The US economy since the crisis: slow recovery and secular stagnation*

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Abstract:

The US economy has experienced a slowdown in its long-term growth and job creation that predates the Great Recession. The stagnation of output growth stems mainly from the depressing effects of rising inequality on aggregate demand, while both increased inequality and the delinkage of employment from output have their roots in profound structural changes to the US industrial structure and international position. Stagnation tendencies were temporarily offset by debt-financed household spending before the financial crisis, after which households became more financially constrained. Meanwhile, fiscal policy has shifted toward austerity while business investment has failed to keep up with the boom in corporate profits in spite of low interest rates. Slower US growth in turn exacerbates the global slowdown as it implies smaller injections of demand into global export markets.

Keywords: US economy, secular stagnation, jobless recovery, financial crisis, Great Recession

JEL codes: E20, E32, O51

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1 INTRODUCTION

The recovery from the Great Recession of 2008–9 has been the slowest and longest of any cyclical upturn in the US economy since the Great Depression of the 1930s. This slow and prolonged recovery was partly a result of the severity of the financial crisis that provoked the recession and the need to repair balance sheets in its aftermath (Koo 2013) as well as inadequate policy responses that failed to provide sufficient stimulus. Nevertheless, the sluggish recovery since 2009 also reflects a continuation of a longer-term growth slowdown, which was evidenced earlier in the jobless recovery and weak expansion after the milder recession of 2001. These two slow cyclical recoveries are symptomatic of underlying structural changes that have created a tendency toward secular stagnation in the US economy. I will argue that this tendency pre-dates the financial crisis, but its emergence was partly obscured by the financial bubbles and debt-led boom that preceded (and ultimately sparked) the crisis.

Before proceeding further, I would like to clarify that I am using the term "secular stagnation" here in a descriptive sense, i.e. to refer to a long-term tendency toward chronically slow average growth as opposed to (or in addition to) a sharp short-run downturn or slow cyclical recovery. In regard to theories of stagnation, my analysis is largely consistent with the 'Steindlian' theoretical perspective discussed by Hein (2016). I specifically do not mean to endorse the more neoclassical view of secular stagnation in Summers (2014, 2015), which focuses on a supposedly negative 'natural' (equilibrium, real) interest rate based on a loanable funds approach (see also Backhouse/Boianovsky 2016) – although my analysis does share some common ground in regard to hysteresis effects and underlying causes (especially on the demand side). However, a full discussion of alternative theoretical perspectives on stagnation would be beyond the scope of this paper.

The rest of this article is organized as follows. Section 2 presents data that demonstrate the existence of a tendency toward secular stagnation in the US economy. Section 2 analyses the underlying causes of this tendency. Section 3 briefly discusses the implications of this tendency for the global economy. Section 4 concludes.

2 INDICATORS OF SLOWER RECOVERIES AND STAGNATION TENDENCIES

In arguing for the existence of a stagnation tendency in the US economy, I do not mean to deny that post-crisis US economic performance looks *relatively* good according to certain comparative benchmarks. First, the US economy did recover from the financial crisis of 2008 better than it did following the stock market crash of 1929, as emphasized by Bernanke (2015) and Furman (2015). As a result of the financial bailouts, temporary fiscal stimulus and strong monetary policy responses – however much these may be legitimately criticized for various reasons (some of which are discussed below) – the US averted another Great Depression, and that is no small accomplishment. Nonetheless, avoiding a deep depression could be considered a low standard for modern economic performance, and does not preclude the possibility that the US has entered into a period of a chronically lower *trend* rate of growth.

Second, the US economy has recovered more quickly and more fully than most other advanced economies (especially Europe and Japan) since 2008–9. Furman (2015) shows that US civilian employment and private domestic final purchases (the sum of consumption plus investment) had both recovered beyond their pre-recession peaks by 78 months after the recession began (January 2008), while the corresponding variables in the Euro Area still remained below their January 2008 levels after the same amount of time. But this too is a low bar, given the abysmal performance of the European and Japanese economies in recent years

and their dysfunctional policy regimes (De Grauwe 2013; Garside 2016).

In terms of its own historical performance, however, the deterioration of US growth in recent years compared with earlier periods becomes apparent. As Table 1 shows, each US business cycle since the early 1980s has exhibited slower growth in the recovery and expansion phases than the one before it, whether we measure this by the initial recovery, trough-to-peak, or peak-to-peak. Moreover, the cyclical performance of employment has worsened even more than that of output. As demonstrated in Table 2, employment has taken much longer to recover to its pre-recession peaks in the last several business cycles (all of those since the early 1980s) compared with gross domestic product (GDP), which is why these episodes (starting with the 1990–91 recession) have often been called 'jobless recoveries' (Papadimitriou et al. 2013). Although the 2001 recession was relatively shallow and short in terms of GDP, which took only 3 quarters to recover, employment took 16 quarters to recover to its pre-recession peak. The 2008–9 recession was, of course, much deeper and more prolonged in terms of output, but also involved the slowest recovery of employment since the Great Depression (25 quarters or more than six years, compared with 15 quarters or almost four years for GDP).

[Tables 1 and 2 about here]

The worsening performance of employment compared with output is not simply a matter of employment being a lagging indicator in the business cycle (although it often is). The slower recovery of employment in the last few cycles is also symptomatic of a deeper and more long-term malaise affecting the US job market. Total US nonfarm employment grew by an average of 1.8 million per year in 1960–79 and 2.0 million per year in 1980–99. From 2000 through 2015, however, the average increase in employment was only about 762,000 jobs per year, or roughly two-fifths of the rate achieved during the previous four decades.¹

¹ Author's calculations based on data from US Bureau of Labor Statistics (BLS). Data for 2015 include preliminary figures for October and November. More details on all data sources are given in the appendix.

Thus, the stagnation in US employment began seven years before the financial crisis broke out in 2007. Moreover, the reduced rate of job creation is not a reflection of the aging of the population, since the employment-population ratio for prime working-age workers (ages 25–54) fell by 4.3 percentage points (from 81.5 to 77.2 percent) between 2000 and 2015 (BLS).² Also, the real income of the median US household began to grow more slowly in the 1970s than it had in the previous two decades, and trended downward over the whole period 2000–13.³

Thus, the deteriorating cyclical performance of the US economy since around 2000 – especially in the labour market – has already translated into slower long-term growth trajectories for output, employment, and family incomes. If one follows Kalecki's (1971: 165) dictum that 'the long-run trend is but a slowly changing component of a chain of short-period situations; it has no independent entity', then the succession of ever-worsening cycles (in terms of falling GDP growth rates and slower recovery of employment) implies a corresponding worsening of the long-term trend. Even if one takes the most conventional measure of average annual GDP growth, this registered only a 1.9 percent rate from 2000–15 compared with 3.3 percent in 1980–99 and 3.9 percent in 1960–79 (BEA),⁴ and as noted above the long-term trends in employment and median family incomes have deteriorated even more.

Alternatively, if one views long-run growth as driven by the creation of productive capacity on the supply side, as in most classical and neoclassical theories, then one has to consider how the reduced accumulation of both physical and human capital during this prolonged period of depressed actual growth has diminished the growth of potential output for

² Data for 2015 are averaged for January–November.

³ See chart 'Real median family income, 1947–2013 (2013 dollars)', which updates (as of 23 September 2014) Figure 2A in Mishel et al. (2012), <u>http://www.stateofworkingamerica.org/chart/swa-income-figure-2a-real-median-family/</u>.

⁴ Data for 2015 are for the first three quarters.

the foreseeable future. In a variety of ways, economists such as Reifschneider et al. (2013), Ball (2014), and Blanchard et al. (2015) have recognized these 'hysteresis' effects. That is, as business investment has flagged (as will be discussed in more detail below) and labour skills have eroded (as a result of prolonged unemployment, exit from the labour force or reduced ability to finance education), the depressed economic conditions that have prevailed since the crisis have dramatically lowered projections of future full-capacity output, thereby reducing the economy's growth potential on the supply side as well as on the demand side.

3 CAUSES OF SECULAR STAGNATION

3.1 Demand-side causes

In terms of underlying causes, the prime culprit in the weakening of aggregate demand is the worsening of inequality in US society, which impacts the largest component of GDP: consumption. Over the past few decades, inequality has increased along multiple dimensions, including larger gaps between more and less educated workers, a falling labour share of national income and a widening of the gaps between different quintiles or percentiles in the household distribution of income (Mishel et al. 2012).

One important driver of widening inequality is the slower growth of real wages and benefits compared to labour productivity. Real hourly compensation closely tracked output per hour until the 1970s, but has grown at a much slower rate than productivity since then (BLS). As a result, there has been a tendency for the labour share of corporate income to decline, although this tendency did not clearly emerge until somewhat later as a result of differences in the price indexes used in calculating real output and compensation. The nonfinancial corporate labour share in nominal terms exhibited the standard 'stylized fact' of

cyclical variations along a roughly constant trend up to the late 1990s, but has declined sharply since 2000 (BLS).⁵

In regard to the personal distribution of income, family income tended to increase at roughly equal rates for all quintiles during the period 1947–79. Since then, however, the changes have been entirely in a disequalizing direction, as income growth rates have been higher in each higher quintile compared with the one below it – and highest for the top 5 percent (Mishel et al. 2012). From 2007–13, only the top 5 percent had any positive gains whatsoever; all other quintiles lost, and the lower the quintile, the greater were the income losses.⁶ Also, the data in Piketty (2014) reveal the tremendous increases in the income shares of the top 1 percent and top 0.01 percent in the US since the 1970s.

Based on post-Keynesian or neo-Kaleckian theory, such increasing inequality would be expected to have a depressing effect on consumption, which is the largest component of aggregate demand. Many studies (e.g. Onaran et al. 2011; Onaran and Galanis 2012) have confirmed that US consumption is an increasing function of the wage share of national income. In addition, Cynamon and Fazzari (2015) have shown that, by correcting the US national income accounts for various misleading imputations and focusing on actual expenditures of households for consumption and housing, a clear correlation emerges between income distribution and expenditure rates. Specifically, Cynamon and Fazzari show that worsening inequality between the top 5 percent and the bottom 95 percent has contributed to a sharp weakening of correctly measured household spending.

Of course, US consumption expenditures remained quite robust throughout the 1990s and up until the outbreak of the financial crisis in 2007. However, the negative impact of

⁵ Prior to 2000, the labor share for nonfinancial corporations tended to rise in the latter part of cyclical expansions and then decline after recession troughs.

⁶ See chart 'Average family income growth, by income group, 1947–2013', which updates (as of 24 September 2014) Figure 2C in Mishel et al. (2012), <u>http://www.stateofworkingamerica.org/chart/swa-income-figure-2c-average-family-income/</u>.

widening inequality on consumption was offset in the late 1990s and early 2000s by massive increases in household debt, which permitted middle-class families to increasing their spending in spite of stagnant incomes, as argued by numerous economists (see Palley 2012; Hein/Mundt 2013; Setterfield 2013; Cynamon/Fazzari 2015; among others). Most of the growth in household debt occurred in residential mortgages, which contributed to the housing boom/bubble, but some of the funds borrowed against home equity could be used directly or indirectly to pay for additional consumption. Meanwhile, real housing prices climbed by 60 percent in the decade leading up to their peak in 2006 and then cratered during the ensuing financial crisis (Blecker 2014: 702). This debt-led consumption-and-housing boom was of course unsustainable, and the financial crisis put an end to the ability of US households to sustain such high levels of consumption and housing expenditures via borrowing.

Now, one might think that the rise in the profit share in the 2000s (which is the mirror image of the fall in the wage share discussed earlier) might have led to increases in investment that could have compensated for the weakness of consumption, especially during the recovery from the 2008–9 crisis. In reality, however, the share of gross business fixed investment in GDP has trended downward since 2000, in spite of a sharp increase in the profit share of corporate value added since that time (see Figure 1). Of course, investment does follow profitability in terms of short-run cyclical fluctuations, with some lags, but the longer-term trends in these two variables are moving in opposite directions, and investment has not shown the same kind of robust increase during the post-2009 recovery that one sees in profits. Furthermore, this weakening of investment has occurred despite interest rates that are at record lows as well as profits that are at record highs. Evidently, firms are responding mostly to the lack of demand growth in making their investment decisions, which shows that a strong accelerator effect dominates in the investment function over profitability or cost-of-capital factors, especially in the long term (see Chirinko et al. 2011; Schoder 2013).

[Figure 1 about here]

Meanwhile, housing investment – which is generally more sensitive to interest rates than business investment – had only recovered to levels that would normally be typical of a recession as of 2014–15.⁷ The still-depressed level of residential construction is, of course, a reflection of the severity of a financial crisis in which the housing sector was the epicentre. But the continued weakness of housing and business investment combined demonstrates the weak impact of the monetary policies (both conventional policies, which reached the 'zero lower bound' for short-term interest rates until December 2015, and 'quantitative easing' policies designed to lower long-term yields) that have been the main instruments for trying to restore economic growth since the crisis. While those policies may have helped to rescue the financial sector and prevent a more severe depression, they have failed to engender a robust recovery of either business investment or housing construction.

Unfortunately, fiscal policy has not stepped up to compensate for the weaknesses of private spending and the relatively ineffective monetary stimulus during the post-crisis period. Of course, automatic fiscal stabilizers continued to operate, as seen especially in the sharp rise in the US budget deficit in 2008–9. But only small and short-lived fiscal stimulus policies were adopted under both the Bush and Obama administrations (although the Obama stimulus of 2009–10 was larger and more consequential than the minuscule Bush tax rebate of 2008). The government deficit peaked at about 13 percent of GDP in the third quarter of 2009 (BEA), mostly as a consequence of the recession rather than the Obama stimulus. Although this surely helped to prevent the economy from falling into a worse depression, it also led to a political reaction that brought ultra-conservative Republicans into a dominant position in the Congress following the 2010 elections. Democrats were not immune to the anti-deficit hysteria, but focused on raising tax rates for the wealthy rather than cutting spending. From

⁷ Based on author's analysis of data from BEA and the US Census Bureau; details available on request.

2011–15, various austerity measures (spending cuts or ceilings, including but not limited to the infamous 'sequester', as well as reversals of some earlier tax cuts) were imposed as a consequence of a series of politically-provoked legislative crises and last-minute compromises reached between Congressional Republicans and the Obama administration. As a result, real federal government spending actually fell below pre-recession peak levels in 2012–15, unlike in any other recent recovery period (see Figure 2). Thus, austerity policies started putting a severe fiscal drag on the US economy at a time when the recovery was far from complete.

[Figure 2 about here]

3.2 Structural causes

Not all of the causes of stagnation tendencies in the US economy lie on the demand side, and some of the demand-side shifts may reflect deeper underlying causes. Especially, the rise in inequality and the increasing gap between output and employment growth need to be explained. A full analysis of the causes of the rise in inequality would be beyond this scope of this article. However, there are certain structural changes in the US economy that have been important contributing factors to both the rise in inequality and the emergence of stagnation tendencies especially in regard to employment and wages.

The most relevant type of structural change in this regard is the decline in US manufacturing production and the concomitant rise of the service sector. Declining employment in manufacturing has been driven by a worsening trade deficit in manufactured goods and the vertical disintegration of manufacturing production – the offshoring of intermediate goods and assembly operations to lower-wage locations (see Palley 2014). The US trade deficit in manufactures, which averaged about 6 percent of domestic value added in

the manufacturing sector in the 1980s, fell to an average of 25 percent in the period 2000–14.⁸ What remains of US manufacturing needs relatively little labour, as the most labour-intensive operations have been outsourced to other countries as much as possible.

This transformation of the US manufacturing sector has a two-sided effect on labour markets and inequality. On the one hand, it puts downward pressure on wages, especially because most of the growth in manufactured imports has come from lower-wage countries such as China and Mexico (see e.g. Autor et al. 2016). On the other hand, the offshoring of manufacturing jobs directly contributes to the decline in employment in this sector, which has fallen by 7 million or about 40 percent since 2001 (BLS). Because manufacturing jobs tend to pay better than jobs in other sectors on average, it is mainly high-wage employment that is reduced as manufacturing shrinks and low-wage service activities expand. Most of the expansion in services employment in recent years has been concentrated in lower-paying occupations.

In addition, there are two other ways in which the rise of services as a share of GDP has contributed to weakening the employment impact of output growth. In regard to business cycles, Olney and Pacitti (2015) argue that a growing proportion of service industries implies a slower recovery of employment after a recession for two reasons: (1) service producers don't need to restock inventories in anticipation of increased demand during a recovery; and (2) many services are nontradeable, which implies that exports don't provide as big a boost in the recovery as they do for goods producers. Using US state-level data, Olney and Pacitti find that a rising share of nontradeable services has contributed to longer recoveries for employment after a cycle trough.

For the longer term, Basu and Foley (2013) observe that different service sectors are not equivalent in terms of their contributions to output and employment. The service sectors

⁸ Author's calculations based on data from Census and BEA. Trade balances for manufacturing in 1978–91 are author's extrapolations.

that have 'measureable value added' create jobs in some proportion to their value added as reported in the national income accounts. But other services don't have measurable value added; instead, their output is imputed in the national income accounts based on income received and is not closely related to the amount of employment generated. The service sectors without measureable value added (including, notably, financial services) have grown to the point where they now account for more than half of GDP. When these sectors' reported output grows, they don't necessarily create jobs in proportion. As a result, employment growth is increasingly delinked from reported output (GDP)) growth. According to Papadimitriou et al. (2013: 10), a one percent increase in US GDP led to an 0.528 percent increase in employment in the period 1982Q4–1990Q2, but only an 0.42 percent increase in the latter in 2001Q4–2007Q3 and 0.288 percent in 2009Q2–2012Q4.

4 GLOBAL REPERCUSSIONS

Before the 2008–9 crisis, global growth was sustained by a triangular pattern of trade imbalances, financial flows and demand transmission among three groups of countries: the deficit countries or net demand generators (e.g. US, UK), the manufacturing exporters (e.g. China, Germany) and the primary commodity exporters (e.g. Russia, Brazil). Of course, there were also reciprocal demand flows in the opposite directions between these various groups of countries as well as within them (including major imbalances within the euro area), but at a global level net excess demand largely flowed from the deficits (and borrowing) of the main demand-generating countries toward the surplus countries that were the chief exporters of manufactured goods and primary commodities (Blecker 2013, 2014).

During the pre-crisis boom, the manufacturing exporters as well as the resource exporters ultimately relied on debt-driven household demand from the deficit countries to

support their export-led growth (Hein/Mundt 2013; Palley 2014;). The fallacy in this strategy is that it eventually weakened the very source of its own dynamic by undermining employment and incomes in the deficit nations that ultimately generate the demand (especially through the reductions in manufacturing employment and downward pressures on wages noted earlier).

Using the US current account deficit as a measure of the net demand impulse that the US imparts to the rest of the world, this deficit decreased to about 2–3 percent of GDP in 2014–15, only about half as much as in 2006–7 before the crisis (BEA). The US deficit has been reduced partly because of weak domestic demand, and also because the large trade deficit in manufactures has been partly offset by increased surpluses in services and investment income. Smaller US current account deficits imply less transmission of demand stimulus to the rest of the world. For all the reasons discussed here, the US is not likely to be as strong a generator of global demand in the foreseeable future as it was before 2008. Moreover, the slowdown in growth in many regions that are major markets for US exports (e.g. Euro Area, Latin America) has negative repercussion effects on US growth prospects. To avoid sustained global deflationary pressures, therefore, the surplus countries will need to generate more of their own demand (both internally and reciprocally) and not rely so much on the US or other deficit countries to be the locomotives of growth in the foreseeable future.

5 CONCLUSIONS

The US economy is currently locked into a trajectory that implies a tendency toward secular stagnation as a result of the following (closely interrelated) factors:

• The underlying weakness of household demand due to stagnant real wages and increasing inequality, no longer offset by unsustainable borrowing;

- Structural changes leading to reduced employment generation in proportion to output growth and a shrinkage of high-wage manufactures;
- Weak private sector domestic investment in spite of record profits and low interest rates;
- Political gridlock and the imposition of austerity in fiscal policy; and
- Reverberations from foreign slowdowns especially in the euro area and the resource exporters, which are key destinations for US exports.

However, there is an important difference between identifying a tendency toward secular stagnation and making a prediction that (or when or for how long) it will actually occur. Any such prediction must always be conditional on the absence of counteracting forces. For example, we cannot discard the possibility of a new technological wave that generates an economic boom, or the alternatives of a new financial bubble or renewed debt-led spending. Indeed, we should not underestimate either the ingenuity of Wall Street (which was rescued by the bailouts and largely untamed by post-crisis 'reforms') or the short memories of lenders, borrowers and policy makers. Of course, such a transitory boom would not be any more sustainable than the previous bubbles or debt-led expansions.

We must also recognize that long-term trends can be interrupted by short-term deviations. By late 2015, there were some signs that the US had finally entered a self-sustaining cyclical recovery, which motivated the Fed's decision to start raising short-run interest rates in December 2015. Also, the lifting of the sequester caps on federal government spending (in a budget deal reached at the end of 2015) portends some modest relief from fiscal austerity beginning in fiscal year 2016. Nevertheless, future US economic prospects remain quite uncertain in the face of challenges such as a rising value of the dollar, slowing growth in other countries, and volatility in global stock markets.

One factor that provides some glimmer of hope is the emergence of pressures for an enhanced role for the public sector on the centre-left of the body politic. Depending on the

outcome of the 2016 presidential election, a new program of fiscal expansion could be focused on infrastructure investment, solar and wind energy, education, R&D and other social and environmental needs. But renewed fiscal expansion and increased public investment – however important – will not make a dent in the long-term trends in inequality and stagnation unless they are sufficient to create a period of sustained high employment leading to a recovery of wages relative to productivity, and unless complementary measures are taken to counteract the structural changes that have fostered greater inequality and jobless growth.

APPENDIX: DATA SOURCES

- US Bureau of Economic Analysis (BEA), National Income and Product Accounts (NIPA), data release of 22 December 2015 and earlier releases, <u>www.bea.gov</u>. Gross domestic product (GDP) and its components (including residential and business investment, government expenditures, net exports), corporate value added and profits, and related measures.
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Cycle (neak-trough-neak)	First 4 years (16 quarters) of recovery	Expansion (trough to peak)	Entire cycle (peak to peak)
198103–198204–199003	<u>quarters) of recovery</u> 5.2	4.3	<u>(peak to peak)</u> 3.4
1990Q3–1991Q1–2001Q1 ^a	3.3	3.6	3.3
2001Q1ª-2001Q4-2007Q4	3.2	2.8	2.6
2007Q4-2009Q2-2015Q3 ^b	1.9	2.2	1.2

Table 1 Average annual growth rates of US GDP, last four business cycles

Notes: Dating of business cycles is taken from National Bureau of Economic Research (NBER) (2010), except where GDP peaks differ from NBER peaks then the GDP peak was used instead for the peak-to-peak calculations (entire cycle).

^a The peak for GDP occurred in 2001Q2, but NBER dates the cycle peak in 2001Q1. ^b 2015Q3 is not a cycle peak, but it is the last period for which data were available.

Sources: US Bureau of Economic Analysis (BEA), National Income and Product Accounts (NIPA), Table 1.1.1, quarterly growth expressed at seasonally adjusted annual rates, and author's calculations.

Cycle (dated by previous peak)	Real GDP	Nonfarm employment
1960Q2	3	6
1969Q4	3	6
1973Q4	8	6
1980Q1	4	4
1981Q3	7	9
1990Q3	5	10
2001Q1	3	16
2007Q4	15	25

Table 2 Number of quarters required for real GDP and total nonfarm employment to return to pre-recession peaks, all US business cycles since 1960

Note: Cycle dating follows NBER (2010), except when peaks of GDP or employment differed from the NBER peaks, the actual peaks of each variable were used.

Sources: BEA, NIPA Table 1.1.6; BLS; and author's calculations.



Sources: BEA, NIPA Tables 1.1.5 and 1.14; BLS; and author's calculations.

Figure 1 US corporate profit share (net operating surplus as a percentage of corporate value added) and business investment rate (gross fixed nonresidential investment as a percentage of GDP), quarterly, 1980Q1 to 2015Q2



Source: BEA, NIPA Table 1.1.6, and author's calculations.

Figure 2 Real US government consumption expenditures and gross investment, first 30 quarters of the last four recessions and recoveries