The nominal GDP (NGDP) gap, a measure of unexpected changes in the dollar size of the US economy, is calculated as the percentage difference between the actual and the neutral levels of NGDP. The neutral level of NGDP, in turn, is a sum of all dollar incomes expected by households and businesses coming into a specific time period and is created using data from consensus forecasts. In the third quarter of 2021, the median NGDP gap rose to 0.70 percent, up from the previous quarter’s value of −0.02 percent.

The 0.70 percent NGDP gap means that the dollar size of the economy, $23.17 trillion, was close to the expected $23.01 trillion. Moreover, the 10th and 90th percentiles of the NGDP gap show that...
the gap was not significantly different from zero during this time, which implies that aggregate spending and dollar income were not materially different from their expected values and that monetary policy was largely neutral in the third quarter.

**A CLOSER LOOK AT THE NGDP GAP**

As noted, the NGDP gap requires an estimate of the neutral level of NGDP. The neutral level of NGDP is estimated by taking an average forecast of NGDP, or equivalent total nominal income, for a given quarter based on forecasts for that period from the preceding 20 quarters. The forecast data used here are taken from the Federal Reserve Bank of Philadelphia’s Survey of Professional Forecasters.

The NGDP gap measures the percentage difference between this average forecast and the actual level of NGDP. If the actual level of NGDP is significantly less than the neutral level, then monetary conditions are contractionary. If actual NGDP is significantly greater than the neutral level, then monetary conditions are expansionary.

The rationale for this understanding is twofold. First, members of the public make many economic decisions, such as whether to take out a mortgage or a car loan, on the basis of forecasts of their nominal income. Similarly, firms may finance with debt and commit to multiyear contracts on plants, raw materials, and labor on the basis of forecasts of their nominal income. Second, actual nominal incomes may turn out to be very different from what are expected and, as a result, may be disruptive for households and firms that are not able to quickly adjust their economic plans. These disruptions can be avoided by maintaining total nominal income or NGDP on the growth path expected by the public. In other words, the Federal Reserve should aim to close the NGDP gap in order to keep monetary conditions neutral.

To ensure robustness, I create a data series using real-time actual NGDP data (which are revised later). This series is called the *vintage NGDP gap*, and it contains initial-release NGDP data for each quarter that can be used to construct an NGDP gap. In other words, it shows the NGDP gap policymakers would have seen in real time, given the initial NGDP data. In addition, I cre-

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**Measures of NGDP, Q2 2021 vs. Q3 2021**

<table>
<thead>
<tr>
<th>MEASURE</th>
<th>Q2 2021</th>
<th>Q3 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual level of NGDP (trillions)</td>
<td>$22.74</td>
<td>$23.17</td>
</tr>
<tr>
<td>Median neutral level of NGDP (10th percentile, 90th percentile) (trillions)</td>
<td>$22.75 ($22.25, $23.30)</td>
<td>$23.01 ($22.49, $23.60)</td>
</tr>
<tr>
<td>Median NGDP gap (10th percentile, 90th percentile)</td>
<td>−0.02% (2.23%, −2.41%)</td>
<td>0.70% (3.04%, −1.79%)</td>
</tr>
</tbody>
</table>

Source: Survey of Professional Forecasters (database); Federal Reserve Bank of St. Louis, FRED (database), accessed July 29, 2021, https://fred.stlouisfed.org/
ate a second version of the NGDP gap, the *Blue Chip NGDP gap*, using the Blue Chip Economic Indicators instead of the Survey of Professional Forecasters. This measure provides a cross-check on the use of the latter source as a main indicator. Both the vintage NGDP gap and the Blue Chip NGDP gap can be downloaded from the NGDP gap webpage hosted by the Mercatus Center at George Mason University.¹

For more information on how the NGDP gap is constructed and how it may be used to understand policy, please see “The Stance of Monetary Policy: The NGDP Gap,”² a policy brief by David Beckworth.

ABOUT THE AUTHOR
David Beckworth is the director of the Program on Monetary Policy at the Mercatus Center at George Mason University and a former international economist at the US Department of the Treasury. His research focuses on monetary policy, and his work has been cited by the *Wall Street Journal*, the *Financial Times*, the *New York Times*, *Bloomberg Businessweek*, and the *Economist*. He has advised congressional staffers on monetary policy and has written for *Barron’s*, *Investor’s Business Daily*, the *New Republic*, the *Atlantic*, and *National Review*.

NOTES