Has the Fed Tightened Enough? Guideposts to Consider

When we look across the metrics we're tracking to know if the tightening has been sufficient, we see the Fed has made notable progress toward its goals. However, we still don't see the conditions that would warrant the easing markets are currently discounting.

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ast February, we outlined a series of guideposts that would indicate to us whether the Fed had tightened enough to achieve their objectives. Since then, inflation has come down from very high levels, the economy has been resilient, and markets are discounting that the end of the tightening cycle is near. Based on the linkages that exist and an implied Fed goal of 2% inflation and 2% growth, we see the following conditions to consider:

- Has wage growth declined from the prior 5% to about 2.5% to reset the center of gravity of inflation?
- Has nominal spending and income growth fallen into the required range of 3-5% to have 2% real growth with 2% inflation?
- Has unemployment risen by enough to loosen labor supply and bring wage growth down to a sustainable lower level? In the past, about a 2% rise in the unemployment rate was required to bring wage growth down by the amount needed today.
- Has nominal GDP growth fallen materially below wage growth in order to compress profit margins and induce an easing of labor markets?
- Have earnings declined enough to prompt a weakening in labor markets (e.g., about a 20% decline)?
- Are forward-looking inflation estimates near 2%?

A lot of progress has been made across these metrics over the last six months, but it still falls short of these rough guideposts. An easing as is discounted for next year likely requires meaningfully more progress. The following sections show the progress to date and the logic behind these measures as it applies to today.

Wage Growth Remains Too High Relative to What Is Needed for Inflation to Come Down to Target and Stay There

To lower inflation back to target and bring the economy back into equilibrium, we need to see a slowing of incomes and a rise in savings such that nominal spending is brought back in line with the productive capacity of the economy. Due to the circular relationship between nominal spending, incomes, and wages, the primary way to do this is to tighten enough to induce layoffs or raise the savings rate by enough and for long enough that market forces bring down wages. So how low does wage growth need to go to sustainably keep inflation at target over the long term, assuming the savings rate stabilizes at some higher level after tightening has reduced credit growth and raised savings? It needs to be brought down to a level such that, in combination with other sources of income, the total amount of income growth is consistent with target inflation plus productivity growth, which today is around 2-2.5%. Walking through this, we start by recognizing:

Inflation (Δ P) = Spending Growth (Δ \$) - Productive Capacity Growth (Δ Q) & Spending = Income + Net Dissavings (Borrowing - Savings) Substituting income and net dissavings in for spending and then breaking out income and productivity growth into their component pieces, we get:



Rearranging the pieces and assuming the savings rate levels out over time, employment growth cancels out, and we're able to solve for a level of wage growth needed for a given level of inflation. Plugging in a 2% target inflation rate, we get:

Wage Growth Consistent with Target Inflation = Target Inflation (2%) + Productivity Growth - Other Income Growth

Applying this framework through time, we can compare the level of wages needed versus what they actually are to get a sense of whether inflation can be sustainably kept at target. This is shown in the chart below. Today, about 2.5% wage growth would be consistent with 2% inflation, as recent-trend productivity growth has been low and other sources of income (from assets and government-deficit-financed transfers) are more neutral. With wage growth currently running at around 4.5%, we're far away from this level.



— USA Wage Growth (Y/Y) — Level of Wage Growth Required to Reach 2% Target

As shown in the chart below, the difference between actual wage growth and this "equilibrium" level is a good indicator of the degree to which inflation deviates from target. Of course, there are other influences that can cause inflation to deviate from this, such as changes to the savings rate and secular forces like globalization making global labor markets factors more important (particularly for tradables), but it serves as a strong anchor for what could be sustainable.



The Level of Nominal Spending Has Cooled but Is Still Too High

Spending is the driving force of the economy, as businesses react to the demand they're seeing through procyclical hiring, firing, and investment decisions, which then feeds back into the economy via incomes. When nominal spending outpaces production, you get inflation. As we have written above, to get inflation to fall, spending needs to cool to a level consistent with the productive capacity of the economy. That level is somewhere in the range of 3–5%, and even though nominal spending has fallen a lot, it is still above that. We get a timely update of nominal spending growth every week from two perspectives, from the spending perspective and from the financing perspective. Both perspectives suggest that nominal growth has been declining since earlier in the year but is currently running at a rate of 5.5–6.5%, which is still too high.





Labor Supply Continues to Be Tight and Unemployment Isn't Rising

Wages are just a price like any other and are set where the amount of money chasing quantity (demand) meets the amount of quantity offered for that money (supply). We can represent the amount of supply in labor markets by the unemployment rate. After subtracting 6% as a rough center point for the level of unemployment over time, you can see that the level and change in unemployment (the red line, which is inverted and plotted versus zero) are important drivers of wages. This measure is down a bit from the peak but remains a strong upward force on wages—about as strong as ever in the past 50+ years. In order for this quantity influence to be a downward force on wages, you need about a 2% rise in unemployment sustained over a long enough period of time to impact the supply/demand balance for labor.



Typically, changes in the unemployment rate are very closely related to changes in the overall inflation rate. This is because employment growth is a major driver of incomes, which then feeds into spending, and it also serves as a measure of tightening/loosening labor supply, which is a pressure on wages. This relationship is illustrated in the chart below on the left—normally, to get the amount of inflation rate cooling needed to get back to target, we'd need to see a rise in the unemployment rate of about 2%. Zooming in on shorter-term and more timely measures of unemployment rate changes, we don't see any evidence of a rise at all, as shown in the chart below on the right.



2M

1M

0M

-1M

-2M

-3M

The Level of Spending Is Still Too High Relative to Wages to Compress Labor Margins and Induce Layoffs

When nominal spending growth is high enough such that it outpaces wage growth by an amount that allows for absorbing new workers and maintaining the existing capital stock, margins can grow and businesses are incentivized to hire. When this occurs, labor markets can remain tight, and wages can stay high or rise, which keeps income growth high and further supports spending, a self-reinforcing cycle. This relationship is shown in the charts below, with the one on the left showing the long-term relationship between wage growth relative to nominal spending, adjusted by 2% to proxy the run-rate hiring and reinvestment needed for the economy to grow at potential. The difference between the two represents the incentive businesses face for further hiring and raising wages while maintaining profit growth. The chart on the right shows a timely read of nominal spending growth, which has shown meaningful cooling since the middle of last year but is still at a level that is consistent with profits being maintained.



Businesses Are No Longer Being Squeezed like They Were Earlier in the Year, Making It Unlikely They Will Cool the Labor Market

Tightening usually flows through the economy by making credit more expensive and savings more desirable, reducing demand, which then leads to falling profits. Businesses then respond to this weaker demand and drop in net income by cutting labor costs and firing workers, which then lowers household incomes and reduces spending further, a self-reinforcing cycle that cools inflation and the labor market. This is illustrated in the chart below—roughly a 20% drop in earnings would lead to layoffs of the size needed for a rise in the unemployment rate of about 2%.



So far, the tightening has failed to bring down (1) nominal spending by enough to hurt corporate profits and (2) access to financing by enough to prompt a labor market contraction. Despite a squeeze earlier in the year, both profits and business borrowing have bounced recently and are no longer contractionary. As shown in the charts below, more recently, profits have been picking back up and the sharp drop in borrowing during the initial stages of the banking crisis has entirely reversed. With the recent squeeze fading, it's unlikely that businesses will now start firing workers at the rate needed to soften the labor market.



As another point of triangulation on conditions facing businesses, we show below an estimate of listed company profits based on a combination of weekly surveys about their revenues and margins and timely economic stat releases. Over time, this estimate has been reliable at tracking listed EPS growth and, more recently, has been indicating stronger earnings growth.



This set of conditions facing businesses is consistent with a continued cooling of labor demand from the very elevated levels of early 2022, but not enough to continue to drive a pickup in the layoffs as we were seeing earlier this year. This is illustrated in charts below—while job openings have continued to fall over the past few months, they're still at very high levels (left chart), and the amount of layoffs has fallen back close to the historically low levels of last year. Both of these business labor demand measures indicate that the level of wage growth will continue to stay elevated.



Without a further squeezing of businesses to cool labor demand to a much greater degree, in the face of very tight labor supply, it is very unlikely that we'll see wage growth fall to the level needed for a 2% inflation rate.

Inflation Estimates Suggest Leveling Out Around Current Levels

As we stare at these markers, it increasingly looks like not enough has been done to bring inflation all the way down to the 2% target, absent a weaker economy. Instead, we're more likely to see inflation level out at its current rate rather than continue to decline like it has over the past year, as shown in the chart below on the left. This would push the Fed to continue tightening and, with a short pause and return toward easing being priced in, could come through the form of either rate rises or holding rates at high levels, as shown in the chart on the right. This makes assets especially vulnerable to another round of tighter policy.



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