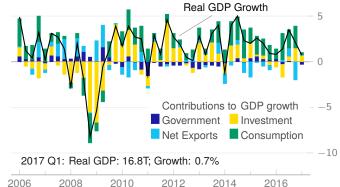
Updated: May 15, 2017

First guarter U.S. economic growth slowed considerably from lower consumption spending, despite an improvement in exports. The unemployment rate is gradually nearing its long-run full-capacity level. Inflation is around two percent in both the core CPI and the full index, with no expected acceleration. Elevated consumer confidence and P/E ratios, with near long-term low equity market volatility, show an extraordinary level of optimism. The yield curve for government debt has flattened while the dollar remains strong.

Economic Growth and Employment

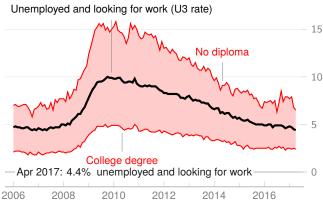
Real Gross Domestic Product (GDP)

(Quarterly percent change, seasonally-adjusted annual rate)



2014 2016 FRED: GDPC1; GCEC1; GPDIC1; NETEXC; PCECC96

Civilian unemployment rate (percent)

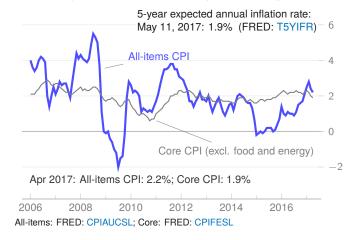


FRED: UNRATE; LNS14027659; LNS14027662

FRED: CPI Indexes

Inflation and Prices

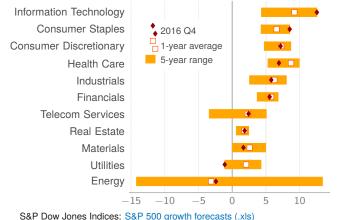
Consumer price index (CPI) (annual percent change)



CPI components (annual percent change) Energy Transportation Housing Healthcare Other goods & serv Recreation Food & Beverage 10-year average Apr 2017 Apparel Mar 2017 Education 12 10

Markets, Interest Rates, and Other Indicators

S&P 500 Reported Earnings per Share by Industry



Recent market developments and other key indicators

	(one month	one year	as 01.
S&P 500 index	2390.90	▲ 2.7%	▲ 15.8%	2017-05-12
CBOE volatility index (VIX)	10.40	▼ -34.8%	▼ -27.8%	2017-05-12
Bank deposit interest rate	0.17%	0.00	▲ 0.06	Apr 2017
3-month treasury bill yield	0.88%	▲ 0.07	▲ 0.64	2017-05-12
2-year treasury bond yield	1.29%	▲ 0.08	▲ 0.57	2017-05-12
10-year treasury bond yield	2.33%	▲ 0.09	▲ 0.56	2017-05-12
30-year mortgage rate	4.05%	▼ -0.03	▲ 0.48	2017-05-11
US Dollar, broad index	124.36	▲ 0.0%	▲ 3.0%	May 2017
Crude oil, US\$/barrel	\$47.82	▼ -9.6%	▲ 3.1%	2017-05-12
Industrial production index	104.1	▲ 0.5%	▲ 1.5%	Mar 2017
Consumer confidence index	97.0	▲ 0.1%	▲ 9.0%	Apr 2017
Detrieved from EDED ODOE Overall and University of Michigan				

Retrieved from FRED, CBOE, Quandl, and University of Michigan