

# BACKGROUNDER

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Stagnant Wages: Fact or Fiction?

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#### **Abstract**

Wages have grown over the past few years at rates similar to historical trends. Even when including the Great Recession, the average annual growth rate has been positive. The frequently repeated claim that wages are "stagnant" is at odds with six measures of wages and compensation, which indicate that hourly and weekly wages have grown about 0.9 percent per year since the beginning of 2013. Wages are certainly not booming, however, and policymakers can increase real wages by reforming laws and regulations that artificially raise prices of consumer goods.

Recent data show that wages have been growing recently at rates comparable to their long-term trends. Measuring average wages accurately is more difficult than it sounds, so this paper looks at six metrics of wage and compensation to present a complete picture.

Since the beginning of 2013, wages have grown about 0.9 percent per year. Since 2006 (and thus including the recession), annual growth has been around 0.5 percent. Over longer horizons reaching back to 1960, wages and compensation have usually grown between 0.7 percent and 1.7 percent per year. Thus, recent wage trends are typical of the modern era, although modestly lower than average.

### **Are Wages Stagnant?**

A widely repeated narrative is that wage growth in recent years has been terrible. Many economists and journalists have written about how slowly wages are growing—and have often written that they are not growing at all. Yet six common indicators show modest but steady growth in the past two years and even in the past eight years. Why the discrepancy?

This paper, in its entirety, can be found at http://report.heritage.org/bg2993

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# **KEY POINTS**

- Wage growth is not stagnant according to any of six measures published by the Bureau of Labor Statistics.
- Hourly and weekly wage growth since the beginning of 2013 has been around 0.9 percent per year, which is at the low end of the typical range of growth rates since 1960.
- Each measure of wages and compensation has advantages and drawbacks. One learns most by looking at several measures together.
- Government attempts to directly increase wages fail because they do not increase worker productivity or lower prices of consumer goods.
- Regulatory reforms that lower prices for major consumer goods such as housing, transportation, and health care will effectively raise real wages. Usually, the way to lower prices is to remove government barriers to competition and supply growth.

One reason that wages appear to be growing more slowly is that inflation has been low, especially since oil and gas prices have dropped. In the past two years, inflation has averaged just 1.16 percent per year. This is less than half the rate of inflation from 2000 through 2007, and it means that fewer people are receiving nominal raises.

However, what matters for well-being is the real (inflation-adjusted) value of wages.<sup>2</sup> Low inflation means that receiving a nominal raise of 2 percent in 2014 increases a worker's real income more than a 3 percent raise would have in 2004.

The analysis in this paper uses the Personal Consumption Expenditures (PCE) deflator, which is the most accurate measurement of the general cost of living. The other common inflation measure, the Consumer Price Index (CPI), covers fewer consumer goods and is known to be biased upward.<sup>3</sup> Since 1960, the gap between the two measures has averaged 0.5 percent per year, although in the past few years it has narrowed to about 0.25 percent.<sup>4</sup> Thus, if someone reports current wage growth of 0.7 percent using the CPI, the same data would show 0.95 percent growth using the PCE.

### Wage Growth in 2013 and 2014

The consensus among six common measures of compensation (see Box 1) is that wages have been growing at around 0.9 percent per year since the beginning of 2013. At this rate, average wages will rise 31 percent in 30 years.

The six wage metrics cover slightly different concepts. Chart 1 shows how the different metrics report recent wage growth.

The data show no disagreement between hourly and weekly metrics. The metrics that better represent working-class wages performed slightly better than the metrics that cover all workers.

The two measures of hourly compensation were the outliers, reporting 0.65 percent and 1.5 percent annualized growth, respectively.

While 0.9 percent annual wage growth is nothing to celebrate, it is much better than zero growth, and it is not stagnant by historical standards. Like employment and gross domestic product (GDP), wages were slow to recover from the Great Recession and earn no praise for the policies enacted in response to the recession.

- I. For example, see Allison Schrager, "When Will Americans Ever Get Raises?" Bloomberg Business, November 6, 2014, http://www.bloomberg.com/bw/articles/2014-11-06/when-will-americans-ever-get-raises (accessed January 30, 2015); Adam Hersh, "Why Wages Are Not Rising as Job Growth Increases," *MarketWatch*, January 12, 2015, http://www.marketwatch.com/story/why-wages-are-not-rising-as-job-growth-increases-2015-01-12 (accessed January 30, 2015); editorial, "More Jobs Is Not Enough: Our View," *USA Today*, January 5, 2015, http://www.usatoday.com/story/opinion/2015/01/05/stagnant-wages-jobs-economy-congress-editorials-debates/21306485/ (accessed January 30, 2015); Patrick Gillespie, "Obama Says Wages Are Growing. They're Not," CNN, January 21, 2015, http://money.cnn.com/2015/01/21/news/economy/obama-state-of-the-union-wages-flat/ (accessed January 30, 2015); and Robert J. Samuelson, "Why Wages Lag," *The Washington Post*, January 18, 2015, http://www.washingtonpost.com/opinions/robert-j-samuelson-why-wages-lag/2015/01/18/05f0b73a-9d99-11e4-bcfb-059ec7a93ddc\_story.html (accessed January 30, 2015).
- 2. Throughout the paper, concepts are inflation-adjusted and seasonally adjusted unless otherwise specified. Where I refer to nominal-dollar or current-dollar amounts, I do so explicitly.
- 3. Part of the reason the PCE is more accurate is that it constantly updates consumers' purchasing habits. However, since these data are reported later than price data, the CPI is available much sooner and thus receives more attention. Accessible discussions include Timothy Taylor, "Consumer Price Index vs. Personal Consumption Expenditures Index," Conversable Economist, January 17, 2012, http://conversableeconomist.blogspot.com/2012/01/consumer-price-index-vs-personal.html (accessed February 4, 2015), and G. I., "An Unusual Good News Inflation Story," *The Economist*, March 29, 2013, http://www.economist.com/blogs/freeexchange/2013/03/divergence-between-cpi-and-pce-prices (accessed January 30, 2015). More technical treatments include Advisory Commission to Study the Consumer Price Index, "Toward a More Accurate Measure of the Cost of Living," report to the Committee on Finance, U.S. Senate, December 4, 1996, http://www.ssa.gov/history/reports/boskinrpt.html (accessed January 30, 2015); Craig Hakkio, "PCE and CPI Inflation Differentials: Converting Inflation Forecasts," Federal Reserve Bank of Kansas City *Economic Review*, 1st Quarter, 2008, http://www.kansascityfed.org/Publicat/Econrev/PDF/1q08Hakkio.pdf (accessed January 30, 2015); and Clinton P. McCully, Brian C. Moyer, and Kenneth J. Stewart, "Comparing the Consumer Price Index and the Personal Consumption Expenditures Price Index," U.S. Department of Commerce, Bureau of Economic Analysis *Survey of Current Business*, November 2007, http://www.bea.gov/scb/pdf/2007/11%20November/1107\_cpipce.pdf (accessed January 30, 2015).
- 4. Calculations use the CPI-U. Other CPI series will give slightly different results.

BOX 1

# Six Ways to Measure Pay

The Bureau of Labor Statistics publishes six measures of pay:

- **Hourly compensation.** Includes wages, stock options, benefits, and employer payroll taxes. Published as an index, not in dollars, since 1947.¹
- **Employer costs of employee compensation.** Very similar to hourly compensation, but published in dollars. Published since 1991. Calculated slightly differently than hourly compensation.<sup>2</sup>
- **Average hourly earnings of all employees.** Includes all employees, excludes benefits and taxes, and covers the nonfarm private business sector. Published since 2006.<sup>3</sup>
- Average hourly earnings of production and nonsupervisory employees. Excludes managers and many salaried workers. Unreliable during the 1980s and 1990s due to changing sample. Published since 1964.<sup>4</sup>
- **Average weekly wages.** Based on high-quality administrative data covering all employees eligible for unemployment insurance. Excludes benefits. Published since 1975.<sup>5</sup>
- **Median weekly earnings.** Computed from household survey data, excludes benefits. Half of earners earn less and half earn more than the median. Published since 1979.<sup>6</sup>
- U.S. Department of Labor, Bureau of Labor Statistics, "Labor Productivity and Costs," http://www.bls.gov/lpc/ (accessed February 5, 2015).
- U.S. Department of Labor, Bureau of Labor Statistics, "Employment Cost Trends," http://www.bls.gov/ncs/ect/ (accessed February 5, 2015).
- U.S. Department of Labor, Bureau of Labor Statistics, "Current Employment Statistics—CES (National)," http://www.bls.gov/ces/ (accessed February 5, 2015).
- 4. Ibid
- U.S. Department of Labor, Bureau of Labor Statistics, "Quarterly Census of Employment and Wages," http://www.bls.gov/qcew/ (accessed February 5, 2015).
- 6. U.S. Department of Labor, Bureau of Labor Statistics, "Labor Force Statistics from the Current Population Survey," http://www.bls.gov/cps/ (accessed February 5, 2015).

#### Wage Growth Since 2000

Although current wage growth is in line with historical averages, wages may be just recovering ground lost to the recession.

Wage growth since 2006—the first year in which all six data sources are available—has been lower than most historical averages, but still positive. Four of the measures are clustered around 0.45 percent annualized growth, while two measures of hourly earnings offer an optimistic dissent.

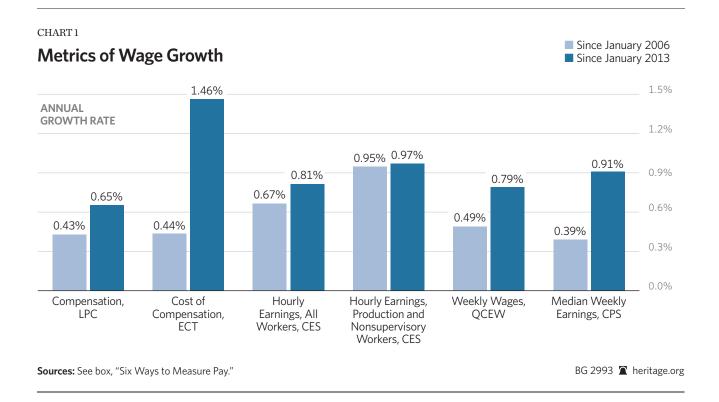
Going back further to include two recessions and the 2000s expansion, wage growth has been about 0.8 percent per year, in line with historical averages. This would yield a 27 percent increase in average wages over 30 years. In this period, compensation growth was highest, and the two measures of weekly wages were lowest.<sup>5</sup> Commerce Department data confirm that the non-wage share of compensation shrank in the late 1990s and then grew from 2000 to 2005.<sup>6</sup>

# Wage Growth Since 1960

How strong has wage growth been historically? Less data are available for earlier decades, and the available data are less in agreement. Chart 2 shows growth periods for several measures of wages and compensation since 1960 or their earliest availability.

<sup>5.</sup> However, this discrepancy is not explained by the change in hours worked, which was slight.

<sup>6.</sup> U.S. Department of Commerce, Bureau of Economic Analysis, Personal Income and Outlays, 1959-2013.



From 1960 to 2007 (both business cycle peaks<sup>7</sup>), hourly compensation grew by 1.8 percent per year. Splicing together two measures of wages,<sup>8</sup> I find that wages grew 1.0 percent per year from 1964 to 2007.

During the first part of this era, before 1980, the gap between compensation and wage growth was large: Hourly compensation grew 2.0 percent per year, and wages grew 0.7 percent per year. About one-third of the gap is explained by the rapid growth of non-wage benefits. In 1964, 10.3 percent of compensation was non-wage; in 1980, it was 15.5 percent. However, two-thirds of the gap cannot be easily explained.

From 1980 to 2007, hourly compensation and weekly wages grew side by side. Compensation grew 1.5 percent per year and weekly wages 1.2 percent per year, with the gap substantially explained by the continued growth of non-wage compensation. How-

ever, median weekly earnings from the Current Population Survey (CPS) rose only 0.7 percent per year.<sup>9</sup>

# Prospects for Wage Growth in 2015 and 2016

Hiring and employment finally showed signs of a robust recovery in 2014, due in part to the termination of extended unemployment benefits.<sup>10</sup> Should we expect the recovery to strengthen in 2015? In particular, should we expect that it will spill over into wage growth?

The good news, as shown above, is that wage growth had already arrived in 2013 and 2014. Even indicators that exclude high-wage earners have grown at a healthy pace since January 2013. The bad news is that there are no compelling reasons to believe wage growth will accelerate much, although we may be pleasantly surprised. One reason that

<sup>7.</sup> Business cycle peaks are designated by the National Bureau of Economic Research. I use 1960 Q2, 1980 Q1, and 2007 Q4 throughout this section.

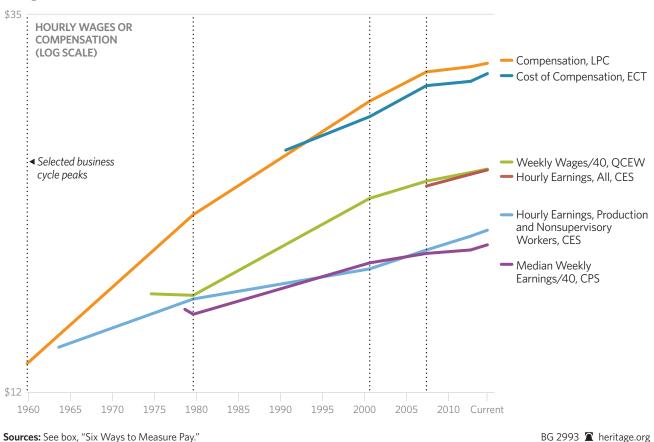
<sup>8.</sup> Average Hourly Earnings of Production and Nonsupervisory Employees from 1964 to 1975 and then Average Weekly Wages from the Quarterly Census of Employment and Wages from 1975 to 2007. The former series is unreliable during the 1980s and 1990s because its sample grew steadily to include more low-wage workers.

<sup>9.</sup> This paper does not engage the extensive debate about average wage growth within demographic groups, some of which have performed better than others.

<sup>10.</sup> Salim Furth, "How Much Did Extended Unemployment Insurance Increase Unemployment?" The Daily Signal, January 29, 2015, http://dailysignal.com/2015/01/29/much-extended-unemployment-insurance-increase-unemployment/.

CHART 2

# Wage Growth Since 1960



wages are unlikely to accelerate is that they did not drop much during the Great Recession.<sup>11</sup> Another is that average wage growth can be ordinary even when the typical individual's wage growth is strong, because attractive labor markets bring more low earners into the workforce.<sup>12</sup>

Yet there is also no reason to believe that wage growth will slow in 2015 and beyond. Rising labor productivity, not cyclical factors, drive long-run trends in wage growth. Although the Great Recession has overshadowed the past six years, one will better predict the years ahead by taking a long view of the past than by extrapolating from the recovery.

#### Why Do Wages Seem Stagnant?

Given that straightforward data unanimously show steady, historically typical wage growth over the past few years, it is surprising that a cottage industry has grown up around making wages appear to be stagnant. Other analysts arrived at their claims that wages are stagnant by:

■ Inviting readers to implicitly compare average to individual wage growth. As individuals gain experience, their own wages rise faster than the national average. Because people enter the labor force with low wages and retire with high wages, the average grows much more slowly than

<sup>11.</sup> Michael W. Elsby, Donggyun Shin, and Gary Solon, "Wage Adjustment in the Great Recession," National Bureau of Economic Research Working Paper No. 19478, September 2013, http://papers.nber.org/tmp/77060-w19478.pdf (accessed February 2, 2015).

<sup>12.</sup> The reverse can occur during recessions: Low-productivity workers are laid off, and the average wage rises despite falling employment. In 12 months during the Great Recession, real wages rose 3.4 percent thanks to low-wage layoffs and falling prices, but that is not an economy to emulate.

most individuals' experience. Wage growth of 1 percent for an individual might be stagnant, but for the economy it is typical.

- Using an inferior inflation measure. Most wage growth pessimists use a CPI series, which systematically understates wage growth. Using the wrong measure can make wage gains sound smaller, but it should actually make the current era look better than it is compared with the past because the gap between the CPI and PCE has fallen in the past several years.
- Using different starting points. In one graph<sup>13</sup> by the Center for American Progress, wage gains are dated from February 2010, the trough of the Great Recession. Recessions can do strange things to average wages since low-wage individuals are more likely to lose their jobs. From February 2008 to February 2010, wages grew 1.6 percent per year, but that was in the context of the worst labor market collapse in a generation.
- Conflating household income with individual wages. 14 The decrease in labor force participation lowers incomes independently of wage trends. During an era when fewer people are working, wages will grow faster than household incomes. Some policies that would raise wages, such as increasing the minimum wage, would decrease employment, with an ambiguous effect on total income.

# **Bad Policy Advice**

High wage growth is universally applauded, but many proposals for raising wages are poorly reasoned. One common policy argument is to choose a period of historically high wage growth, such as the 1960s or the 1990s, and then cherry-pick one or two policies that were in place at the time. Misplaced nostalgia for the 1960s might make pundits pine for strong unions or a large manufacturing sector, but those same pun-

dits would blanch at bringing back most other aspects of the 1960s economy: race and gender segregation in most workplaces, a military draft, low social spending, and high marginal tax rates.

Another understandable mistake is to use policy to try to raise productivity. Productivity growth is indeed the engine of wage growth, and government has sometimes played a role in disseminating new ideas and practices, although it has just as often inhibited or outlawed their spread. However, productivity growth is largely outside the control of policy, and government stock-picking is notoriously inaccurate and invites corruption. Thus, the record of government productivity pushes is mostly one of failure. Government is at its best when protecting property rights and policing anti-competitive monopolies to foster an environment where productivity can grow on its own. The data show that productivity growth leads to wage growth as predicted by economic theory.15

Finally, trying to raise wages through macroeconomic management is a recipe for rapid failure. The aggressive monetary policy of the late 1960s led to temporary wage growth, but soured into "stagflation," a period of high inflation and low growth that persisted for a decade and contributed to the low wage growth of the 1980s. Stimulus spending and tax code gimmickry are like pushing on a string: The gains to one sector or region are losses to others. High minimum wages have harsh trade-offs for those at the margins of the labor force and cannot in any case improve the trend.

## **Good Policy Advice**

Can government do anything at all to help wages? Perhaps unintuitively, the most promising area for wage-raising policy is in lowering the prices of bigticket consumer goods. The largest expenses for most American families are housing, transportation, food, and health care. Education is similarly expensive, although most of the cost is funneled through taxes.

<sup>13.</sup> Hersh, "Why Wages Are Not Rising as Job Growth Increases."

<sup>14.</sup> Editorial, "More Jobs Is Not Enough."

<sup>15.</sup> See Stephen Rose, "Was JFK Wrong? Does Rising Productivity No Longer Lead to Substantial Middle Class Income Gains?" Information Technology & Innovation Foundation, December 2014,

http://www.itif.org/publications/was-jfk-wrong-does-rising-productivity-no-longer-lead-substantial-middle-class-income-g (accessed February 5, 2015), and James Sherk, "Productivity and Compensation: Growing Together," Heritage Foundation *Backgrounder* No. 2825, July 2013, http://www.heritage.org/research/reports/2013/07/productivity-and-compensation-growing-together.

In each of these categories, existing policies have artificially raised prices that consumers pay, so reforming those policies can improve Americans' real incomes.

- Housing. Housing costs are needlessly high in urban and suburban areas where zoning and permitting are restrictive. Low-density restrictions, parking minimums, and neighbor vetoes raise the price of housing. Lack of school choice also pushes up housing costs, since parents implicitly pay for good schools in their mortgage. At the federal level, policymakers should review whether the Department of Housing and Urban Development grants are used to enable unaffordable housing policies at the local level.
- **Transportation.** For car commuters, transportation costs are higher than they should be due to fuel-economy standards. <sup>16</sup> Restrictions on oil and natural gas drilling make gasoline prices higher and more volatile. For urban commuters, transportation is overpriced thanks to public-sector unions <sup>17</sup> and taxi cartels.
- **Food.** Food costs in the U.S. are much lower than in the past¹8 and lower than in most other developed countries thanks to relatively open trade laws. However, some improvements are possible, especially ending the Depression-era subsidies and protections for agribusiness, which raise consumer prices for sugar and other foodstuffs.¹9

- Health care. The health care and health insurance sectors are tied to government policy in too many ways to count. Mandates for lower prices that ignore the basic laws of supply and demand will fail. The only hope for lower costs is to implement competition-based reforms.<sup>20</sup>
- **Education.** Education costs are hidden in taxes and college loans, but are much higher than necessary due to restrictions on entry. Allowing new schools to compete for public funding and easing entry into the higher education sector would lower costs and offer students choices that better match their individual needs.<sup>21</sup>

Regulatory reforms in these areas would either allow suppliers to create the same output using fewer inputs (e.g., less time spent on building permits) or allow new suppliers to compete with existing ones. In each case, consumers have more choices at lower prices, allowing them to stretch their wages further.

#### Conclusion

Wage growth over the past two years has been typical of historical averages. By examining several measures of aggregate wage growth, one gains a more complete picture of historical and recent trends. Although the historical data are well-known and recent data are widely available, many pundits have written about "stagnant wages." That description of the recent trends has the risk of giving the false impression that the recovery, although delayed

- 16. Diane Katz, "CAFE Standards: Fleet-Wide Regulations Costly and Unwarranted," Heritage Foundation WebMemo No. 3421, November 28, 2011, http://www.heritage.org/research/reports/2011/11/cafe-standards-fleet-wide-regulations-costly-and-unwarranted.
- 17. Stephen Smith, "Five Union Work Rules That Harm Transit Productivity," Market Urbanism, May 15, 2011, http://marketurbanism.com/2011/05/15/five-union-work-rules-that-harm-transit-productivity/ (accessed February 3, 2015).
- 18. Mark J. Perry, "As Share of Income, Americans Have the Cheapest Food in History and Cheapest Food on the Planet," Carpe Diem, July 3, 2010, http://mjperry.blogspot.com/2010/07/as-share-of-income-americans-have.html (accessed February 3, 2015).
- Mario Loyola, "Sugar Shakedown: How Politicians Conspire with the Sugar Lobby to Defraud America's Families," Heritage Foundation Backgrounder No. 2929, July 17, 2014, http://www.heritage.org/research/reports/2014/07/sugar-shakedown-how-politicians-conspire-with-the-sugar-lobby-to-defraud-americas-families.
- 20. Kevin D. Dayaratna, "Competitive Markets in Health Care: The Next Revolution," Heritage Foundation *Backgrounder* No. 2833, August 19, 2013, http://www.heritage.org/research/reports/2013/08/competitive-markets-in-health-care-the-next-revolution.
- Lindsey M. Burke, "Reauthorizing the Higher Education Act—Toward Policies That Increase Access and Lower Costs," Heritage Foundation Backgrounder No. 2941, August 19, 2014, http://www.heritage.org/research/reports/2014/08/reauthorizing-the-higher-education-acttoward-policies-that-increase-access-and-

lower-costs, and Jonathan Butcher and Lindsey M. Burke, "Expanding Education Choices: From Vouchers and Tax Credits to Savings Accounts," Heritage Foundation Special Report No. 136, July 26, 2013,

http://www.heritage.org/research/reports/2013/07/expanding-education-choices-from-vouchers-and-tax-credits-to-savings-accounts.

and incomplete elsewhere, is absent in wages. A better conclusion is that wage growth is mediocre but real; the same can be said of GDP and employment growth.

Policymakers need not be satisfied with wage growth of less than 1 percent per year. Regulatory reforms that lower the cost of living, especially in the major consumer spending categories, can help to stretch each hour's wage further, effectively raising real wages.

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