The Unstable Phillips Curve

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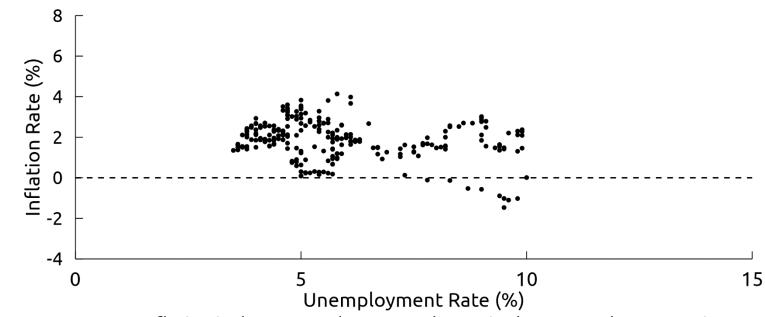
Board of Governors of the Federal Reserve System

Remarks at
Macroeconomics and Monetary Policy
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the Federal Reserve Bank of San Francisco
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The views expressed here are my own and do not reflect those of the Board of Governors or the Federal Open Market Committee.

Figure 1

Phillips Curve, 2000-19

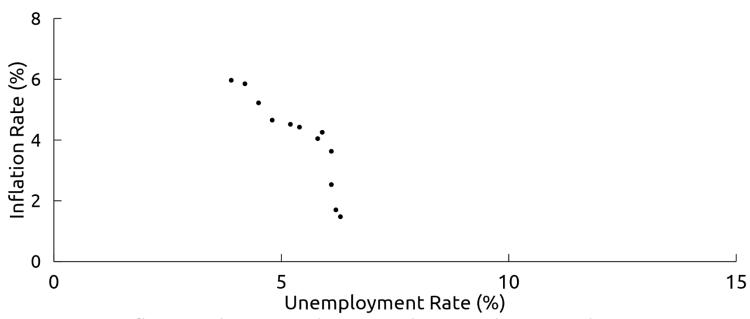


Note: Inflation is the 12-month percent change in the personal consumption expenditures index.

Source: Bureau of Economic Analysis; Bureau of Labor Statistics; both via Haver Analytics.

Figure 2

Phillips Curve, 2021

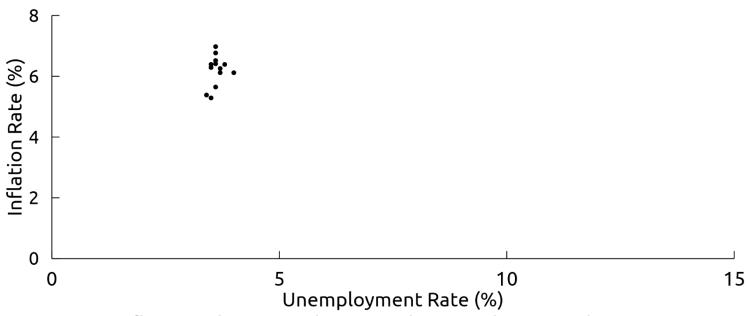


Note: Inflation is the 12-month percent change in the personal consumption expenditures index.

Source: Bureau of Economic Analysis; Bureau of Labor Statistics; both via Haver Analytics.

Figure 3

Phillips Curve, 2022-Present



Note: Inflation is the 12-month percent change in the personal consumption expenditures index.

Source: Bureau of Economic Analysis; Bureau of Labor Statistics; both via Haver Analytics.

Figure 4 – Unanchored Inflation Expectations

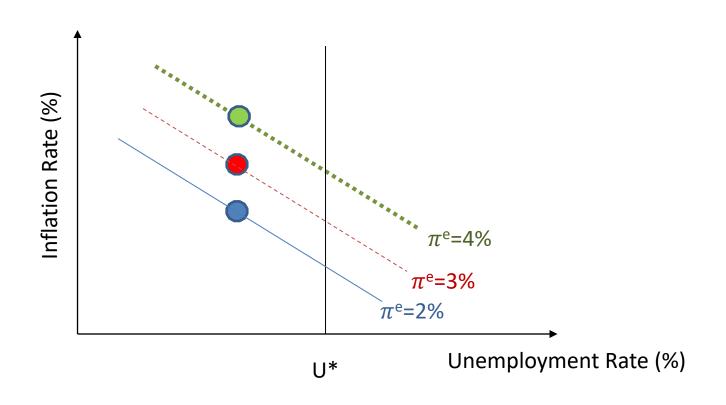


Figure 5 – Frequency of Price Changes

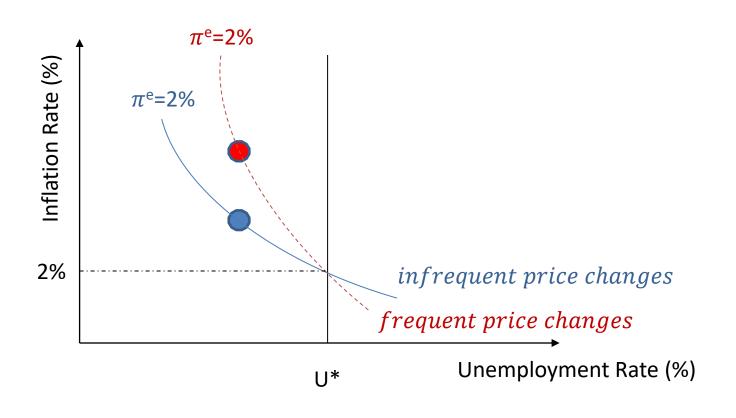
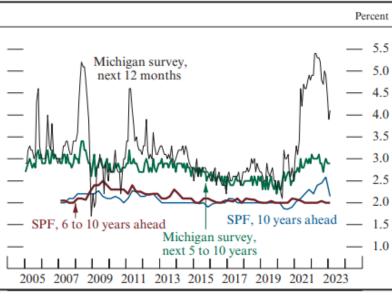


Figure 6 – Inflation Expectations

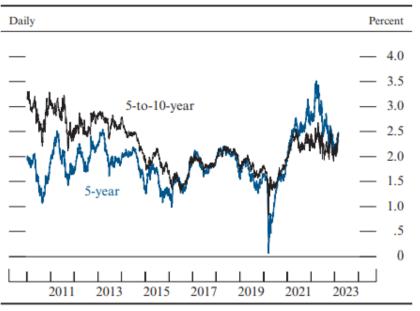
8. Measures of inflation expectations



Note: The Survey of Professional Forecasters (SPF) data are quarterly, begin in 2007:Q1, and extend through 2023:Q1. The data for the Michigan survey are monthly and extend through February 2023.

Source: University of Michigan Surveys of Consumers; Federal Reserve Bank of Philadelphia, SPF.

Inflation compensation implied by Treasury Inflation-Protected Securities

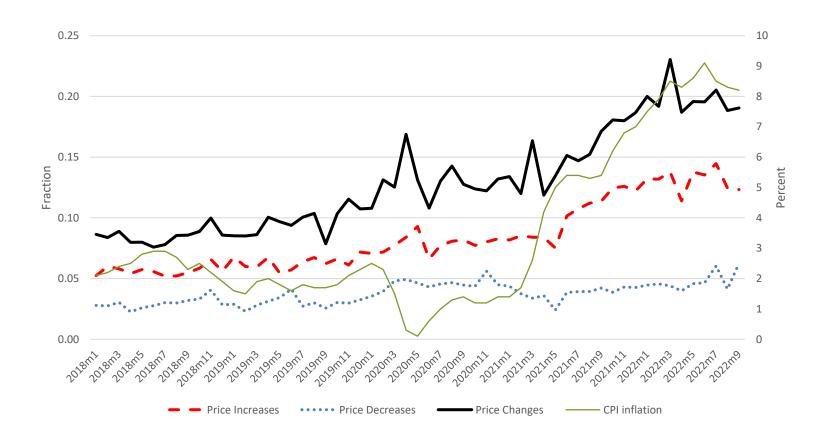


Note: The data are at a business-day frequency and are estimated from smoothed nominal and inflation-indexed Treasury yield curves.

Source: Federal Reserve Bank of New York; Federal Reserve Board staff calculations.

Source: Board of Governors of the Federal Reserve System, *Monetary Policy Report*, March 3, 2023. https://www.federalreserve.gov/monetarypolicy/files/20230303 mprfullreport.pdf

Figure 7 – Frequency of Price Changes



Note. CPI is consumer price index.

Source: Montag and Villar Vallenas (2023)