



International Currency Markets

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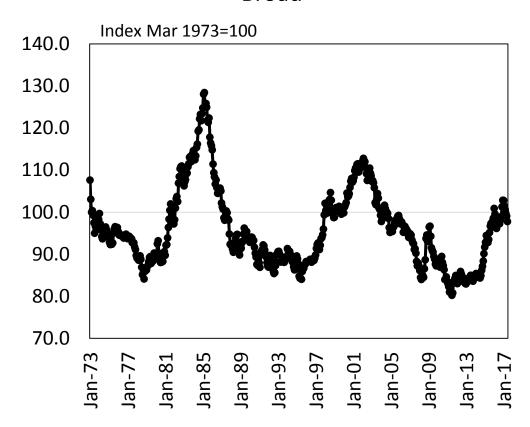
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The U.S. Dollar Moves Due to ...

Real Trade Weighted U.S. Dollar Index: Broad

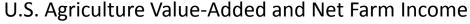


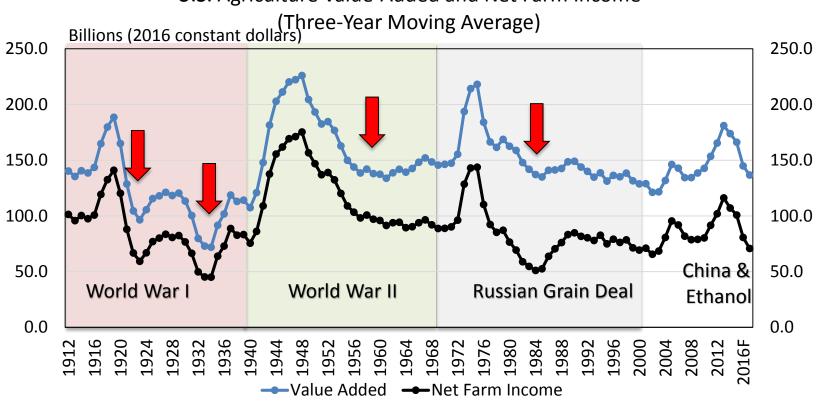
Trade
Financial Flows
Fear

Source: Board of Governors Federal Reserve System



International Trade is a Key Driver of Agricultural Cycles





Calculations based on USDA data deflated with Consumer Price Index





Global Trade and Policy Shapes Farm Incomes

1910s/1920s U.S. Foodstuff Exports		
1910	\$ 9.5 billion	
1920	\$24.3 billion	
1936	\$ 3.5 billion	

Note: Export value data presented in 2016 constant dollars Source: Census Bureau, Historical Statistics of the United States

1970s/1980s U.S. Ag Exports		
1972	\$ 53.9 billion	
1981	\$114.1 billion	
1986	\$ 57.3 billion	

Note: Export value data presented in 2016 constant dollars Source: USDA

1940s/19	950s U.S. Ag Exports
1940	\$ 8.9 billion
1947	\$ 42.4 billion
1953	\$ 25.5 billion

Note: Export value data presented in 2016 constant dollars Source: USDA

2000s/2010s U.S. Ag Exports		
2005	\$ 77.5 billion	
2014	\$151.8 billion	
2016	\$133.7 billion	

Note: Export value data presented in 2016 constant dollars

Source: USDA

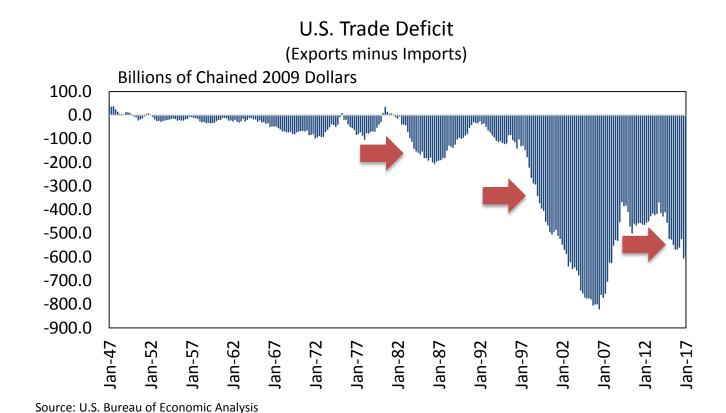


Trade



U.S. Dollar Fundamentals: Trade

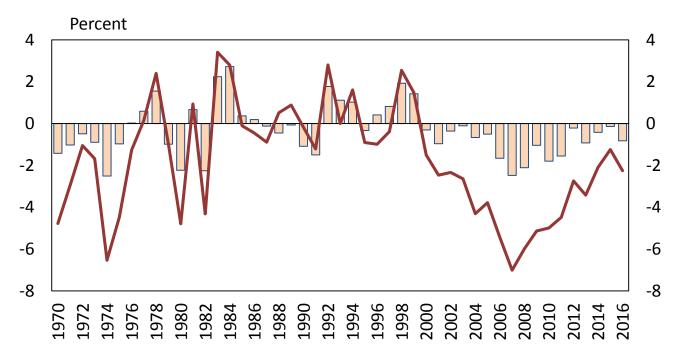
Strong demand for goods and services supports a strong dollar



U.S. Dollar Fundamentals: Economic Growth

Stronger U.S. economy supports a strong dollar

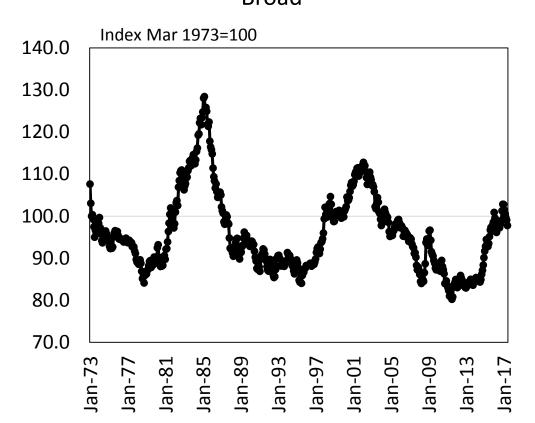
U.S. GDP Minus World GDP



Source: World Bank

The U.S. Dollar Moves Due to ... Financial Flows

Real Trade Weighted U.S. Dollar Index:
Broad



1981 to 1985: High US Interest Rates Stronger Economy

1997 to 2001: Asian Financial Crisis Stronger Economy

2015 to 2017: Higher Interest Rates Stronger economy

Source: Board of Governors Federal Reserve System

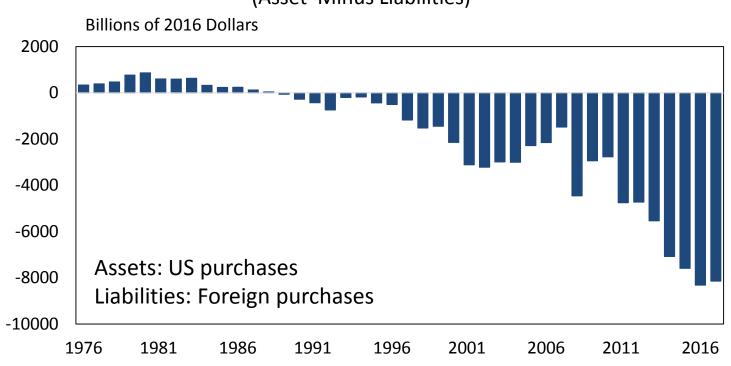


Financial Flows



Financial Flows are More Dominant than Ever

U.S. Net International Investment Position (Asset Minus Liabilities)



Source: U.S. Bureau of Economic Analysis



Financial Flows are More Dominant than Ever

Net Exports of Goods and Services (Billions of dollars)

	1976- 1980	1990- 1994	2012- 2016
Exports	315.3	730.8	2,072.4
Imports	(367.2)	(797.6)	(2,548.2)
Net Exports	(51.9)	(66.8)	(476.1)

Source: U.S. Bureau of Economic Analysis

Net International Investment Position (Billions of dollars)

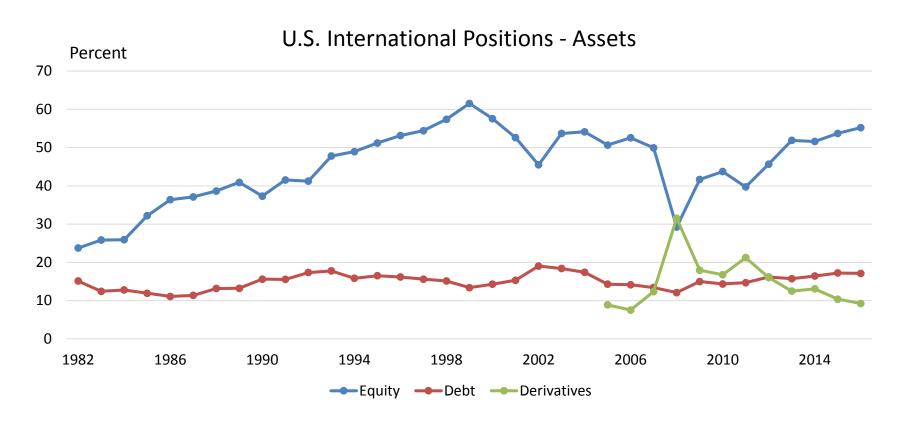
	1976 - 1980	1990- 1994	2012- 2016
Assets	1,567	4,886	24,228
Liabilities	(1,227)	(5,250)	30,877
Net Position	340	(275)	(6,649)

Source: U.S. Bureau of Economic Analysis

Financial Flow are 10 Fold Export Activity

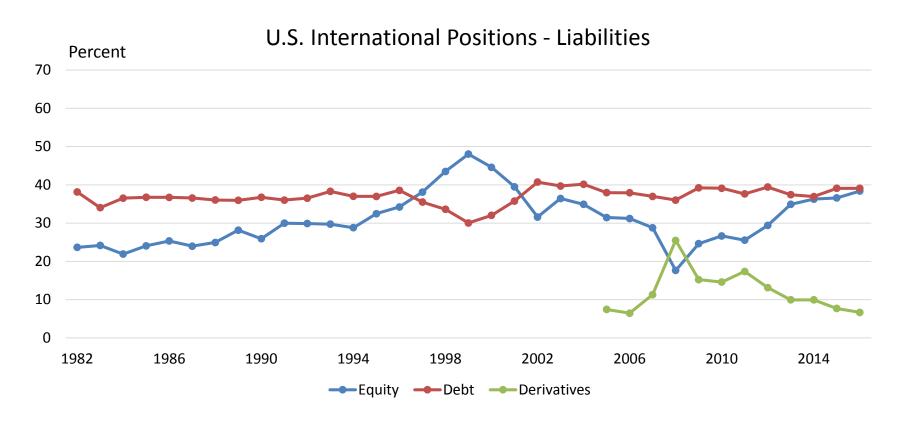


Financial Flows (Equity, Debt, & Derivatives) Shifted with Financial Conditions



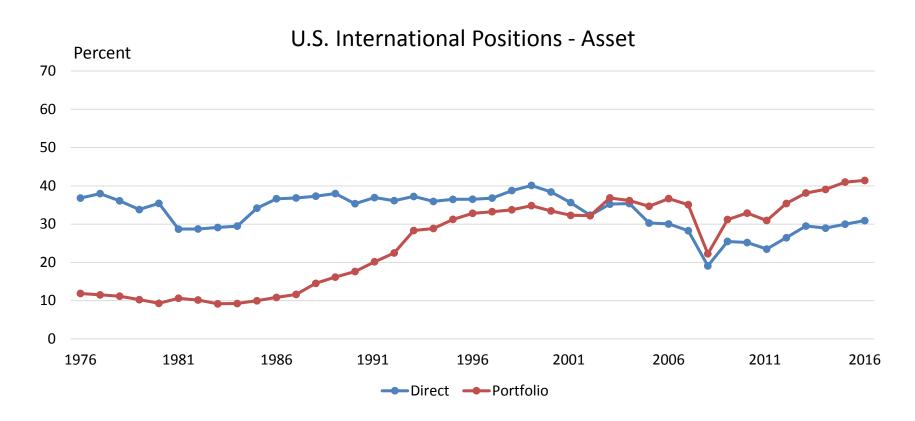


Financial Flows (Equity, Debt, & Derivatives) Shifted with Financial Conditions





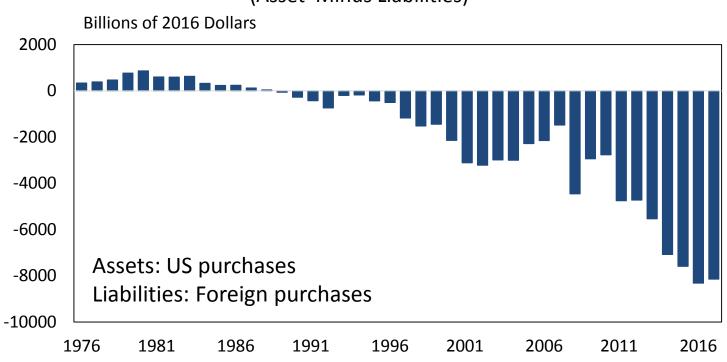
Financial Flows (Equity, Debt, & Derivatives) Shifted with Financial Conditions





Is This Good for the U.S. Economy?

U.S. Net International Investment Position (Asset Minus Liabilities)



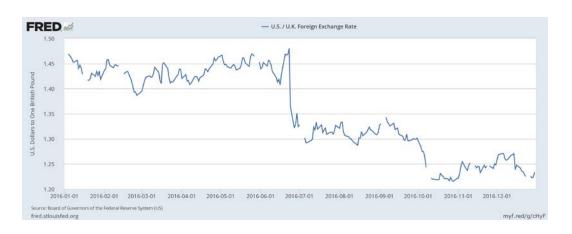
Source: U.S. Bureau of Economic Analysis



Fear and Uncertainty

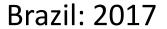


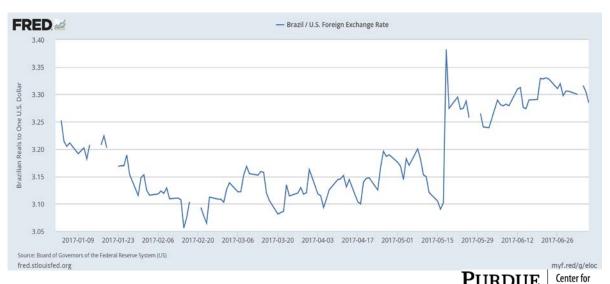
Exchange Rates Move with Fear



Brexit: 2017

Commercial Agriculture

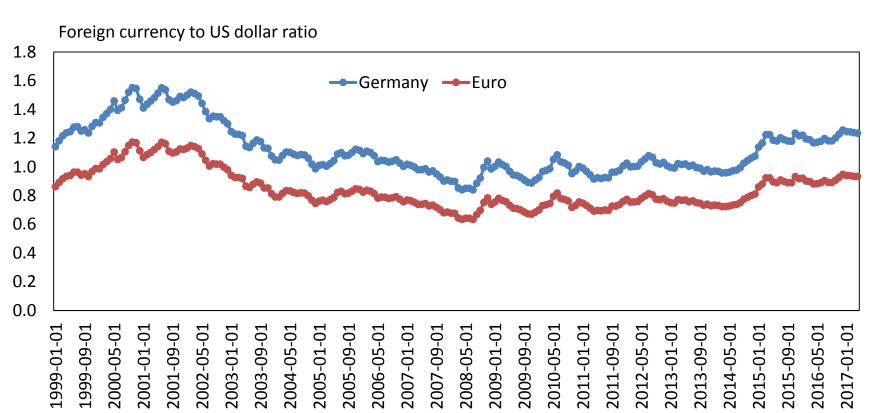






The Euro and Germany

Euro and Germany Exchange Rate with US



Source: Board of Governors Federal Reserve System

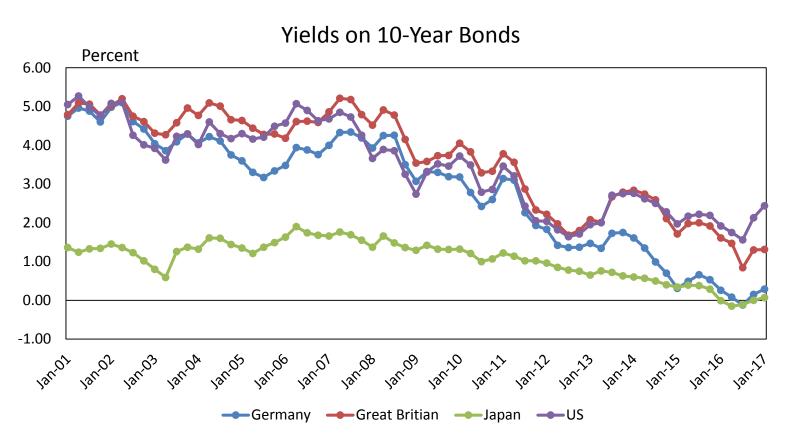




Interest Rates and Exchange Rates



Interest Rate Movements Drive Financial Flows

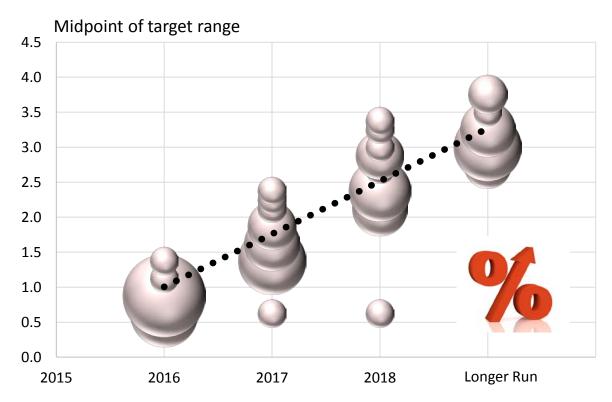


Source: Board of Governors Federal Reserve System



How will the Fed Normalize Rates?

Fed Funds Rates



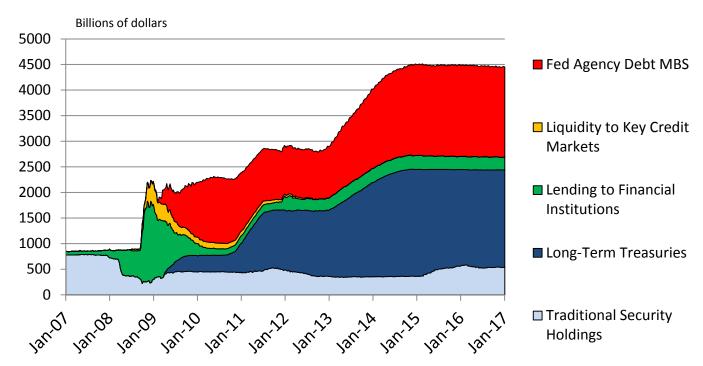
Source: Federal Reserve Board of Governors





The Next Step in Normalization: Shrinking the Balance Sheet

Federal Reserve Balance Sheet: Assets



Source: Federal Reserve Bank of Cleveland



What Drives Interest Rates Higher?



Too much money chasing too few goods



The U.S. is Expected to Lead the Rebound

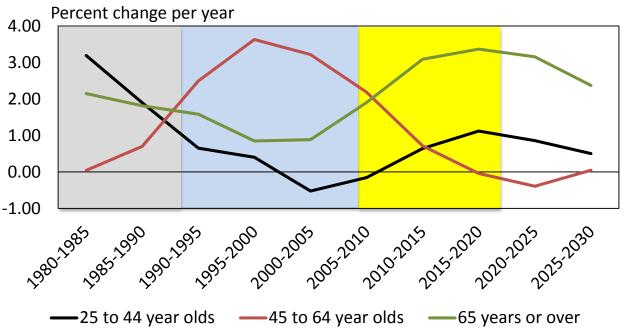
Area	2016	2017	2018
World	3.1	3.4	3.6
Advanced	1.6	1.9	2.0
US	1.6	2.3	2.5
Euro Area	1.7	1.6	1.6
EMDE	4.1	4.5	4.8
China	6.7	6.5	6.0
India	6.6	7.2	7.7
Russia	-0.6	1.1	1.2
Latin America	-0.7	1.2	2.1

Source: International Monetary Fund, January 2017

Will Demographics be the Trigger?

- Millennial spending: Homes, cars, families ...
- Boomer spending: Retirement, health care ...





Calculations based on U.S. Census data



Slower Labor Force Growth is Expected to Trim Potential GDP

US Potential GDP (Average Annual Growth)

	1950 - 1973	1974- 1981	1982- 1990	1991- 2001	2002- 2007	2008- 2014	2015- 2025
Potential GDP	4.0	3.3	3.2	3.2	2.8	1.4	1.8
Potential Labor Force	1.6	2.5	1.6	1.3	0.9	0.5	0.5
Potential Labor Force Productivity	2.4	0.8	1.6	1.9	1.9	0.9	1.3

Source: Congressional Budget Office

Lower Potential GDP Suggests Inflation Rises at Lower Growth Rates.





Policy Implications



Ag Export Destinations are Different than Manufactured Export Destinations

U.S. Ag Exports (2012-2016)

Country	Share
(1) China	16.7%
(2) Canada	15.0%
(3) Mexico	13.1%
(4) Japan	8.7%
(5) Korea, South	4.3%

Source: USDA

U.S. Manufactured Exports (2012-2016)

Country		Share
(1)	Canada	19.3%
(2)	Mexico	15.5%
(3)	China	6.4%
(4)	Japan	4.1%
(5)	United Kingdom	3.4%

Source: International Trade Admin.

IN Manufactured Exports (2012-2016)

Country	Share
Country	Silare
(1) Canada	33.7%
(2) Mexico	13.4%
(3) Germany	5.2%
(4) Japan	5.0%
(5) France	4.2%

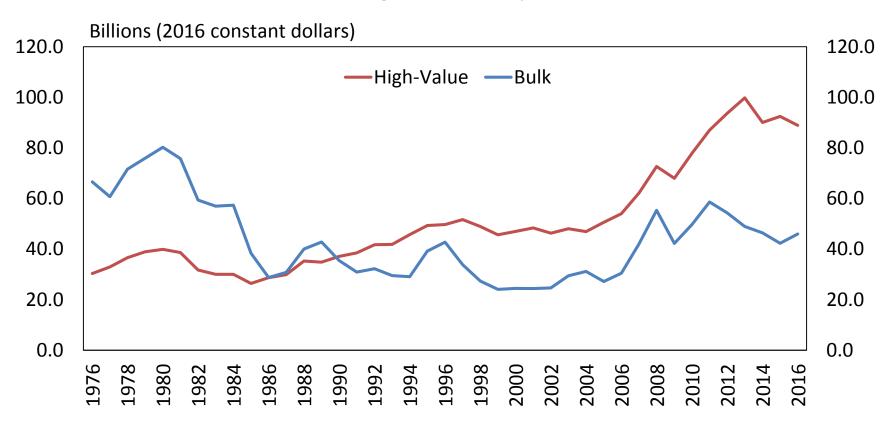
Source: International Trade Admin.

Will Trade Policy Reflect Ag Interests?



Are Bulk or Consumer Exports the Future?

U.S. Agricultural Exports



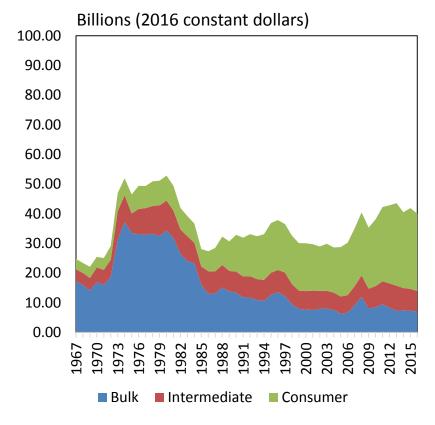


Are Bulk or Consumer Exports the Future?

Exports to Developing Countries

Billions (2016 constant dollars) 100.00 90.00 80.00 70.00 60.00 50.00 40.00 30.00 20.00 10.00 0.00 1991 1994 1997 2000 2003 2006 2009 2012 2015 1985 1988 Intermediate Consumer

Exports to Developed Countries



Calculations based on USDA data deflated with Consumer Price Index





Policy Implications for Agriculture: When Do Multinational Companies Buy US?

Strong Dollar



Weak Dollar



When is U.S. currency strong?

When do multinationals want to repatriate funds?

When will the Exchange Rate Environment Change?

China: a Consumer or a Producer Driven Economy?

Consumers Producers Strong Currency Weak Currency

What about other developing nations?



Conclusions

- Currency markets and trade are important for ag
- Financial flows and fear/uncertainty are more important drivers of currency markets

- Strong economic growth, high returns, and stability drive a strong dollar.
- A strong dollar might be with us for some time.

