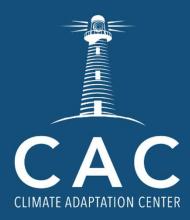
Welcome to the

2024 CAC Florida Climate Conference Climate and Human Health



The Economics of Hurricanes vs. Pandemics

David R. Kotok



David R. Kotok



THE FED AND THE FLU PARSING PANDEMIC ECONOMIC SHOCKS

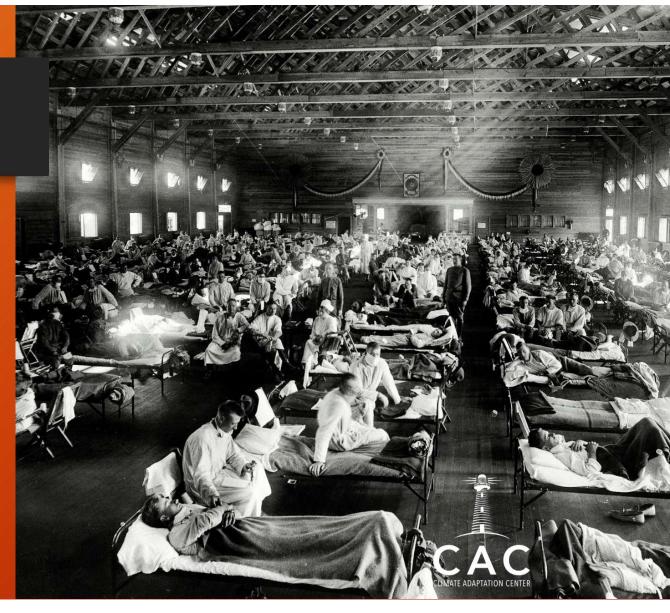
DAVID R. KOTOK

WITH MICHAEL R. ENGLUND, TRISTAN J. ERWIN, ELIZABETH J. SWEET

A Century of Learning

What did the Fed do?

1918 H1N1 flu
1957 H2N2 flu
COVID-19



"Longer-Run Economic Consequences of Pandemics" Jordá, Singh, and Taylor

"Significant macroeconomic aftereffects of pandemics persist for decades, with real rates of return substantially depressed, in stark contrast to what happens after wars."

(Oscar Jordá, Sanjay R. Singh, and Alan M. Taylor. 2020. "Longer-Run Economic Consequences of Pandemics," Federal Reserve Bank of San Francisco Working Paper 2020-09. Available at https://doi.org/10.24148/wp2020-09.)



Wars & Natural Disasters vs. Pandemics

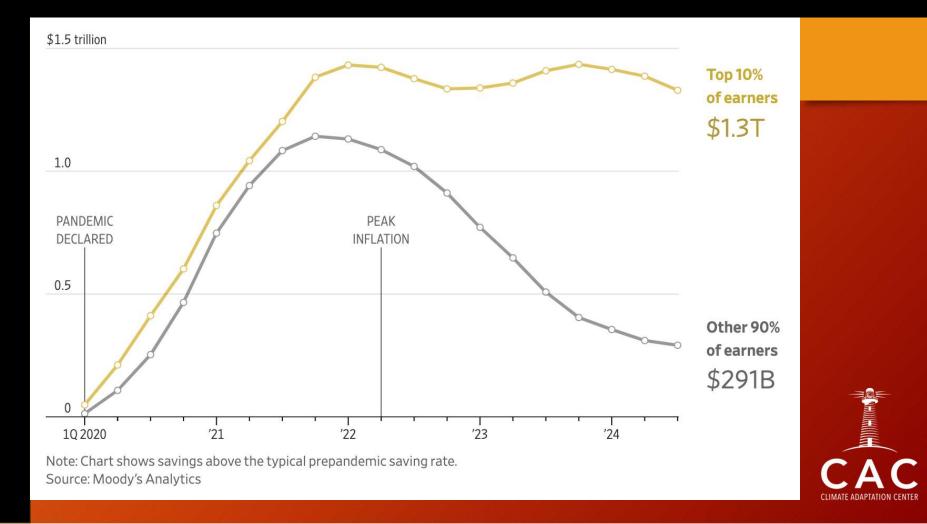
Wars and natural disasters have comparable effects:

- People die.
- Physical capital is destroyed.
- Destruction is followed by rebuilding, spurring economic activity.

In pandemics, people die but capital remains.



Cumulative Excess Savings by Income 2020-2024

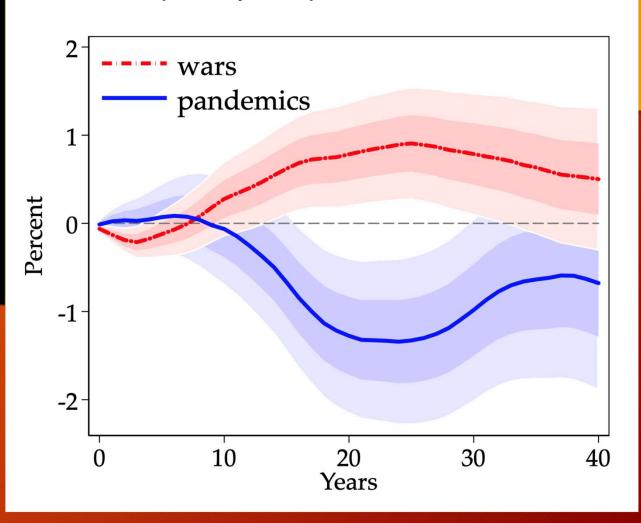


Pandemics vs. Wars:

Real Natural Rate of Interest

(Jorda, Oscar, Sanjay R. Singh, and Alan M. Taylor. 2020. "Longer-Run Economic Consequences of Pandemics," Federal Reserve Bank of San Francisco Working Paper 2020-09. Available at <u>https://doi.org/10.24148/wp2020-09</u>.)

(a) Response of European real natural rate

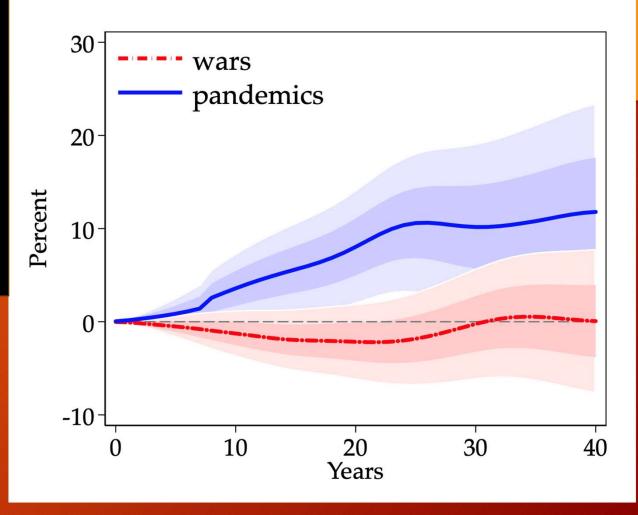


Pandemics vs. Wars:

Real Wages

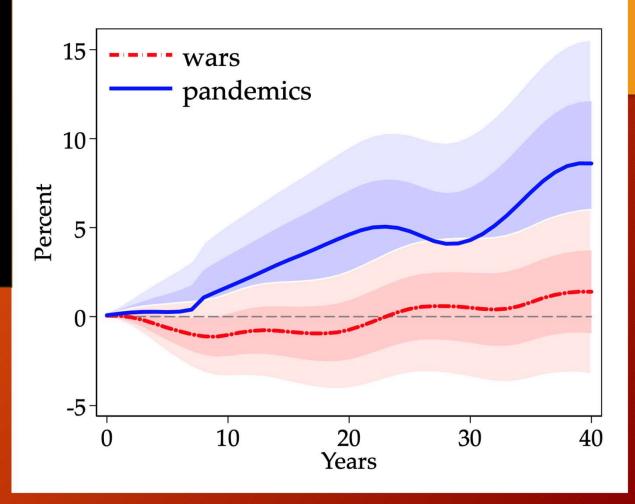
(Jorda, Oscar, Sanjay R. Singh, and Alan M. Taylor. 2020. "Longer-Run Economic Consequences of Pandemics," Federal Reserve Bank of San Francisco Working Paper 2020-09. Available at https://doi.org/10.24148/wp2020-09.)

(b) Response of real wages in Great Britain



Pandemics vs. Wars:

Real GDP per Capita (c) Response of real GDP per capita in England



(Jorda, Oscar, Sanjay R. Singh, and Alan M. Taylor. 2020. "Longer-Run Economic Consequences of Pandemics," Federal Reserve Bank of San Francisco Working Paper 2020-09. Available at https://doi.org/10.24148/wp2020-09.)

What the Past Says about the Future

History repeats and repeats and repeats.



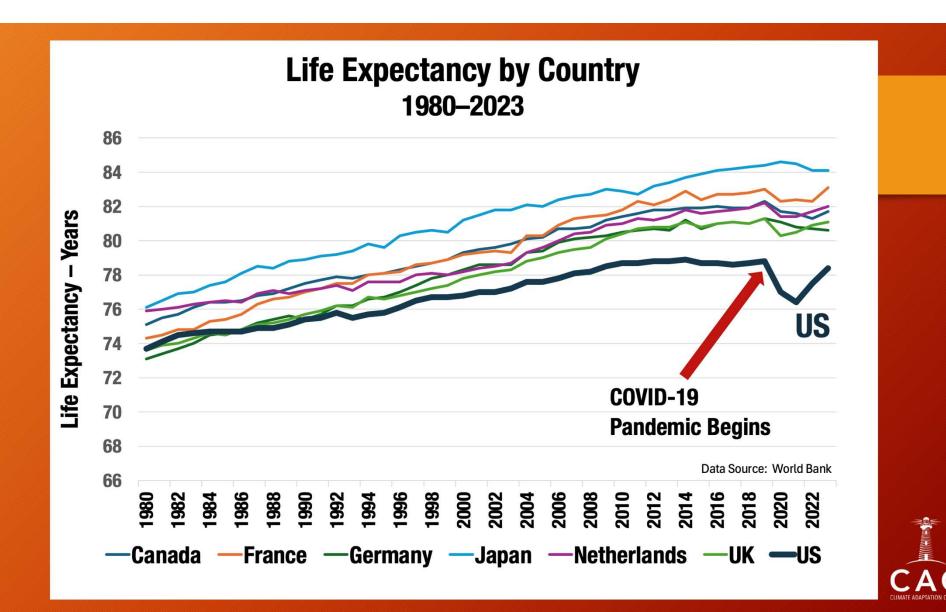
It's Always Pathogen x People

Behavior changes outcomes pathogens don't care.





LIMATE ADAPTATION CENTER



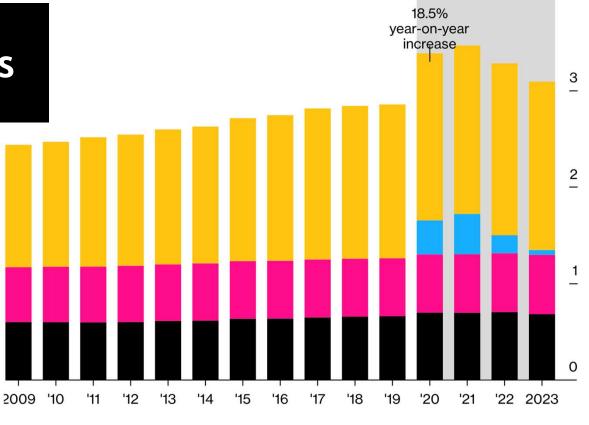
The Covid Pandemic Fueled a 4-Year Mortality Surge in the US

4M

Annual crude deaths by underlying cause since 2009

■ Heart Disease ■ Cancer ■ Covid-19 ■ All other causes ■ Covid era

Surge in Excess Deaths



Source: National Vital Statistics System. CDC WONDER Online Database, chart by Bloomberg Note: 2023 data are provisional



Calculating COVID's Demographic Shock

Excess Deaths

DALYs (Disability-adjusted life years)

QALYs (Quality-adjusted life years)

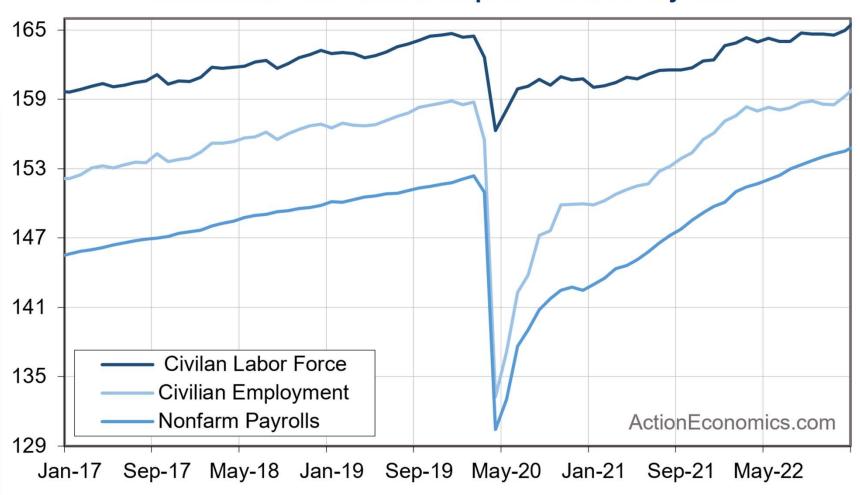
Total Pandemic Demographic Shock

The Fed's COVID Response



The Fed's response to COVID prevented a Great Depression.

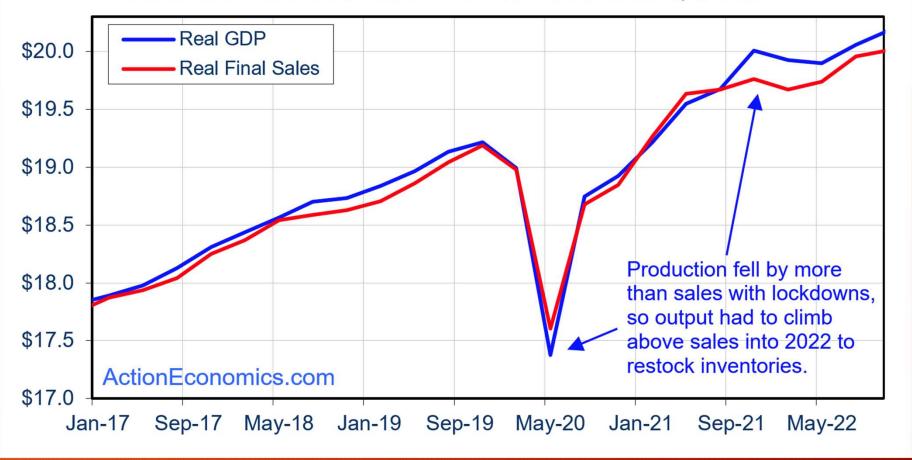




Household Labor Force & Emp. vs Nonfarm Payrolls

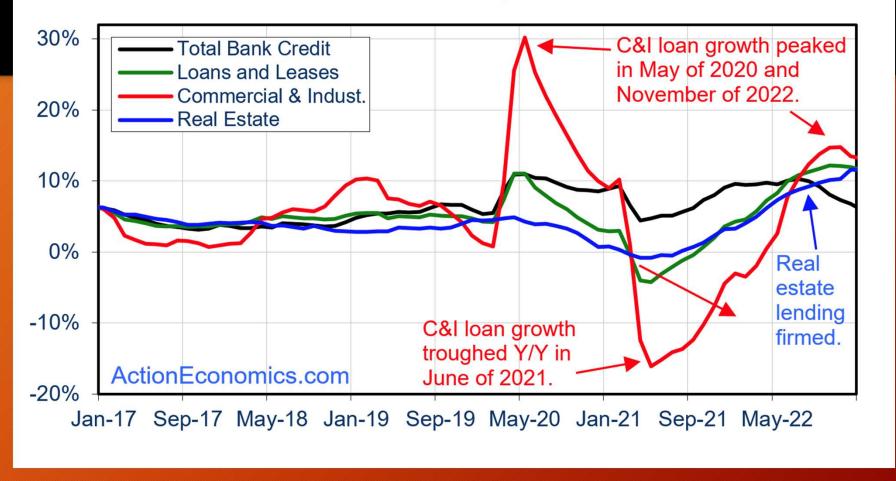


Real GDP & Final Sales vs Pre-2008 Trend, \$TIns



CAC

Total Y/Y Bank Credit and Component Growth



CAC

Learn more and order:

thefedandtheflu.com





THE FED AND THE FLU PARSING PANDEMIC ECONOMIC SHOCKS

R. KOTOK

WITH MICHAEL R. ENGLUND, TRISTAN J. ERWIN, ELIZABETH J. SWEET

DAVID