

Research Question

To what extent, if any, does the Federal Reserve's expansionary policy affect home prices?

Background

- Post COVID-19, the Housing Market emerged with less supply and higher prices.
- In response, the Federal Reserve mimicked its 2008 quantitative easing strategy to stimulate the economy and to maintain aggregate output.
- The quantitative easing strategy included the mass purchasing of Mortgage–Backed Securities, cutting interest rates, and expanding the money supply.
 - Mortgage-Backed Securities refers to repackaged mortgage debts sold by banks to investors in the secondary housing market.

Methodology & Model

Median Sales Price = $\beta_0 + \beta_1$ Construction Costs_i+ β_2 MBS Balance, + β_3 Asset Balance, + β_4 Listings, + β_5 Days Listed, + ε_1

Regression analysis was performed on a dataset of 92 monthly observations, starting January of 2017.

• Mortgage–Backed Securities is being used as an explanatory variable for investor confidence.

Limitations

- Data is limited to monthly observations.
- Dataset does not include 2008–2017 to allow for comparisons between the Great Recession and the Pandemic.

An Analysis of Federal Reserve Policy and the Cost of Housing DEVOE L. MOORE <u>Researchers: Joseph Duran – Alex De La Portilla – Alex Tapia</u> CENTER Mentor: Dr. Crystal Taylor





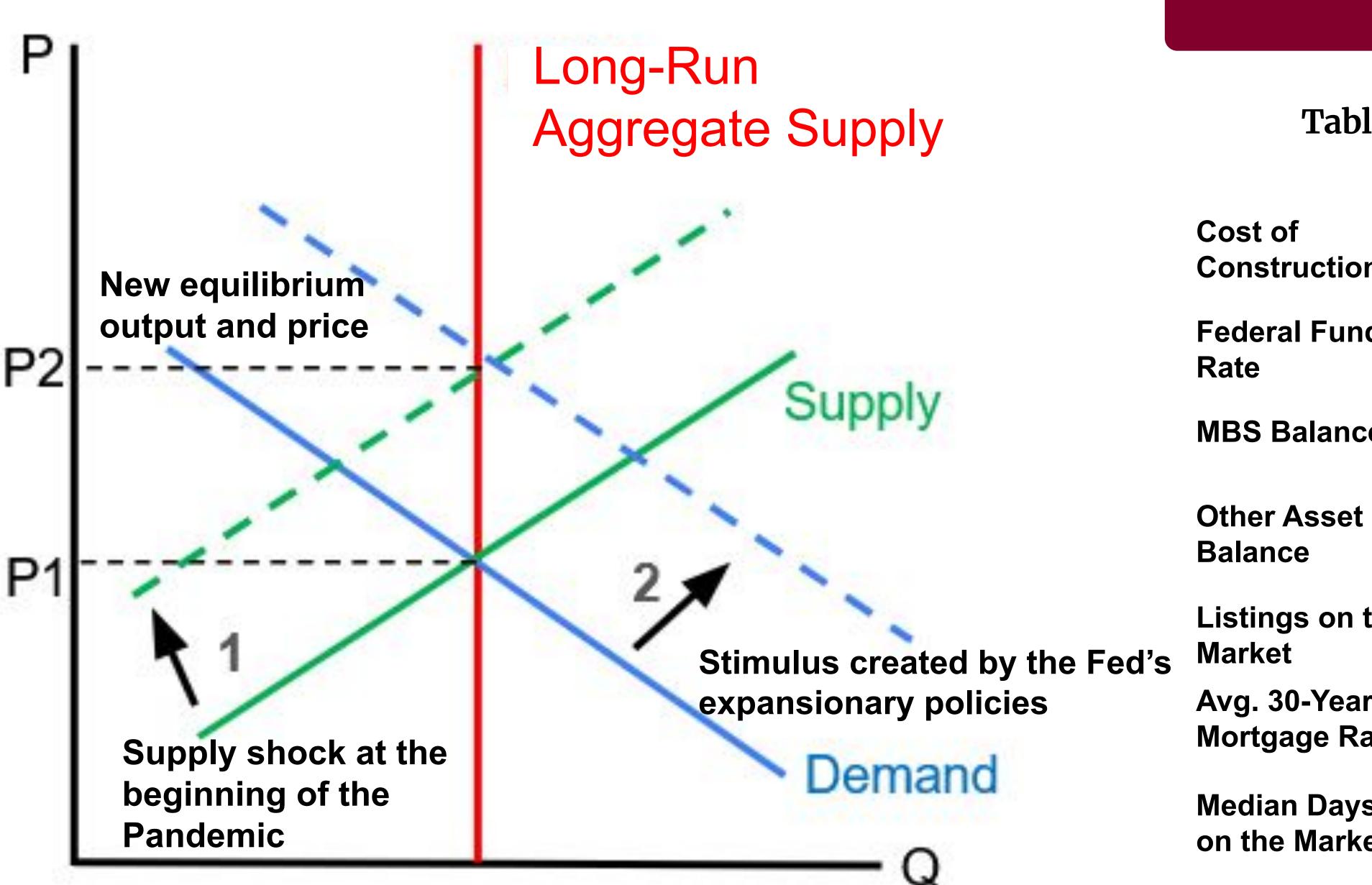


Figure 1: Explanation of interaction between national price levels and Federal Reserve Policy

- Every \$1 million in Mortgage–Backed Securities is associated with an \$0.061 increase in median sale price. • In November of 2024, The Federal Reserve owned \$2.26 in MBS. The estimated effect of this MBS balance on the
- median sales price of homes is an increase of \$137,860.

- Securities balance of the Federal Reserve as time passes.

Thank you to Dr. Crystal Tayor, Parker Ridaught, and the DeVoe L. Moore Center

Table 1

Construction

Federal Funds

MBS Balance

Listings on the

Avg. 30-Year Mortgage Rate

Median Days Lis on the Market

Cost of Oil

Seasonal Variat

Constant

Policy Implications and Future Research

• Though gradually decreasing their Mortgage–Backed Securities (MBS) balance since 2022, the Federal Reserve bought \$1.4 trillion in MBS since the pandemic.

• The Federal Reserve should continue to offload its Mortgage-Backed Securities assets and simultaneously increase interest rates to contract the economy back to equilibrium output. • Future research should continue to follow the housing market and the Mortgage-Backed

• Future policy research should also evaluate the impact of stronger rate cuts and the effectiveness of homeowner assistance programs to reduce the rates of foreclosures.

Preliminary Results

Initial Model	Selected Model
-525.587***	-519.123***
(175.146)	(132.124)
-11,638.770***	-11,502.790***
(3,141.659)	(2,917.985)
0.061***	0.055***
(0.017)	(0.018)
-0.035***	-0.035***
(0.005)	(0.005)
0.003	0.006
(0.013)	(0.014)
4,206.785	3,684.638
(4,095.941)	(4,113.952)
sted 330.054*	560.489***
(179.589)	(180.514)
-53.639	
(243.631)	
e 12,753.080***	

(3, 416.267)

508,356.900*** (29,902.980)

0.944

505,669.500*** (25, 855.200)

> 89 0.935

