

Brave-Butters-Kelley Indexes (BBKI)

Business Cycle Indexes and Monthly GDP Growth

March 2022

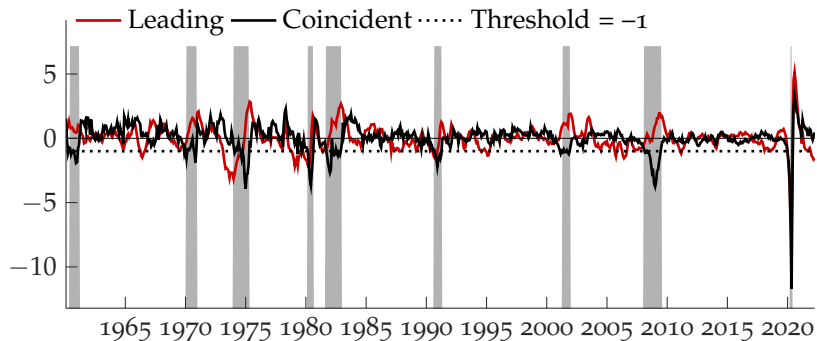
The Brave-Butters-Kelley (BBK) Coincident Index was 0.5 standard deviations from trend growth in March 2022, and the BBK Leading Index was -1.6 standard deviations from trend growth. In annualized real gross domestic product (GDP) units, BBK Monthly GDP Growth was 4.4% in March. The trend component contributed 2.3%, the cycle component contributed 1.5%, and the irregular component contributed 0.6%. The leading subcomponent contributed -3.2% and the lagging subcomponent contributed 4.8% to the cycle component of BBK Monthly GDP Growth.

The Coincident and Leading Indexes and Monthly GDP Growth for the U.S. are constructed from a collapsed dynamic factor analysis of a panel of [500 monthly measures of real economic activity](#) and quarterly real GDP growth. Monthly GDP Growth is indexed to the quarterly estimates from the U.S. Bureau of Economic Analysis and consists of three components: cycle, trend, and irregular components. The sum of the leading and lagging subcomponents of the cycle measured in standard deviation units from trend real GDP growth is the Coincident Index. Similarly, the leading subcomponent of the cycle is the Leading Index when measured in standard deviation units from trend real GDP growth.

Recent values	Mar '22	Feb	Jan	Dec '21	Nov	Oct
Coincident Index	0.5	0.1	-0.1	0.1	0.6	0.7
Leading Index	-1.6	-1.7	-1.5	-1.4	-1.0	-0.8
Cycle component	1.5	0.5	-0.4	0.5	2.1	2.4
Leading subcomponent	-3.2	-3.4	-3.0	-2.8	-2.0	-1.5
Lagging subcomponent	4.8	3.9	2.6	3.3	4.2	4.0
Trend component	2.3	2.3	2.3	2.3	2.3	2.3
Irregular component	0.6	-5.1	-7.7	-4.0	2.6	6.0
Monthly GDP Growth	4.4	-2.3	-5.8	-1.2	7.1	10.8

All values are in annualized real GDP growth-equivalent units with the exception of the Coincident and Leading Indexes, which are in standard deviation units from trend real GDP growth. Estimates of Monthly GDP Growth and its irregular component are not reported beyond the last quarter of available GDP data in either the table of recent values or Monthly GDP Growth figure. The values in the table may not total because of rounding.

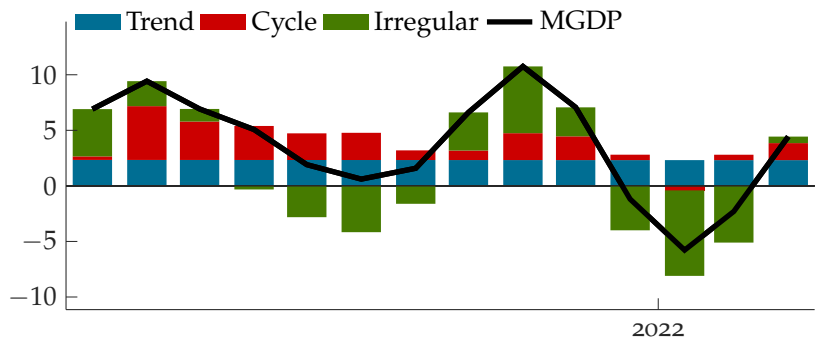
Business Cycle Indexes (standard deviations from trend)



The shaded regions in the Business Cycle Indexes figure indicate official periods of recession for the U.S. as identified by the National Bureau of Economic Research. The dashed line corresponds to the optimal threshold value described in "A 'big data' view of the U.S. economy: Introducing the Brave-Butters-Kelley Indexes." Coincident Index values below -1 have historically been associated with an elevated likelihood of a recession.

Current estimates are based on data as of April 28, 2022.

Monthly GDP Growth (annualized)



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Additional information and the latest data are available online, chicagofed.org/bbki. For more information, please contact Ross Cole at rcole@frbchi.org.