

Will Monetary Restraint Overcome the Administration's Proposed Economic Initiatives?

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Mauldin Economics' Strategic Investment Conference Orlando, Florida May 22-25, 2017

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Federal Funds Rate

monthly



Discount Rate and Average Reserve Requirements *monthly (1915-1944)*



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Nominal GDP (Y)=C+I+G+X = Corporate + Household Income = M*V = P*Real GDP annual % change 16% 16% GDP **Real GDP** Nominal Deflator Debt Ann. Avg. GDP Ann. 14% Ann. Avg. 14% **Y-O-Y** Avg. Y-O-Y **Y-O-Y** 2014 2.4% 4.2% 1.8% 12% 12% 2.6% 2015 3.7% 1.1% 10% 10% 2016 1.6% 3.0% 1.3% 8% 8% 6% 6% 4% 4% 2% 2% 0% 0%

Sources: Federal Reserve Board, Bureau of Economic Analysis. Through 2016.

1987

1997

2007

1977

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1947

1957

1967

-2%

-2%

2017

Supply and Demand For Credit Analysis



Monetary Base

year over year % change, quarterly



M2 Money Stock annual % change







GDP Per Dollar of Debt

(excluding off balance sheet liabilities)





M2 Velocity: Four Major Economies



Nonfarm Business Sector: Productivity

7 year % change a.r., quarterly



U.S. General Fertility Rate (Births per 1000 Women Aged 15-44) annual



Real Disposable Personal Income per Capita (1956-2016)

ten year % change, a.r.



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Real Average Household Income By Quintile and Top 5



Sources: Census Bureau. Through 2015.





Japan: Gross Domestic Product

quarterly level



Population Growth: U.S. and Japan (1941-2016)

annual % change





Sources: Federal Reserve. Through Q4 2016.

Total Industry Capacity Utilization *monthly*



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Federal Receipts: Corporate

y-o-y % change, 12 month sum



An Inverse Relationship: Real Current Account Balance and Real Net Foreign Investment



Beneficial Effects of Deregulation and Increased Energy Production Using Aggregate Supply and Demand Analysis



Real GDP 1915-2016

annual



Sources: Federal Reserve Board, Bureau of Economic Analysis, N.S. Balke & R.J. Gordon, C.D. Romer. Through Q4 2016.



GDP Implicit Price Deflator

percent change in annual average



Through 2016.



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Long Term Treasury Rate 1915-2016

annual average

Appendix

Federal Receipts

y-o-y % change, 12 month sum



Federal Receipts: Individual

y-o-y % change, 12 month sum



Housing Starts: Multifamily

year over year % change of 12 month avg



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Vehicle Sales annual level



Nonfarm Payroll Growth

average monthly change, 1000's

		Nonfarm	Manufacturing
	(A)	(B)	(C)
1.	2014	250	17
2.	2015	226	6
3.	2016	187	-1
4.	Through April 2017	184	13

Source: Bureau of Labor Statistics. Through April 2017.



Average Hourly Earnings (Production and Nonsupervisory)

year over year percent change, monthly





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Personal Saving Rate 1900-2016

annual average



Real Average Weekly Earnings

year over year % change, 3 month mvg. average



Total Nonfinancial Debt as a % of GDP

(Excluding Off Balance Sheet Liabilities)

annual



Sources: Federal Reserve. Through Q4 2016.

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Signs of Exhausted Pent-Up Demand

1. The factory use rate is much lower than two years ago and well below long term historic norms.

2. Rents are weakening after a massive six year boom in apartment buildings.

3. Retail space rents are falling, amid actual abandonment of such properties due to lack of alternative end use possibilities.

4. Prices for new cars are dropping as well as most discretionary goods. Delinquency rates on automobile loans are rising, particularly so on the riskiest types.

5. Rising vacancy in office buildings is placing downward pressure on rents.

