

Large Budget Deficits, High Levels of Government Debt - A Force for Lower Interest Rates

by Lacy H. Hunt, Ph.D., Chief Economist Hoisington Investment Management Co.

> Presented to: Grant's Conference New York, NY October 4, 2016

6836 Bee Caves Road → Building 2, Suite 100 Austin, Texas 78746 512-327-7200 Fax 512-327-8646 www.Hoisington.com

Gross Federal Debt as a % of GDP (Excluding Off Balance Sheet Liabilities)

quarterly



Six Considerations Indicate Federal Finance Will Produce Slower Growth

1. The government expenditure *multiplier is already negative*.

2. The composition of the spending suggests the multiplier is likely to *trend even more negative*.

3. The federal debt-to-GDP ratio moved above the deleterious 90% level in 2010 and has stayed above it *for more than five years*, a time span in which research shows the constriction of economic growth to be particularly severe. It will continue to move substantially further above the 90% threshold as debt suppresses the growth rate.

4. Debt is likely to restrain economic growth in an increasingly *nonlinear fashion*.

5. The first four problems produce a *negative spiral* from federal finance to the economy through the allocation of saving, productive investment, productivity growth and eventually to demographics.

6. The policy makers force themselves into a downward spiral when they rely on more debt in order to address poor economic performance. More of the same does not produce better results, only more of the same but worse, a situation we term a *policy trap*.



Bibliography of Government Expenditure Multiplier Studies

1. Alesina, Alberto, Carlo Favero and Francesco Giavazzi. "The Output Effect of Fiscal Consolidation Plans", NBER working paper 18336 (2015). Forthcoming in the peer reviewed Journal of International Economics.

2. Barro, Robert J. "The Ricardian Approach to Budget Deficits, The Journal of Economic Perspectives", Vol. 3 (Spring, 1989). "Macroeconomics A Modern Approach, Thomson/Southwestern" (2008).

3. Blanchard, Olivier, and Roberto Perotti. "An Empirical Characterization of the Dynamic Effects of Changes in Government Spending and Taxes on Output". Quarterly Journal of Economics (2002).

4. Dupor, William, and Rodrigo Guerrero. "Does Government Spending Create Jobs, Even During Recessions". The Regional Economist (2016).

5. Ilzetzki, Ethan, Enrique G. Mendoza and Carlos A. Vegh Gramont. "How Big (Small?) are Fiscal Multipliers?", IMF working paper (March 2011).

6. Owyang, Michael T., Valerie A. Ramey and Sarah Zubairy. "Are Government Spending Multipliers Greater during Periods of Slack? Evidence from Twentieth-Century Historical Data". American Economic Review, Volume 103, No. 3 (May 2013). "Government Spending Multipliers in Good Times and in Bad: Evidence from U.S. Historical Data". (June 9, 2016).

7. Perotti, Roberto. "Estimating the Effects of Fiscal Policy in OECD Countries", IGIER working paper 276 (December 2004).







oisingtor











Correlation Coefficients Between Gross Government Debt to GDP and Long Term Government Bond Yields in Four Major Economic Areas 1998-2016

annual

		Correlation Coefficients
	(A)	(B)
1.	U.S.	-0.95
2.	Euro Area	-0.85
3.	Japan	-0.80
4.	United Kingdom	-0.94

Source: HIMCO.



Total Nonfinancial Debt as a % of GDP (Excluding Off Balance Sheet Liabilities)

year ending levels



Source: Federal Reserve Board, Bureau of Economic Analysis. Through Q1 2016.

Business Debt as a % of GDP (Excluding Off Balance Sheet Liabilities) quarterly 80% 70% - Q4 2008 Q1 2016 = 73.42% Q4 2007 = 68 7%



Hoisingtor

Bibliography of Debt Studies Post 2009

1. Arcand, Jean-Louis, Enrico Berkes and Ugo Panizza. "Too Much Finance?" IMF Working Paper, Number 12/161 (June 2012).

2. Buttiglione, Luigi, Philip Lane, Lucrezia Reichlin and Vincent Reinhart. "Deleveraging? What Deleveraging." Geneva Reports on the World Economy 16, *International Center for Monetary and Banking Studies* (September 2014).

3. Cecchetti, Stephen G., M S Mohanty and Fabrizio Zampolli. "The real effects of debt." BIS Working Paper, number 352 (September 2011).

4. Checherita, Cristina and Philipp Rother. "The Impact of High and Growing Government Debt on Economic Growth, An Empirical Investigation for The Euro Area." European Central Bank Working Paper, Number 1237 (August 2010).

5. Dobbs, Richard, et al. "Debt and (Not Much) Deleveraging." McKinsey Global Institute (February 2015).

6. Jorda, Oscar, Moritz Schularick and Alan M. Taylor. "When Credit Bites Back: Leverage, Business Cycles, and Crises." NBER Working Paper, Number 17621 (November 2011).

7. Kumar, Manmohan S. and Jaejoon Woo. "Public Debt and Growth." IMF Working Paper, Number 10/174 (July 2010).

8. Mian, Atif and Amir Sufi. "Consumers and the Economy, Part II: Household Debt and the Weak U.S. Recovery." Federal Reserve Bank of San Francisco Economic Letter (January 2011).

Bibliography of Debt Studies Post 2009 (cont.)

9. Mian, Atif and Amir Sufi. House of Debt. University of Chicago Press, 2014.

10. Mian, Atif and Amir Sufi. "Household Leverage and the Recession of 2007-2009." *IMF Economic Review* Volume 58 (August 2010): Pages 74-117.

11. Pattillo, Catherine, Helene Poirson and Luca Antonio Ricci. "External Debt and Growth." *Review of Economics and Institutions* Volume 2, Number 3, Article 2 (Fall 2011).

12. Reinhart, Carmen M., Vincent R. Reinhart and Kenneth S. Rogoff. "Public Debt Overhangs: Advanced-Economy Episodes since 1800." *Journal of Economic Perspectives* Volume 26, Number 3 (Summer 2012): Pages 69-86.

13. Roxburgh, Charles, et al. "Debt and Deleveraging: The global credit bubble and its economic consequences." McKinsey Global Institute (January 2010).

14. Roxburgh, Charles, et al. "Debt and Deleveraging: Uneven progress on the path to growth." McKinsey Global Institute (January 2012).

15. Taylor, Alan M. "The Great Leveraging." NBER Working Paper, Number 18290 (August 2012).



Characteristics of Extremely Over-Indebted Economies

1. Growth is abnormally weak. Transitory spurts in economic growth, inflation and high-grade bond yields cannot be sustained because debt constrains economic activity.

2. Due to debt repayment obligations, economies are subject to structural downturns without the cyclical excesses of rising interest rates and inflation.

3. Deterioration in productivity is not inflationary but just another symptom of the debt overhang.

4. Traditional monetary and fiscal policy actions are asymmetric. They can restrain but not stimulate growth. Fiscal policy options exist provided they do not increase aggregate indebtedness.

5. Inflation falls dramatically, increasing the risk of deflation.

6. Treasury bond yields fall to extremely low levels and remain depressed for an extended period since the Fisher equation (1867-1947) states that the long risk-free yield is equal to the real yield plus expected inflation.

7. When multiple major economies are simultaneously over-indebted, the world lacks an engine of growth.

8. Indebtedness problems cannot be solved with more debt and if that is the course, the first seven symptoms will not only persist, they will worsen. Historically, debt overhangs in major economies have only been cured by a significant multi-year rise in saving of which different ways can achieve this result.

9. During periods of prolonged over-indebtedness, demographics may deteriorate reinforcing the negative influences of the first eight characteristics.

Nominal GDP, Y

year over year % change, quarterly



Real Per Capita GDP Growth, Selected Periods

average annual growth



olsingtor

Real Per Capita GDP Growth, Current Expansion vs. Prior Expansions

average annual growth



Nonfarm Business Sector: Productivity

6 year % change a.r., quarterly



M2 Money Stock





Composite M2 Growth for China, U.S., Japan and Europe



M2 Velocity annual



Long-Term Government Bond Yields Starting with Historic Panic Years: Japan 1989, U.S. 1873 and 1929

annual average

