This Time is Different, Again? The United States Five Years after the Onset of Subprime

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22. October 2012

Online at http://mpra.ub.uni-muenchen.de/51257/
MPRA Paper No. 51257, posted 7. November 2013 03:07 UTC
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Abstract

We focus on four previous systemic financial crises that the United States has experienced since 1870. These include the crisis of 1873 (called the Great Depression until the 1930s), the 1893 crisis, the panic of 1907, and the Great Depression. Given that all of the earlier crises predate the creation of deposit insurance in 1933, and that three of the four crises predate the establishment of a central bank in the United States, one could well quibble about the claim that the relevant institutions are more comparable across centuries in the United States than across advanced countries over the last thirty years. Be that as it may, the comparison across systemic US financial crises does not: (i) support the view that the US recoveries from pre-WWII systemic crises were any swifter than the general cross-country pattern and (ii) that the US has fared worse this time around than in previous systemic crises.

JEL: E6, E44, F3, F30, N20 and N0.

*This note was published in Vox EU, October 22, 2012, This time is different, again? The US five years after the onset of subprime.
Five years after the onset of the 2007 subprime financial crisis, GDP per capita in the United States remains below its initial level. Unemployment, although down from its peak, is still hovering near 8 percent. Rather than the V-shaped recovery that is typical of most post-war recessions, growth has been slow and halting. Based on our research (Reinhart and Rogoff, 2009), this disappointing performance should not be surprising. We have presented evidence that recessions that are associated with a *systemic* banking crises tend to be deep and protracted and that this pattern is evident across both the historical and cross country experience. Subsequent academic research using different approaches and samples have found similar results. (See, for example, Claessens, Kose and Terrones, (2011) Papell and Prodan (2011), and Reinhart and Reinhart (2010) and Jorda, Schularick, and Taylor, (2012).)

Recently, however, a few op-ed writers have argued that in fact, the United States is “different.” International comparisons are not relevant because of profound institutional differences from other countries. A recent spate of op-ed writers, including Hevin Hassett and Glenn Hubbard, Michael Bordo and John Taylor, have stressed that the United States is also “different” in that recoveries from recessions associated with financial crises have been rapid and strong. Their interpretation is at least partly based on a study by Bordo and Haubrich (2012), which examines the issue for the US since 1880.

In this note, we question their “interpretation” of the US historical track record, which is incorporated in Reinhart and Rogoff (2009), where we present results of 224 historical banking crises from around the world, including pre-2007 banking crises in the United States. Perhaps part of the confusion in the recent “US is different” op-eds is a failure to distinguish systemic financial crises from more minor ones and from regular business cycles. A systemic financial...
crisis affects a large share of a country’s financial system. They are quite distinct from less severe events that clearly fall short of a full-blown systemic meltdown, and are referred to in the literature as “borderline” crises. The distinction between a systemic and a borderline event is well established according to widely accepted criteria and is clear in both our work and that of other scholars. (See, for example, Caprio and Klingbiel, 1996, Kaminsky and Reinhart, 1999, Reinhart and Rogoff (2009) as well as several contributions from Laeven and Valencia—the latest dated June 2012.)

Indeed, in our initial paper on this topic (Reinhart and Rogoff, 2008), we showed that systemic financial crises across advanced economies had far more serious economic consequences than borderline crises. Our paper, written nine months before the collapse of Lehman in September 2009, showed that by 2007, United States already shared many of the key recurring precursors of a systemic financial crisis: a real estate bubble, high levels of debt, chronically large current account deficits, and signs of slowing economic activity. Today, there can be little doubt that the United States has experienced a systemic crisis. This is, in fact, the first systemic financial crisis the United States has experienced since the Great Depression. Before that, notable systemic post-Civil War US financial crises include those dated in 1873, 1893 and 1907.

But also important is how a recovery is measured, and how success is defined. The recent op-eds focus on GDP growth immediately following the trough (usually 4 quarters). For a normal recession, the restoration of positive growth is typically a signal event. In a v-shaped recovery, the old peak level of GDP is quickly reached, and the economy returns to trend within a year or two. In Reinhart and Rogoff (2009, ch. 14), we examine both levels and rates of change of per capita GDP; recovery is defined by the time it takes for per capita GDP to
“recover” or return to its pre-crisis peak level. For post-WWII systemic crises it took about 4 ½ years to regain lost ground; in 14 Great Depression episodes around the world (including the US) it took 10 years on average. A focus on levels is a more robust way to capture the trajectory of an economy where the recovery is more U or nearly L-shaped than V-shaped. It also avoids exaggerating the strength of the recovery when after a deep recession there is a large cumulative decline in the level GDP. An 8 percent decline followed by a subsequent 8 percent increase does not bring the economy back to its starting point. Taylor’s chart shows the recovery from the Great Depression as the strongest in the history of the United States, even though (as we show in our book) it took about a decade for the US to reach the same level of per capita income as its starting point in 1929.

Working with long historical series we have stressed per capita measures, as US population growth has fallen from 2-2.5 percent per annum in the late 1800s to less than one percent in more recent times. Put differently, in the early 1900s a year with 2 percent real GDP growth left the average person’s income unchanged; in the modern context, 2 percent annual GDP growth means slightly more than one percent increase in real income per person. Population growth changes over time are even more pronounced in other countries. The impact of cumulative population growth even within an individual crisis episode is significant, as the recovery process usually spans 4-10 years.

Even allowing for all the above issues does not seem to entirely account for differences in our interpretation of the facts from the Hassett-Hubbard, Bordo and Taylor op-eds. The narrative
in the Bordo Haubrich paper emphasizes that “the 1907-1908 recession was followed by vigorous recovery.” The Panic of 1907 does indeed fit the standard criteria of a systemic crisis (and one with a global dimension at that). Yet, as we review below, the level real GDP per capita in the US did not return to its pre-crisis peak of 1906 until 1912. Is this a vigorous recovery? The US unemployment rate (not examined in the Bordo-Haubrich study) was 1.7 percent in 1906 and climbs to 8 percent in 1908 does not return to the pre-crisis low until 1918. The aftermath of the systemic banking crisis of 1893 is worse than the 1907 episode, and the Depression of the 1930s is worse still. According to our (2009) metrics, the aftermath of the US financial crisis has been quite typical of post-war systemic financial crises around the globe. If one really wants to focus just on United States systemic financial crises, then the recent recovery looks positively brisk.

**Summary of Findings**

We focus on four previous systemic financial crises that the United States has experienced since 1870. These include the crisis of 1873 (called the Great Depression until the 1930s), the 1893 crisis, the panic of 1907, and the Great Depression. Given that all of the earlier crises predate the creation of deposit insurance in 1933, and that three of the four crises predate the establishment of a central bank in the United States, one could well quibble about the claim that the relevant institutions are more comparable across centuries in the United States than across advanced countries over the last thirty years. Be that as it may, the comparison across systemic US financial crises does not: (i) support the view that the US recoveries from pre-WWII systemic crises were any swifter than the general cross-country pattern and (ii) that the US has fared worse this time around than in previous systemic crises. Standard errors have to be
taken with a grain of salt for such small sample. On the whole, however, the conclusion would have to be that in the five years since the onset of the financial crisis the United States has performed better in terms of output per capita and unemployment than in the previous crises, even if one excludes the Great Depression.

The reader will note that our comparisons relate to the period dating from the onset of the crisis, and do not delineate between the “recession” period and the “recovery” period. Elsewhere we have explained why this distinction is somewhat meaningless in the aftermath of a financial crises, where false dawns make it very difficult to detect the start of an ultimate recovery in real time. That is why we have consistently argued that the popular term “Great Recession” is something of a misnomer for the current downturn, which we have argued would be better thought of as “the Second Great Contraction” (after Friedman and Schwartz’s characterization of the Great Depression as the Great Contraction.)

**US Historical episodes**

As in our work on the aftermath of financial crisis (Reinhart and Rogoff, 2009), we start our analysis by anchoring the crisis episode at the peak of economic activity, which usually occurs either the year immediately before the crisis or the crisis year. For real per capita GDP we use the Total Economy Database, a multi-country database originated by Angus Maddison and now updated by the Conference Board: the most recent annual observation is 2011. The US data is available from 1870 onward. For US unemployment the data is taken from the Historical Statistics of the Unites States, where the unemployment rate series is available from 1890 onwards (and is consistent with the Bureau of Labor Statistics for the modern era.)
Figure 1 compares the still unfolding (2007) financial crisis to earlier US systemic financial crises of 1873, 1892, 1907 and 1929. As the figure illustrates, the initial contraction in per capita GDP is smaller for the recent crisis than in the earlier crises (even when the Great Depression of the 1930s is excluded). Five years on, the current level of per capita GDP, relative to baseline, is higher than the corresponding five-crisis average that includes the 1930s. The recovery of per capita GDP after 2007 is also slightly stronger than the average for the systemic crises of 1873, 1893 and 1907. Although not as famous as the Great Depression, the depression of the 1890s paints a dismal picture; in 1896 real per capita GDP was still 6 percent below its pre-crisis level in 1892.

So how many years did it take for per capita GDP to return to its peak at the onset of the crisis? For the 1873 and 1893 (peak is 1892) crises it was 5 years; for the 1907 (peak is 1906) panic 6 years and for the Depression 11 years. In output per capita timelines, at least, it difficult to argue that “the US is different”. It can hardly be said to have enjoyed vigorous output per capita recoveries from past systemic financial crises.
The notion the US exhibits rapid recovery from systemic financial crises does not emerge from the unemployment data either. As we noted, the US unemployment rate data only begins in 1890, which eliminates the 1873 crisis from the pool. The aftermath of remaining four crises are shown in Figure 2. The 2007 crisis is associated with significantly lower unemployment rates than both the Depression of the 1930s and the depression of the 1890s; it is more in line with the unemployment increases observed following the Panic of 1907. As shown in the inset to the figure, the unemployment rate, which was 1.7 percent in 1906 was near 6 percent five years later.
In the 1892 crisis, the unemployment rate started at 3 percent in 1892, shot up to over 18 percent, and still remained above 14 percent in 1896. In effect, the unemployment never dips back to below 3 percent until 1906 (on the eve of the next crisis). The pattern during the Great Depression of the 1930s, is off the charts (Eichengreen and O Rourke, 2010 is a must read on this comparison). These historic US episodes are in line with the findings in Reinhart and Reinhart (2010), who examine the decade after post-WWII severe/systemic financial crises in both advanced economies and emerging markets and document that in 10 of the 15 episodes examined the unemployment rate had not returned to its pre-crisis level in the decade following the crisis. For the 1893 and 1929 Depression it was 14 years; for 1907 it was 12 years before the unemployment rate went back to its pre-crisis level.

Figure 2. Average Annual Unemployment Rate in the Aftermath of Systemic Banking Crises in the United States, 1892-2011
I. Reflections

We have found that, while no two crises are identical, there are some robust recurring features of crises that cut across time as well as across national borders. Common patterns as regards the nature of the long boom-bust cycles in debt and their relationship to economic activity emerge as a common thread across very diverse institutional settings. This, in fact, is precisely a key if surprising takeaway from our 2009 book.

The most recent US crisis appears to fit the more general pattern that the recovery process from severe financial crisis is more protracted than from a normal recession or from milder forms of financial distress. There is certainly little evidence to suggest that this time was worse. Indeed, if one compares US output per capita and employment performance to other countries that suffered systemic financial crises in 2007-08, the US performance better than average.

Of course this does not mean policy is irrelevant. Quite the contrary, in the heat of the recent financial crisis, there was almost certainly a palpable risk of a Second Great Depression. However, although it clear that the challenges in recovering from a financial crises are daunting, an early recognition of the likely depth and duration of the problem would certainly have been helpful. It would have been helpful in assessing various options and their attendant risks. It is not our intention here to closely analyze policy responses that frankly, may take years of analysis to sort out. Rather, our aim is to clear the air that somehow the United States is different. The latest US financial crisis, yet again, proved it is not.
References


