Steve Keen's DebtWatch September 2007

Steve Keen's DebtWatch No 11 September 2007 Why dldn't they see it coming?

I expect--and hope--that the tenor of discussion at this month's RBA Board meeting will be very different to last month's. In August, I imagine, the community members of the Board listened sagely as the RBA's economists explained why the risk of future inflation had risen, why this justified a "pre-emptive strike" of raising interest rates, and then reluctantly agreed to the rise.

Charts
and text in this
report can be
used freely so
long as attribution
is given to either
Steve Keen or
Debtwatch

I hope that this month's discussion is more along the lines of "if you guys are the money experts, how come you didn't see it coming?"--it, of course, being the unfolding collapse of the US housing market, and the resulting extreme turmoil on financial markets.

That turmoil had begun before last month's meeting. No doubt, Board fears about its potential impact on Australia were assuaged:

- by reference to FRB Chairman Bernanke's assurances that losses in the US subprime mortgage
 market would be in the relatively trivial range of "in the order of between \$50 billion and \$100 billion"
 (Reuters: see http://www.reuters.com/article/ousiv/idUSN1933365020070719);
- by the assurance that the exposure of Australia's financial institutions to US subprime loans was limited; and
- by the observation that lending practices in Australia were far superior to those in the USA--with subprime lending accounting for 13 percent of US loans versus 1 percent for the equivalent Australian classification of non-conforming loans.

That is all so last month now.

- Bernanke observed last week that "global financial losses have far exceeded even the most pessimistic projections of credit losses on those loans" (see http://www.federalreserve.gov/boarddocs/speeches/2007/20070831/default.htm).
- Several Australian financial institutions and funds have folded, and quite a few more are facing the need to increase their rates above the 0.25% increase mandated by the rise in the cash rate; and
- If Australian lending practices are so much more prudent than those in the USA, how come
 household debt has risen more than three times faster in Australia than in the USA? (see Chart 1)
 And why can Australian households cope with an aggregate level of debt service that, clearly,
 American households can't handle? (see Chart 2; but also see my closing note below)

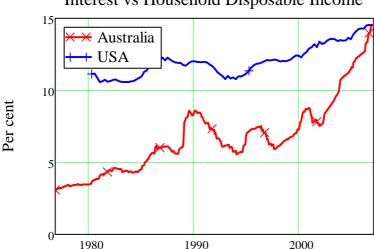
USA-Australia Household Debt Comparison

Chart 1: Household Debt vs GDP, USA and Australia

Household Debt to GDP ***USA** *** HAUSTRAIIA* *** USA trend (2.1%) *** Australian (6.8%) *** 40 *** 1960 *** 1980 *** 2000

Interest payments USA-Australia

Chart 2: Interest Payments vs Household Income, USA and Australia



Interest vs Household Disposable Income

Date

One explanation that I don't expect the RBA's economists will give the Board is possibly the most important: its economic models consider neither credit conditions, nor debt, nor even money itself. As a result, its technical advisors don't even pay attention to the key variables that brought us the subprime crisis in the first place.

In this, they are no different to the vast majority of economists, who share, as Federal Reserve Governor Bernanke and Board member Mishkin once put it:

"the widespread acceptance of the view that there is no long-run tradeoff between output (or unemployment) and inflation, so that monetary policy affects only prices in the long run"

(Bernanke and Mishkin, 1997, "Inflation Targeting: A New Framework for Monetary Policy?", Journal of Economic Perspectives 11, pp. 97-116)

As a consequence, most economists omit money, credit, debt and the like from their economic models--because they don't believe that they have any impact on the economy (apart from causing inflation).

As the subprime financial crisis spreads, I expect that Bernanke and Mishkin will look back on this statement as so much naive wishful thinking. Hopefully, the RBA's economists will do likewise. In

the meantime, they--and the RBA Board, having agreed to a rate rise at the last meeting--must now be wondering how long it will be before this "unanticipated monetary shock" forces them to consider lowering rates to avoid an even more serious economic downturn.

... And Deeper in Debt: Australia's obsession with borrowed money

The Centre for Policy Development (www.cpd.org.au) will be launching mini-book by me with the above title on September 18, at the Sydney Mechanics School of Arts (280 Pitt Street) at 12pm. Please email the Centre (contact@cpd.org.au) if you would like to attend, and/or reserve a copy of the report. Go to www.cpd.opg.au/events/...and-deeper-debt for more details.

Abbreviated Report

This is an abbreviated Debtwatch, since I'm putting most of my energy into ... And Deeper in **Debt**. My standard charts are appended below, but the majority of my analysis for this month will be reserved for that book.

Closing Note

While I play down the differences between Australia and the USA above, there are some aspects of the US market that do make it substantially worse than here--notably the practice of extending "teaser" loans to borrowers with initially low interest rates, where the gap between the initial and standard interest payments is added on to the principal. The "honeymoon" period on many of those loans expire in the next few months, and households who took them out will face the double whammy of increased debt and higher repayments.

But Australian households are still under substantial debt-stress, and the recent blowout in personal debt may indicate that it is really starting to bite hard. Last month's growth rate in personal debt was astronomical (see Chart 3), and it may be a sign that households are resorting to easily available credit-card debt to meet living expenses and still be able to pay the mortgage.

▶ Monthly Growth Rates

Chart 3: Interest Payments vs Household Income, USA and Australia



Aggregate Data and Trend Growth Rates

Debt yet again rose faster than GDP last month, with the ratio increasing a huge 2 per cent last month to 156.19 per cent (see Table One). In a worrying trend, given recent press reports about increases in bankruptcies, the increase in personal debt outpaced both mortgage and business debt by even more than it did the month before (see Table Two).

Table One: Aggregated Debt Summary

 Table One

 0
 1
 2

www.debtdeflation.com/blogs

0	"Summary"	IIT-t-I Division District	
	Summary	"Total Private Debt"	"Nominal GDP"
1	"Date (levels)"	2007.5	2007.25
2	"Levels (\$m)"	1636160	1024656
3	"Change Month \$m"	32608	7657.9
4	"Change Month %"	2.03	0.75
5	"Change Year \$m"	215385	73813
6	"Change Year %"	15.16	7.76
7	"Since 1990"	8.53	5.38
8	"Since 1980"	11.97	7.94
9	"Since 1964"	13.48	9.44
10	"Date (% GDP)"	2007.5	"N/A"
11	"As % of GDP"	156.19	100
12	"Change Month"	1.31	"N/A"
13	"Change Year"	6.33	"N/A"
14	"Since 1990"	2.88	"N/A"
15	"Since 1980"	4.09	"N/A"
16	"Since 1964"	4.16	"N/A"
	2 3 4 5 6 7 8 9 10 11 12 13 14	"Levels (\$m)" "Change Month \$m" "Change Month \$m" "Change Year \$m" "Change Year \$m" "Since 1990" "Since 1980" "Since 1964" "Date (% GDP)" "As % of GDP" "Change Month" "Change Year" "Since 1990" "Since 1980"	2 "Levels (\$m)" 1636160 3 "Change Month \$m" 32608 4 "Change Month %" 2.03 5 "Change Year \$m" 215385 6 "Change Year %" 15.16 7 "Since 1990" 8.53 8 "Since 1980" 11.97 9 "Since 1964" 13.48 10 "Date (% GDP)" 2007.5 11 "As % of GDP" 156.19 12 "Change Month" 1.31 13 "Change Year" 6.33 14 "Since 1990" 2.88 15 "Since 1980" 4.09

Table Two: Disaggregated Debt Summary

Table Two

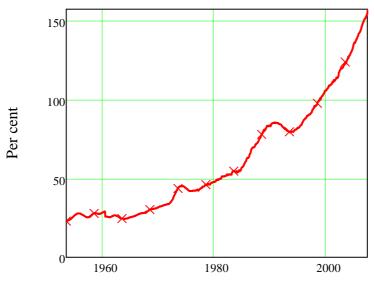
		0	1	2	3
	0	"Detail"	"Business"	"Mortgage"	"Personal"
	1	"Levels (\$m)"	615544	873819	146795
	2	"Change Mth \$m"	10979	15273	6354
	3	"Change Mth %"	1.82	1.78	4.52
D ₂ =	4	"Change Yr \$m"	94524	98899	21961
	5	"Change Yr %"	18.14	12.76	17.59
	6	"Since 1990"	4.84	14.72	5.38
	7	"Since 1980"	10.61	14.03	10.44
	8	"Since 1976"	11.15	14.31	11.23
	9	"As % of GDP"	58.66	83.27	13.99
	10	"Change month"	1.01	0.97	3.7
	11	"Change year"	8.89	3.93	8.39
	12	"Since 1990"	-0.85	9.25	-0.44
	13	"Since 1980"	3.01	6.01	2.62
	14	"Since 1976"	3.07	5.77	2.98

Debt to Income Ratios

▶ Debt to GDP (D02 & G12)

Figure 1

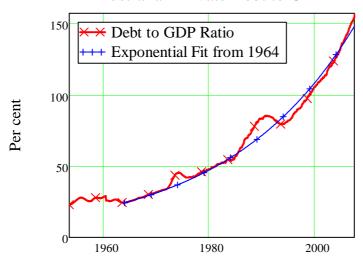
Australian Private Debt to GDP



▶ Debt to GDP Regression

Figure 2

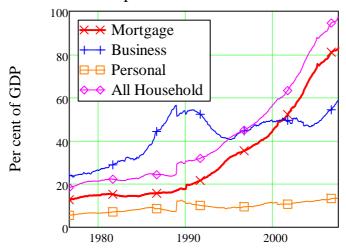
Australian Private Debt to GDP



▶ Debt Components to GDP

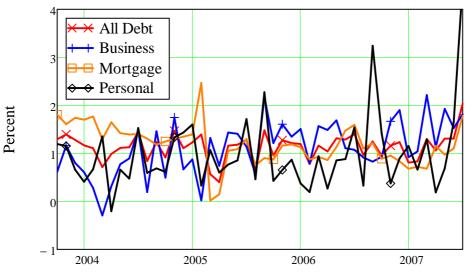
Figure 3

Components of Australian Debt



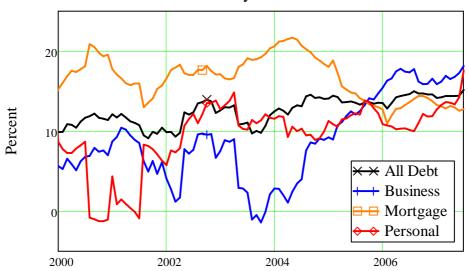
Monthly Growth Rates

Debt Monthly Growth Rates



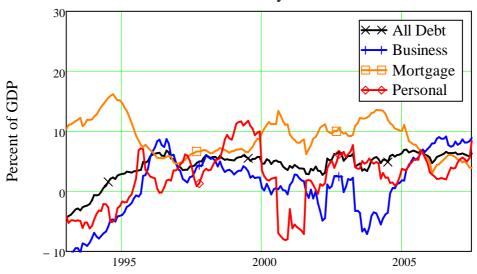
Yearly Growth Rates

Debt Yearly Growth Rates



▶ Ratios Yearly Growth Rates

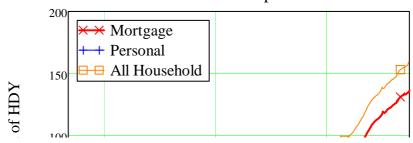
Debt Ratios Yearly Growth Rates



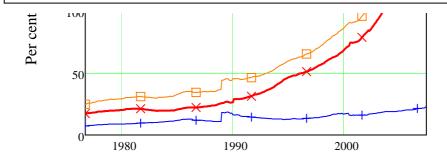
Debt to Household Disposable Income

Figure 4





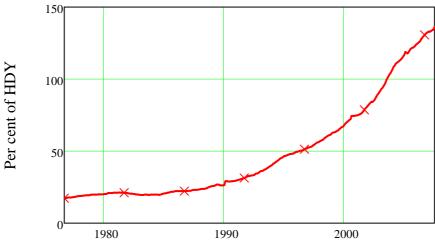
www.debtdeflation.com/blogs



Mortgage Debt to Household Disposable Income

Figure 5

Mortgage Debt to Household Disposable Income

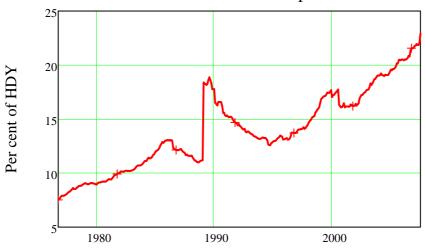


Debt to Household Disposable Income

(the big jump in personal and fall in business debt in 1989 was due to a change in bank classifications of debt types that caused a proportion of business debt to be reclassified as personal).

Figure 6

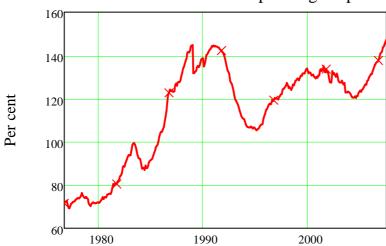
Personal Debt to Household Disposable Income



▶ Business Debt to GOS

Figure 7

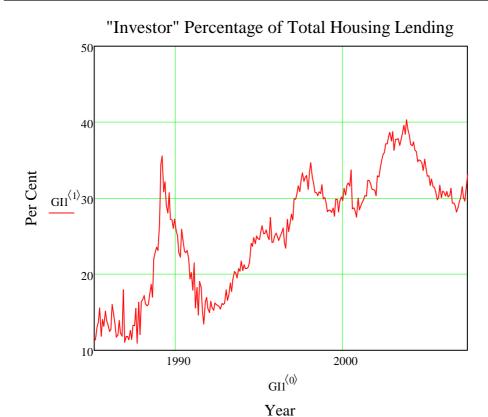
Business Debt to Gross Operating Surplus



Housing Finance Analysis

▶ Investment Percent Total Housing Lending

Figure 8



▶ Construction Percent Total Housing Lending

Construction Percentage of Total Housing Lending

10

10

1990

Year

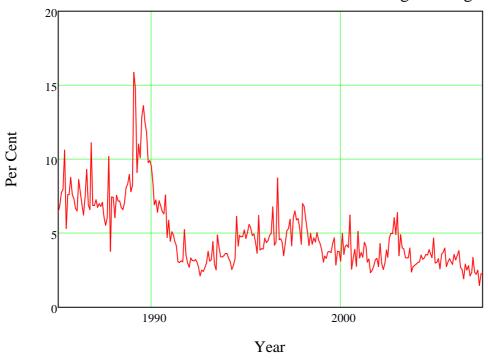
Figure 9

Investment Construction Percent Total Housing Lending

Figure 10

www.debtdeflation.com/blogs

Investor Construction Percent of Total Housing Lending



Personal Finance Analysis Figure 11

▶ Credit Card Data

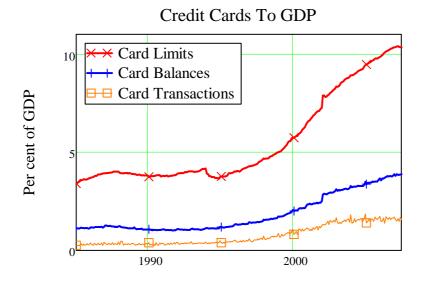


Figure 12

▶ Credit Card Data

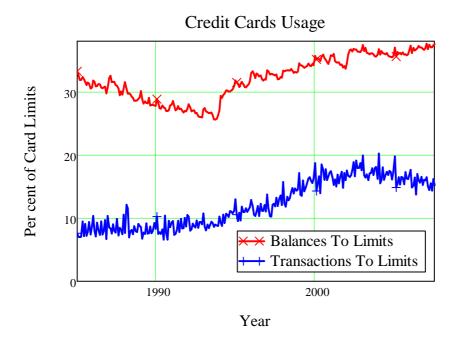
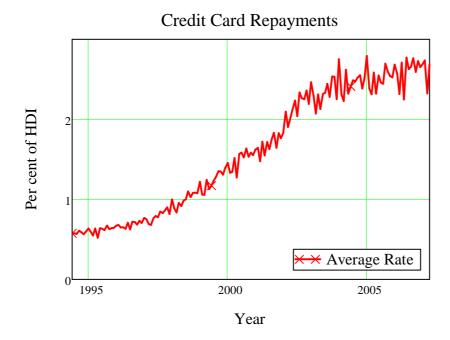


Figure 13

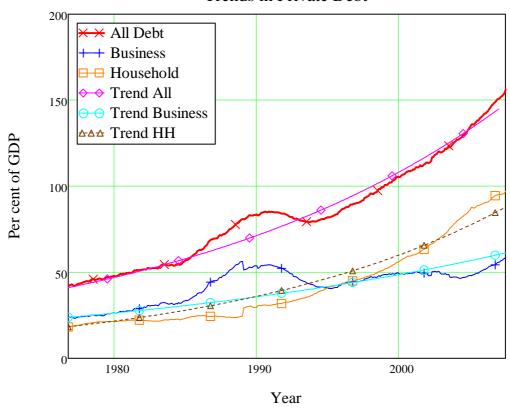
▶ Credit Card Repayments



▶ Debt components to Income

Figure 14

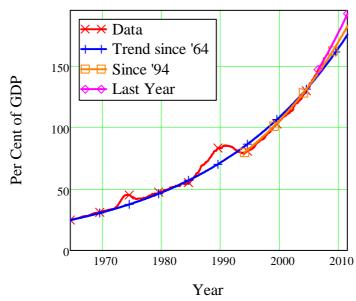
Trends in Private Debt



▶ Debt to GDP Trends

Figure 15





▶ Debt to GDP Exponential Growth Correlation Ratios

These tables show the approximate exponential rate of growth of debt from various starting dates, and the correlation coefficient between this exponential approximation and the data. The correlation is staggeringly high, especially for a data series which, from an equilibrium point of view, should have no trend, or at worst should move in the opposite direction to changes in the official rate of interest--thus keeping the debt repayment burden constant.

Table Three: Exponential Growth Rates & Correlations since 1964 & 1977

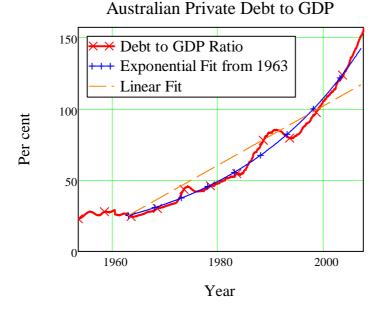
		0	1	2	3	4	5
Corr77 =	0	"Debt ratios"	"All"	"All"	"Business"	"Household"	"Mortgage"
	1	"Start Date"	"mid-1964"	1977	1977	1977	1977
		Growth rate"	4.17	4.05	3.09	5.07	5.77
	3	"Correlation"	99.11	98.43	73.46	98.11	98.08
	4						

Table Four: Exponential Growth Rates & Correlations since 1990

Corr90 =		0	1	2	3	4
	0	"Debt ratios"	"All"	"Business"	"Household"	"Mortgage"
	1	"Start Date"	1990	1990	1990	1990
	2	"Growth rate"	2.8	-0.97	6.81	9.32
	3	"Correlation"	96.46	-17.31	99.67	99.76

▶ Debt to GDP Linear vs Exponential Regressions

Figure 16



Debt Servicing Burden

▶ Interest Rates & Payments

Figure 17



1970

▶ Interest Payment Trends

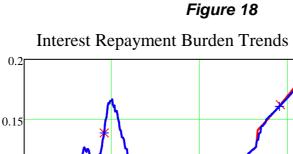
If trends in debt growth continue, then even without any increases in official interest rates, the interest repayment burden on the economy will exceed that of 1990 sometime between September 2001 and September 2009.

2000

Average Rate - Interest % GDP

1990

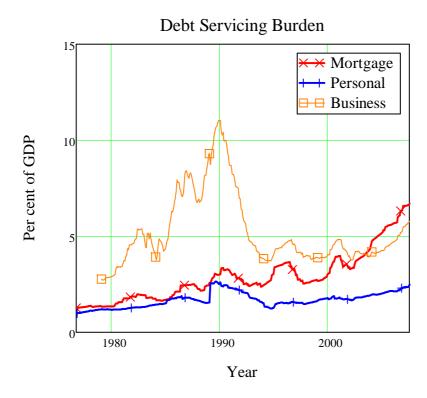
Year



0.15 Per Cent of GDP 0. 0.05 → Last Year From '94 0 1980 1990 2000 2010 Year

▶ Debt Servicing by Loan Type

Figure 19



▶ Household Debt Servicing

Figure 20

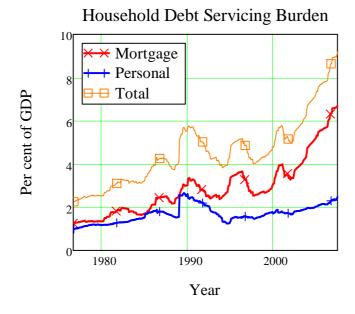
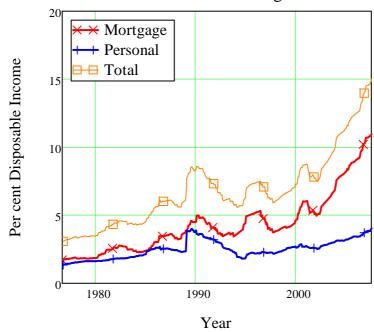


Figure 21

١

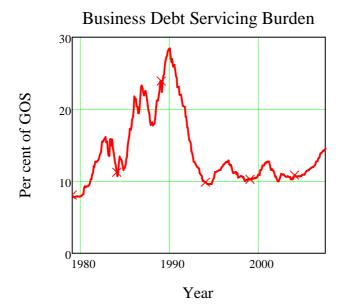
Household Debt Servicing Burden



It's obvious why high interest rates prior to 1990 brought the economy to a standstill when one sees the following graph: the interest servicing charge on business loans peaked at almost 30 per cent of Gross Operating Surplus. Even though business debt has recently started to rise as a proportion of GDP, the debt servicing burden remains in the range that applied in the early 1980s.

Figure 22

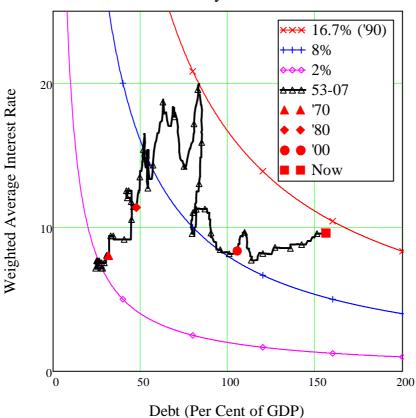




The debt repayment burden is affected by both the rate of interest, and the level of debt. This chart shows the percentage of GDP that is required to pay the interest on outstanding debt, as a function of average interest rates (the vertical axis) and the debt to GDP ratio (horizontal axis). We are approaching the pain threshold that applied back in 1990, when debt servicing consumed 16.7% of GDP. The dramatic rise in household debt in the last thirteen years has almost negated the impact of falling average interest rates.

Figure 23

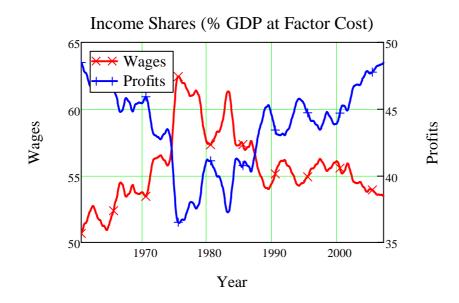
Interest Payment Burden



Income Shares

Þ

Figure 24



١

In the "it's an ill wind that blows no good" category falls the impact of rising debt levels on the share of income going to finance capital. Having shown no trend at all between 1960 and 1990, it has

suddenly blown out in the last seventeen years, to almost four times the previous average level.

Somehow I doubt that this is a good thing for the rest of the economy. It is instead a very potent indicator of the extent to which financial commitments are a burden upon the productive sectors of the economy.

Figure 25

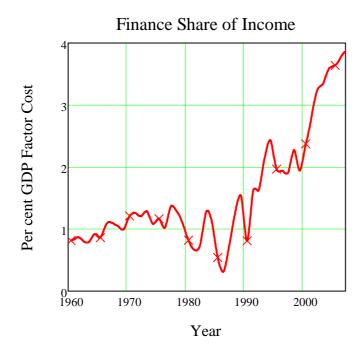
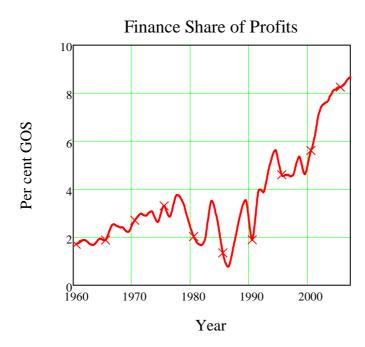


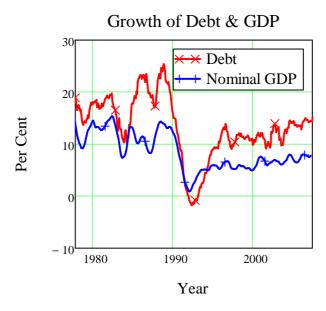
Figure 26





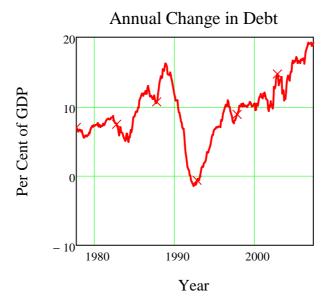
Debt contribution to Effective Demand Figure 27

Þ



Þ

Figure 28



Þ

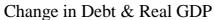
Figure 29

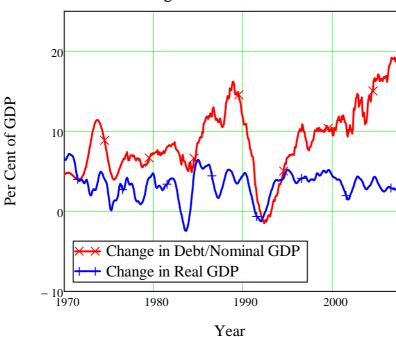
Contribution of Change in Debt to Demand



Þ

Figure 30





Ignore for a moment the labels on the next graph, and simply imagine that they were indicators on some medical or industrial gauge. Which series would imply an out of control process to you--the red one or the blue one?

Of course, with the bias economists have developed about inflation--and the related blind eye towards debt levels--they ignore the red line, see only the blue line, and worry that this has recently moved up somewhat (even though, over the longer term, it has clearly fallen substantially).

Þ

Figure 31



Monetary Aggregates

(The M1 series was affected by a substantial reclassification of assets in early 2002. I expect that the apparent downward trend in the debt to M1 ratio across 2001 can be ignored as a statistical anomaly, later corrected by the reclassification)

Figure 32

▶ Debt to Money

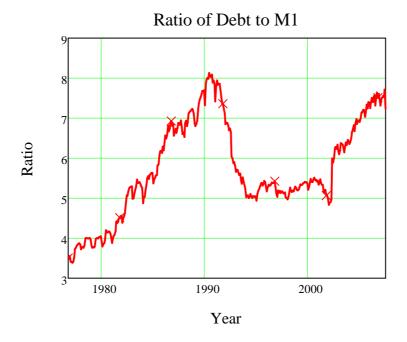


Figure 33

▶ Debt to Money

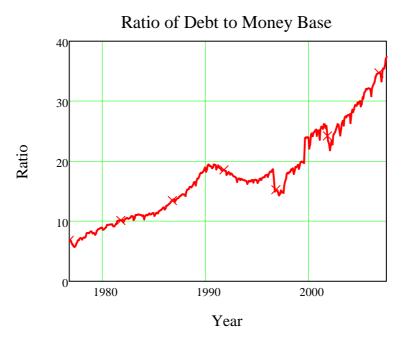
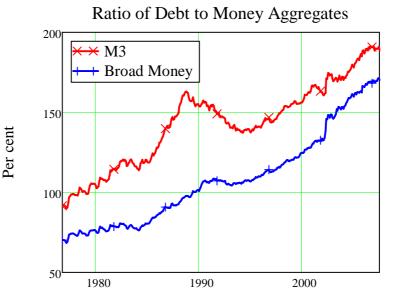


Figure 34

Debt to Money



Year

▶ Debt to Money

Figure 35
Ratio of Debt to Money & GDP

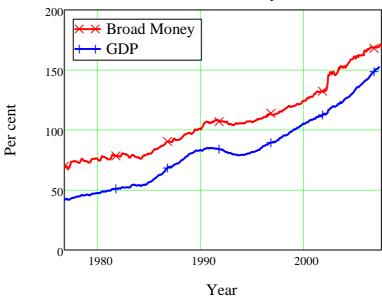
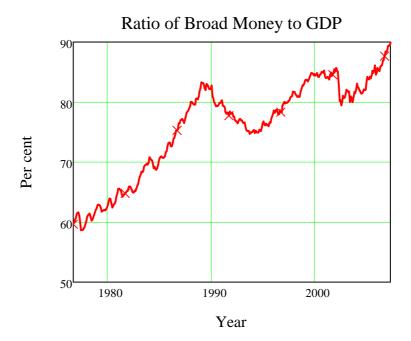


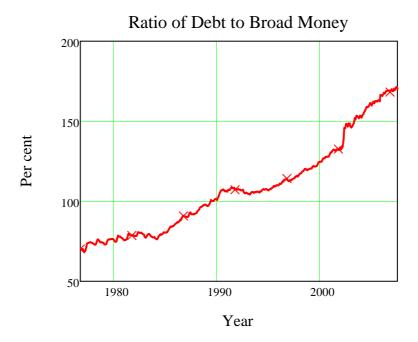
Figure 36

▶ Debt to Money



▶ Debt to Money

Figure 37



International Data

USA Data and USA-Australia Comparisons

Figure 38

USA-Australia Household Debt Comparison

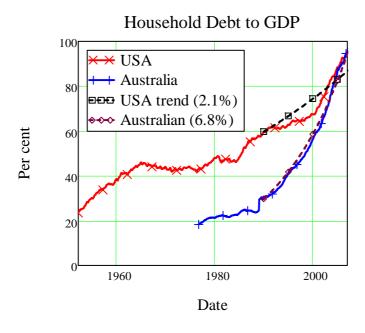
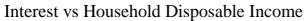


Figure 39

Þ



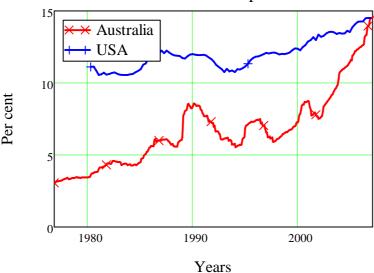
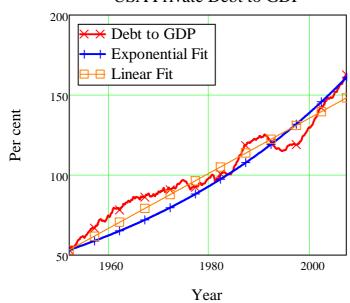


Figure 40

USA Private Debt to GDP

USA Private Debt to GDP



DECD Composite Leading Indicators

Fiaure 41

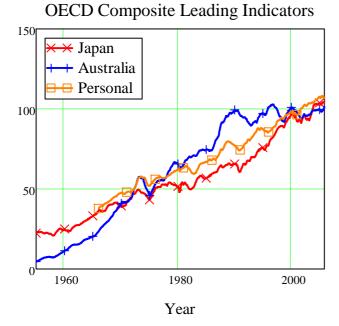


Figure 42

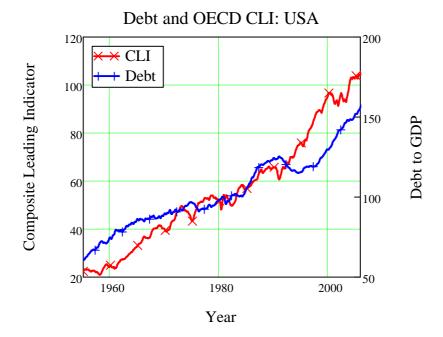


Figure 43

Japan was the last major economy to experience a debt deflation. Though I do not think the debt data here is comparable to that shown for the USA and Australia (which is sourced from their respective Central Banks), the role of debt in bringing the economy to a standstill is obvious from this chart. Equally obvious is how economically debilitating the process of reducing debt to income levels was--and also ho necessary it was to be able to restore growth.

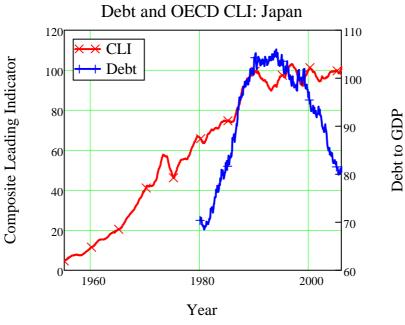


Figure 44



Figure 45