

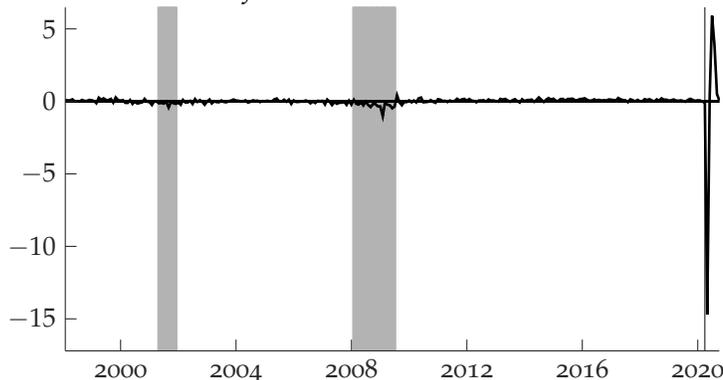
Detroit Economic Activity Index (DEAI)

September 2020

THE DETROIT ECONOMIC ACTIVITY INDEX (DEAI) was +0.06 in September 2020, down from +0.51 in August. For the third quarter of 2020, the DEAI was +7.64, up from -5.21 in the previous quarter. Detroit real gross city product (GCP) is projected to have increased 3.4% in 2019. According to recently released data from the U.S. Census Bureau, Detroit real per capita income increased by 12.2% in 2019.

The DEAI measures growth in economic activity for the city of Detroit using a mixed-frequency dynamic factor model of 24 Detroit-specific data series. An index value greater than zero points to above-trend growth, and conversely, a value less than zero points to below-trend growth. The index is then measured in standard deviation units from trend growth. The model also allows for projections of annual real gross city product and real per capita income.

Detroit Economic Activity Index
(standard deviations from trend)

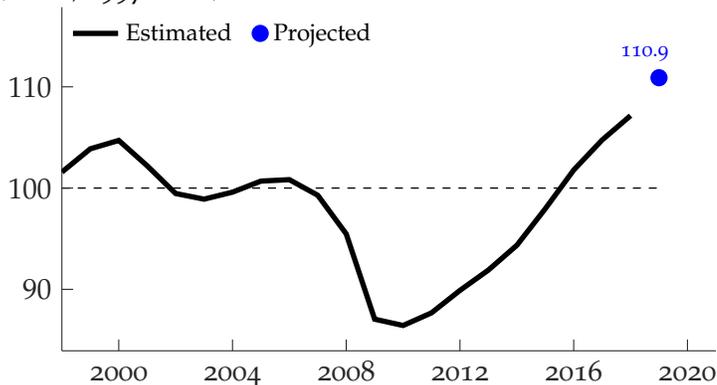


Recent values (September 2020)

	Monthly	Quarterly	Annual	
Sep	+0.06	Q3	+7.64	
Aug	+0.51			
Jul	+3.85			
Jun	+5.90	Q2	-5.21	
May	+0.36			
Apr	-14.71			
Mar	-0.06	Q1	+0.01	
Feb	-0.02			
Jan	+0.06			
Dec	+0.08	Q4	-0.18	
			2019	+1.02

Note: Quarterly and annual values are "triangle averaged" transformations of the monthly series.

Detroit real gross city product (GCP)
(index, 1997=100)

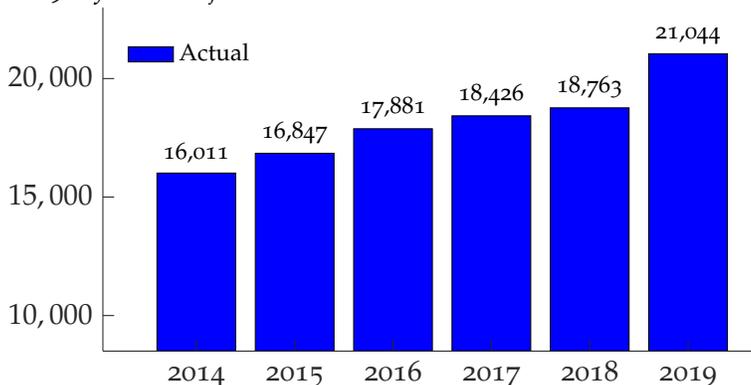


Recent contributions

Category	Sep	Aug	Jul	Q3
Income	0.00	0.00	0.00	-0.01
Labor	+0.02	+0.50	+3.56	+7.15
Real estate	+0.02	+0.01	+0.02	0.00
Trade	+0.02	0.00	+0.27	+0.51

The index can be decomposed into the contributions from each component data series. We group these series into four categories: income, labor, real estate, and trade. Included in the income category is gross metropolitan product (GMP) for the Detroit–Warren–Dearborn metropolitan statistical area (MSA), which is used in the estimation of Detroit GCP. For additional details, see "[Tracking Detroit's economic recovery after bankruptcy with a new index.](#)"

Detroit real per capita income
(2019 inflation-adjusted dollars)



The shaded periods in the first figure correspond to recessions as determined by the National Bureau of Economic Research; the vertical line indicates the most recent business cycle peak. *Actual* real per capita income data are from the U.S. Census Bureau, *American Community Survey* 1-year estimates.

**FEDERAL RESERVE BANK
OF CHICAGO**

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