Monitoring Employment Dynamics: New Developments and Innovative Applications Business Employment Dynamics

Christopher J. Nekarda

Federal Reserve Board of Governors

APDU 2010 Annual Conference 20 September 2010

The views expressed are the author's and do not necessarily represent the views or policies of the Board of Governors of the Federal Reserve System or its staff

Employment Dynamics in the United States

- A remarkable number of jobs are constantly being created and destroyed, at all points in the business cycle
 - ► Since 1990, net change in private-sector jobs is about 625,000 per quarter
 - In contrast, about 7½ million private-sector jobs are created and destroyed each quarter
- The gross flows that underly the headline net change in employment give a deeper perspective on the dynamics and behavior of labor markets
- ► The U.S. economy is incredibly dynamic: restructuring and change are the rule, not the exception

Employment Dynamics in the United States

- A remarkable number of jobs are constantly being created and destroyed, at all points in the business cycle
 - ► Since 1990, net change in private-sector jobs is about 625,000 per quarter
 - In contrast, about 7½ million private-sector jobs are created and destroyed each quarter
- The gross flows that underly the headline net change in employment give a deeper perspective on the dynamics and behavior of labor markets
- ► The U.S. economy is incredibly dynamic: restructuring and change are the rule, not the exception

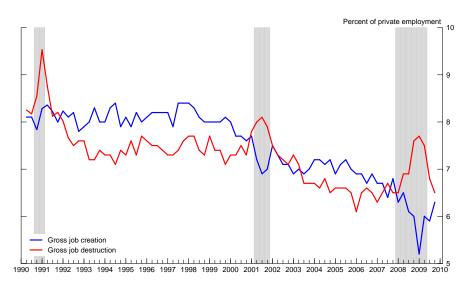
Job Creation and Destruction

- Path-breaking research by Davis and Haltiwanger (1990) presented a portrait of gross job creation (JC) and gross job destruction (JD) in manufacturing
 - Large: Averaged 10% per year
 - 2. Persistent: Most reflected permanent changes
 - 3. Concentred: 43 by plants changing by 25% or more
 - Cyclical: JD more volatile than JC, recessions marked by sharp increase in JD
- Questions and concerns
 - Foote (1998) questioned whether manufacturing was representative
 - Annual data may mask higher-frequency movements

About the BED

- Tracks changes in employment at the establishment level
 - Gross jobs gains at expanding and opening establishments
 - Gross jobs losses at contracting and closing establishments
 - By industry, firm size, and geography
- Compiled from UI administrative records
 - Quarterly census of all establishments under state UI programs
 - Represents about 98% of employment on nonfarm payrolls
 - Establishments linked longitudinally and to parent firms
 - Excludes: self-employed, government, private households, nonprofits
- Differences from other surveys
 - CES: sample of establishments; not longitudinally linked
 - JOLTS: worker flows, not job flows

Gross Job Creation and Destruction

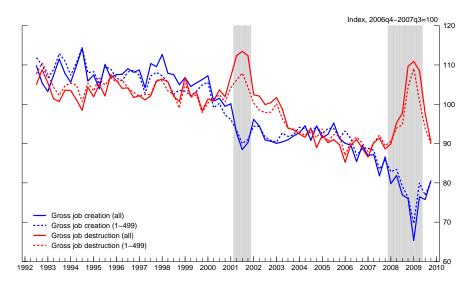


Source: Business Employment Dynamics and Faberman (2008). Notes: Shaded areas indicate NBER-dated recessions.

Research on Employment Dynamics

- How have employment dynamics evolved?
 - Trends of JD and the volatility of firm-level employment growth have declined steadily since the 1980s (Davis et al, 2008)
 - Volatility of JD has fallen much more than the volatility of JC, reducing the relative volatility of destruction to creation (Faberman, 2008)
 - Points to secular decline in intensity of idiosyncratic labor demand shocks
- Who creates jobs? Small businesses or new businesses?
 - Large firms may be more cyclically sensitive than small firms (Moscarini and Postel-Vinay, 2009)
 - After controlling for firm size, new businesses create disproportionately more jobs (Haltiwanger, Jarmin, and Miranda, 2010)

Job Creation and Destruction at Small Businesses

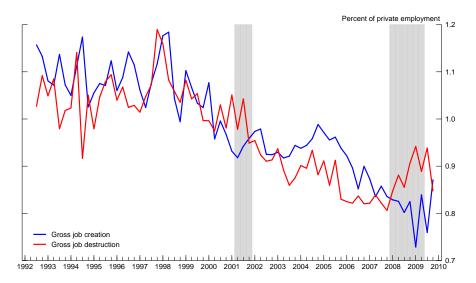


Source: Author's calculations using Business Employment Dynamics data. Notes: Shaded areas indicate NBER-dated recessions.

Research on Employment Dynamics

- How have employment dynamics evolved?
 - Trends of JD and the volatility of firm-level employment growth have declined steadily since the 1980s (Davis et al, 2008)
 - Volatility of JD has fallen much more than the volatility of JC, reducing the relative volatility of destruction to creation (Faberman, 2008)
 - Points to secular decline in intensity of idiosyncratic labor demand shocks
- Who creates jobs? Small businesses or new businesses?
 - Large firms may be more cyclically sensitive than small firms (Moscarini and Postel-Vinay, 2009)
 - After controlling for firm size, new businesses create disproportionately more jobs (Haltiwanger, Jarmin, and Miranda, 2010)

Job Creation and Destruction from Births and Deaths



Source: Author's calculations using Business Employment Dynamics data. Notes: Shaded areas indicate NBER-dated recessions.

Avenues for Improvement

- More timely!
 - Currently published 8 months after end of each quarter
 - ▶ Likely not possible, given ES-202
- Publish level of employment by industry and size
- ► Report flows at longer horizons (e.g., four-quarter change)

Major Differences between QCEW, BED, and CES

	QCEW	BED	CES
Source	Count of UI administrative records submitted by 9.1 million employers	Count of longitudinally-linked UI administrative records submitted by 6.8 million private sector employers	Sample Survey: 410,000 establishments
Coverage	UI and UCFE coverage: all employers subject to State and federal UI Laws	 UI Coverage, excluding: government, private households, and establishments with zero employment 	Non-farm wage and salary jobs: UI Coverage, excluding: agriculture, private households, and self-employed; including: railroads, religious organizations, and other non-UI-covered jobs
Publication frequency	Quarterly 7 Months after the end of each quarter	Quarterly 8 Months after the end of each quarter	Monthly First Friday of each month
Use of UI file	Directly summarizes and publishes each new quarter of UI data	 Links each new UI quarter to longitudinal database and directly summarizes gross job gains and losses 	Uses UI file as a sampling frame and annually realigns (benchmarks) sample estimates to first quarter UI levels
Principal products	Provides a quarterly and annual universe count of establishments, employment, and wages at the county, MSA, State, and national levels by detailed industry	Provides quarterly employer dynamics data on establishment openings, closings, expansions, and contractions at the national level by NAICS super-sectors and by size of firm, and at the state private-sector total level Future expansions will include data with greater industry detail and data at the county and MSA level	Provides current monthly estimates of employment, hours, and earnings at the MSA, State, and national level by industry
Principal uses	Major uses include: —Detailed locality data —Periodic universe counts for benchmarking sample survey estimates —Sample frame for BLS establishment surveys	Major uses include: Business cycle analysis Analysis of employer dynamics underlying economic expansions and contractions Analysis of employment expansion and contraction by size of firm	Major uses include: Principal national economic indicator Official time series for employment change measures Input into other major economic indicators
Program Websites	<u>www.bls.gov/cew/</u>	<u>www.bls.gov/bdm/</u>	<u>www.bls.gov/ces/</u>

Source: BLS. [BACK]