

Brown Sugar:

Deriving Satisfaction through Data Analysis

By: Anirban Basu
Sage Policy Group, Inc.

April 19th, 2018

On Behalf of

ABC Rocky Mountain Chapter Economic
Forecast with Anirban Basu



*Disclaimer: Any resemblance
between the presentation's title
and the speaker is purely coincidental.*



Get off of My Cloud

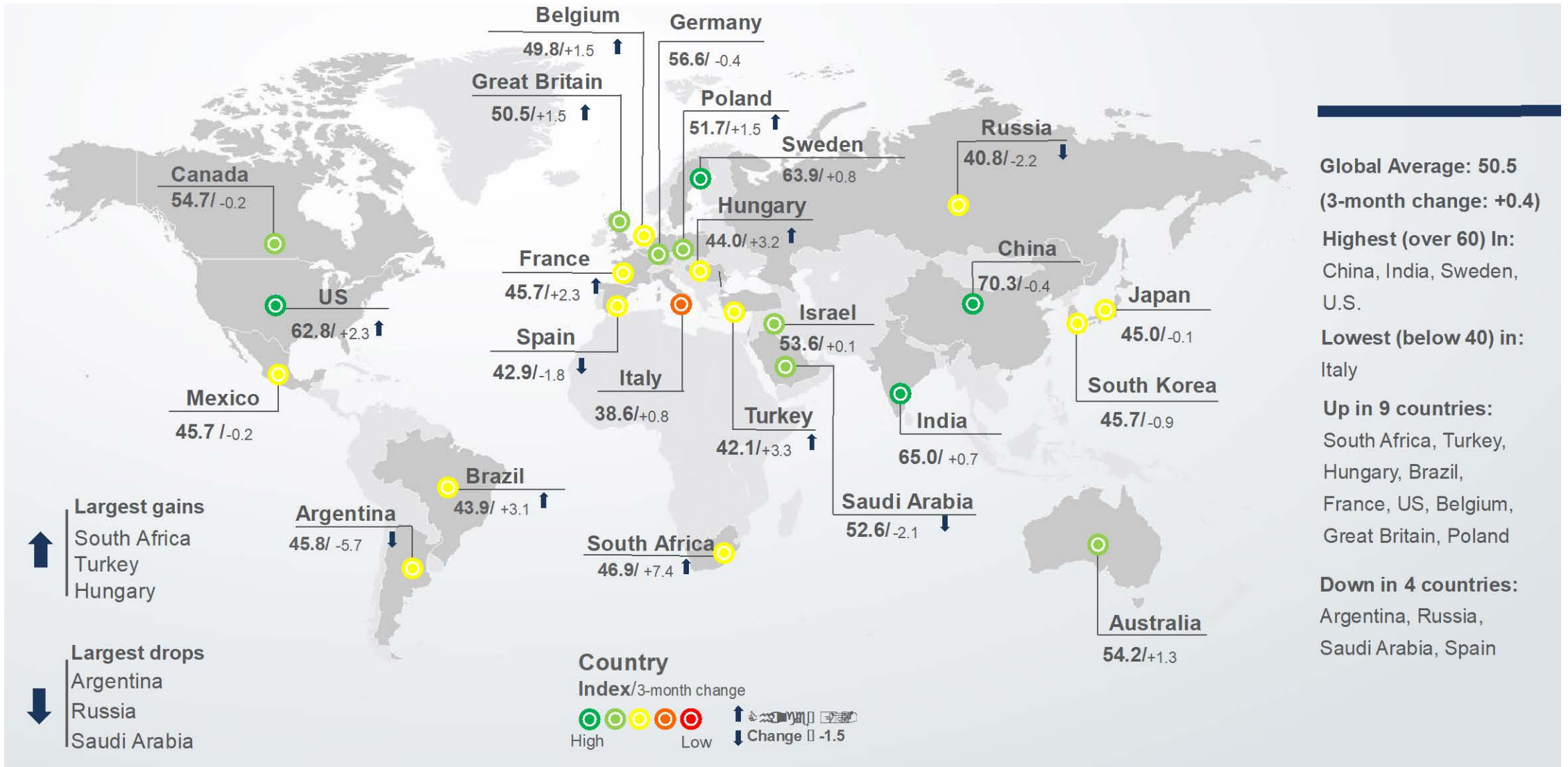


Sage Policy
Group, Inc.



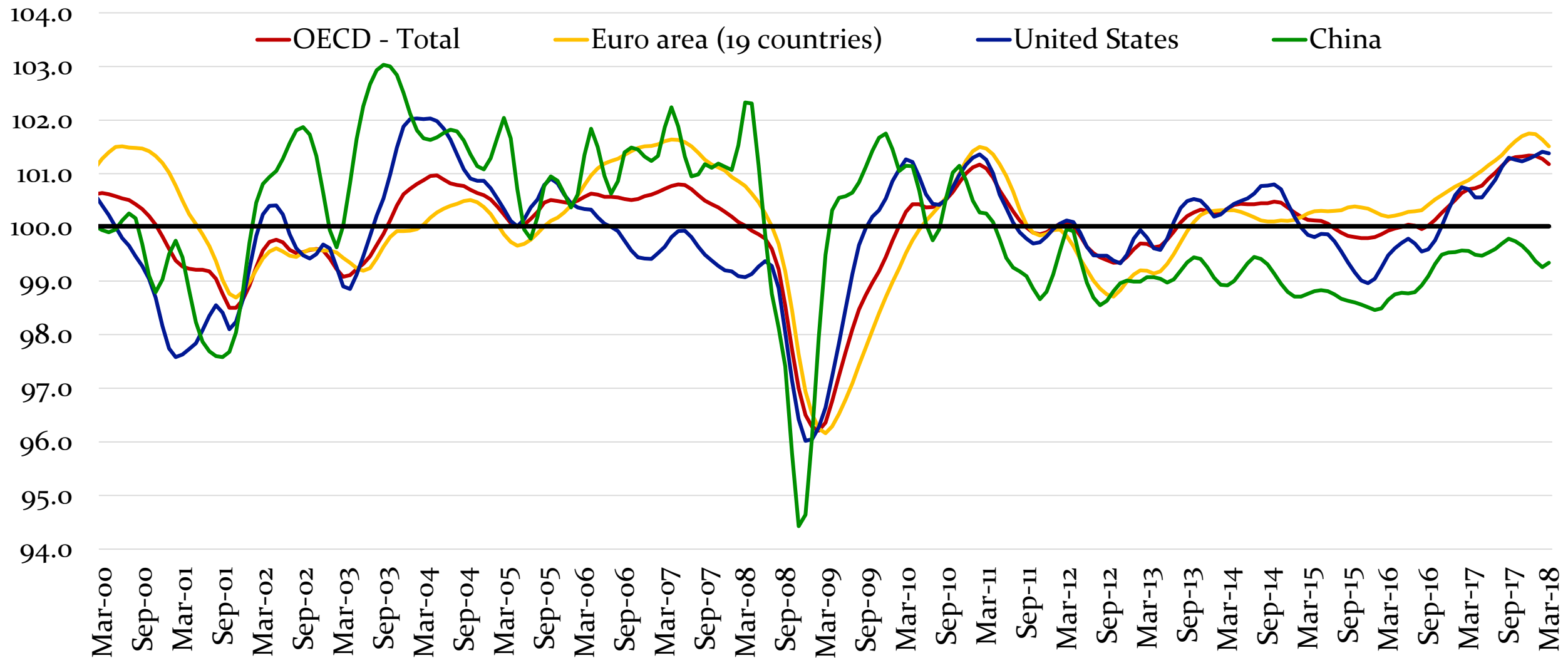
Rocky Mountain
Chapter

IPSOS Global Confidence Index, March 2018



OECD Business Confidence Index –Select Regions/Countries

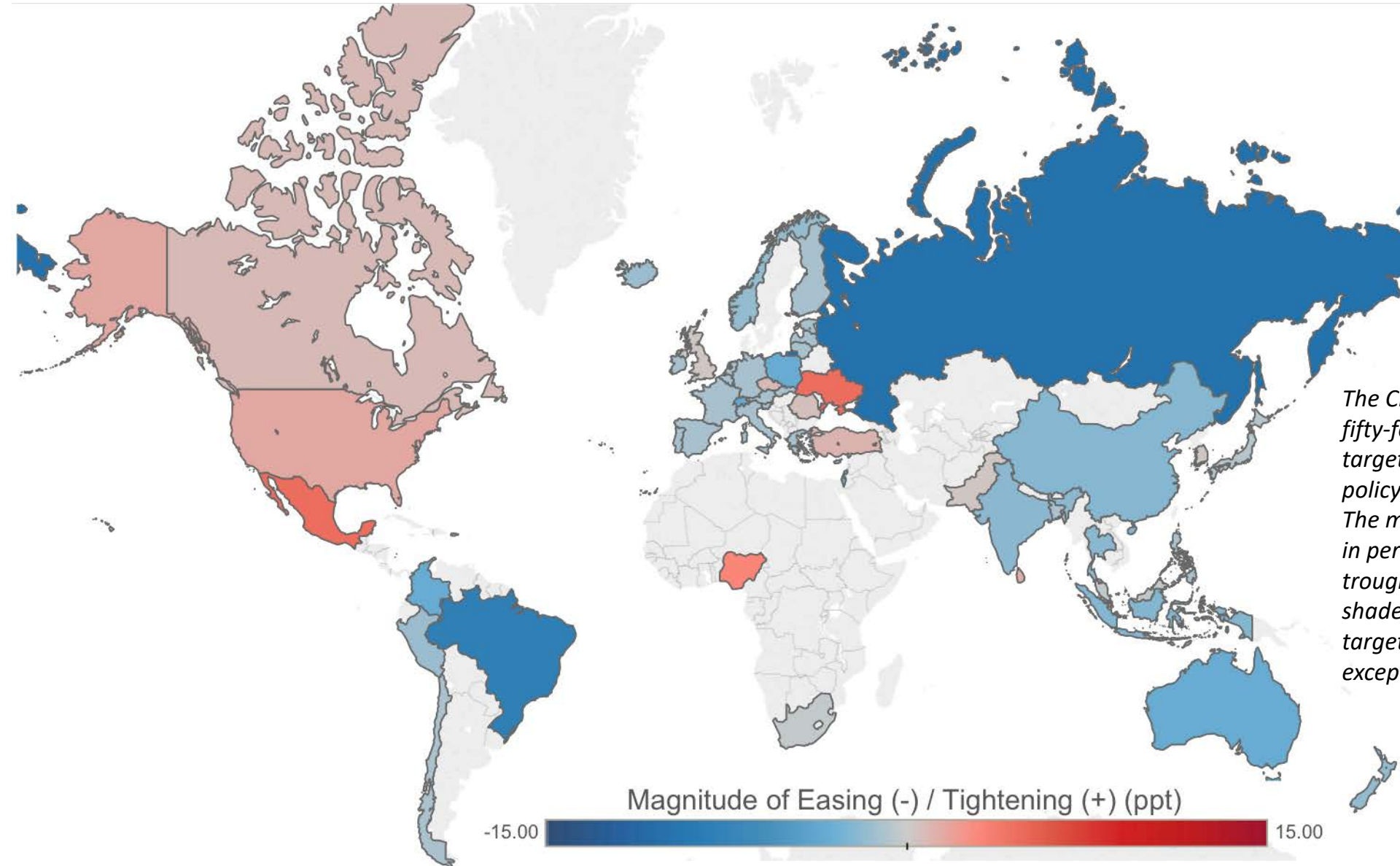
March 2000 - March 2018



The business confidence index (BCI) is based on enterprises' assessment of production, orders and stocks, as well as its current position and expectations for the immediate future. Opinions compared to a "normal" state are collected and the difference between positive and negative answers provides a qualitative index on economic conditions. Source: OECD

Global Monetary Policy Tightening/Easing

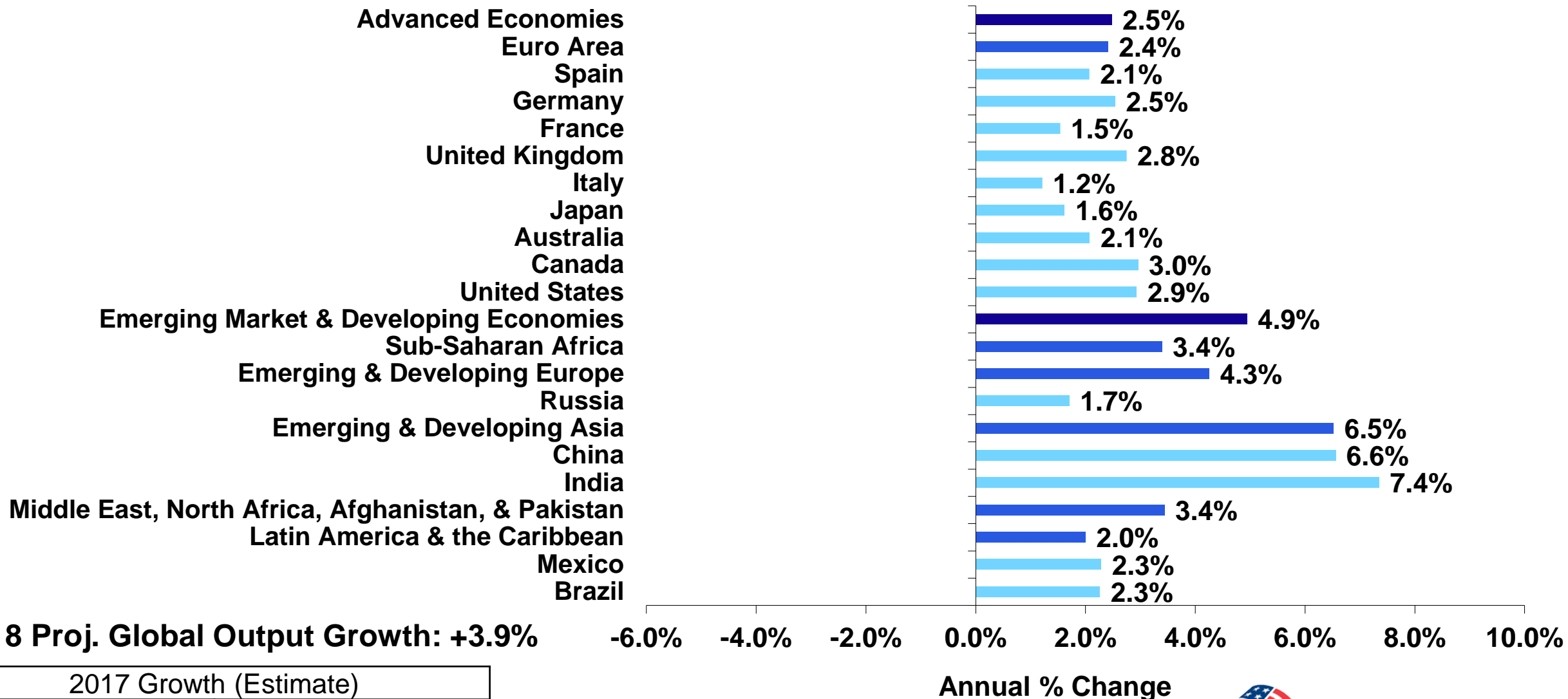
As of March 2018



The CFR Global Monetary Policy Tracker covers fifty-four large countries—mainly those that target inflation in some manner. Tightening policy is indicated in red, loosening in blue. The more a country has raised (lowered) rates, in percentage points, from the most recent trough (peak) in its policy rate, the darker the shade of red (blue). Generally, the policy rate target is the overnight interbank rate, with exceptions indicated.

Estimated Growth in Output by Select Global Areas

2018 Projected



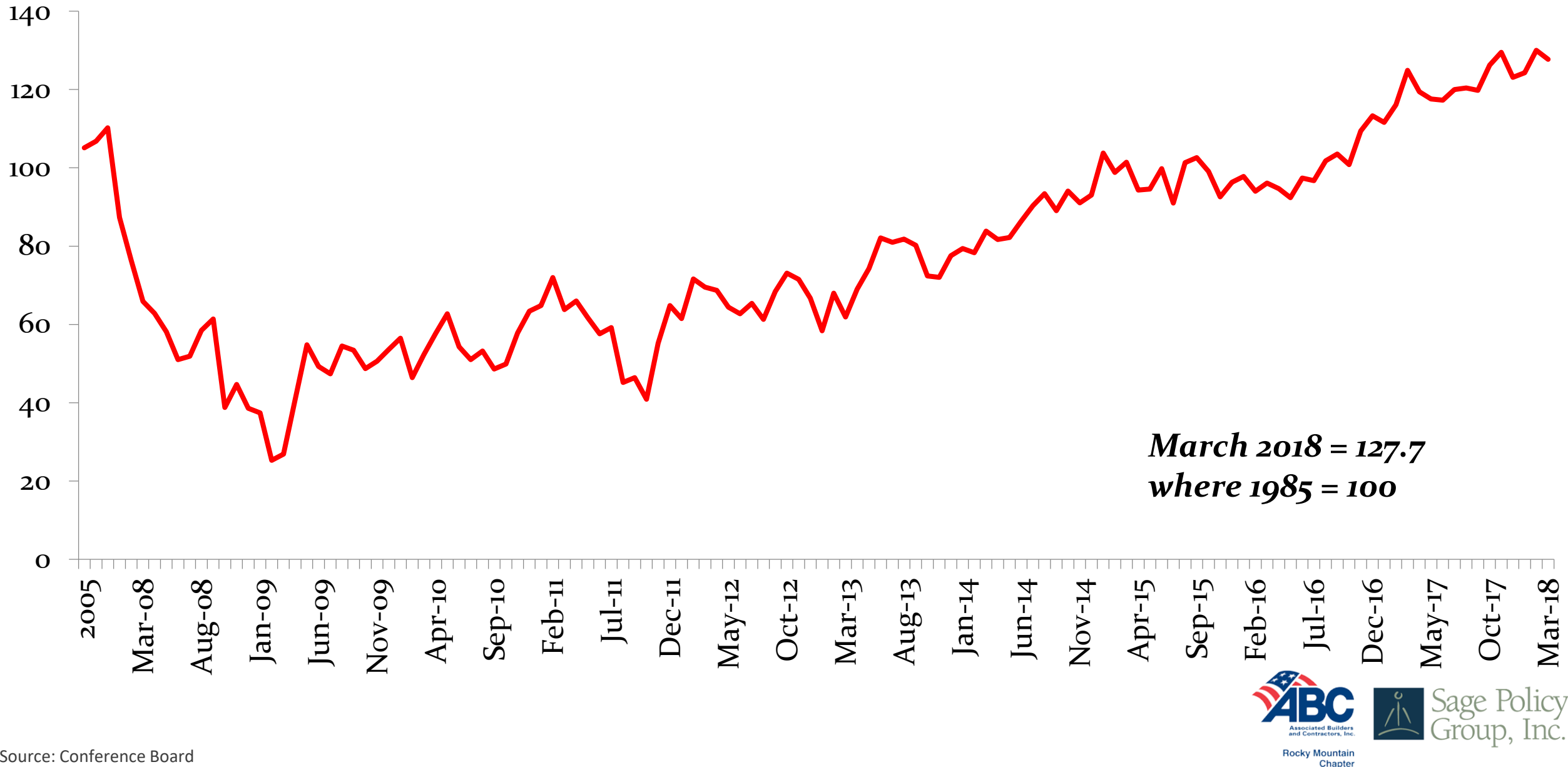
2017 Growth (Estimate)	
World: 3.8%	Euro Area: 2.3%
United States: 2.3%	Japan: 1.7%

Start Me Up

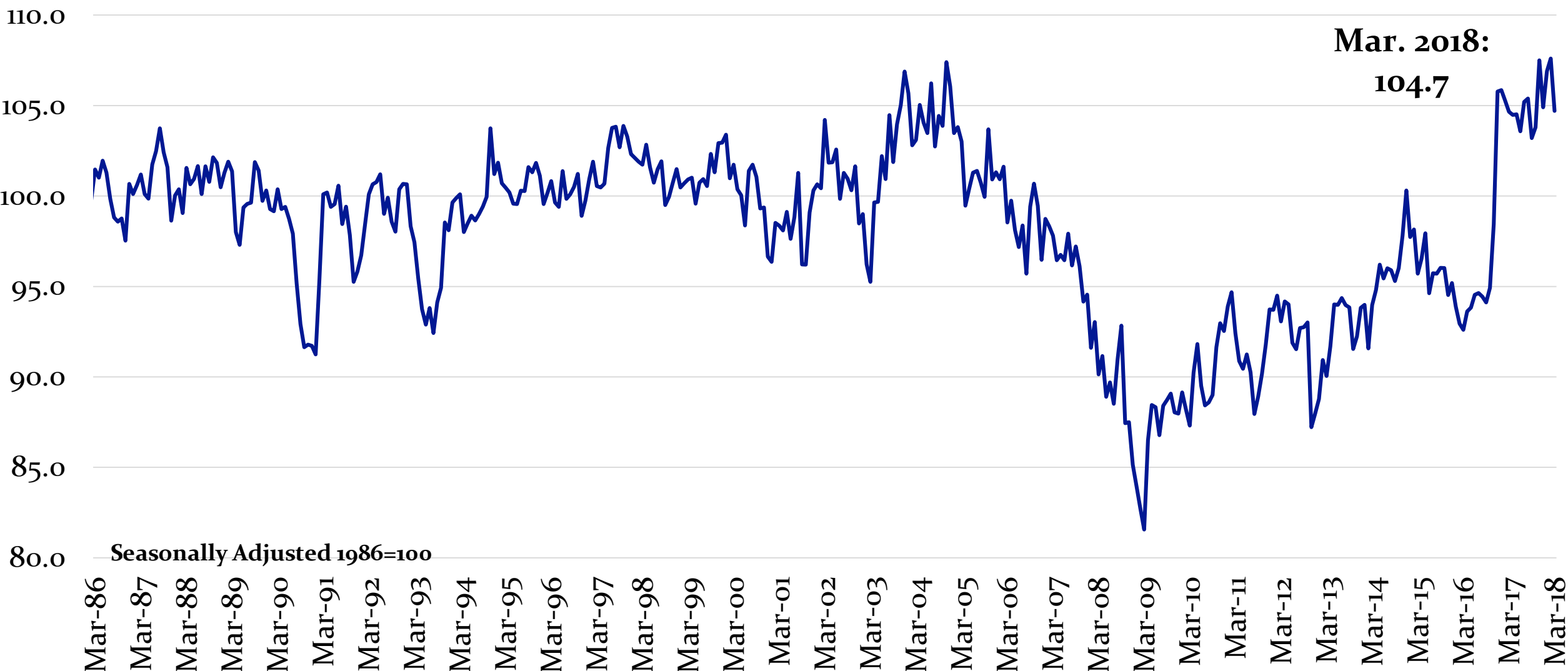


Conference Board Consumer Confidence Index

2005 – March 2018



NFIB Index of Small Business Optimism, 1986-2018



Mar. 2018:
104.7

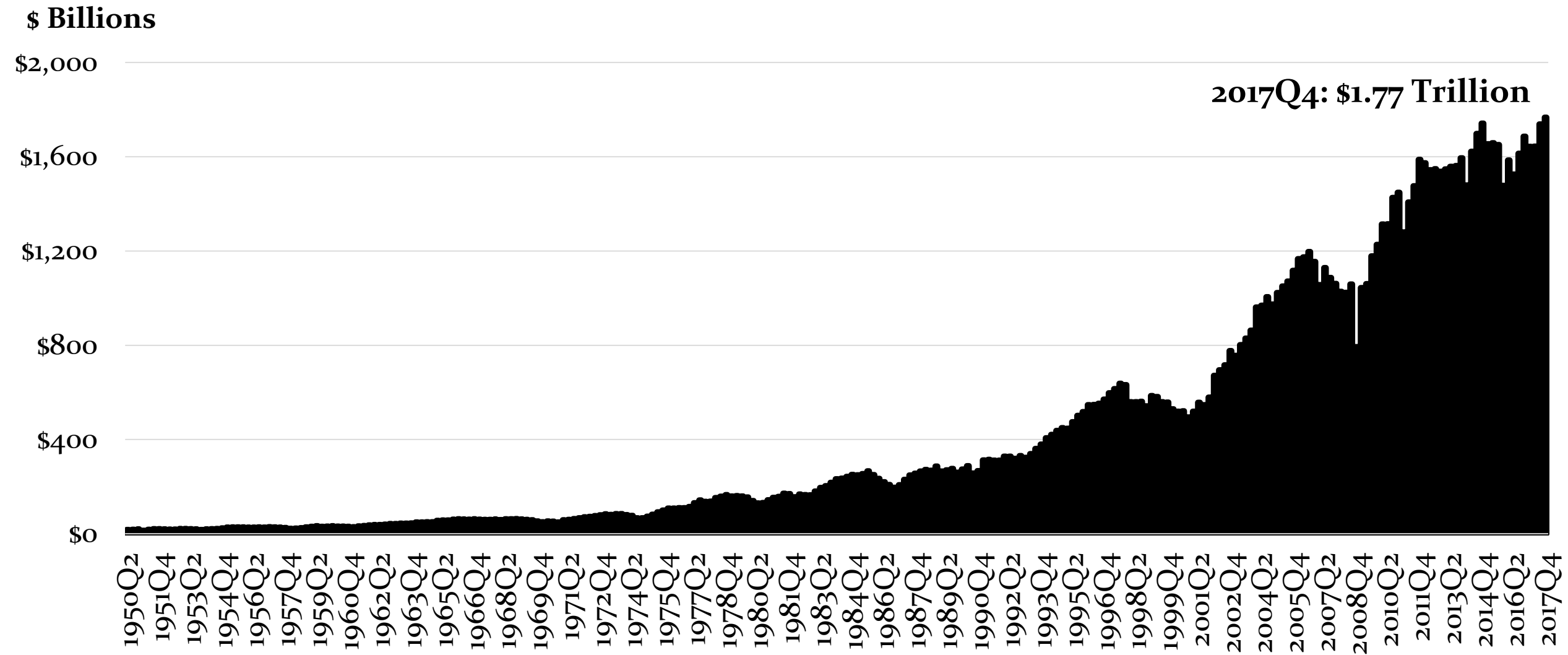
Seasonally Adjusted 1986=100



Source: National Federation of Independent Business (NFIB)

Paint It Black – Corporate Profits

*U.S. Corporate Profits After Tax**

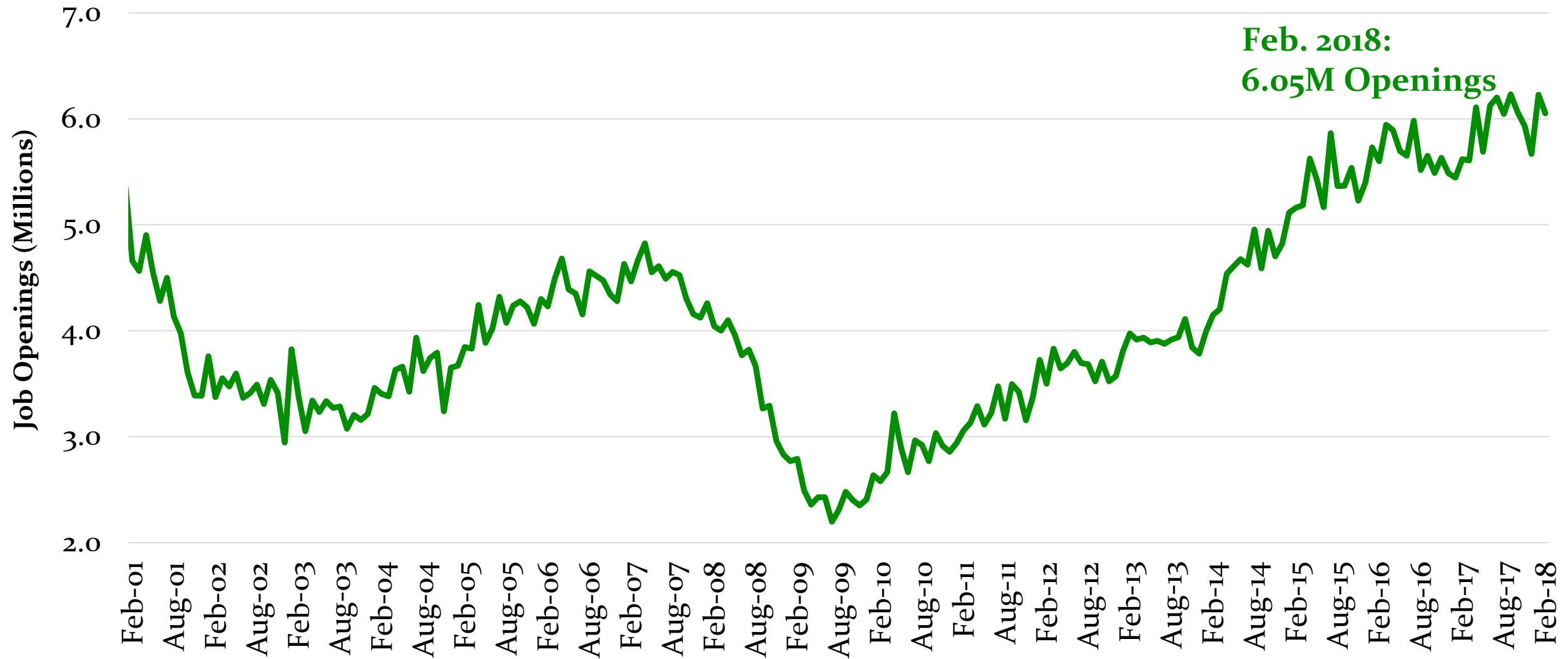


Source: U.S. Bureau of Economic Analysis *With Inventory Valuation Adjustment (IVA) and Capital Consumption Adjustment (CCAdj); Seasonally Adjusted Annual Rate



U.S. Job Openings

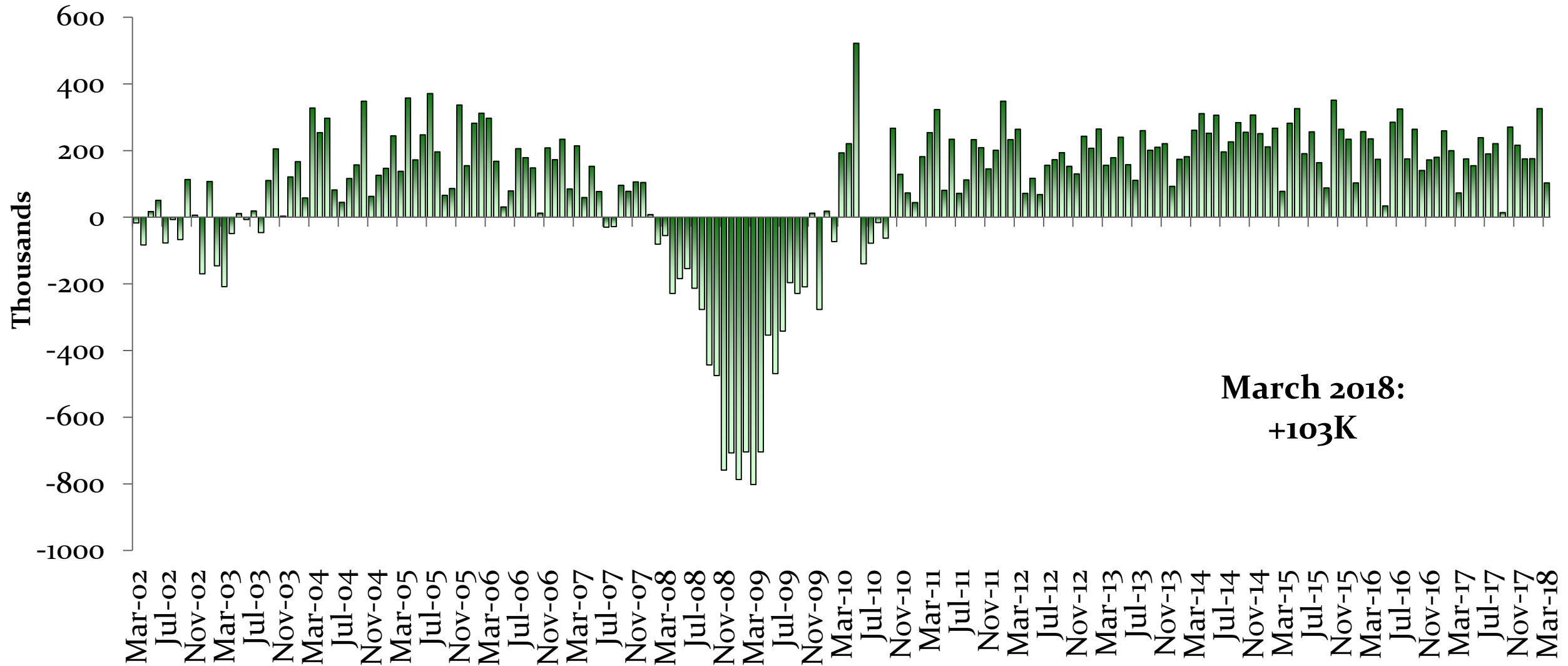
February 2001 through February 2018



Feb. 2018:
6.05M Openings

Net Change in U.S. Jobs

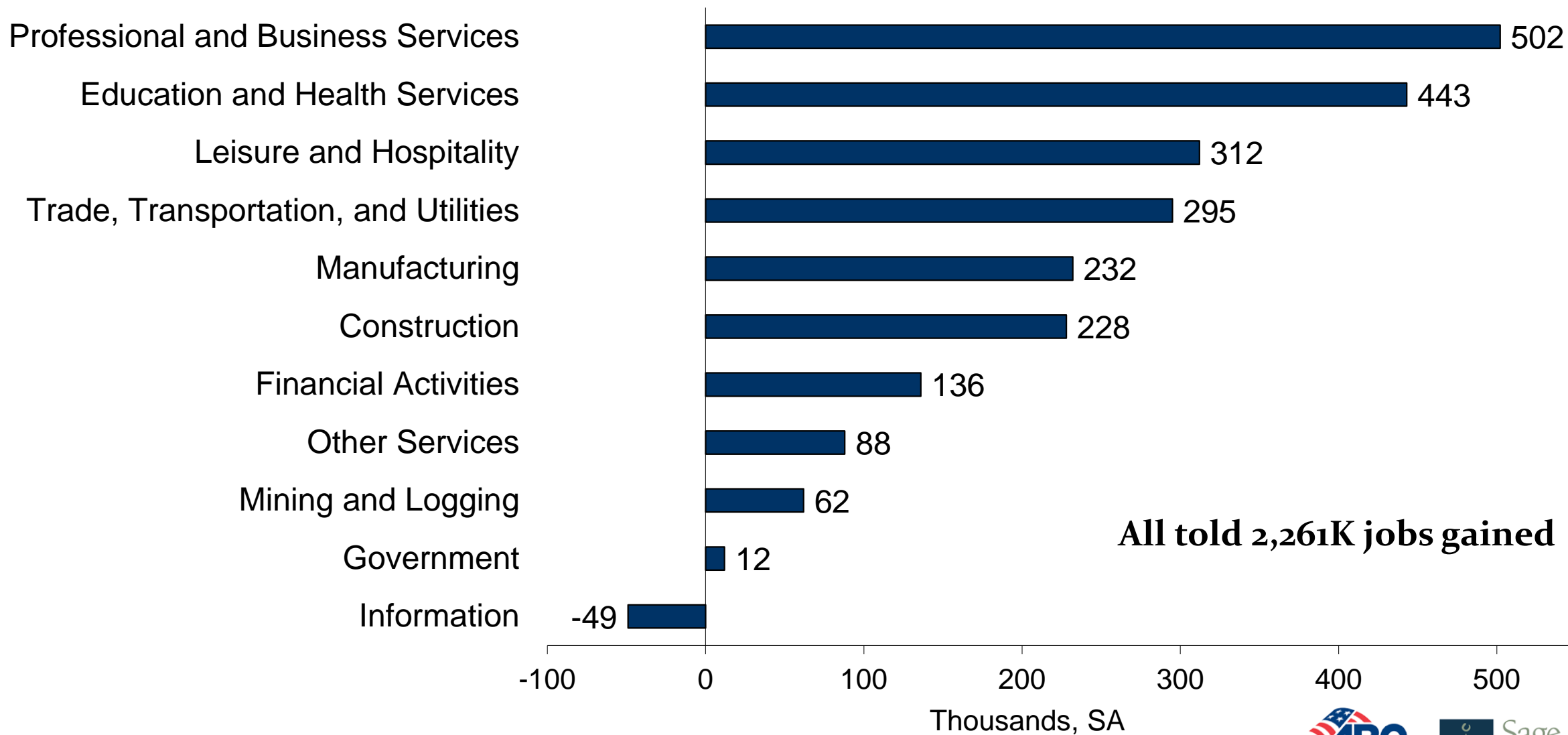
March 2002 through March 2018



March 2018:
+103K

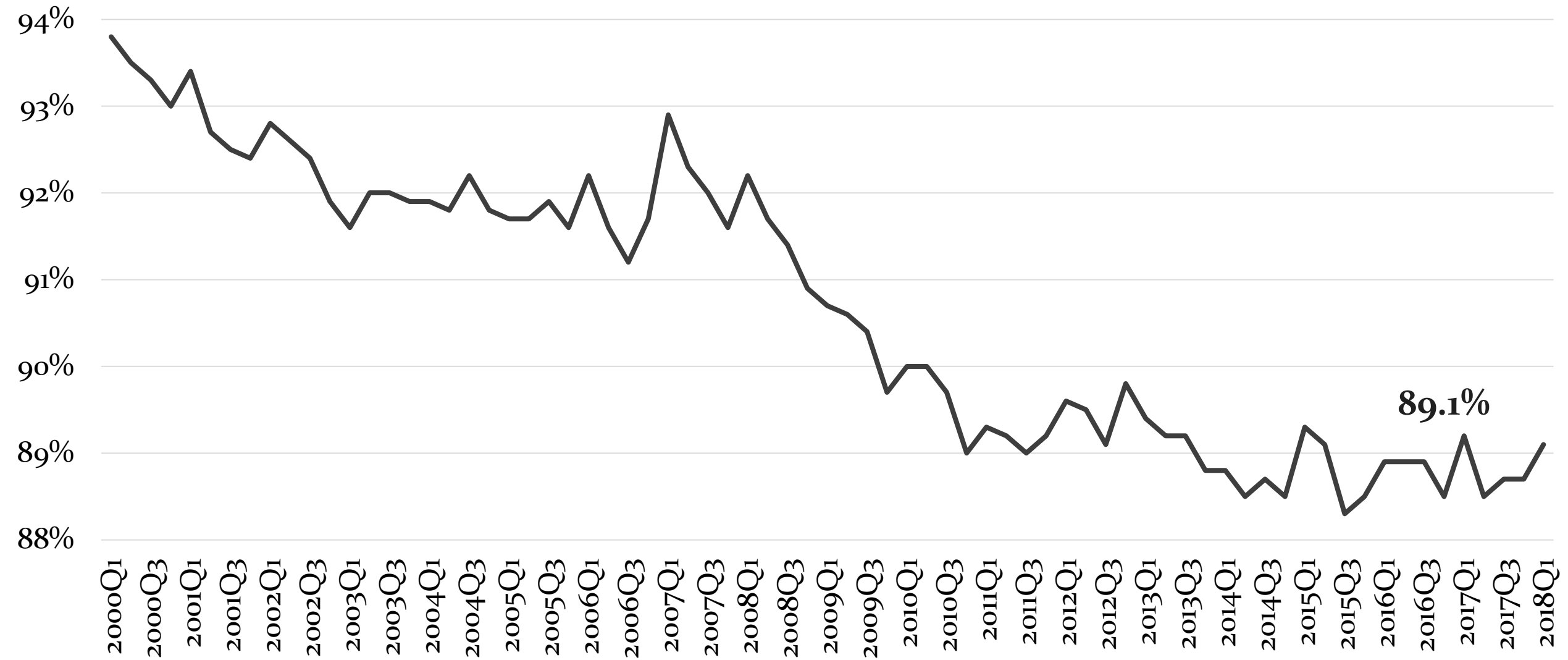
National Nonfarm Employment

by Industry Sector, March 2017 v. March 2018



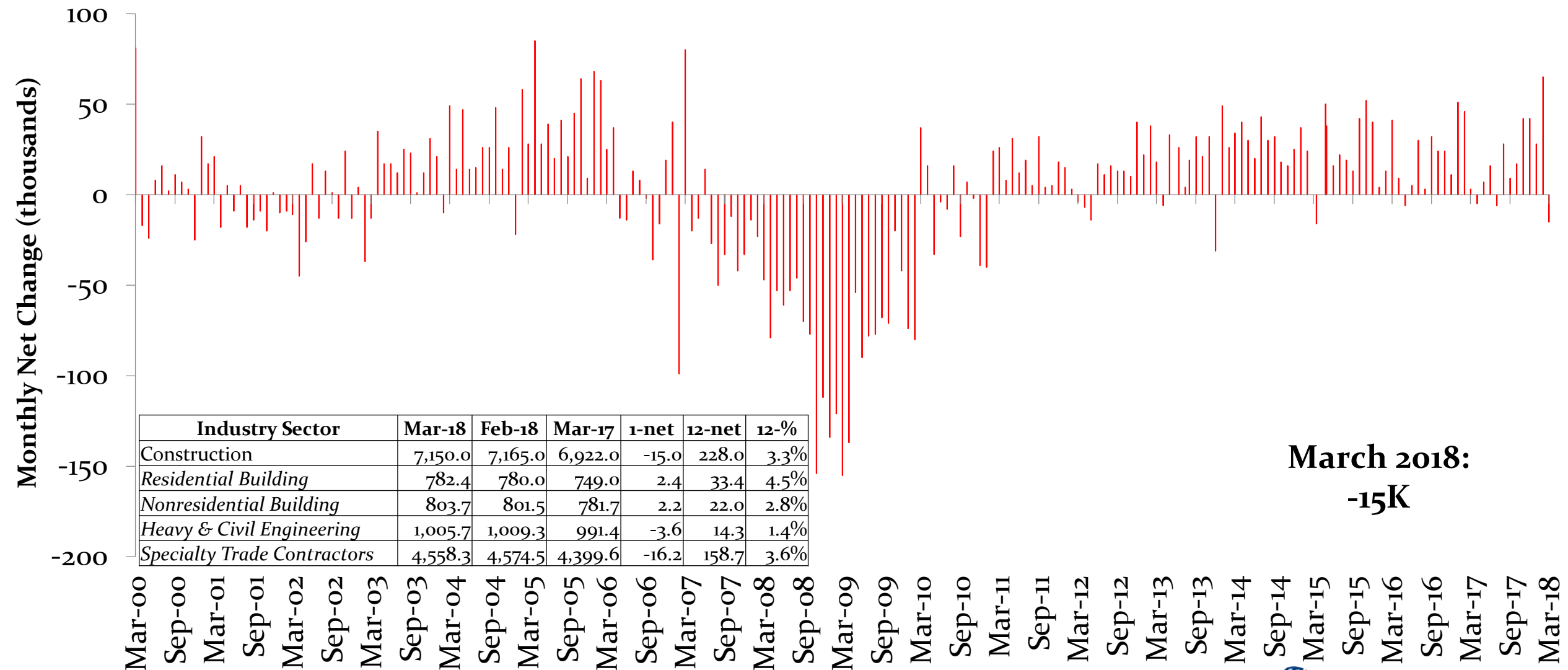
U.S. Labor Force Participation: Men Ages 25-34

2000 – 2018



National Construction Employment

Monthly Net Change March 2000 through March 2018



State-by-state Growth in Construction Jobs

February 2017 v. February 2018

State	YOY Change ('000)	State	YOY Change ('000)	State	YOY Change ('000)
CALIFORNIA	74.0	WEST VIRGINIA	4.3	HAWAII*	0.2
TEXAS	33.9	NORTH CAROLINA	4.2	ALABAMA	0.1
FLORIDA	31.7	IDAHO	4.1	VERMONT	0.0
ARIZONA	13.0	NEW MEXICO	4.0	CONNECTICUT	-0.1
WASHINGTON	12.6	MINNESOTA	3.3	ALASKA	-0.2
COLORADO	11.4	OKLAHOMA	2.7	ARKANSAS	-0.2
MICHIGAN	11.0	ILLINOIS	2.6	MAINE	-0.2
NEW YORK	11.0	WISCONSIN	2.6	MONTANA	-0.3
PENNSYLVANIA	10.8	TENNESSEE*	1.9	WYOMING	-0.3
MASSACHUSETTS	10.7	SOUTH CAROLINA	1.5	LOUISIANA	-1.2
GEORGIA	10.2	MISSISSIPPI	1.4	NEW JERSEY	-1.2
NEVADA	8.9	NEW HAMPSHIRE	1.1	NEBRASKA*	-2.2
VIRGINIA	7.7	DELAWARE*	1.1	KENTUCKY	-2.3
UTAH	7.5	DISTRICT OF COLUMBIA*	0.6	KANSAS	-3.3
OREGON	7.4	RHODE ISLAND	0.4	MISSOURI	-4.0
INDIANA	7.0	MARYLAND*	0.4	NORTH DAKOTA	-4.8
OHIO	6.1	SOUTH DAKOTA*	0.4	IOWA	-6.7

U.S. Year-over-year Net Change

Feb: +246K Mar: +228K

Source: U.S. Bureau of Labor Statistics

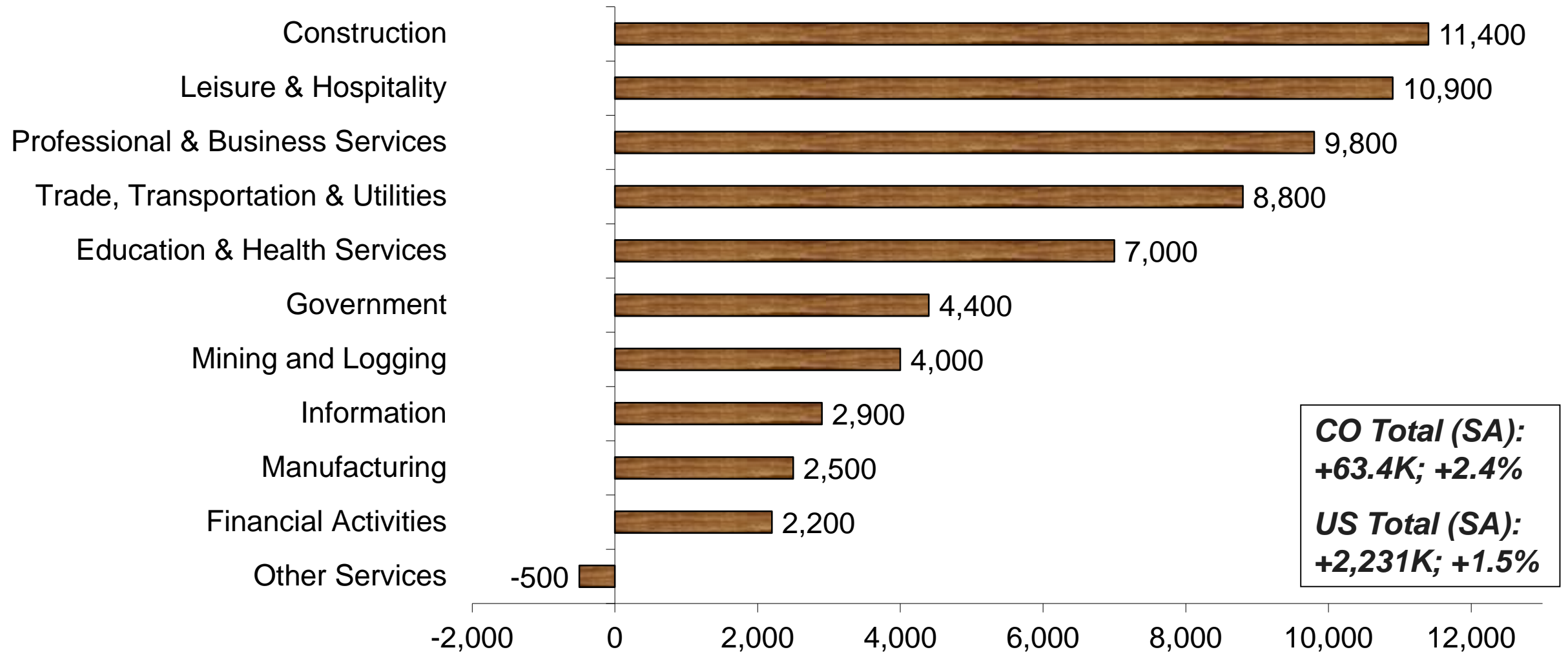
*Construction, Mining, and Logging are included in one industry.



Colorado Nonfarm Employment

by Industry Sector Groups (SA)

February 2017 v. February 2018 Absolute Change

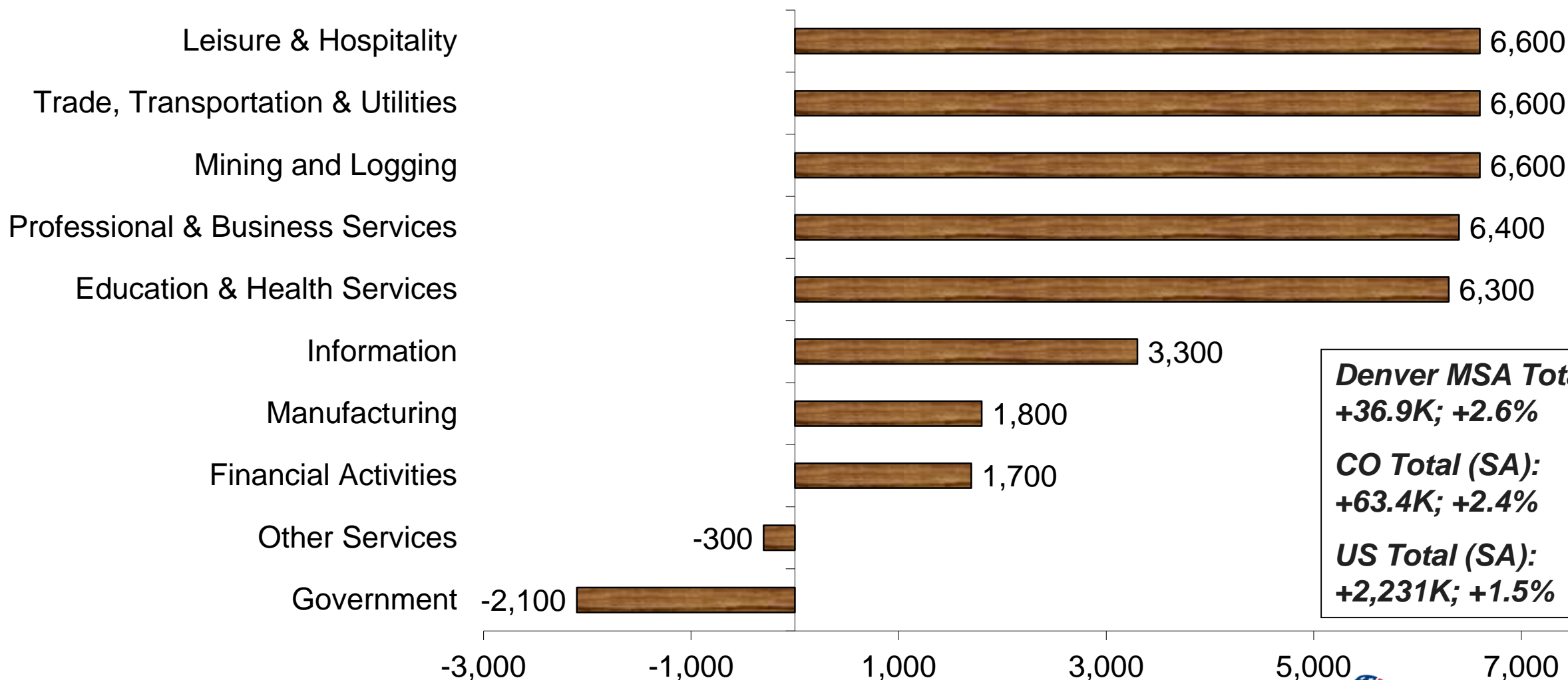


*According to the Local Area Unemployment Statistics (LAUS) series
CO added 83,776 jobs between February 2017 and February 2018.

Denver-Aurora-Lakewood, CO Nonfarm Employment

by Industry Sector Groups (SA)

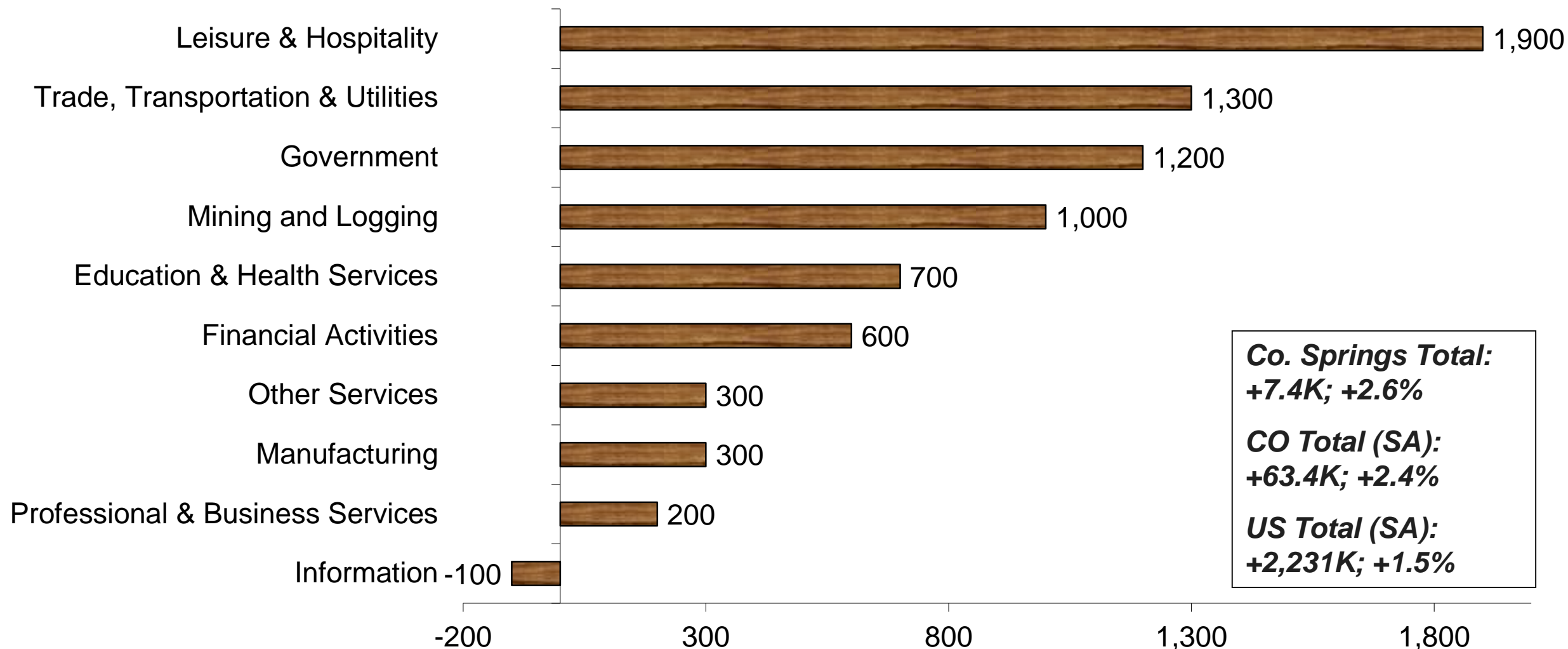
February 2017 v. February 2018 Absolute Change



Colorado Springs, CO Nonfarm Employment

by Industry Sector Groups (SA)

February 2017 v. February 2018 Absolute Change



Employment Growth, U.S. States (SA)

February 2017 v. February 2018 Percent Change

RANK	STATE	%	RANK	STATE	%	RANK	STATE	%
1	IDAHO	3.4	18	HAWAII	1.4	34	ILLINOIS	0.8
2	NEVADA	3.2	18	NEW HAMPSHIRE	1.4	34	OHIO	0.8
2	UTAH	3.2	18	NEW MEXICO	1.4	37	MINNESOTA	0.7
4	WASHINGTON	2.9	18	PENNSYLVANIA	1.4	37	WISCONSIN	0.7
5	COLORADO	2.4	18	SOUTH DAKOTA	1.4	39	IOWA	0.6
6	ARIZONA	2.3	23	RHODE ISLAND	1.3	39	MAINE	0.6
6	CALIFORNIA	2.3	24	MICHIGAN	1.2	41	CONNECTICUT	0.5
6	OREGON	2.3	24	MISSISSIPPI	1.2	41	KANSAS	0.5
6	TEXAS	2.3	24	NEW YORK	1.2	43	KENTUCKY	0.4
10	FLORIDA	2.0	27	MASSACHUSETTS	1.1	44	ARKANSAS	0.2
10	GEORGIA	2.0	27	MONTANA	1.1	44	NEBRASKA	0.2
12	OKLAHOMA	1.9	29	INDIANA	1.0	46	MARYLAND	0.1
13	WYOMING	1.7	29	MISSOURI	1.0	46	VERMONT	0.1
14	NORTH CAROLINA	1.6	29	WEST VIRGINIA	1.0	48	LOUISIANA	0.0
14	SOUTH CAROLINA	1.6	32	DISTRICT OF COLUMBIA	0.9	49	DELAWARE	-0.1
16	NEW JERSEY	1.5	32	VIRGINIA	0.9	50	ALASKA	-0.4
16	TENNESSEE	1.5	34	ALABAMA	0.8	51	NORTH DAKOTA	-1.6

U.S. Year-over-year Percent Change: +1.5%



Unemployment Rates, 25 Largest Metros (NSA)

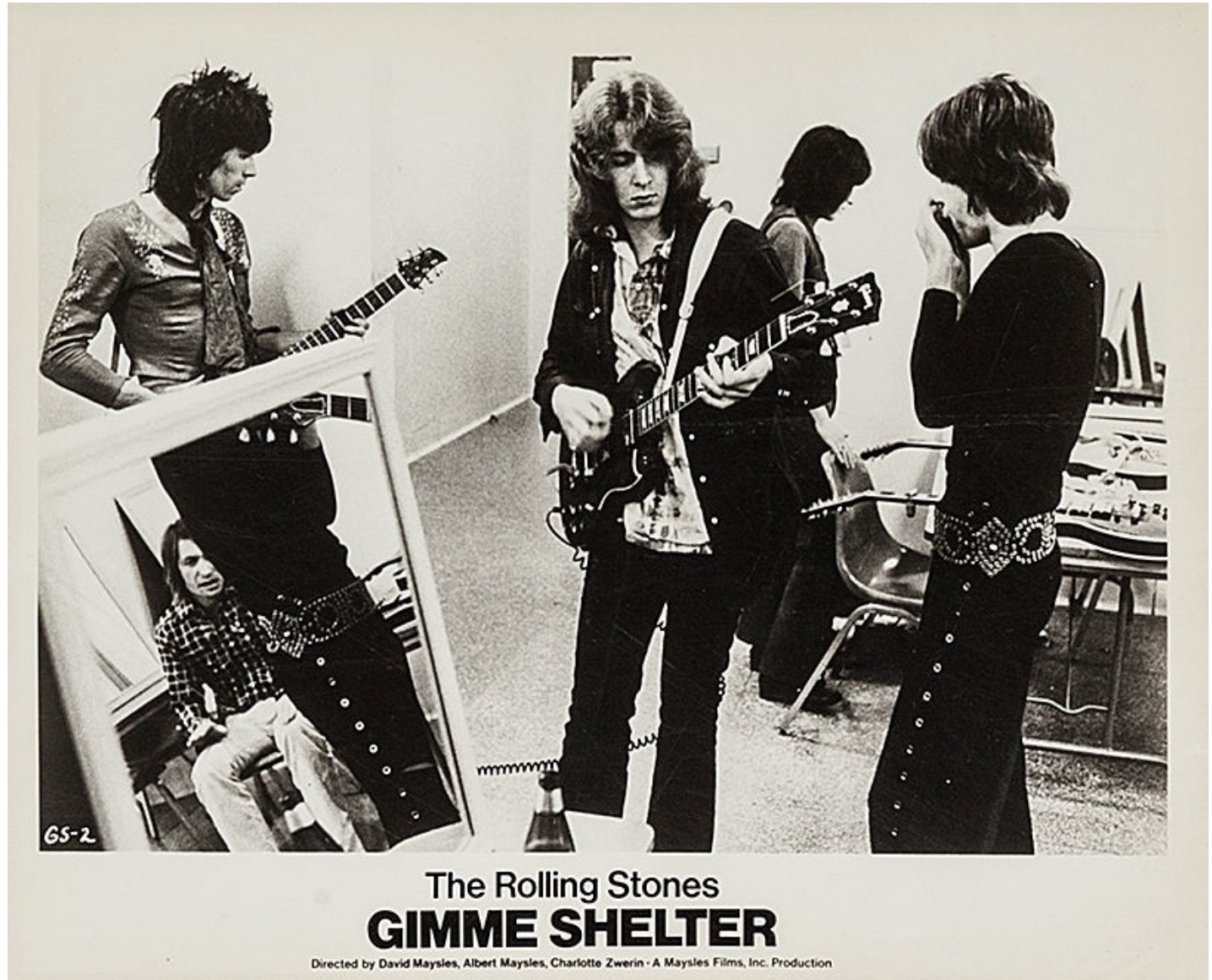
February 2018

Rank	MSA	UR	Rank	MSA	UR
1	San Francisco-Oakland-Hayward, CA MSA	2.9	14	Los Angeles-Long Beach-Anaheim, CA MSA	4.2
2	Denver-Aurora-Lakewood, CO MSA	3.1	15	Atlanta-Sandy Springs-Roswell, GA MSA	4.3
3	Minneapolis-St. Paul-Bloomington, MN-WI MSA	3.3	15	Charlotte-Concord-Gastonia, NC-SC MSA	4.3
4	Orlando-Kissimmee-Sanford, FL MSA	3.4	15	Seattle-Tacoma-Bellevue, WA MSA	4.3
4	San Antonio-New Braunfels, TX MSA	3.4	18	Phoenix-Mesa-Scottsdale, AZ MSA	4.4
6	Boston-Cambridge-Nashua, MA-NH Metro NECTA	3.5	18	Riverside-San Bernardino-Ontario, CA MSA	4.4
6	San Diego-Carlsbad, CA MSA	3.5	20	Baltimore-Columbia-Towson, MD MSA	4.6
8	Washington-Arlington-Alexandria, DC-VA-MD-WV MSA	3.6	20	Detroit-Warren-Dearborn, MI MSA	4.6
8	Tampa-St. Petersburg-Clearwater, FL MSA	3.6	20	New York-Newark-Jersey City, NY-NJ-PA MSA	4.6
10	Dallas-Fort Worth-Arlington, TX MSA	3.7	23	Houston-The Woodlands-Sugar Land, TX MSA	4.7
11	St. Louis, MO-IL MSA (1)	3.8	24	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD MSA	4.9
12	Portland-Vancouver-Hillsboro, OR-WA MSA	4.0			
13	Miami-Fort Lauderdale-West Palm Beach, FL MSA	4.1	25	Chicago-Naperville-Elgin, IL-IN-WI MSA	5.2

U.S. Unemployment Rate: 4.1%



Gimme Shelter



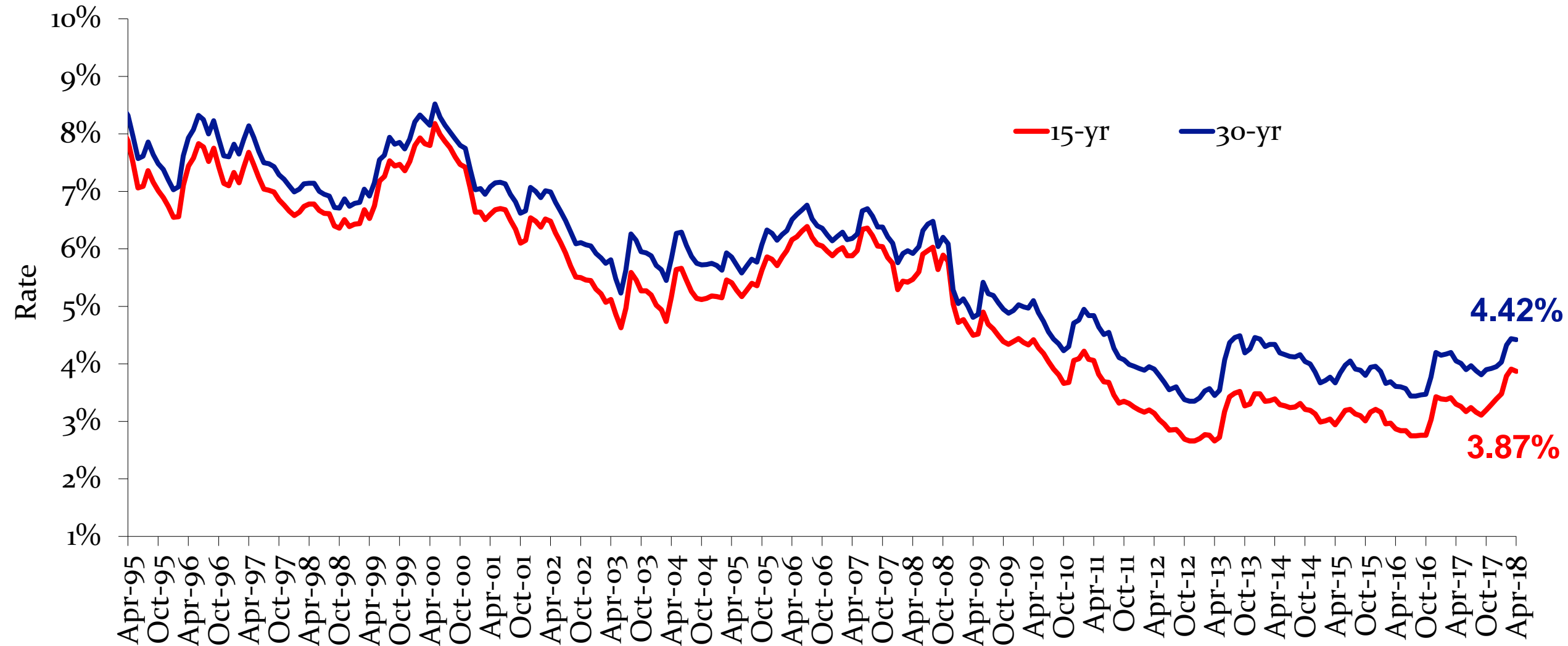
Sage Policy
Group, Inc.



Rocky Mountain
Chapter

15-Year & 30-Year Fixed Mortgage Rates

April 1995 through April 2018*

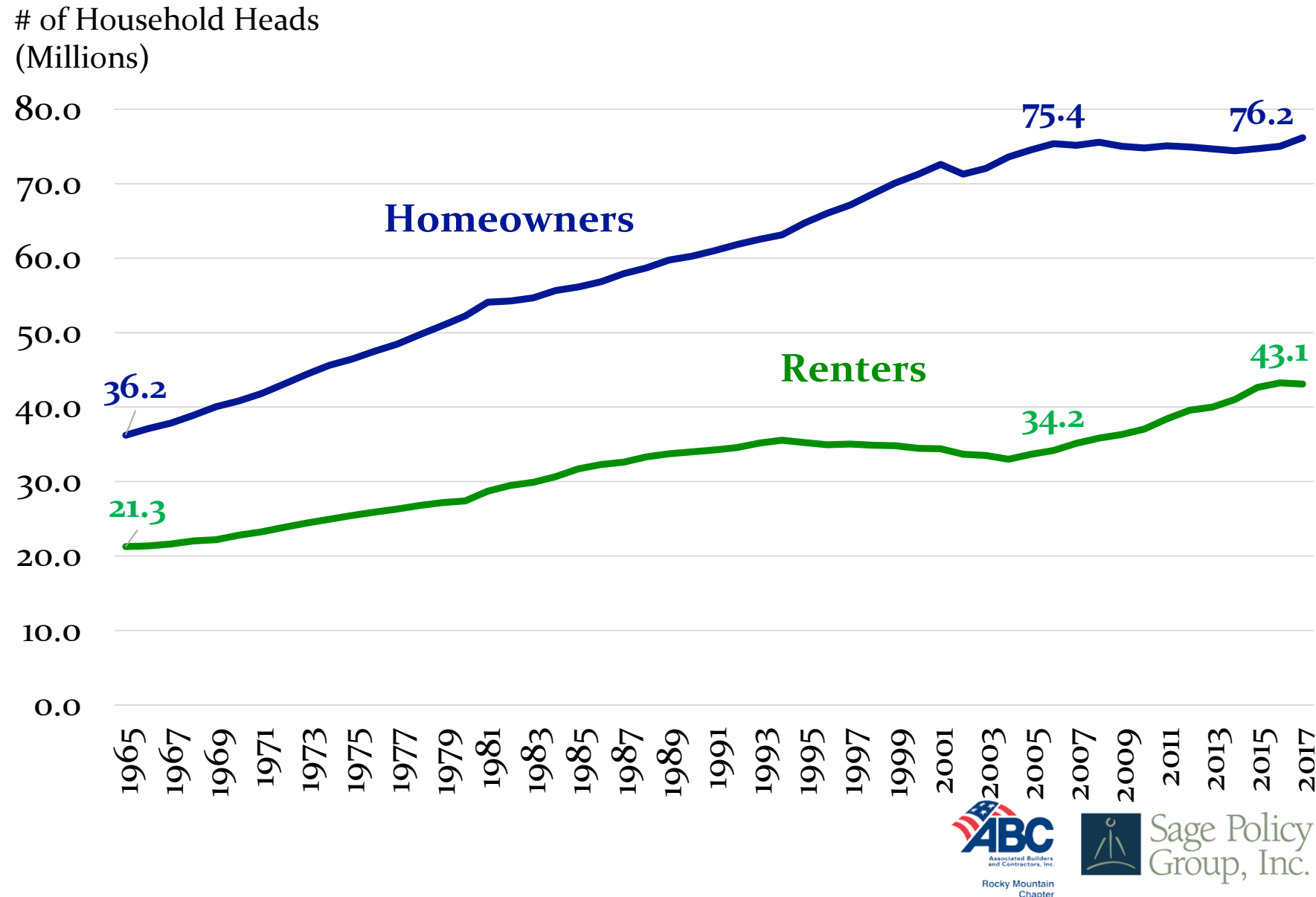


*Week ending 4/12/2018



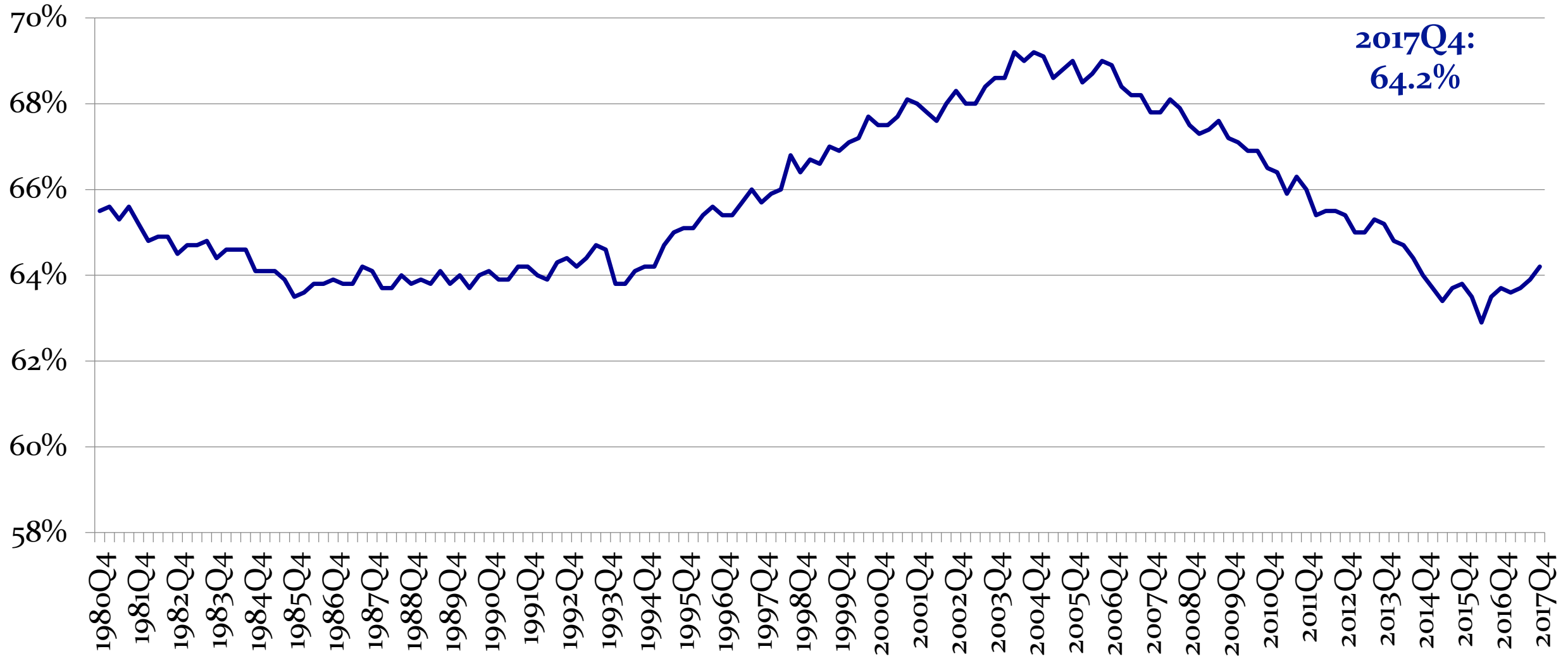
U.S. Households: Owner v. Renter Occupied, 1965-2017

- From 2006-2017 the number of households headed by owners remained relatively flat.
- At the same time, the number of households renting their home increased significantly (+26%).
- The share of renter households also increased—from 31.2% of households in 2006 to 36.1% in 2017.



U.S. Homeownership (NSA)

1980Q4-2017Q4

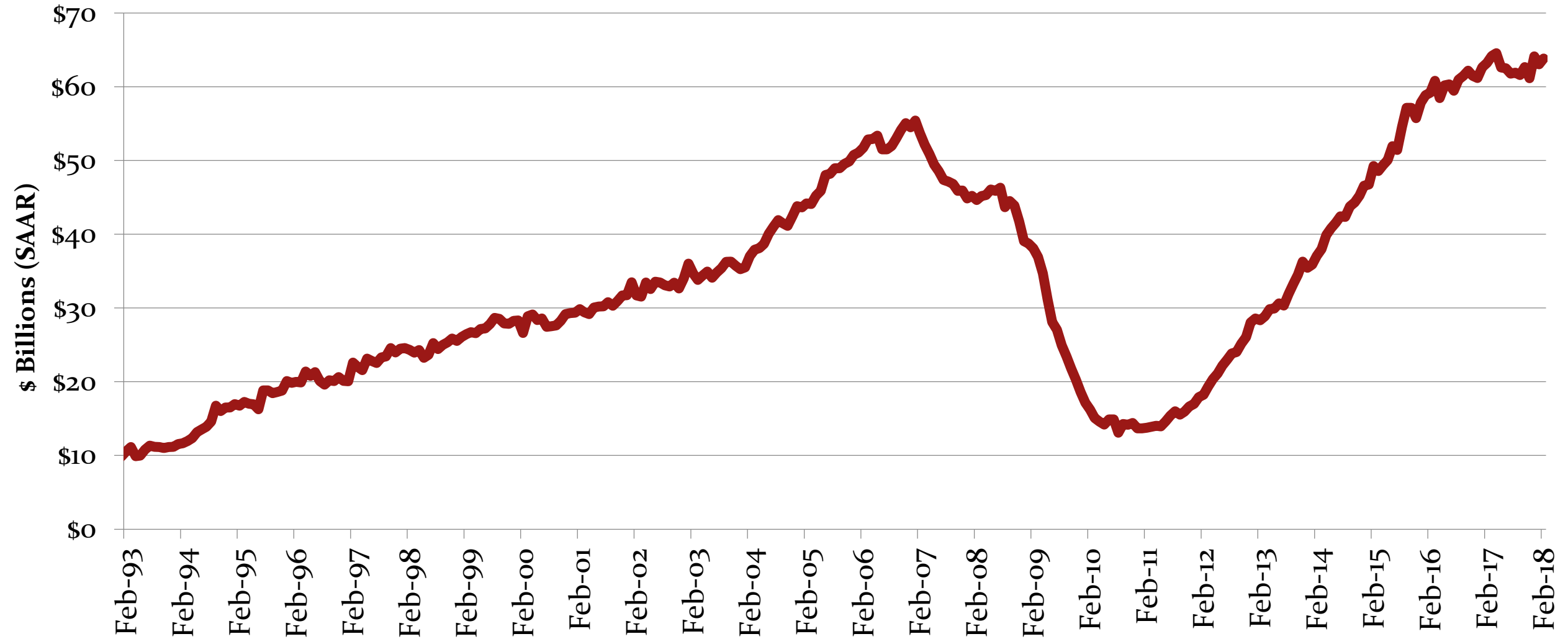


2017Q4:
64.2%



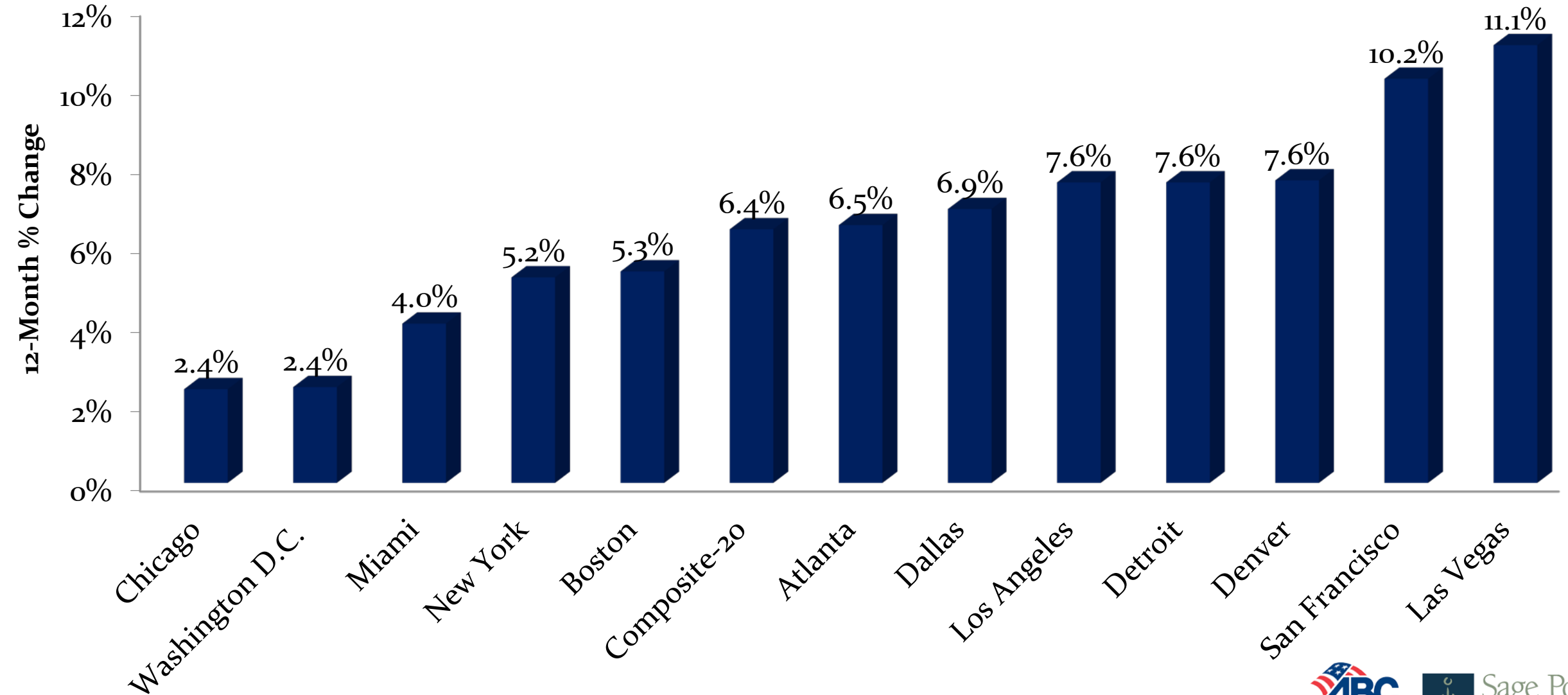
U.S. Private New Multifamily Construction

February 1993 through February 2018



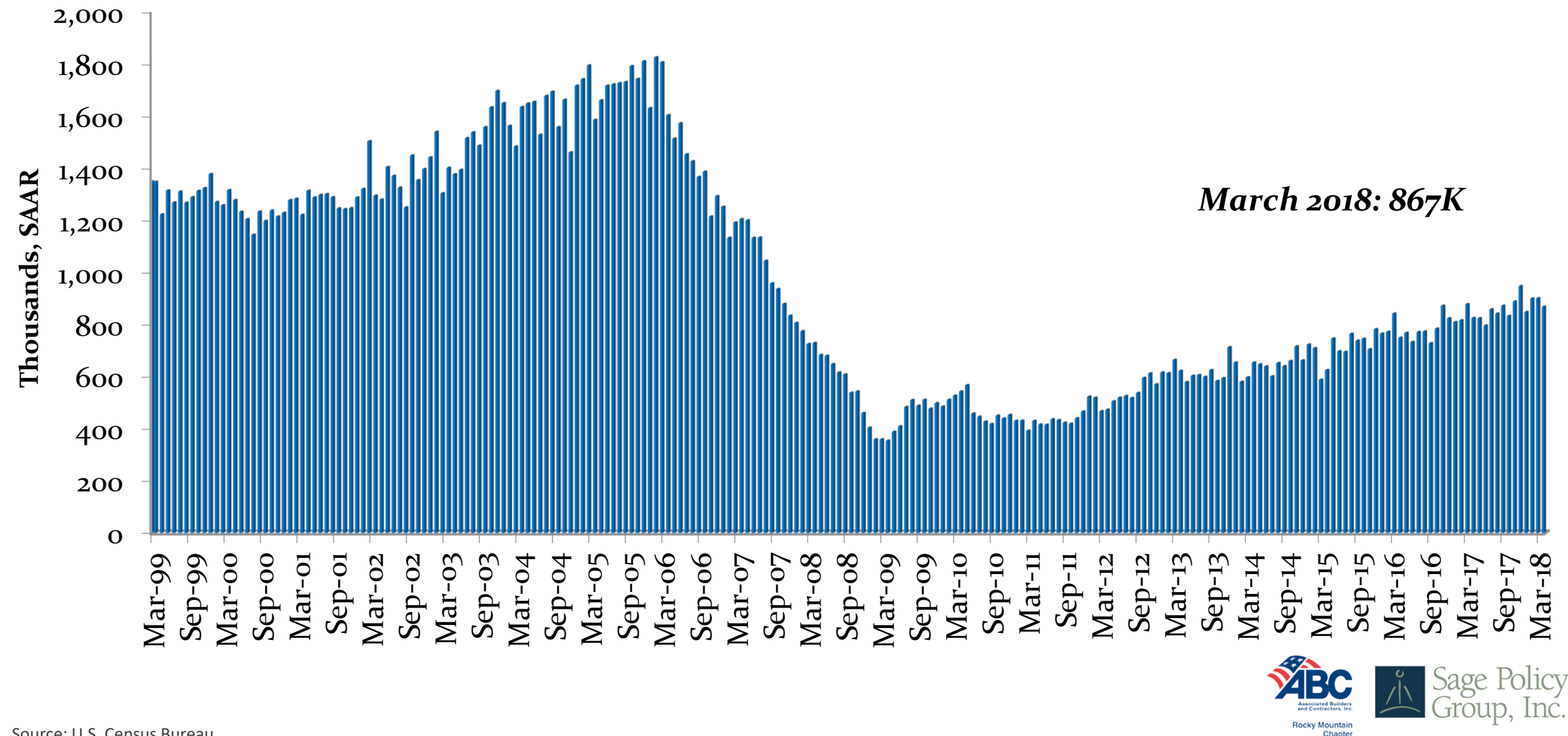
S&P/Case-Shiller Home Price Indices for Select Metros

January 2018, 12-Month Percentage Change



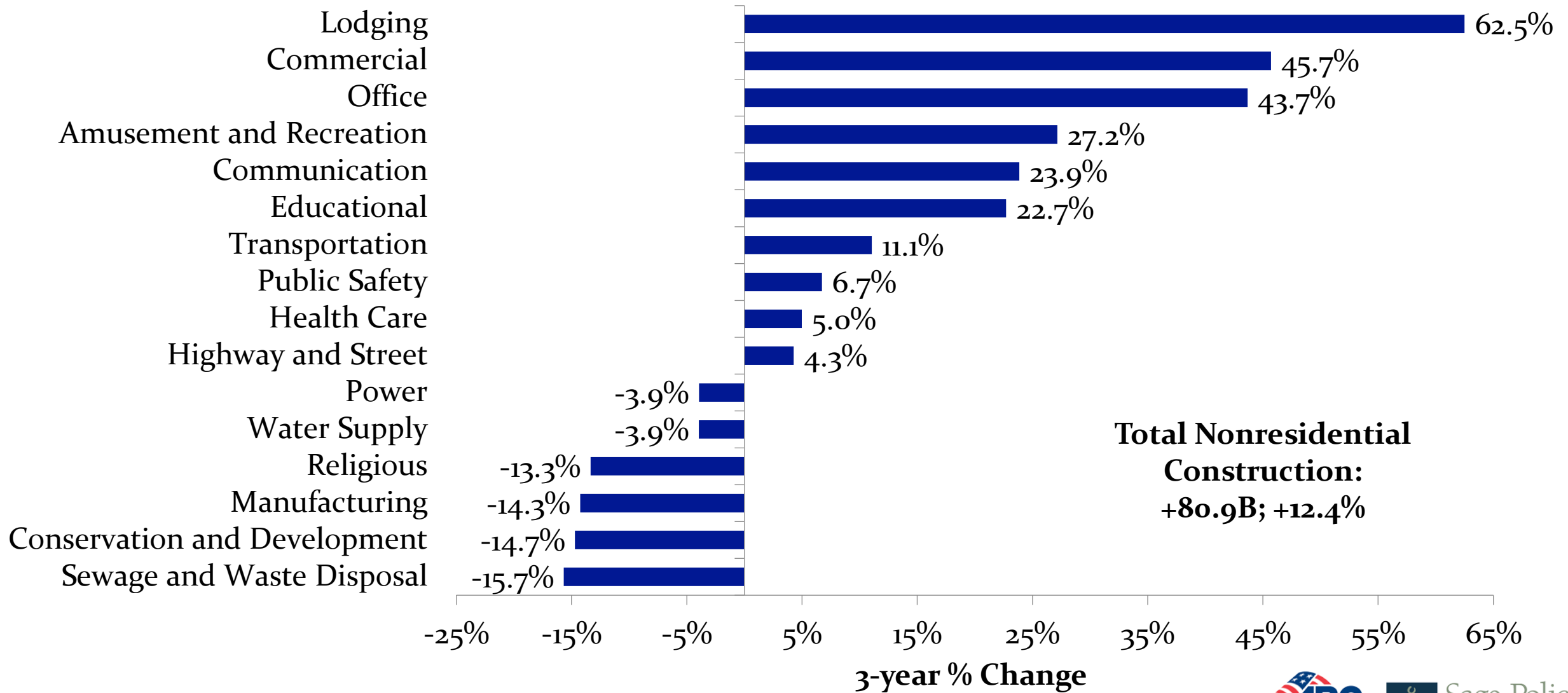
U.S. Single-Family Housing Starts

March 1999 through March 2018

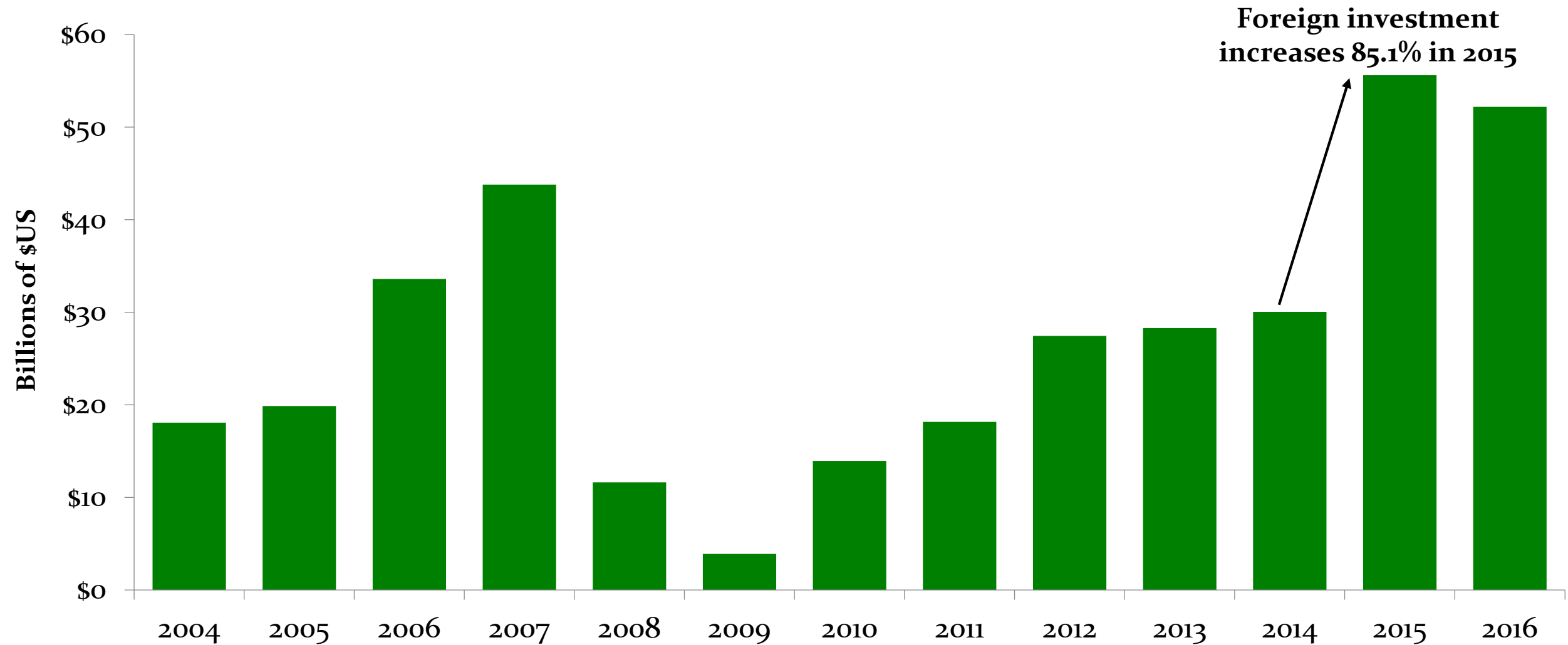


National Nonresidential Construction Spending by Subsector

February 2015 v. February 2018



Commercial/Multifamily Offshore Investment Sales Volumes Reach New Heights in 2015/16



Cross-border investment remained elevated in 2016:
Although down relative to a record 2015, offshore investment levels still exceeded the pre-2015 high in 2007.

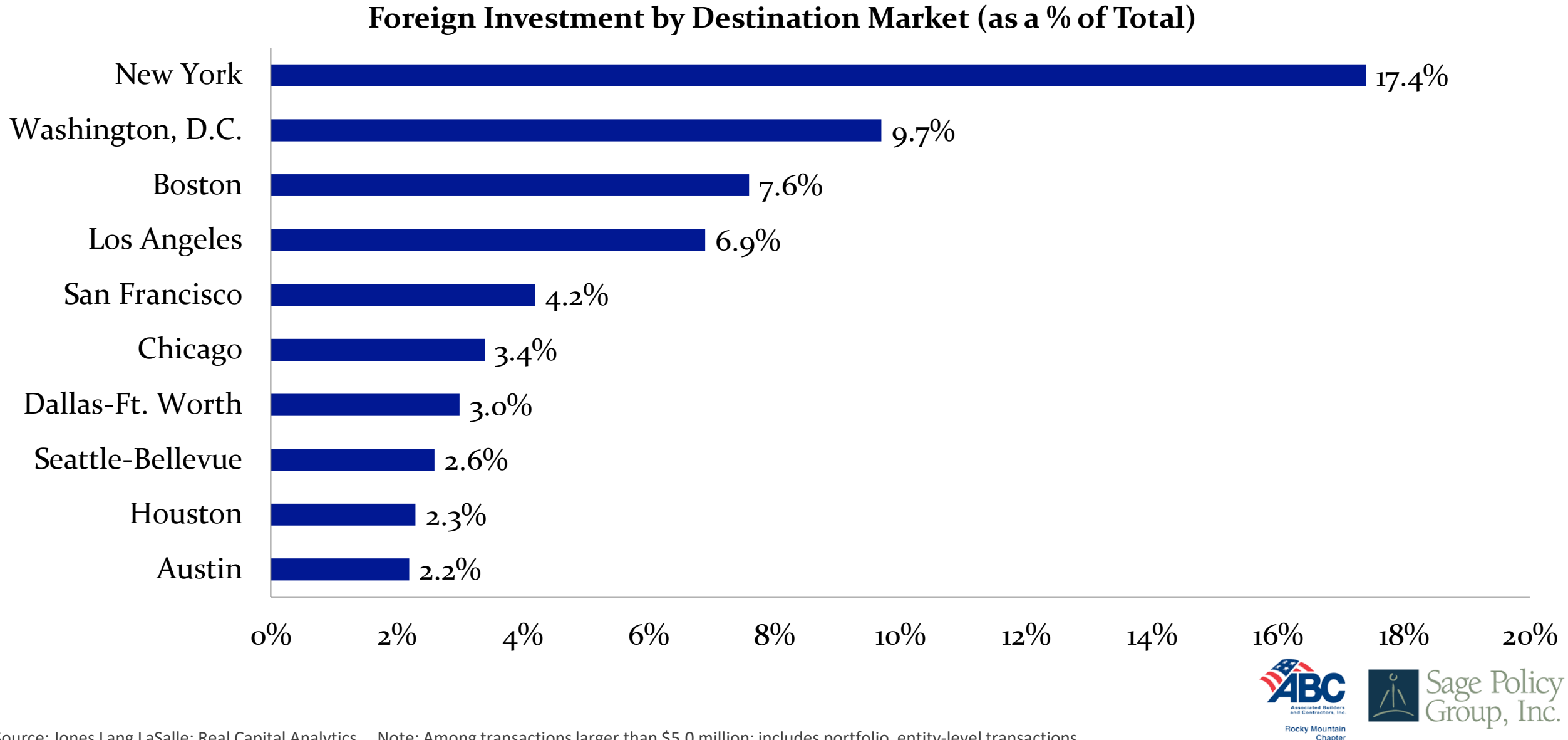


Source: Jones Lang LaSalle; Real Capital Analytics

Note: Among transactions larger than \$5.0 million

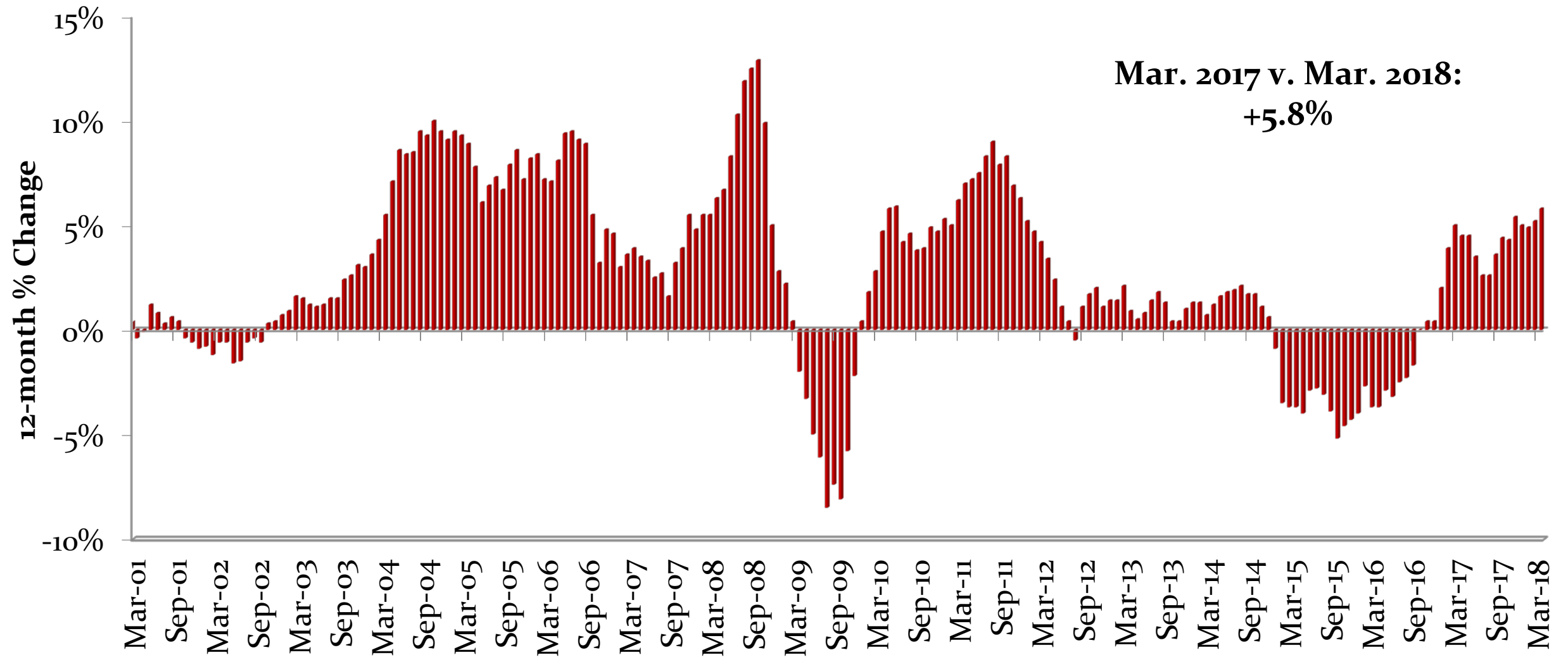
Foreign Investment in U.S. Commercial Real Estate

Top Destination Markets, 2017H1



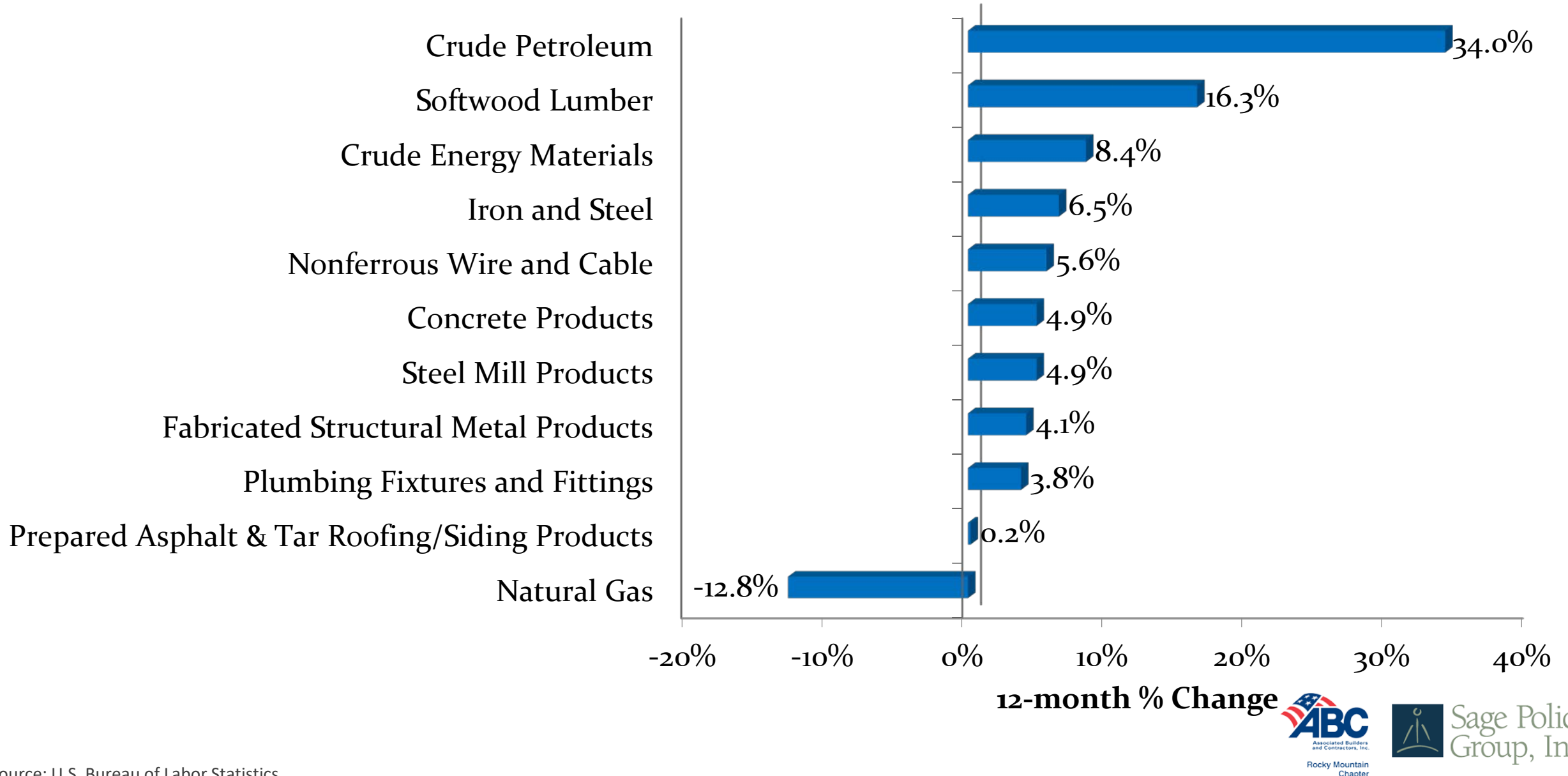
Inputs to Construction PPI (NSA)

March 2001 – March 2018

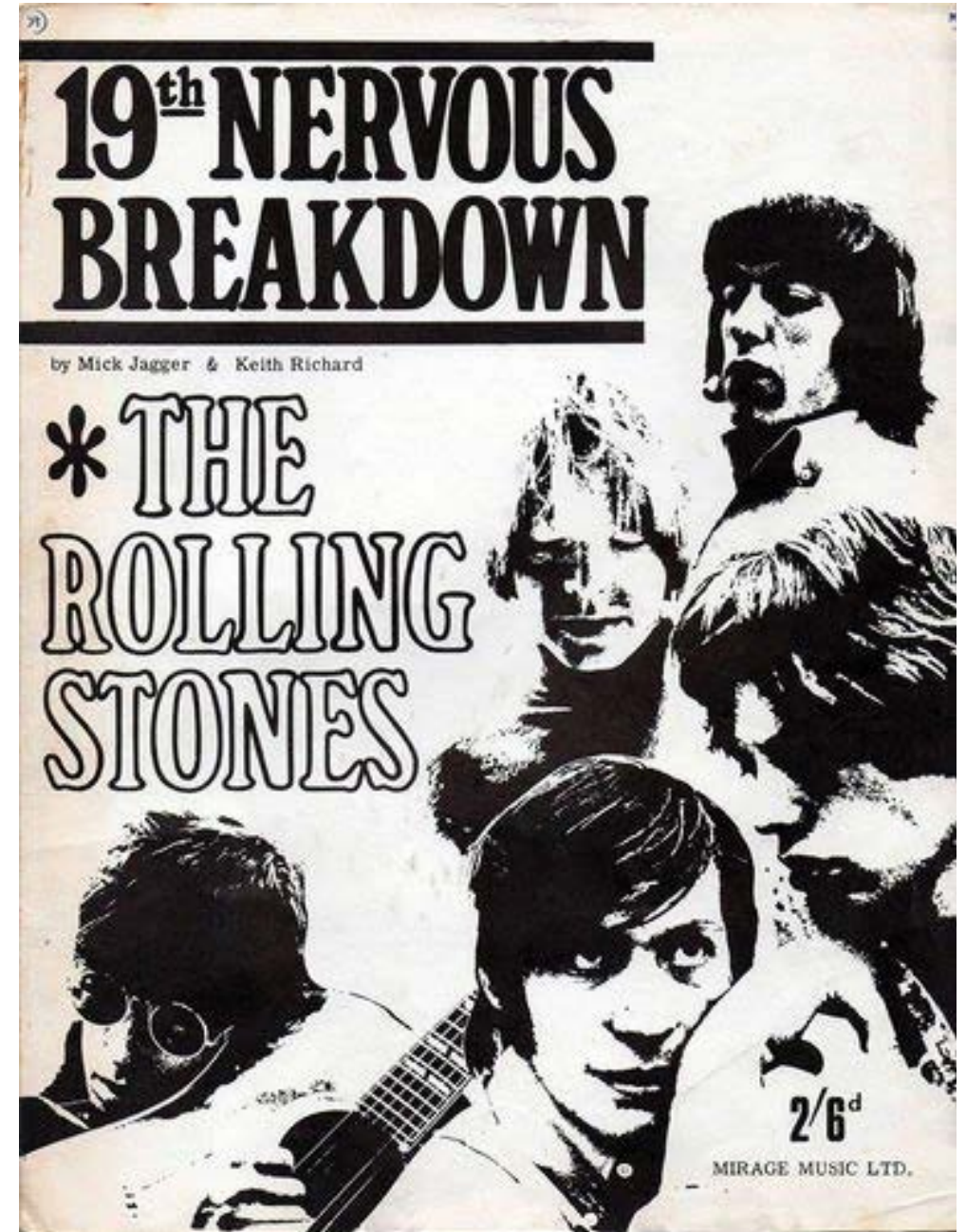


Construction Materials PPI (NSA)

12-month % Change as of March 2018

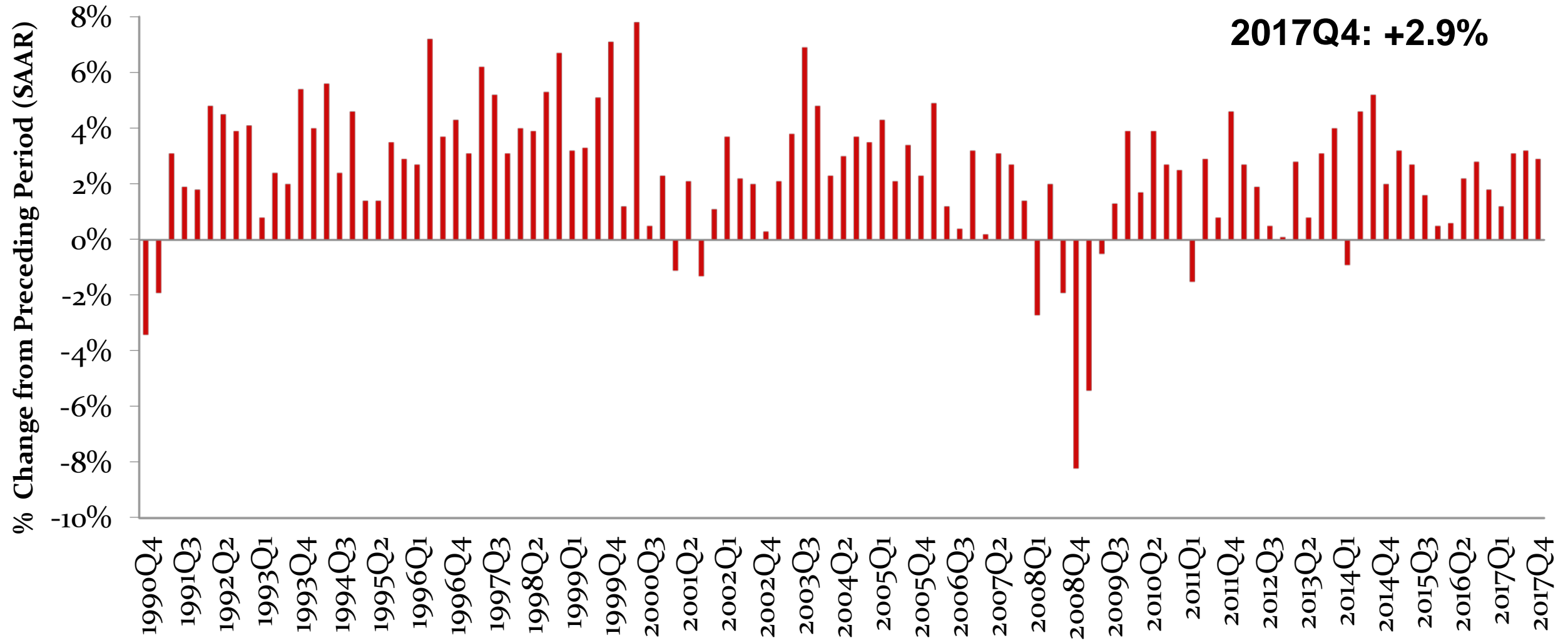


19th Nervous Breakdown



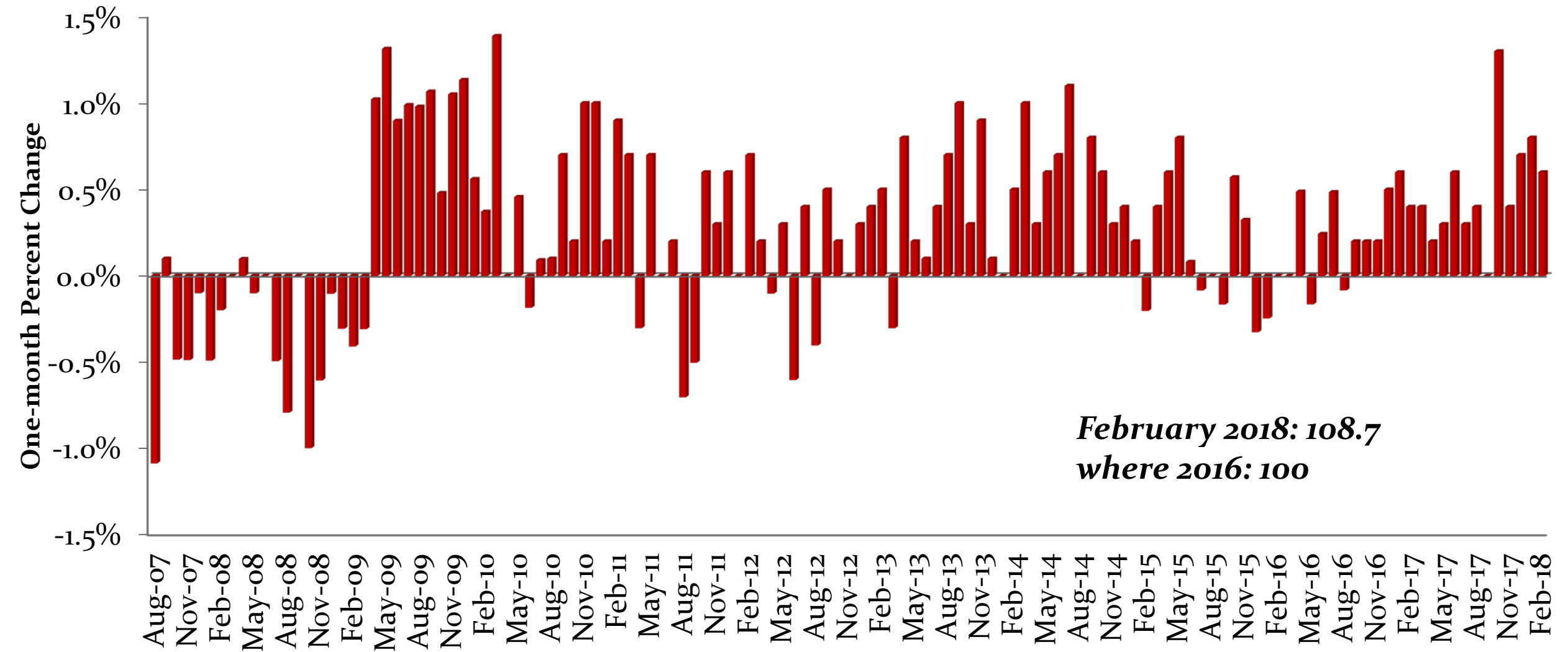
Gross Domestic Product

1990Q4 through 2017Q4*



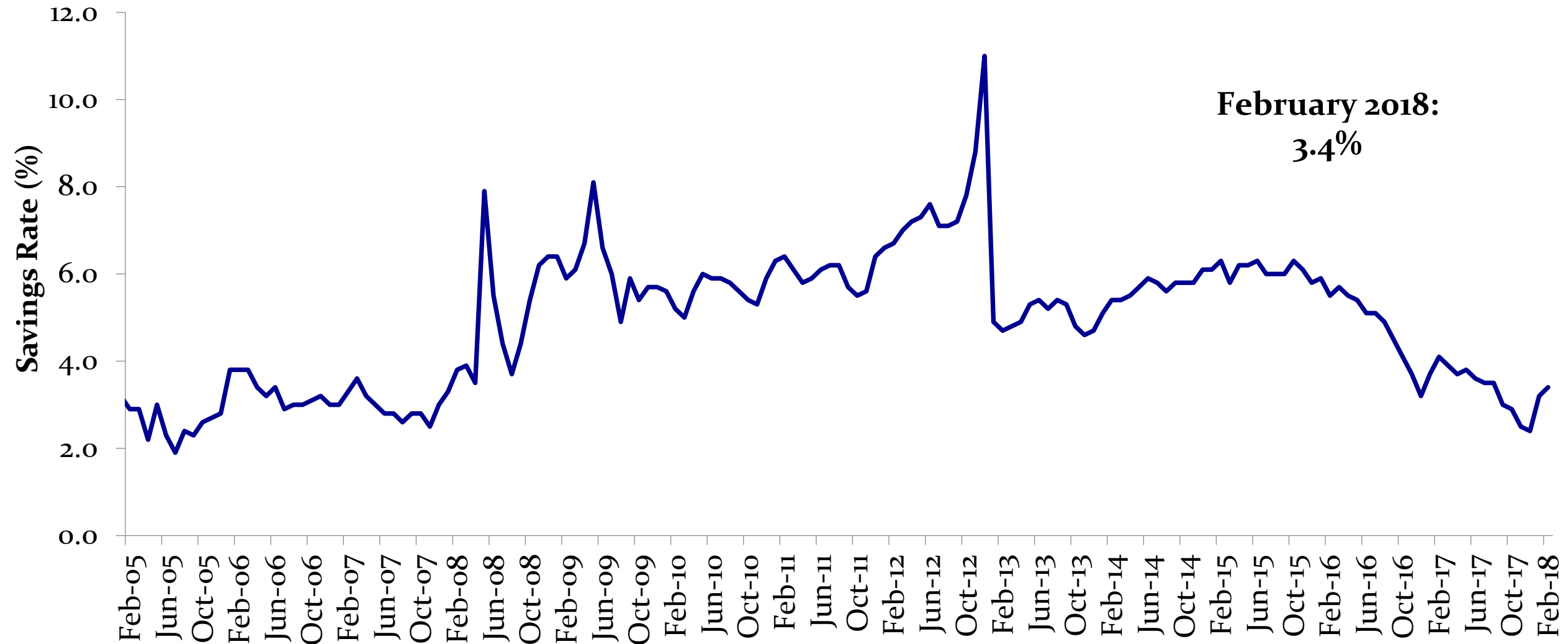
Conference Board Leading Economic Indicators Index

August 2007 through February 2018



U.S. Saving Rate, February 2005 – February 2018

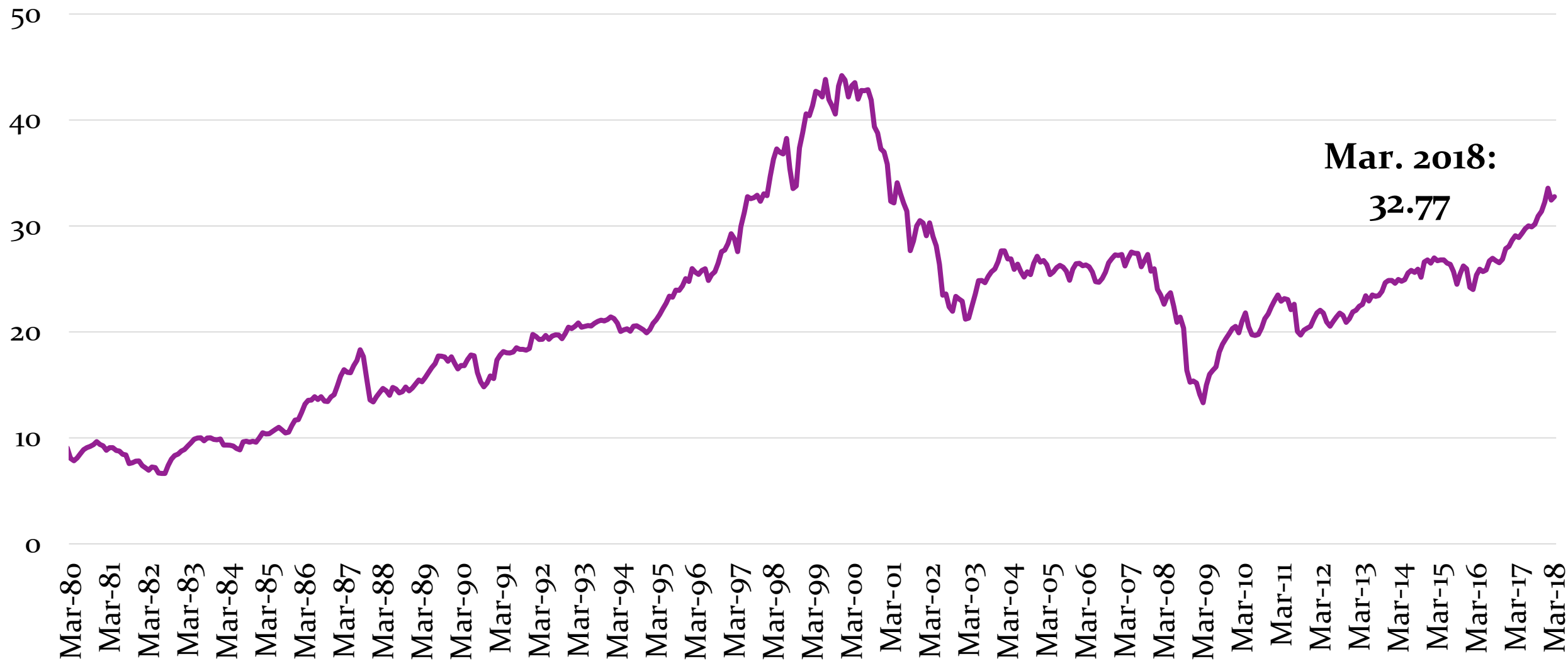
(Savings as Percentage of Personal Disposable Income)



Global Debt Reaches All Time Highs (IIF)

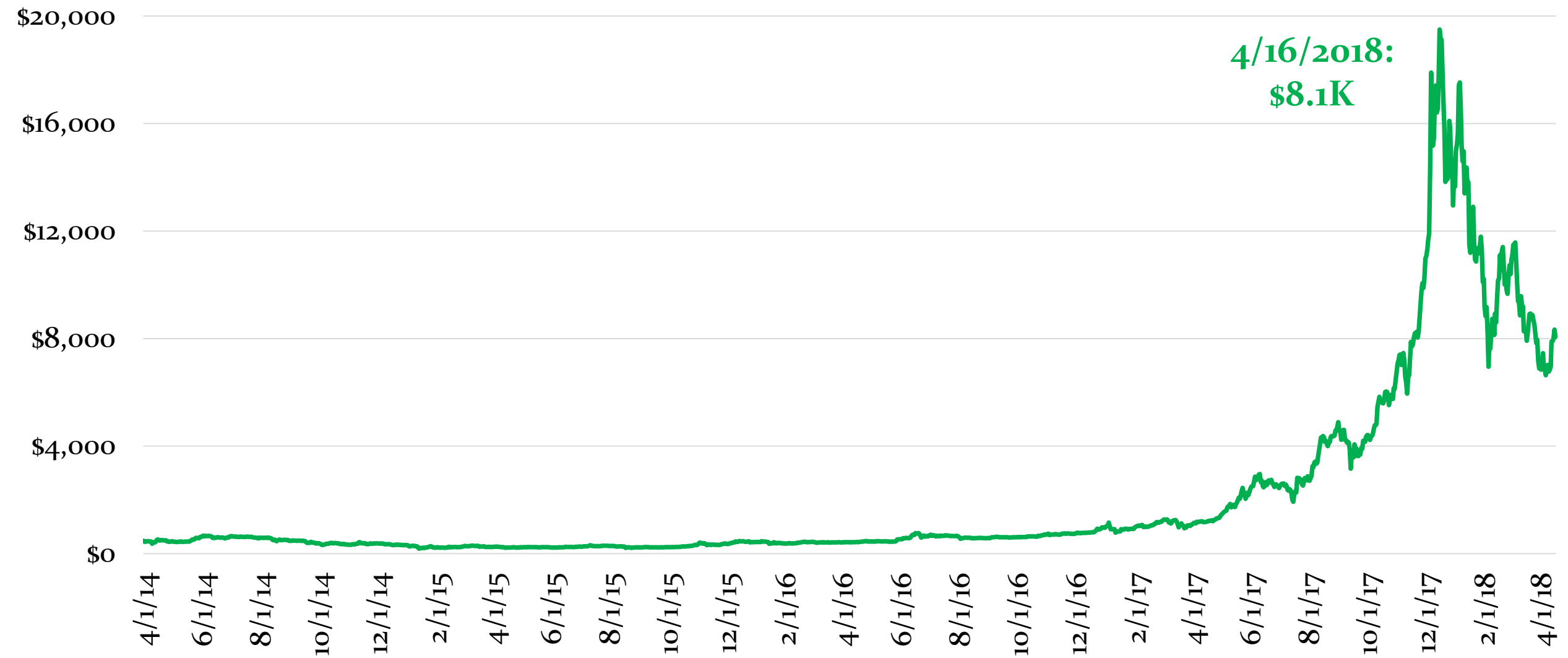
- According to the International Institute of Finance (IIF), global debt has reached an all-time high in 2016;
- At **\$215 trillion**, global debt—including household, government, and corporate—now represents **325% of global GDP**;
- Last year the IMF warned of risks to the global economy:
 - *“sheer size of debt could set the stage for an unprecedented private deleveraging process that could thwart the fragile economic recovery”*

Shiller Price-Earnings Ratio, 1980-2018



Mar. 2018:
32.77

Shattered! --- Bitcoin Price, 2014-2018



Time is on My Side, at least in the Near-Term

- U.S. setting up for best year since '05. . .;
- Global economy also picking up momentum, in large measure due to policymaking;
- Job opportunities are abundant;
- Corporate profitability elevated;
- Consumer and business confidence has been surging. . .;
- And now tax cuts, including major reductions in corporate taxes . . .
What could go wrong?;
- A lot can go wrong – that's always true – first there are the Black Swan threats:
- “I'm forever blowing bubbles, pretty bubbles in the air, they fly so high, nearly reach the sky, and like my dreams, they fade and die”;
- Where are all the pretty bubbles? Equity markets? U.S. bond market? Commercial real estate? Bitcoin?
- 2018 will be fine – better than fine – 2019 might be, too, but beyond that, potential deleveraging cycle prompted by a repricing of assets – Bad!!!!

Thank You

Please follow me on Twitter -- @sageanirban

Please look for updates of information at
www.sagepolicy.com.

Please contact us when you require economic
research & policy analysis.