

Brave-Butters-Kelley Indexes (BBKI)

Business Cycle Indexes and Monthly GDP Growth

February 2020

The data through February were unlikely to have been affected much by the Covid-19 outbreak. Economic data for March will be incorporated in the next BBKI released on May 4, 2020.

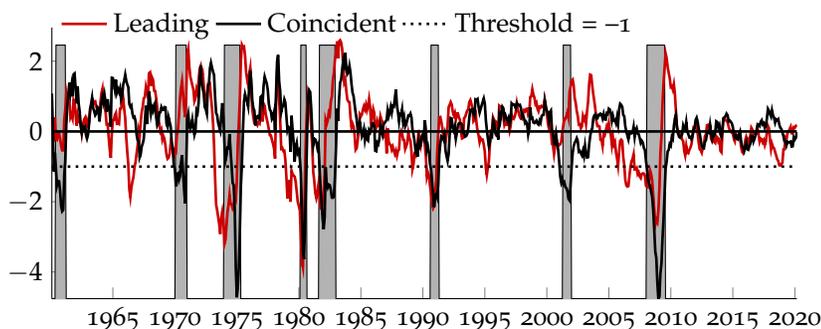
THE BRAVE-BUTTERS-KELLEY (BBK) COINCIDENT INDEX was 0.0 standard deviations from trend growth in February 2020, and the BBK LEADING INDEX was 0.2 standard deviations from trend growth. In annualized real gross domestic product (GDP) units, the trend component of BBK MONTHLY GDP GROWTH was 2.4% in February and the cycle component was 0.0%. The leading subcomponent contributed 0.1% and the lagging subcomponent contributed -0.1% 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	Feb '20	Jan	Dec '19	Nov	Oct	Sep
Coincident Index	0.0	-0.2	-0.2	-0.2	-0.4	-0.4
Leading Index	0.2	0.2	0.1	0.1	-0.1	-0.1
Cycle component	0.0	-0.4	-0.6	-0.4	-1.0	-1.0
Leading subcomponent	0.1	0.1	0.1	0.1	0.0	0.0
Lagging subcomponent	-0.1	-0.5	-0.6	-0.5	-1.0	-1.0
Trend component	2.4	2.4	2.4	2.4	2.4	2.4
Irregular component			0.2	0.4	0.6	0.6
Monthly GDP Growth			2.1	2.4	2.0	1.9

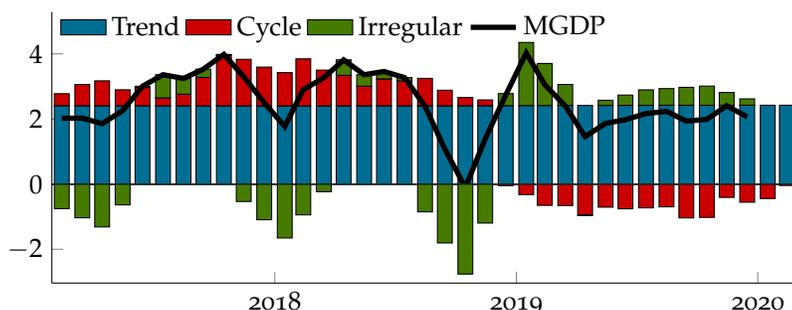
All values are in annualized real GDP growth-equivalent units with the exception of the Coincident and Leading Indexes, which are in standard deviation units from trend real GDP growth. The irregular component of Monthly GDP Growth cannot be estimated for a given month until quarterly real GDP is observed. Therefore, we do not report Monthly GDP Growth estimates beyond the last quarter of available GDP data. 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 values 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. Leading Index values below -1 have historically tended to signal an elevated likelihood of a recession eight months hence.

Monthly GDP Growth (annualized)



Current estimates are based on data as of March 27, 2020.

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Additional information and the latest data are available online, chicagofed.org/bbki.

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