

Macroeconomic Advisers, LLC

Long-Term Unemployment and the Outlook for Inflation

The Federal Reserve Bank of Cleveland: Monetary Policy and the Public

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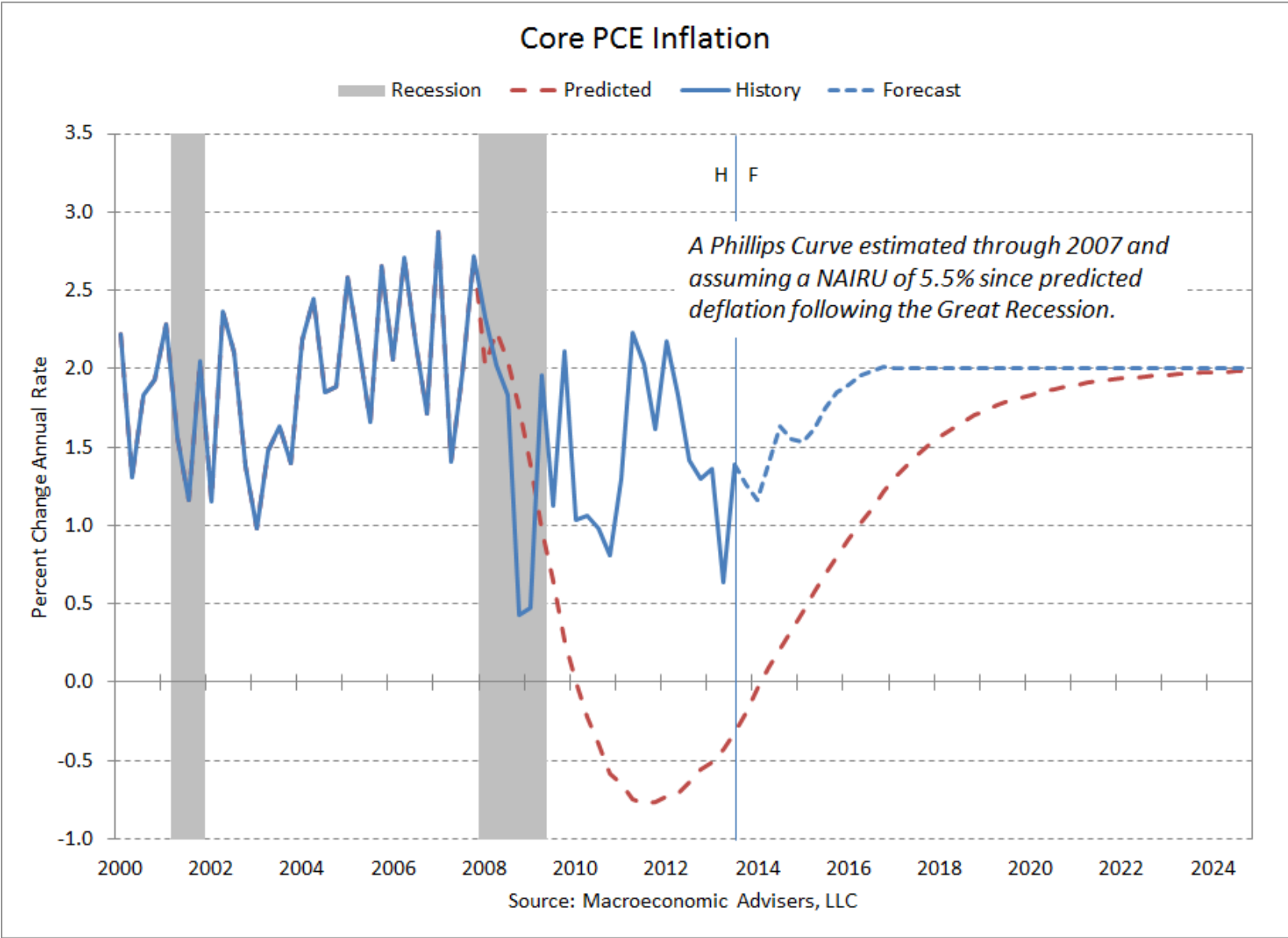
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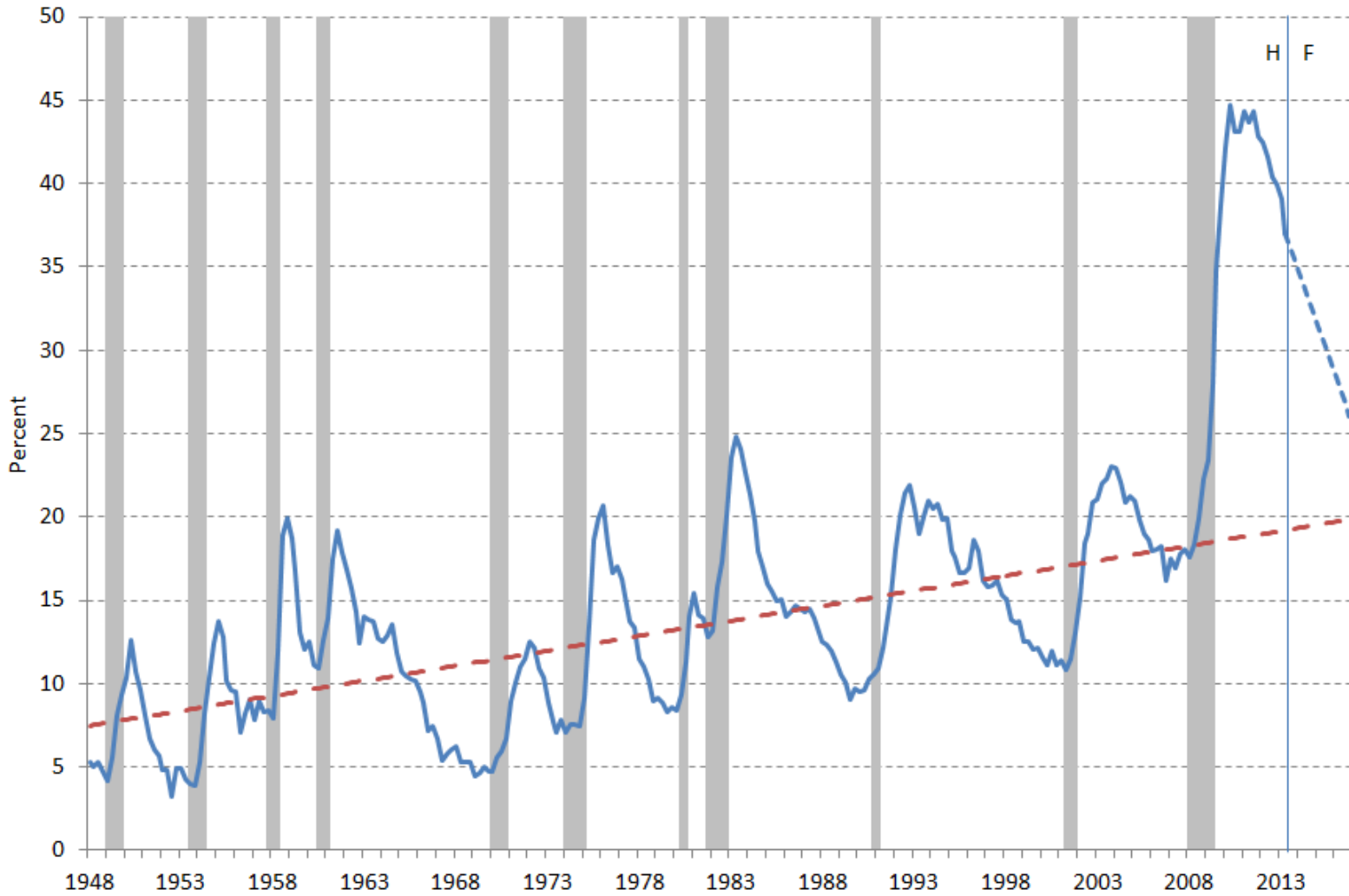
The Inflation Model: NKPC

$$\begin{aligned} \pi_t & \text{core PCE inflation} \\ = & \\ \lambda \pi_t^e & \text{SPF 10-year inflation expectations ("anchor")} \\ + & \\ (1 - \lambda) \sum_{j=1}^3 w_j \pi_{t-j} & \text{lagged inflation ("momentum")} \\ - & \\ \beta(u_t - \tilde{u}_t) & \text{unemployment gap (labor market "slack")} \end{aligned}$$

$$\sum_{j=1}^3 w_j = 1; \text{ no long-run trade-off between inflation and slack}$$



Long-Term Unemployed as Percent of Total Unemployment



Source: Bureau of Labor Statistics; Macroeconomic Advisers, LLC

Empirical Results

Regressions for Change in Core PCE Inflation				
	1980-2007		1980-2013	
	(1A)	(1B)	(2A)	(2B)
Gravitational Pull of Expectations	-0.264	-0.261	-0.298	-0.301
<i>t</i> -statistic	-3.0	-3.1	-3.6	-3.7
Inflation Change, 1st Lag	-0.572	-0.574	-0.495	-0.491
<i>t</i> -statistic	-5.4	-5.4	-5.0	-5.1
Inflation Change, 2nd Lag	-0.230	-0.231	-0.183	-0.181
<i>t</i> -statistic	-2.5	-2.5	-2.1	-2.1
Short-Term Unemployment Rate	-0.174	-0.188	-0.170	-0.166
<i>t</i> -statistic	-2.1	-3.2	-2.9	-3.0
Long-Term Unemployment Rate	-0.053		0.001	
<i>t</i> -statistic	-0.2		0.2	
Regression Constant	0.716	0.733	0.617	0.613
<i>t</i> -statistic	2.3	2.4	2.1	2.1
R-squared	0.440	0.439	0.405	0.405

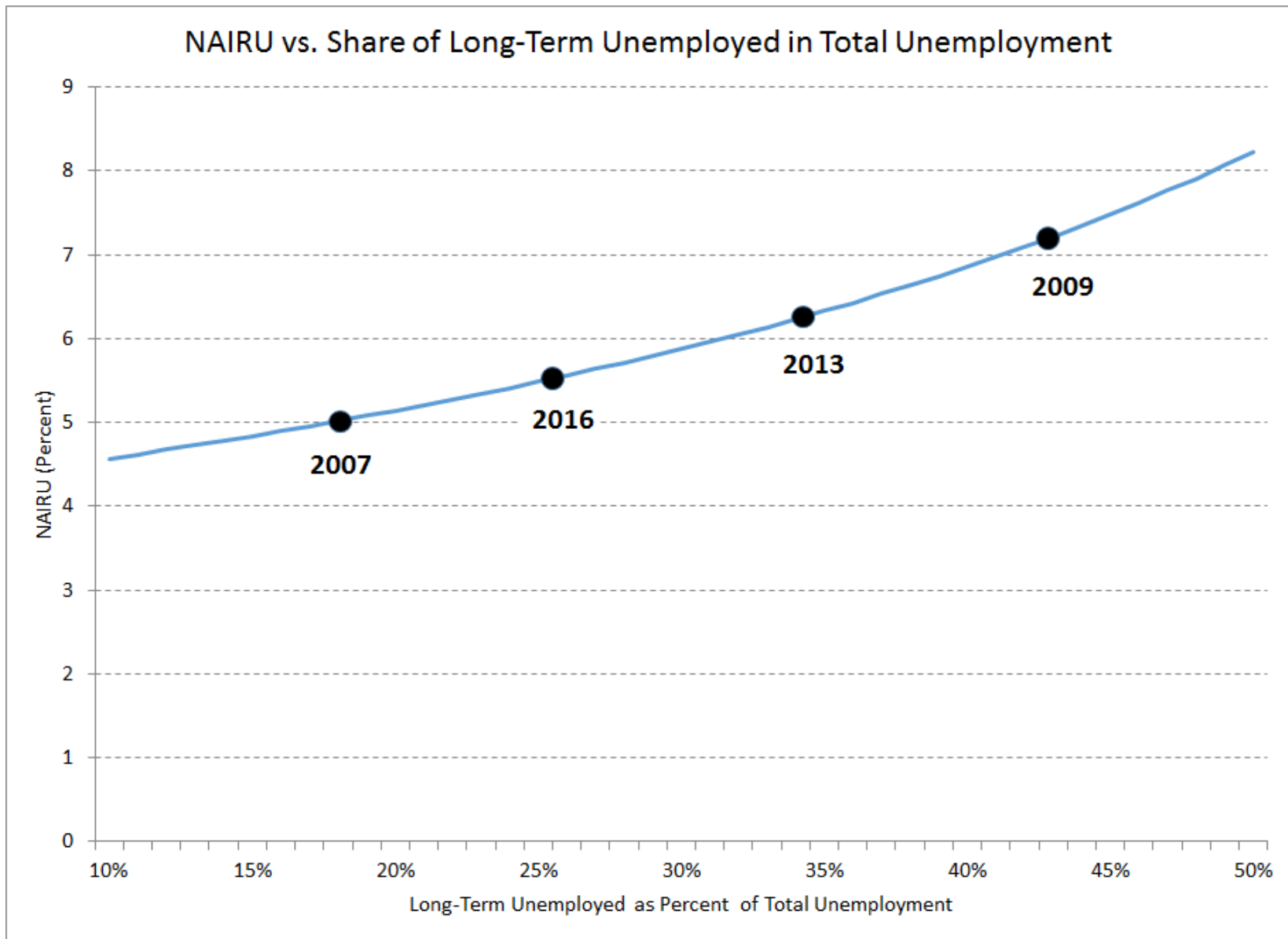
The “short-term unemployment rate” is significant over the short and long sample, with a coefficient that is stable across the periods.

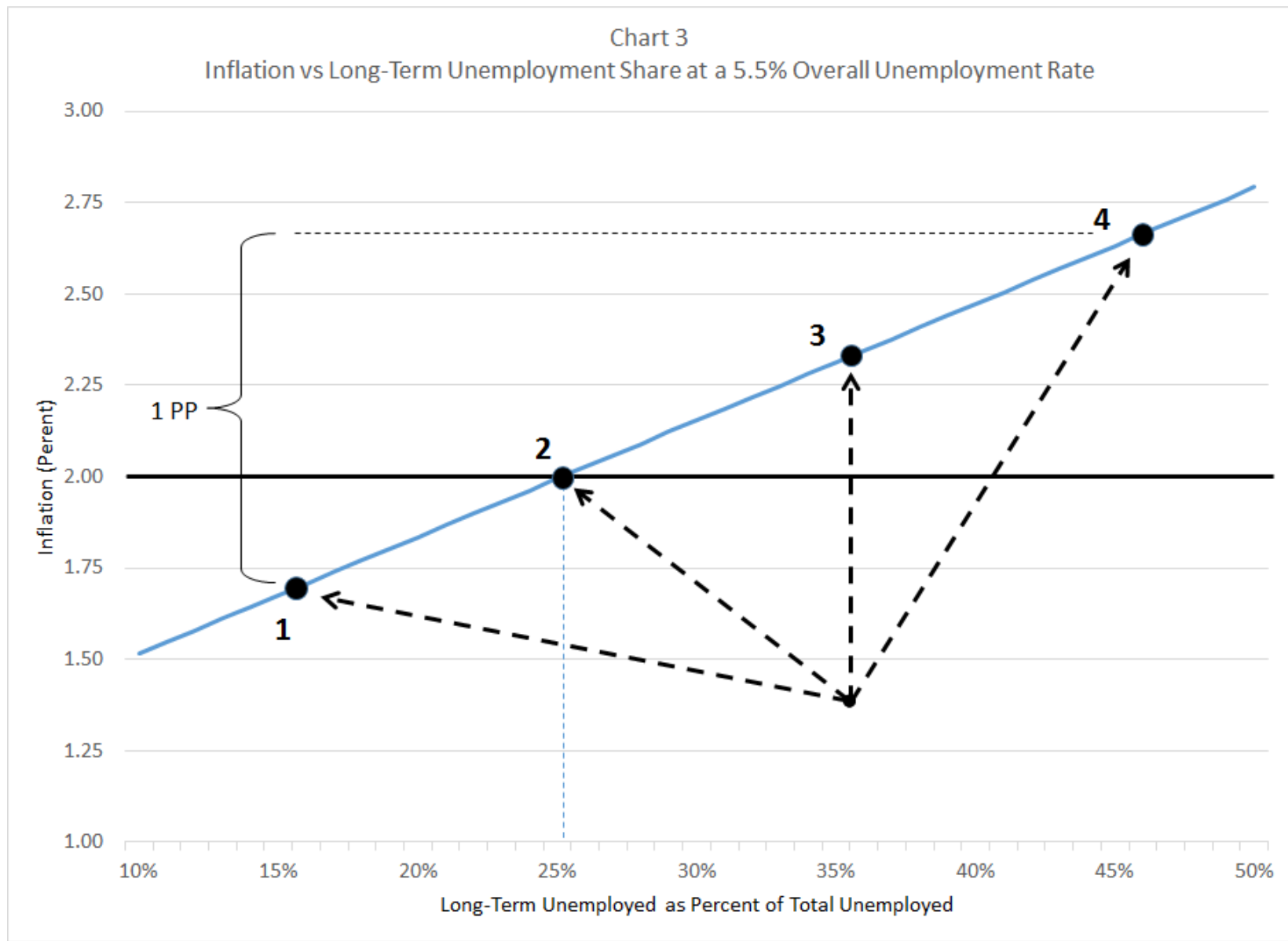
The “long-term unemployment rate” is insignificant over both the short and the long sample.

Note: the short-term and long-term unemployment rates are the contributions of the short-term and long-term unemployed to the total unemployment rate.

Why? (It Seems so Counterintuitive!)

- Decline in Labor Market Matching Efficiency
 - Krueger: no tendency for long-term unemployed to gravitate towards growing industries
 - Tendency to be re-employed in same industry, or not at all
- Job search declines with unemployment duration
 - Krueger & Mueller: search declines 1.5 minutes per week
 - Wanberg et. al: search declines from 18 to 11 hours per week by 20th week of unemployment
- Employer discrimination rises with duration of unemployment
 - Kroft et. al: “call back rate” declines with duration
 - Ghayad: “call back rate” drops sharply at exactly 6 months





Wrap Up

- Does it matter if LT unemployment falls because the LT unemployed find jobs or exit the labor force?
 - For inflation, no; for real growth, yes.
- Given uncertainty surrounding LT unemployment
 - Our forecast balances the risks through 2016
 - But should we lower NAIRU below 5.5% after 2016?
- Policy Implications
 - FOMC can't be complacent about today's modest inflation
 - General macroeconomic stimulus riskier than policies specific to the long-term unemployed