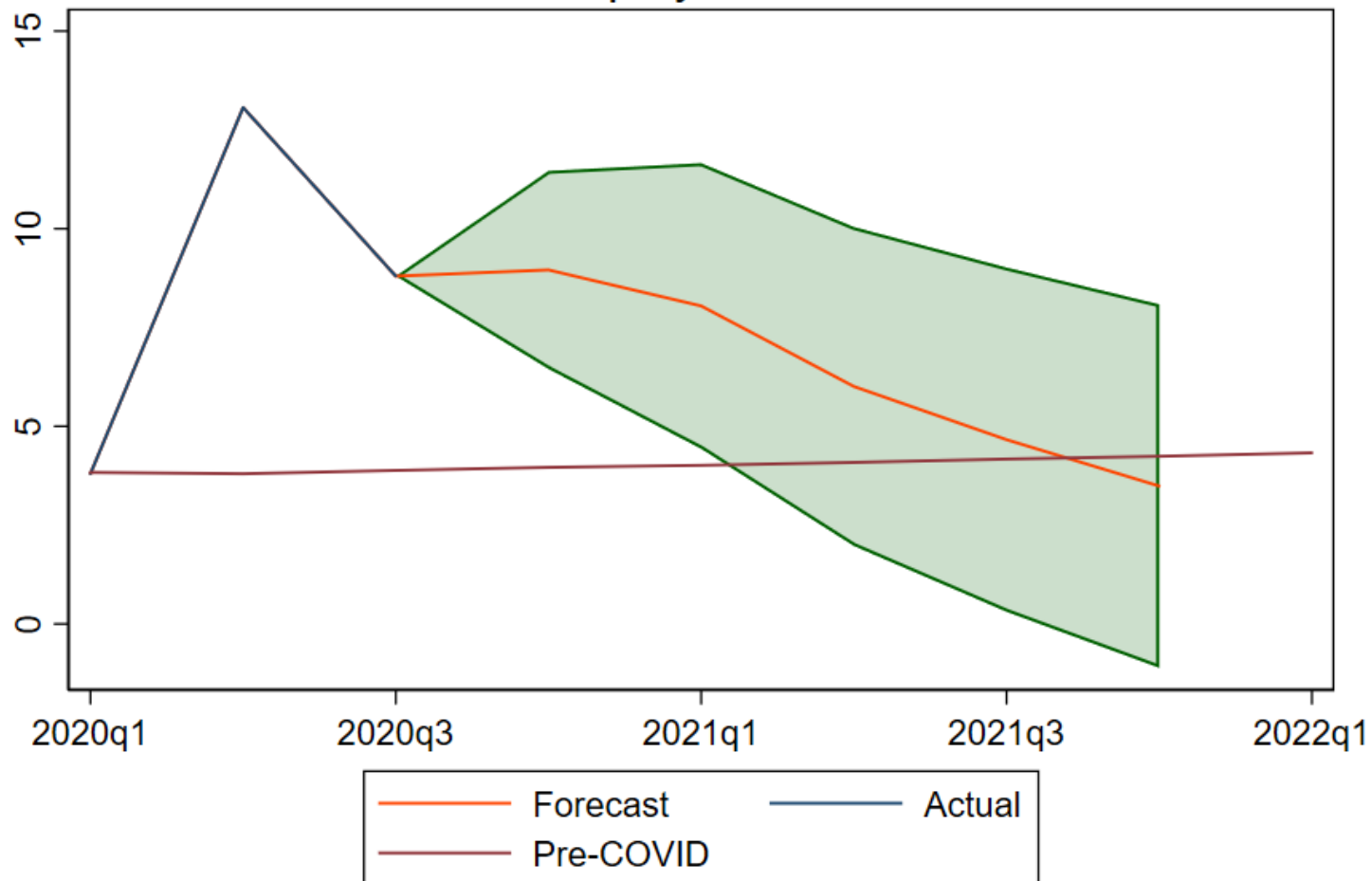
Real GDP (in billions)



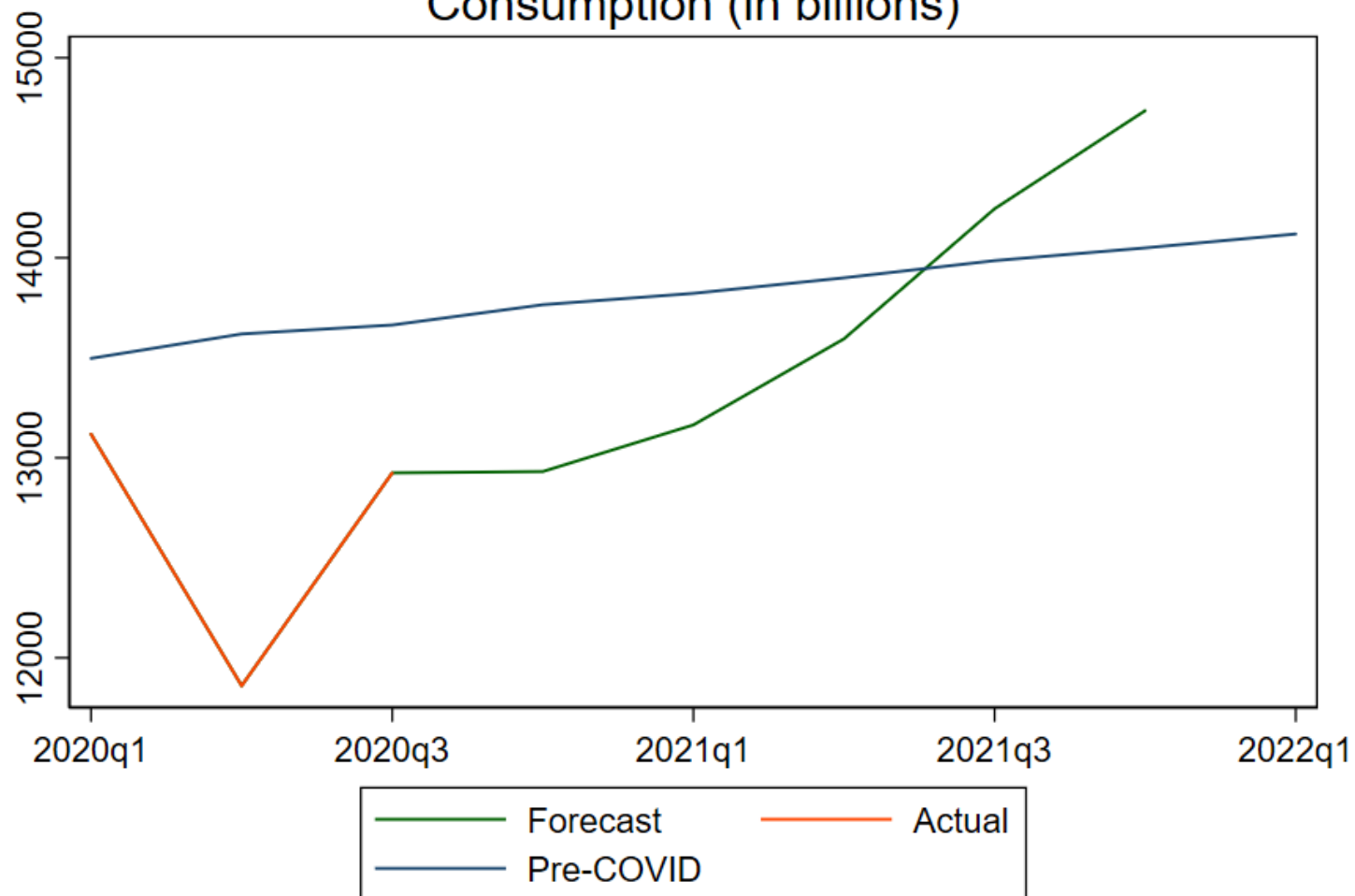
Unemployment Rate



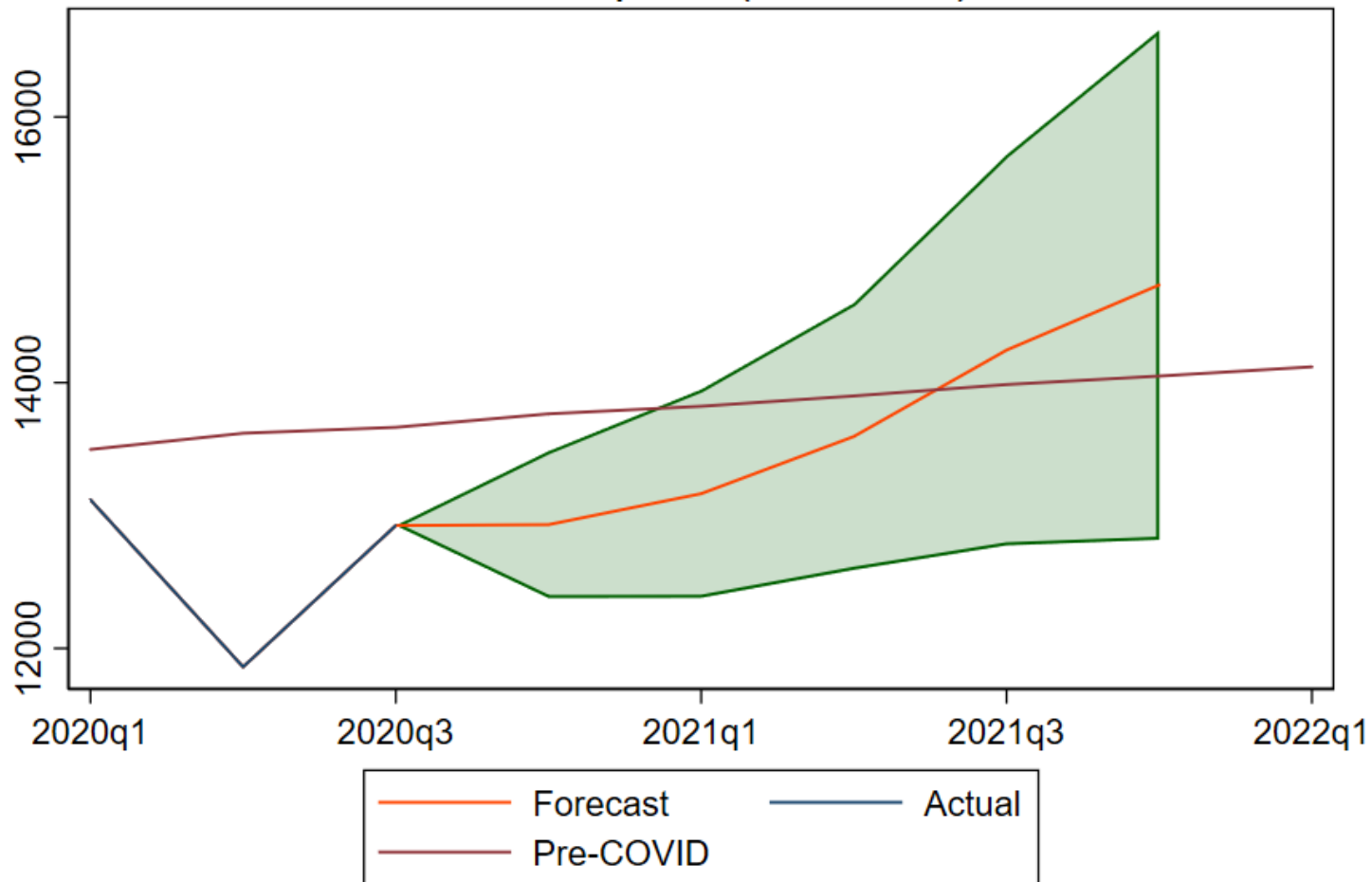
Unemployment Rate



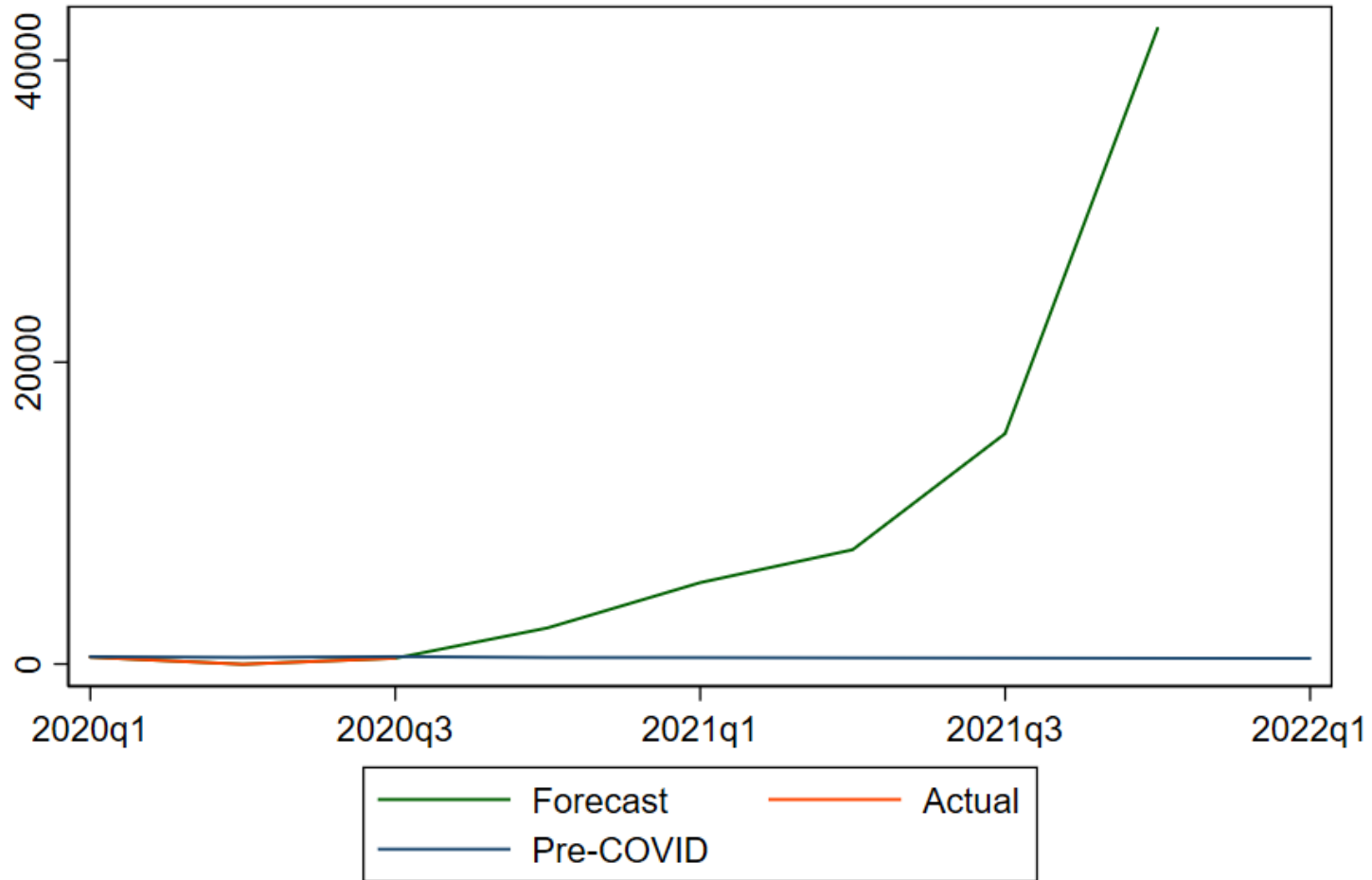
Consumption (in billions)



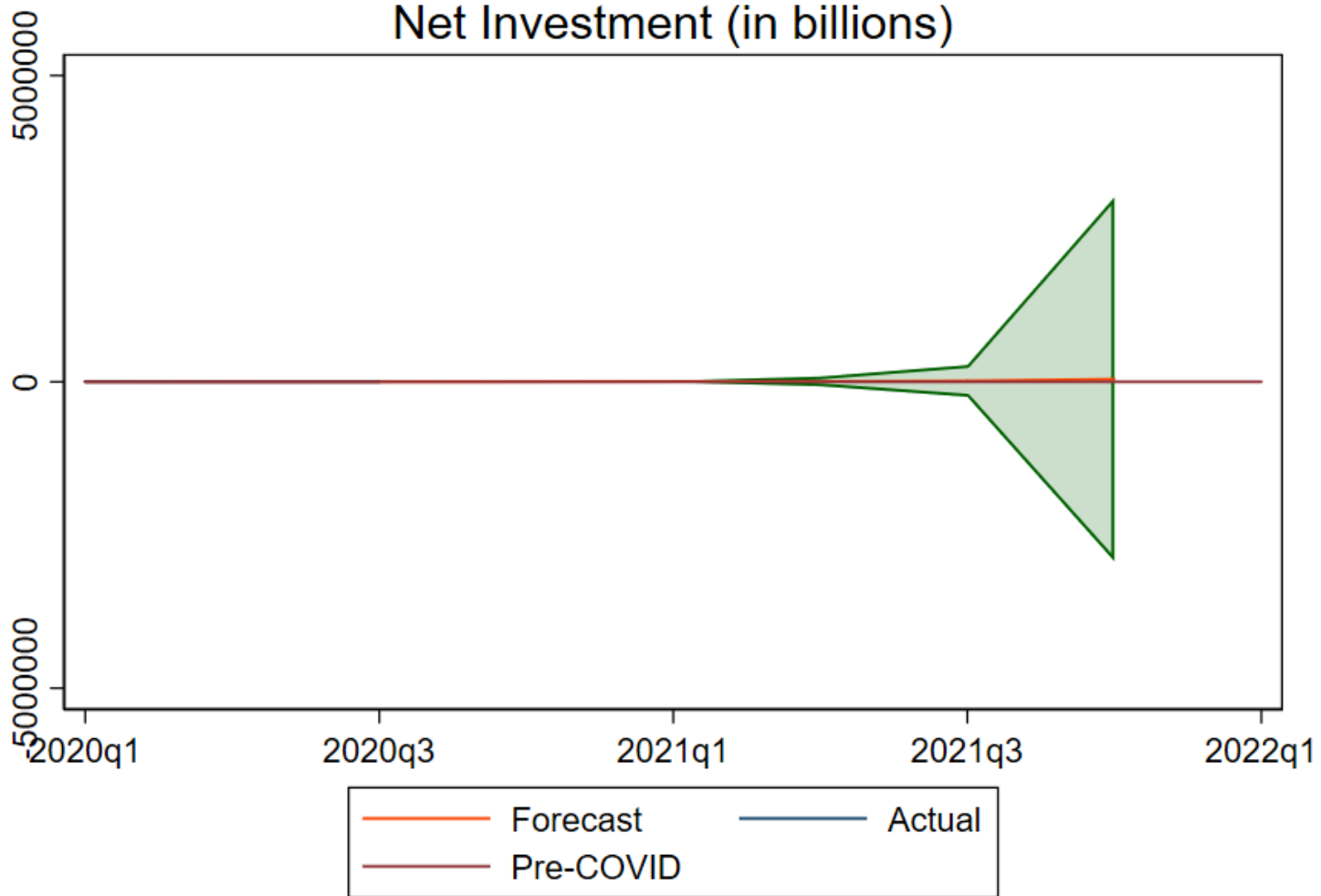
Consumption (in billions)



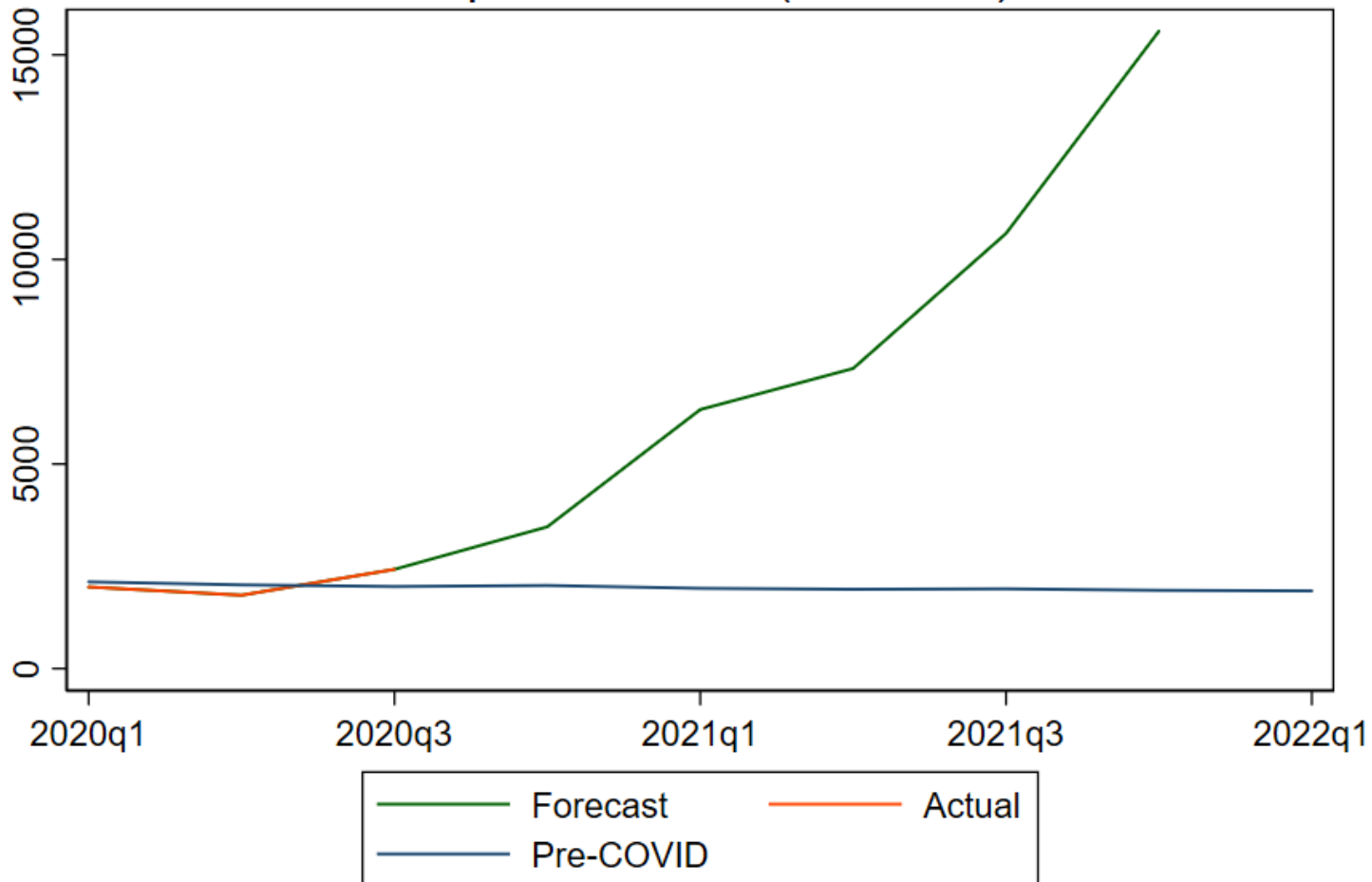
Net Investment (in billions)



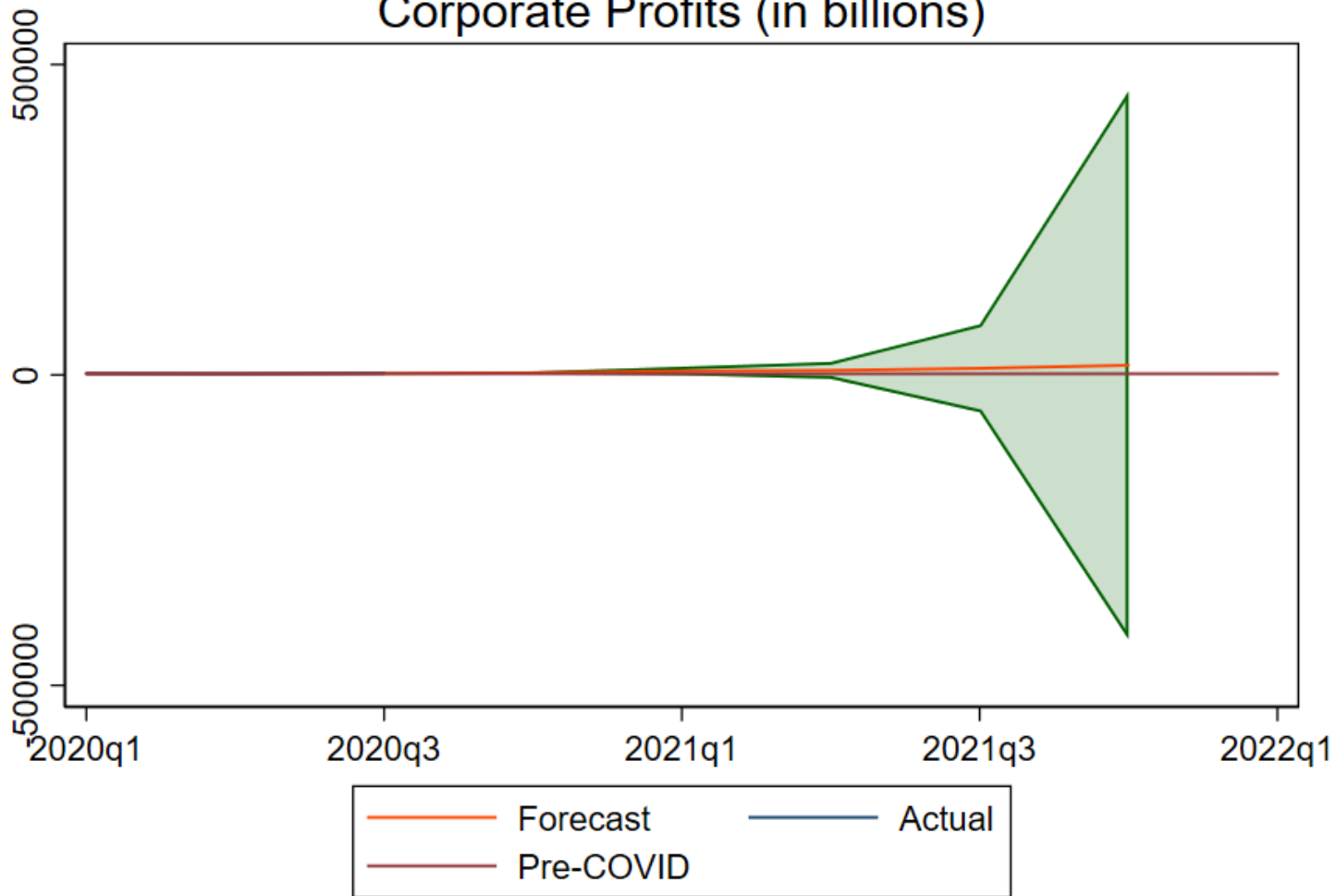
Net Investment (in billions)



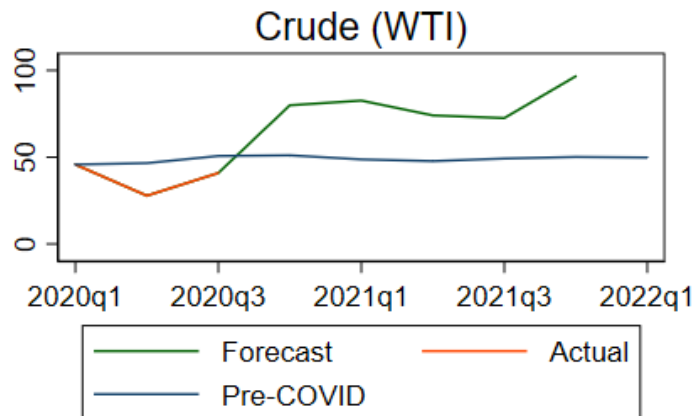
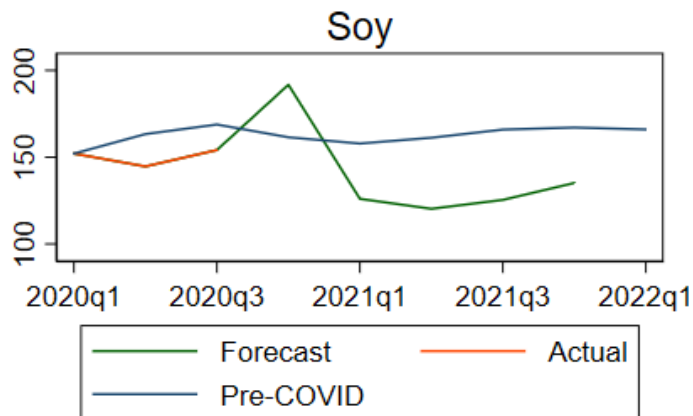
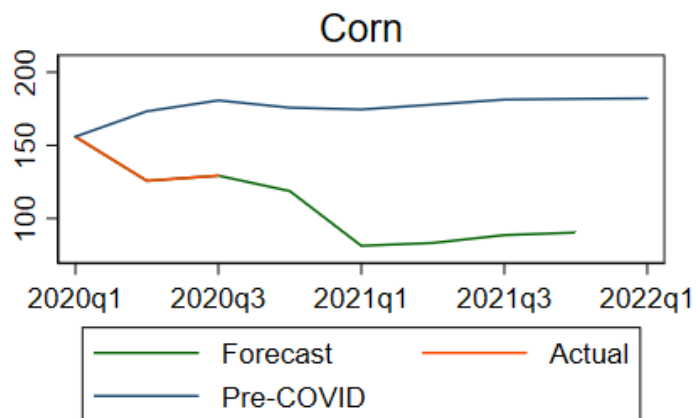
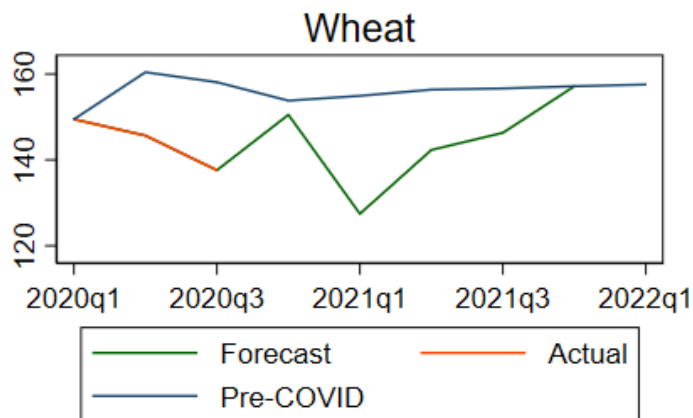
Corporate Profits (in billions)



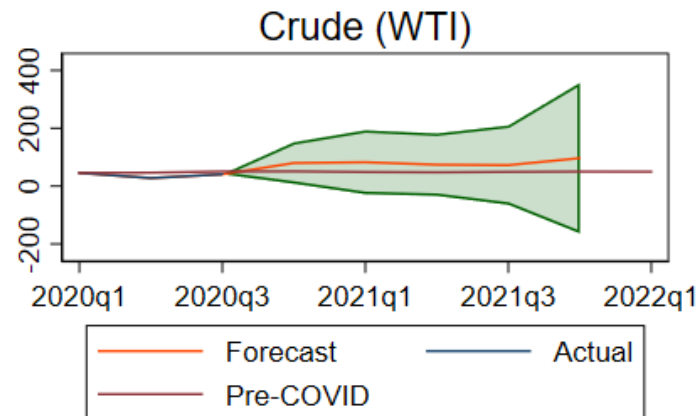
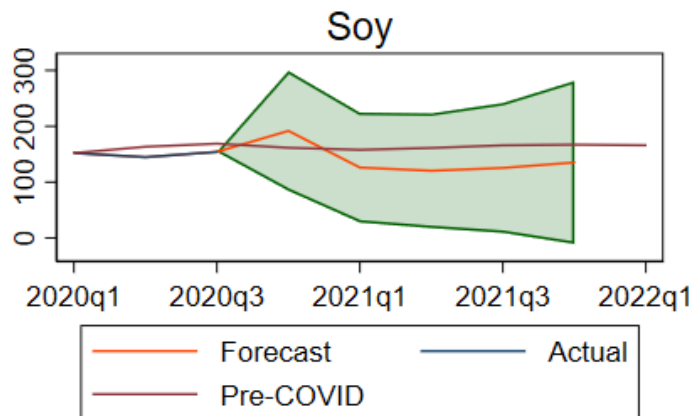
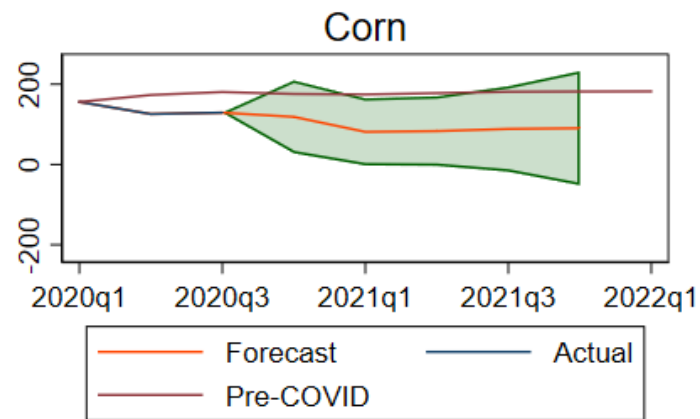
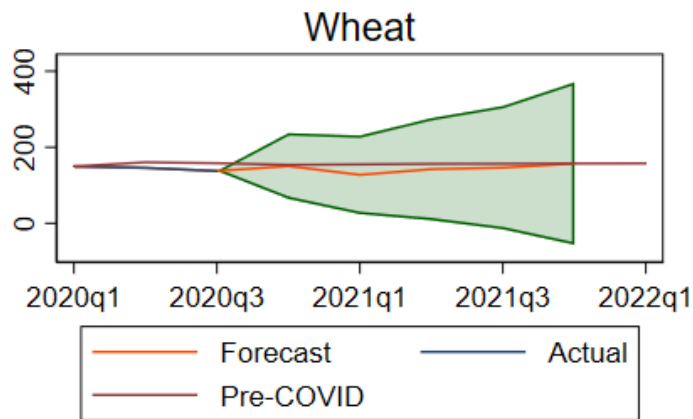
Corporate Profits (in billions)



Commodity Quarterly Outlook



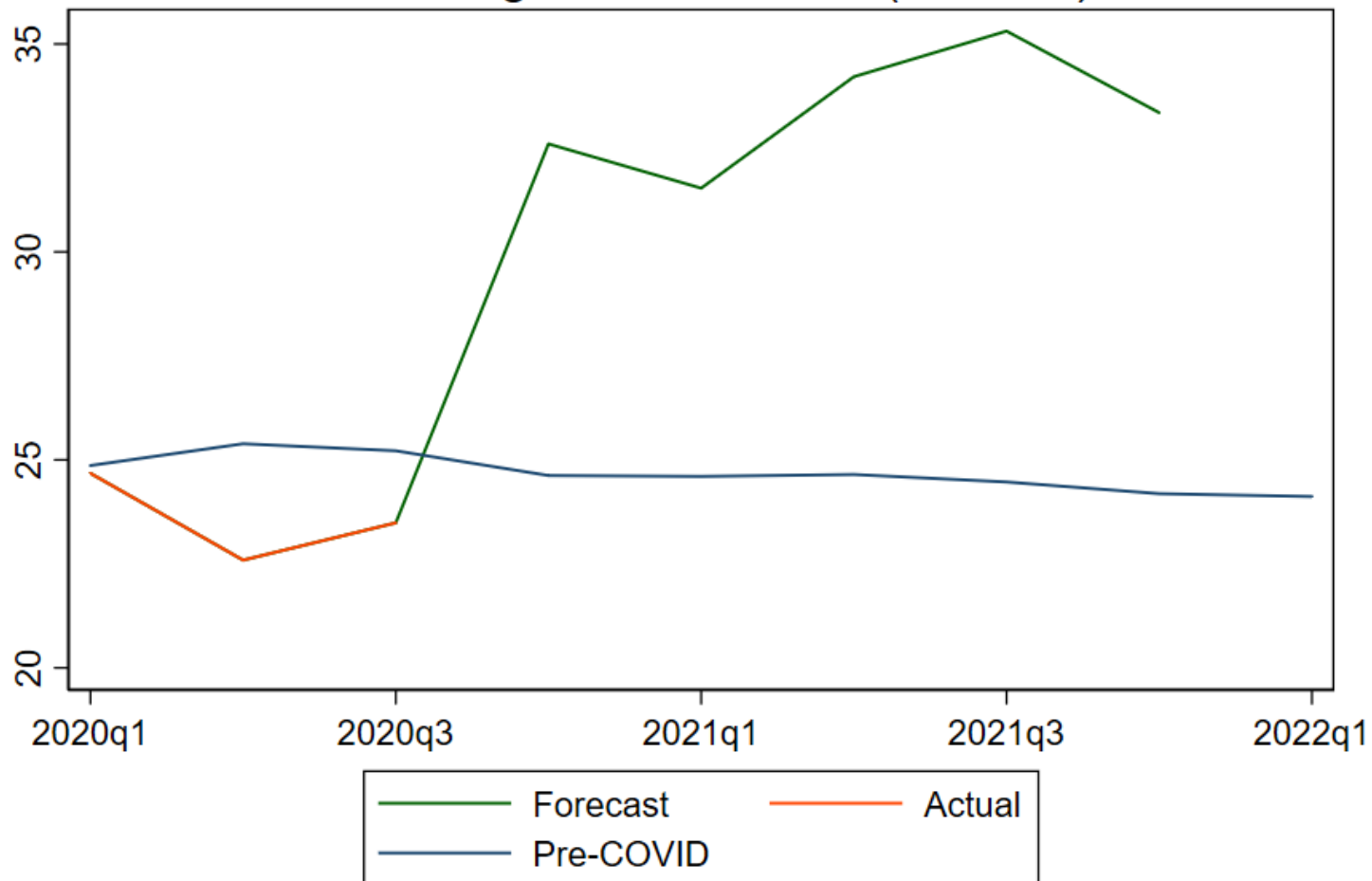
Commodity Quarterly Outlook



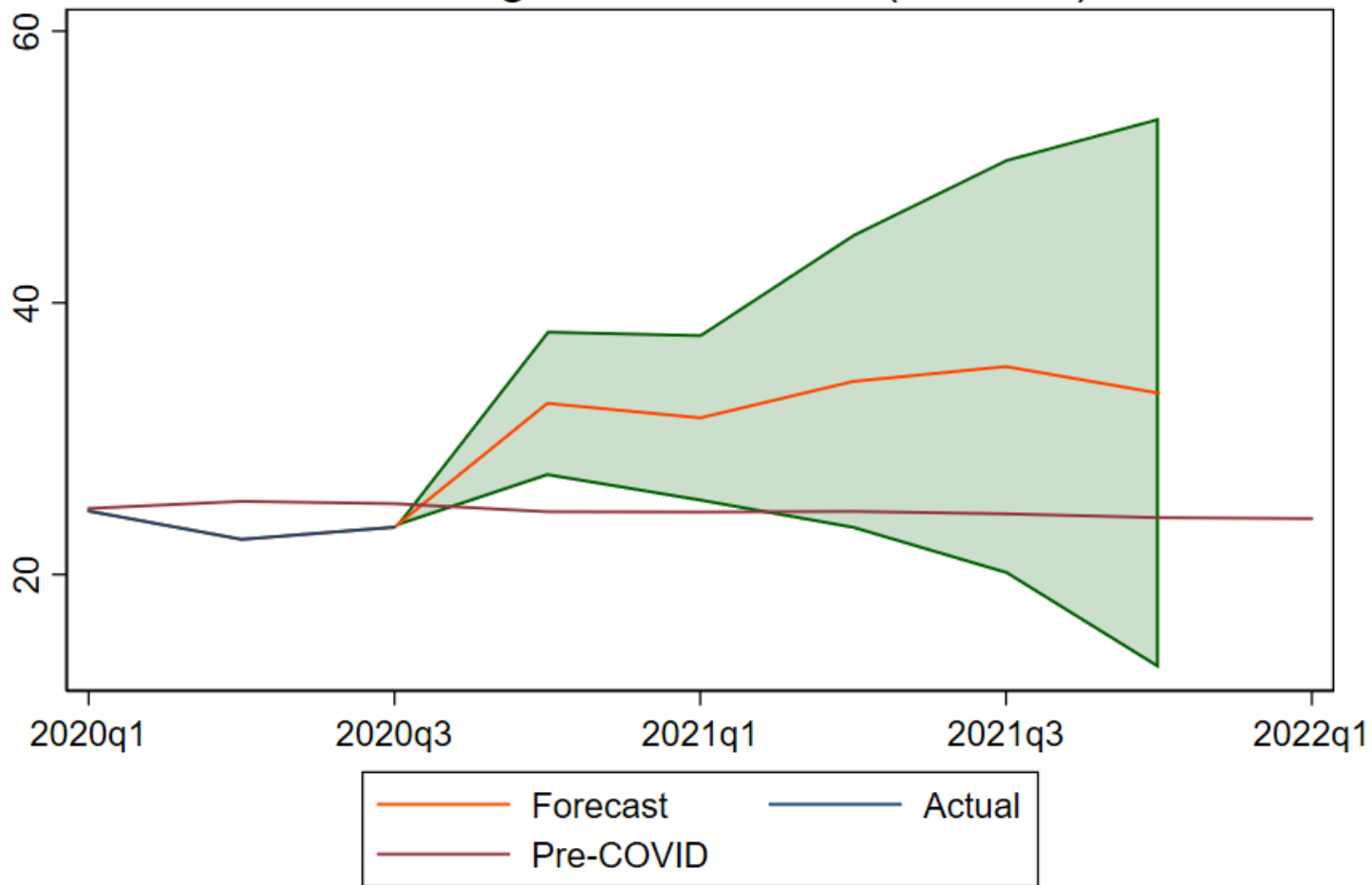
State Economy

- ND Total Wages and Salaries
- ND Labor Force
- ND Unemployment Rate
- ND Gross State Product
- ND Total Tax Revenue
- Highly Volatile 2020 Economy has created lots of uncertainty moving forward
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- Following this massive 3rd quarter growth is a wildly unrealistic forecast of economic growth

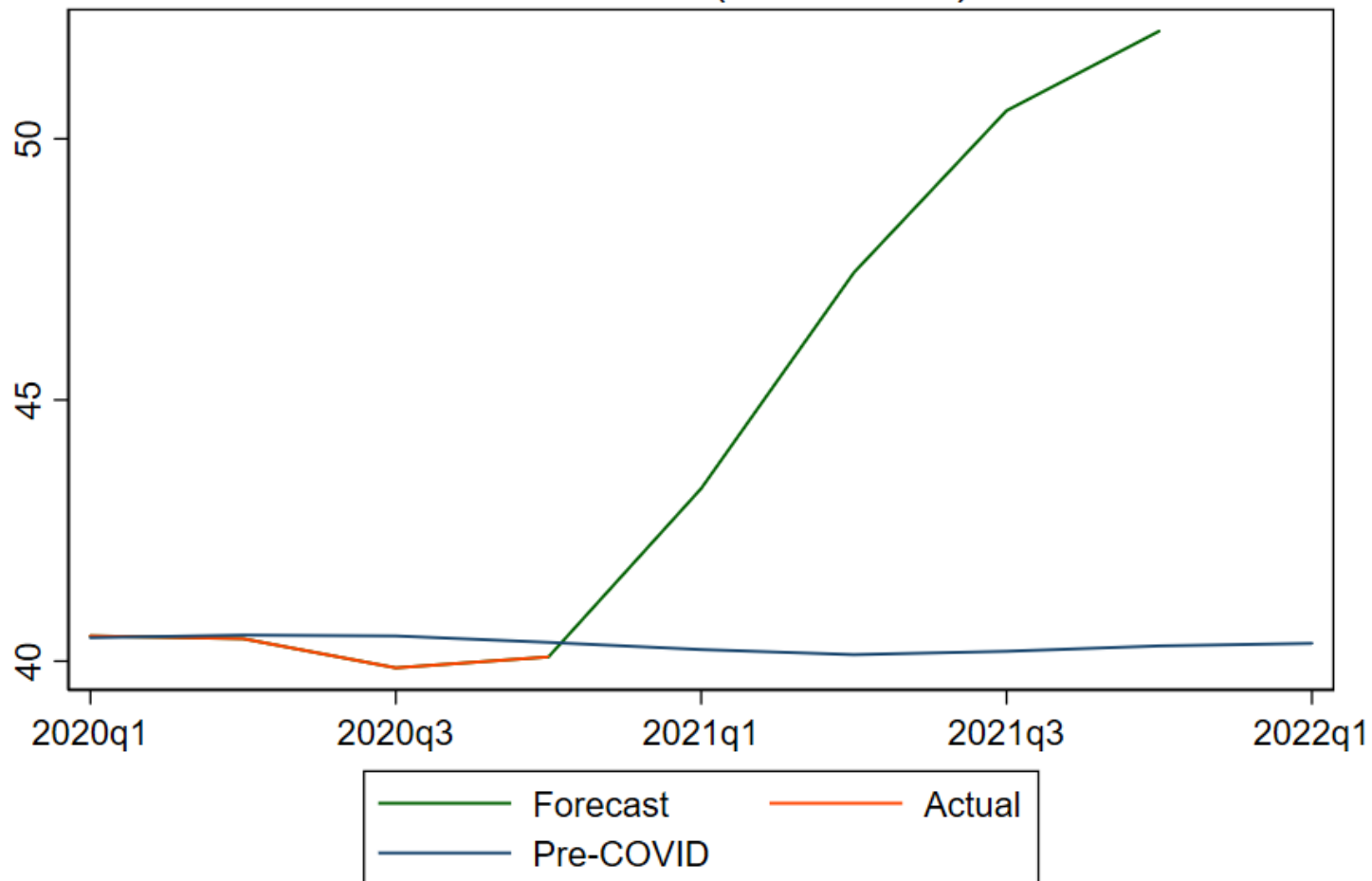
Total Wages and Salaries (in 100M)



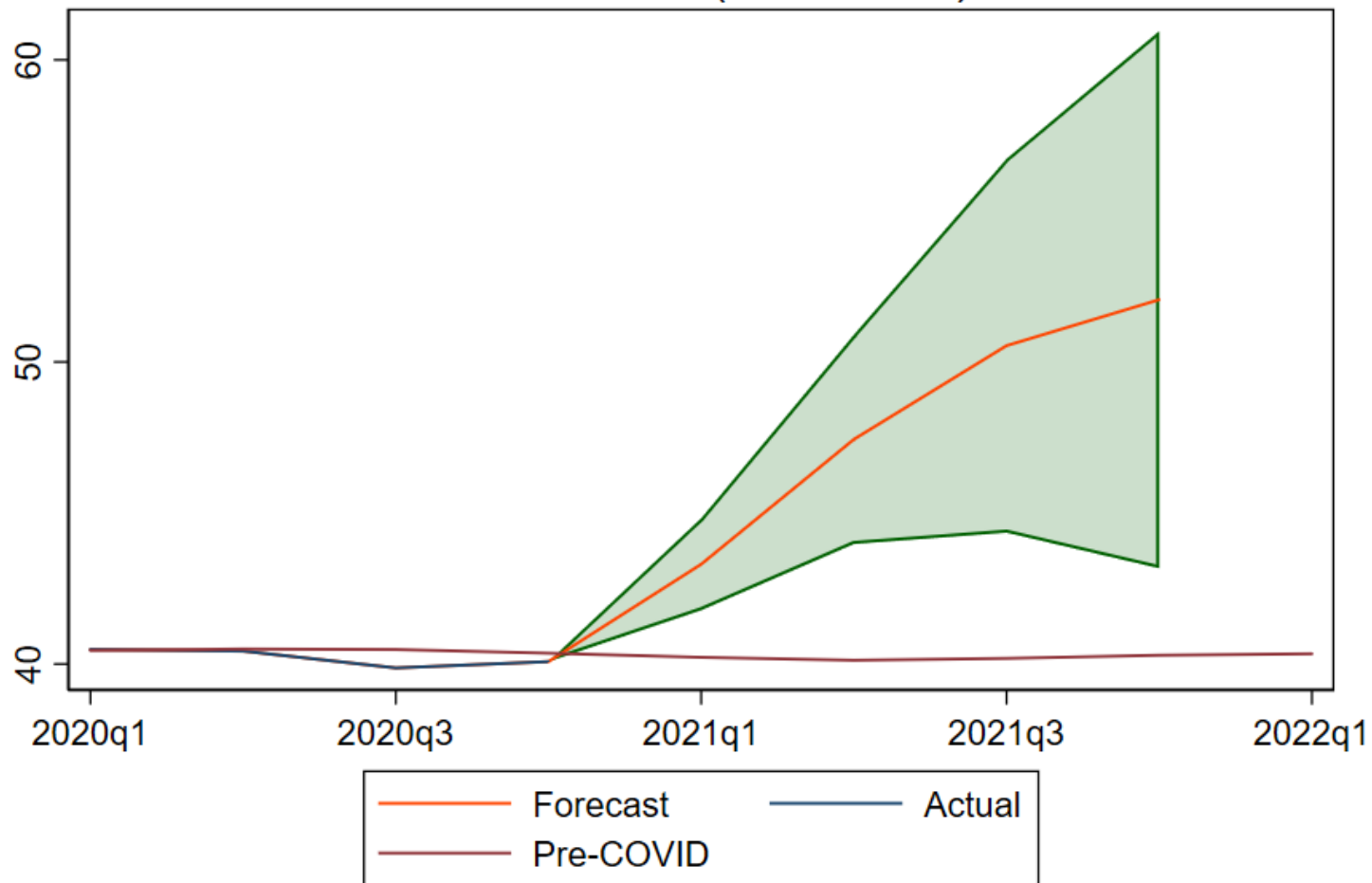
Total Wages and Salaries (in 100M)



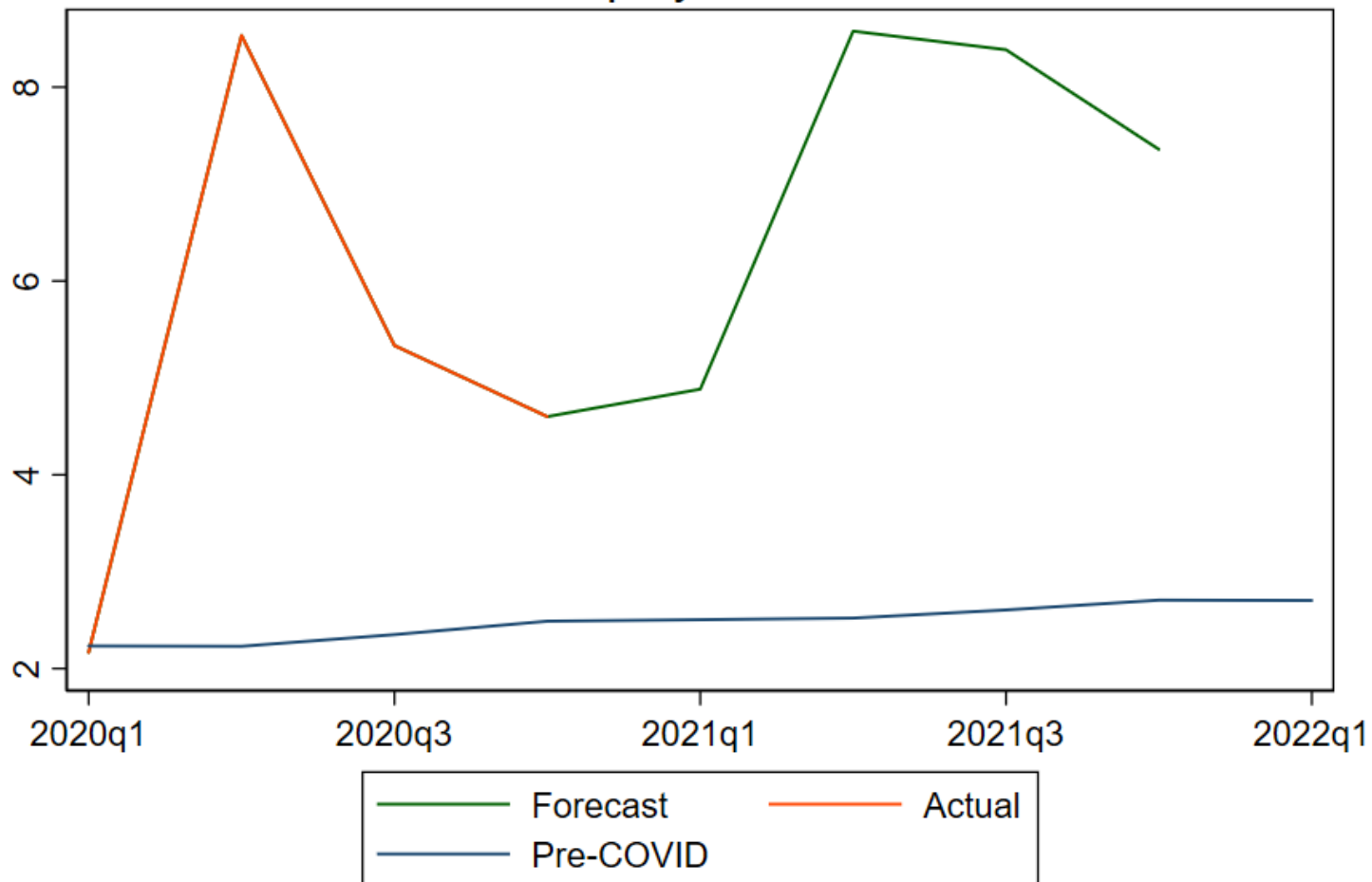
Labor Force (in 10,000s)



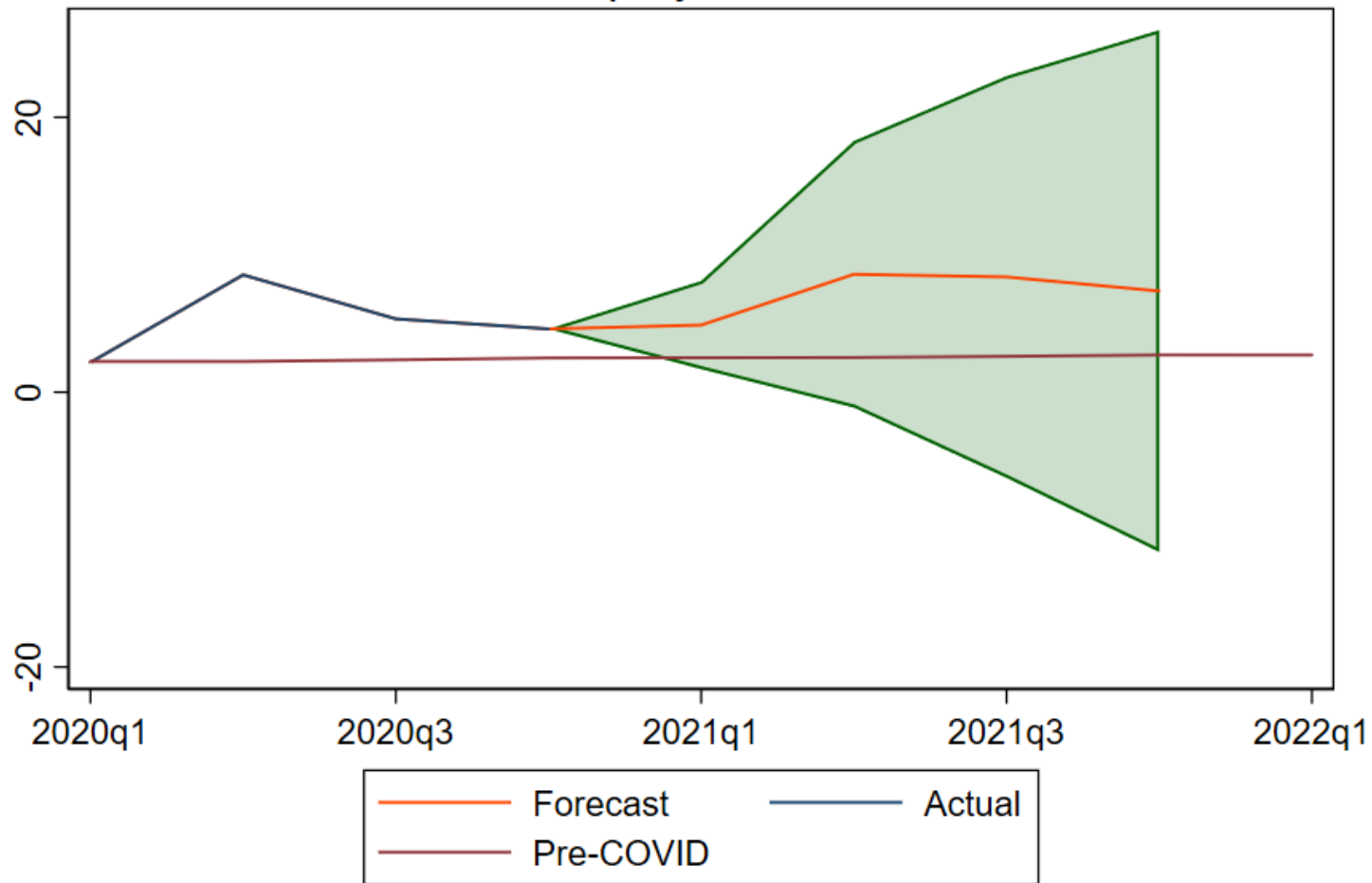
Labor Force (in 10,000s)



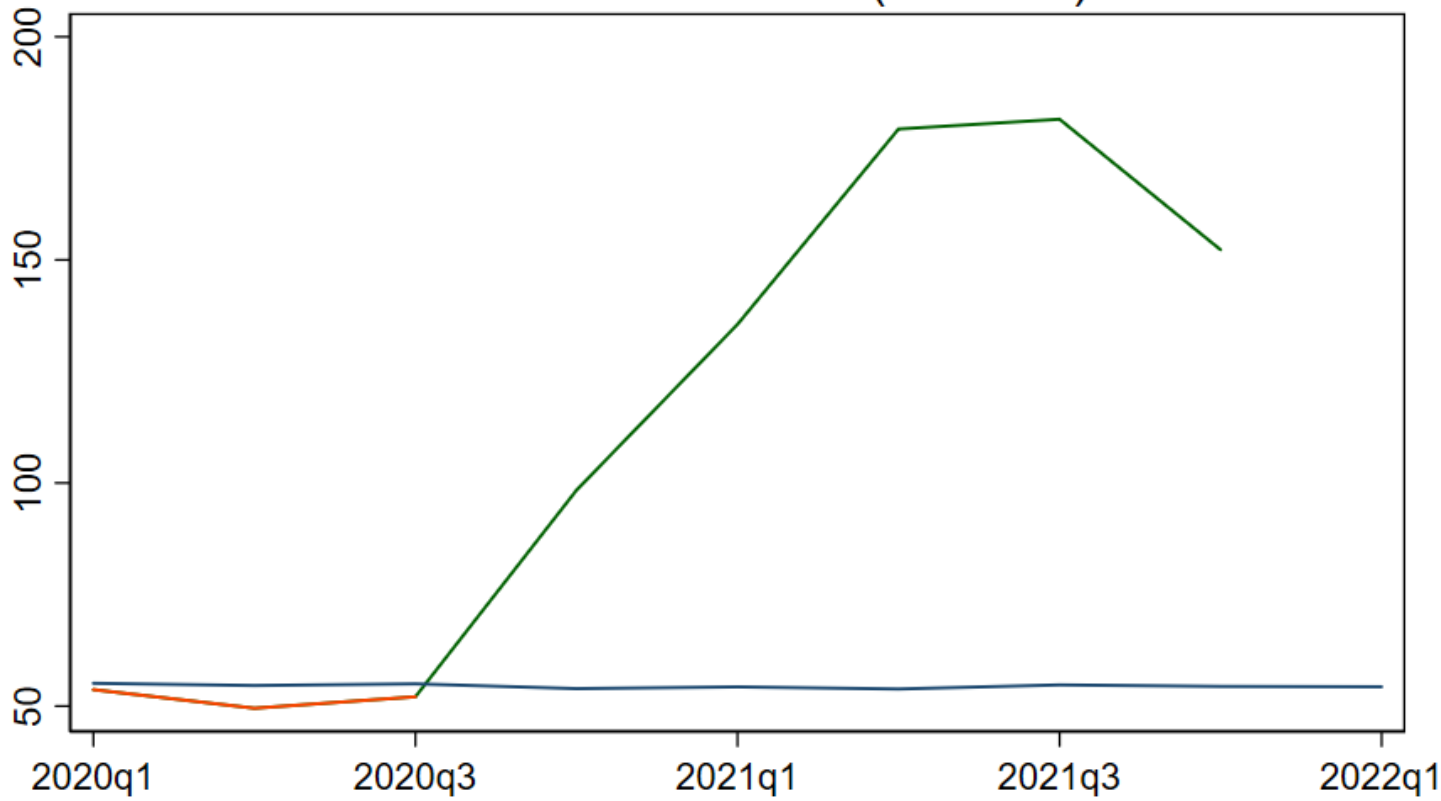
Unemployment Rate



Unemployment Rate



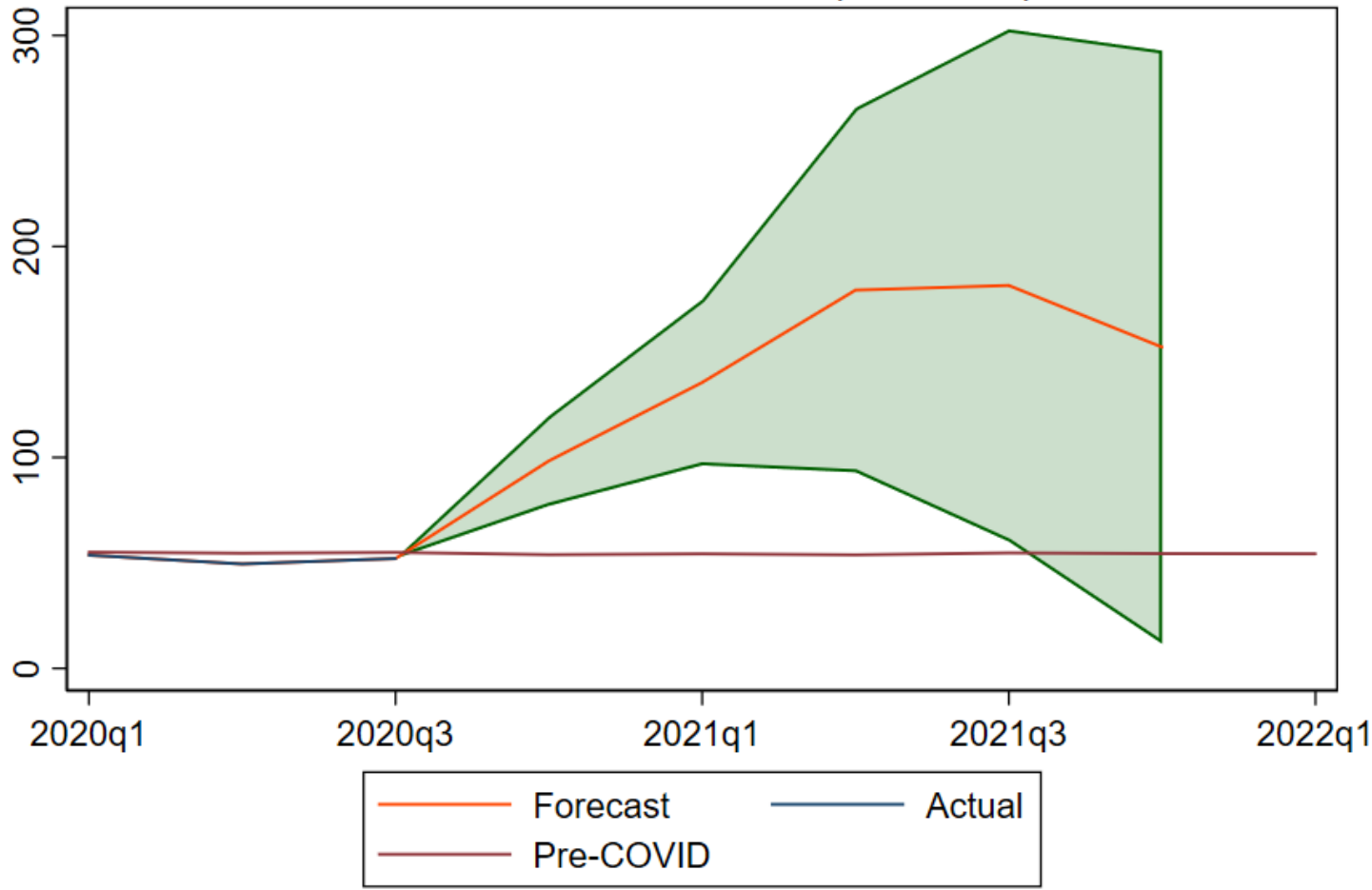
Gross State Product (in 100M)



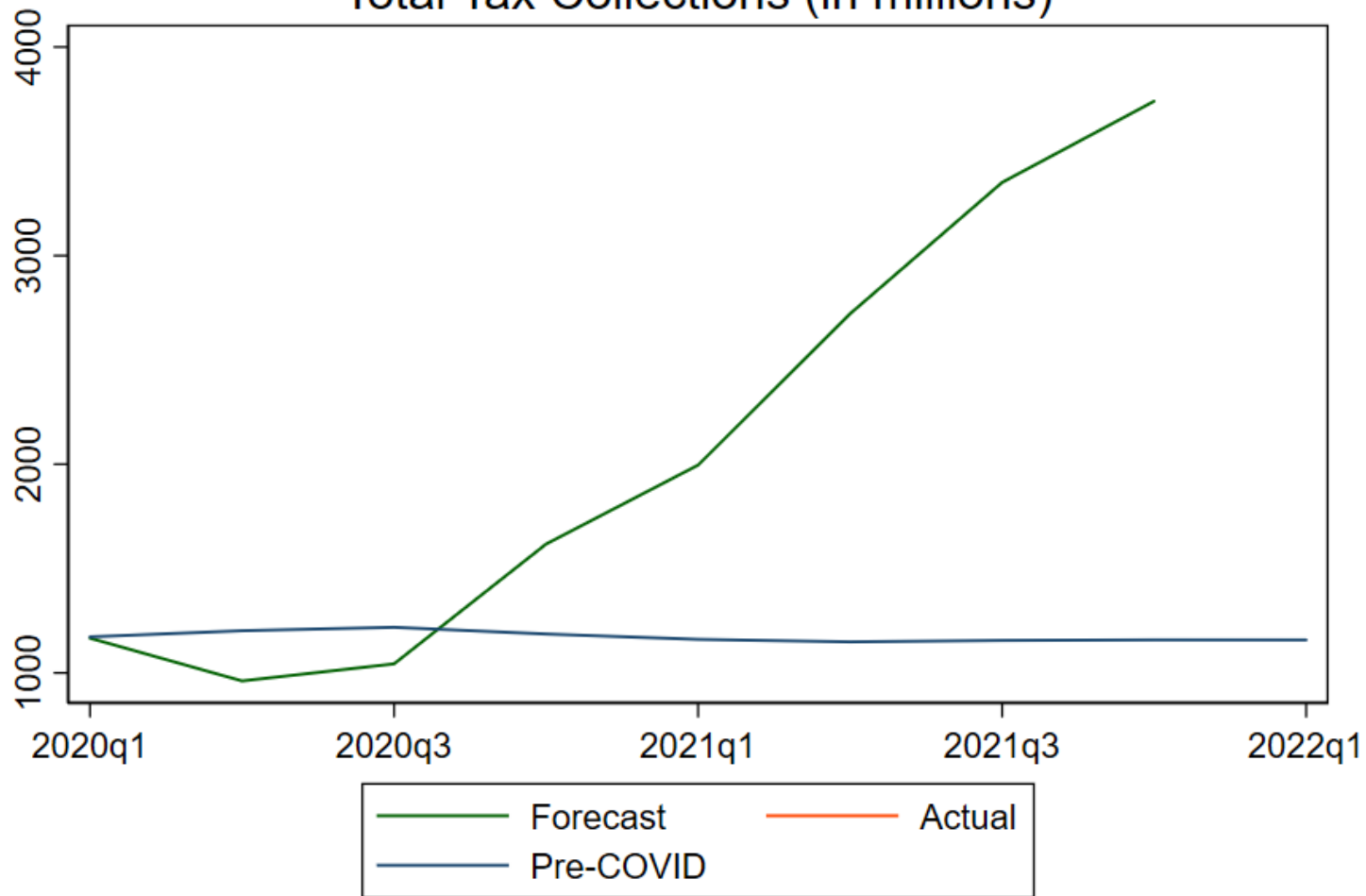
NDS



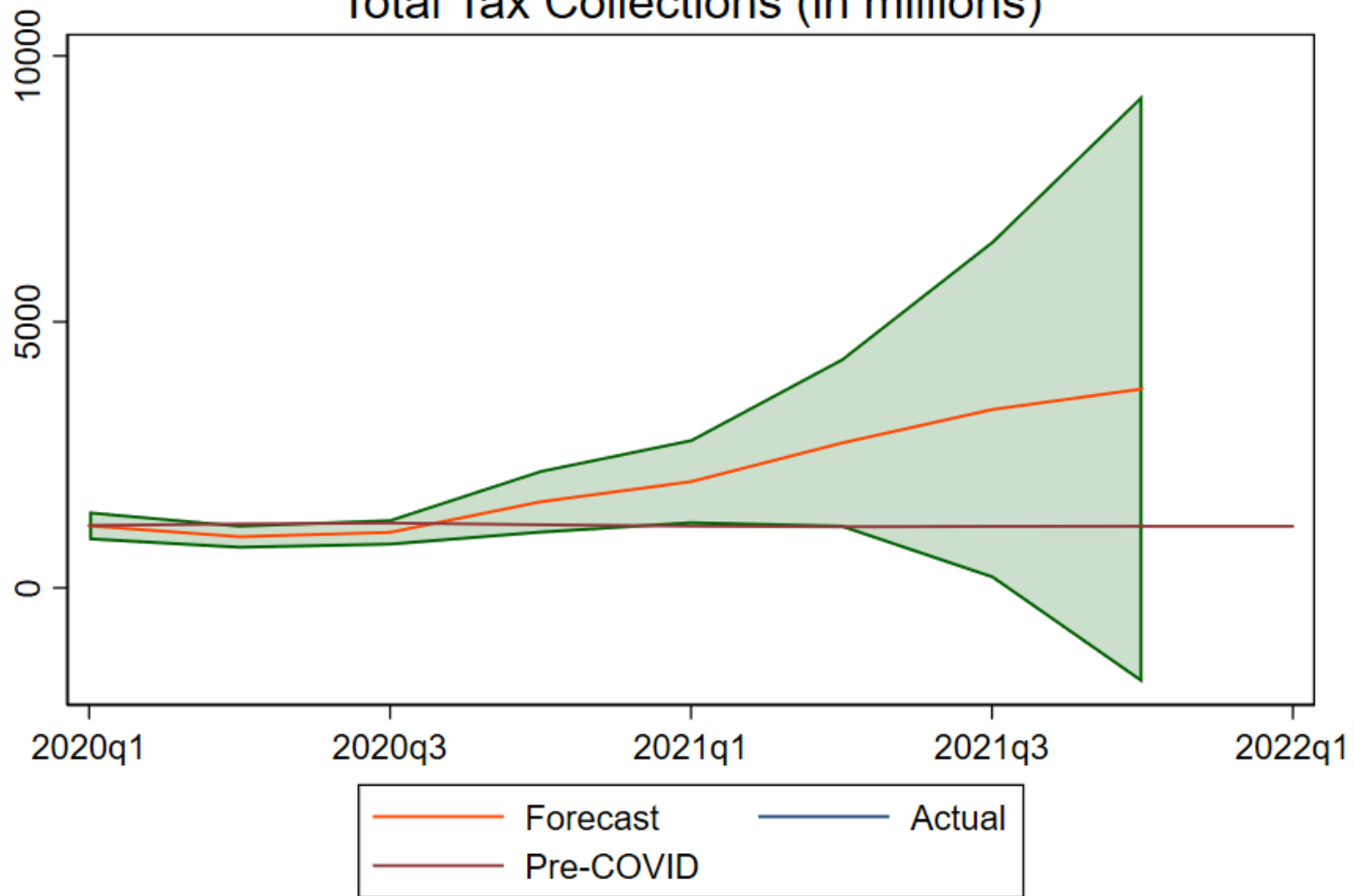
Gross State Product (in 100M)



Total Tax Collections (in millions)



Total Tax Collections (in millions)



Summary Points

- First forecast that has a trend with economic growth...
 - This is largely an artifact of the unsustainable economic growth of Q3 2020
- Much uncertainty remains as the national and state responses to the pandemic remain fluid.
 - The national and state responses will continue to shape the recovery
- Both the US and ND economies are positioned for a recovery
 - The recovery for each is fraught with uncertainty
 - If the pandemic were to miraculously end immediately, we would be poised for recovery

Center for the Study of Public Choice and Private Enterprise

Our Mission

- We engage in research and educational programs to explore the institutions and policies that promote human flourishing.

Current and Future Projects

- [Economic Outlook](#) quarterly report
- [COVID-19](#) economic research

Questions

Questions and comments are welcome

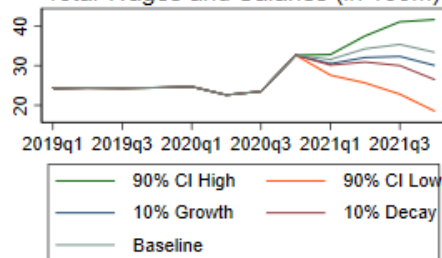
Email: jeremy.jackson@ndsu.edu 

Social media: @NDSUpcpe

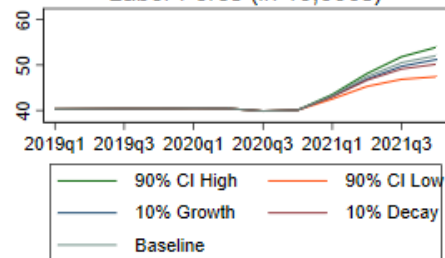


North Dakota Quarterly Outlook - Alternate Scenarios

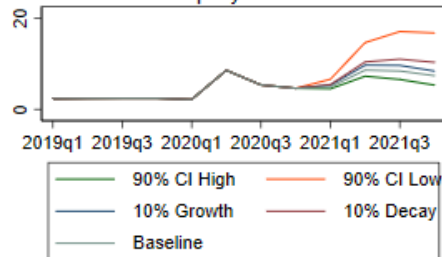
Total Wages and Salaries (in 100M)



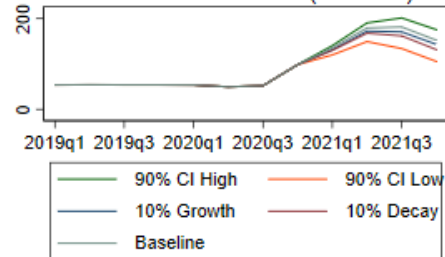
Labor Force (in 10,000s)



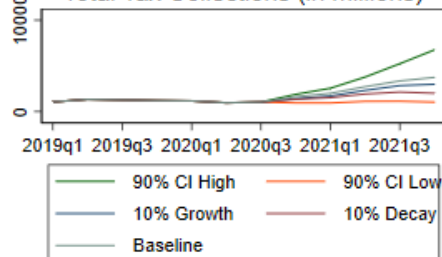
Unemployment Rate



Gross State Product (in 100M)



Total Tax Collections (in millions)



Crude (WTI)

