

Job-to-Job Flows (J2J):

New public use data on worker flows across jobs

LEHD Workshop

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Job-to-Job Flows (J2J) fills an important data gap:

In 2000, about $\frac{1}{2}$ of all hires were workers moving from one job to another.

- Most job vacancies are not for entry-level workers

Most job moves are moves ‘up the job ladder’

- $\frac{1}{2}$ of wage growth for young workers is from job change (Topel & Ward, 1992).
- Procyclical worker reallocation from lower paying to higher paying firms (Haltiwanger, Hyatt, & McEntarfer, 2015; Kahn & McEntarfer, 2014).

Better understanding of worker moves across industries and labor markets

Anticipated J2J data users:

Federal policy makers interested in the overall health of the labor market

- 70% of decline in hires in Great Recession was decline in job-to-job moves.

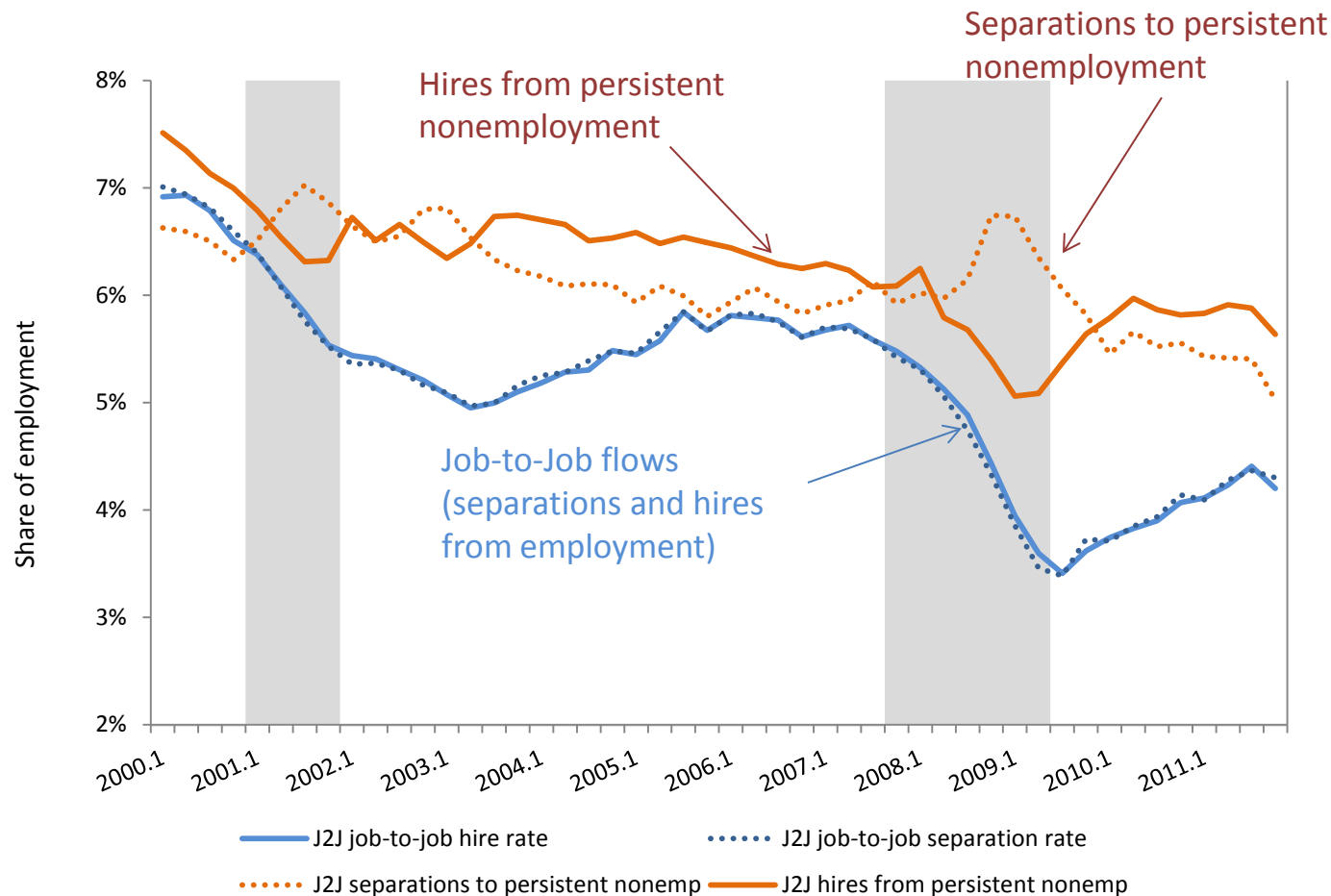
State governors, economic development, and labor market analysts

- concerned about losing workers to job opportunities in other states, more information about own in-migrants
- better targeting trade adjustment labor training

Academic and non-profit researchers

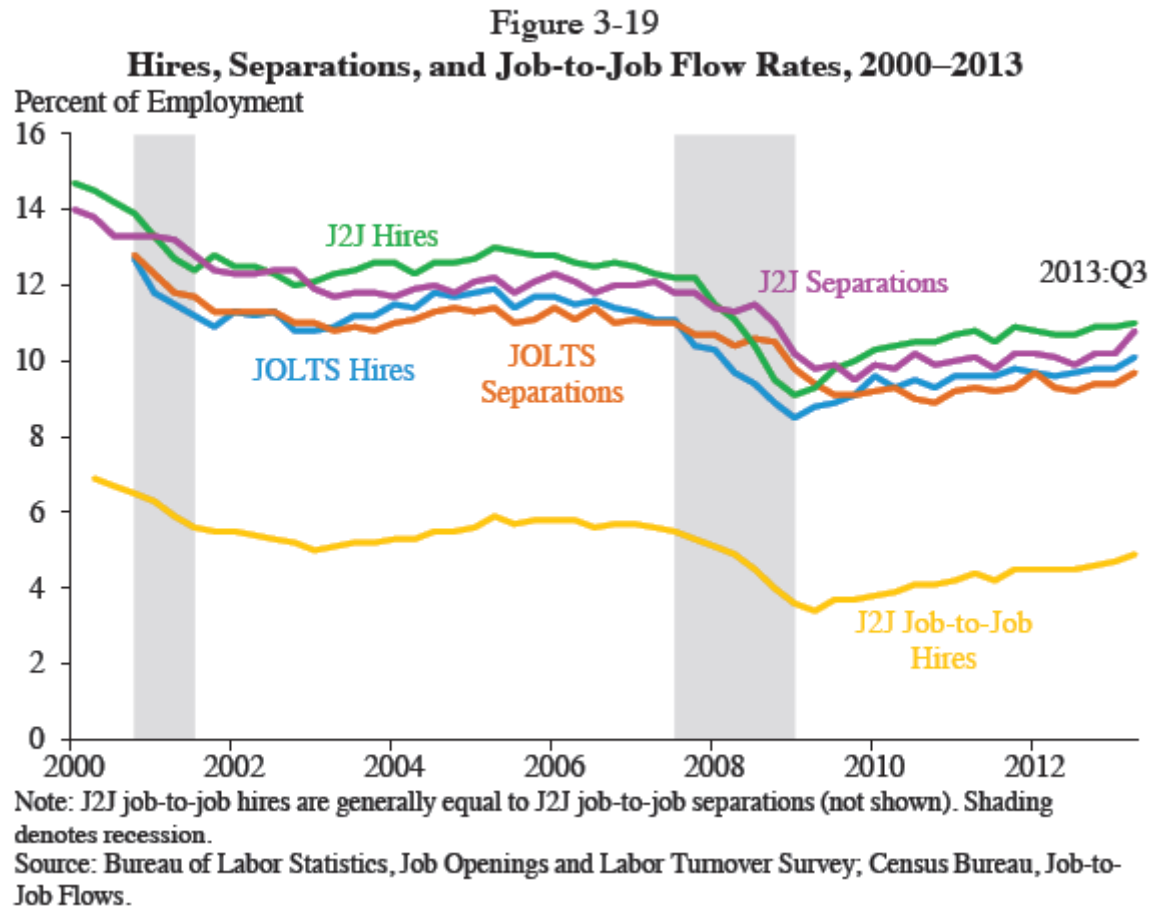
- interested in the reallocation of workers in response to demand shocks

National Job-to-Job Flows: Steep decline in job change in last two recessions



Note: Source: Job-to-Job Flows, national data. Shaded regions indicate NBER recession quarters. All data are seasonally adjusted.

Within months of initial beta release, J2J appeared in the 2015 Economic Report of the President:



Overview of Presentation:

Introduction to Job-to-Job Flows (J2J)

Key J2J statistics and how they compare to other available data

Taking the data for a drive:

- Where are North Dakota mining workers coming from?
- Where are Louisiana teachers going?
- Where did all the manufacturing workers go?

Walkthrough of how to generate examples above

Key J2J Files:

Count and rate files:

- Hires and separations, by whether or not the hire/separation was a job-to-job flow or an employment flow. Currently available by (more detailed tabs forthcoming in later releases):
 - National and state
 - By worker demographics
 - By industry sector, firm age and size
 - Seasonally adjusted and not seasonally adjusted data

Origin-Destination (OD) files:

- For job-to-job flows only: characteristics of origin and destination jobs. Currently available by (more detailed tabs forthcoming in later releases):
 - Origin State and Industry by Destination State and Industry
 - Origin State to Destination State by worker demographics
 - Origin State and (Age/Size) by Destination State and (Age/Size)

Key J2J Statistics:

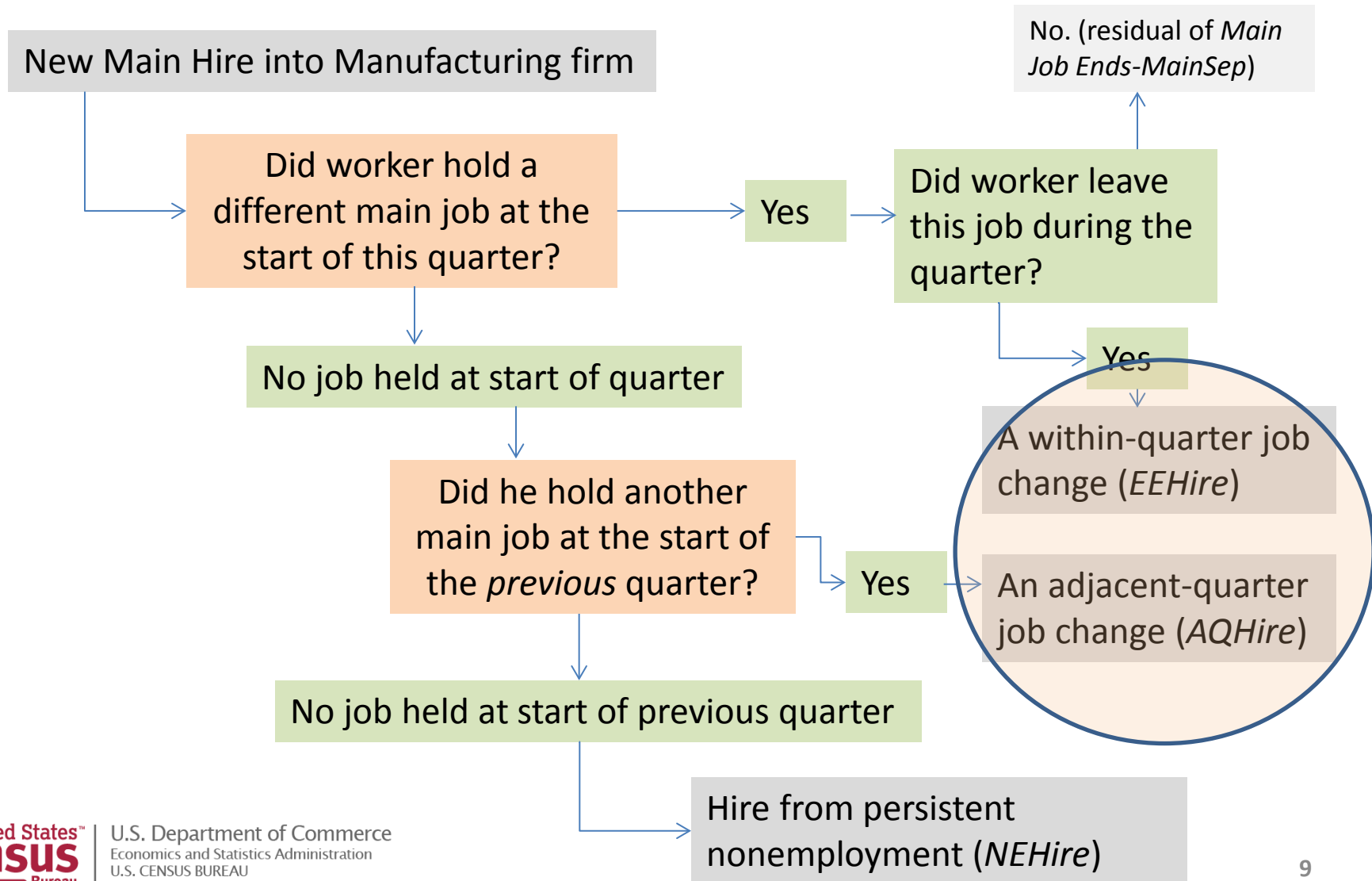
Job-to-job hires/separations:

- Hires and separations from one job to another, with *little or no nonemployment between job spells*
 - *EEHire/EESep: Hires and separations, job change occurs within the quarter*
 - *AQHire/AQSep: Hires and separations, job change occurs across the quarter*
 - *J2JHire/J2JSep: Sum of EE and AQ, our preferred measure of hires/separations associated with job change*

Hires/separations from/to persistent nonemployment:

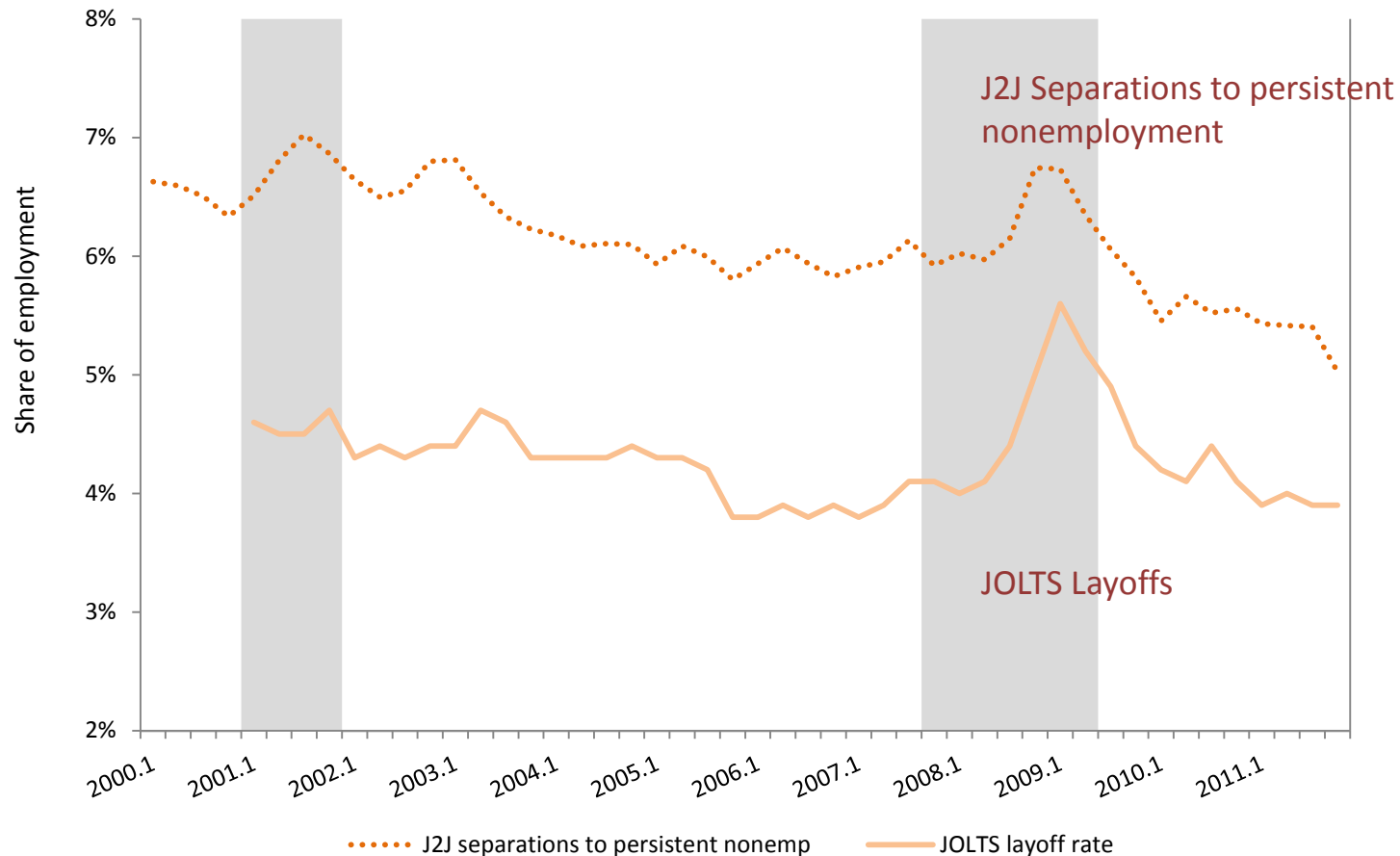
- Hires and separations to/from *longer nonemployment spells*
 - *NEPersist/ENPersist: Hires and separations where worker is not employed at either end of the quarter prior to hire/after separation*
 - *NEFullQ/ENFullQ: Subset of NEPersist/ENPersist, hires and separations where worker is not employed for the entire quarter prior to hire/after separation*

Conceptually, a flow chart (hires):



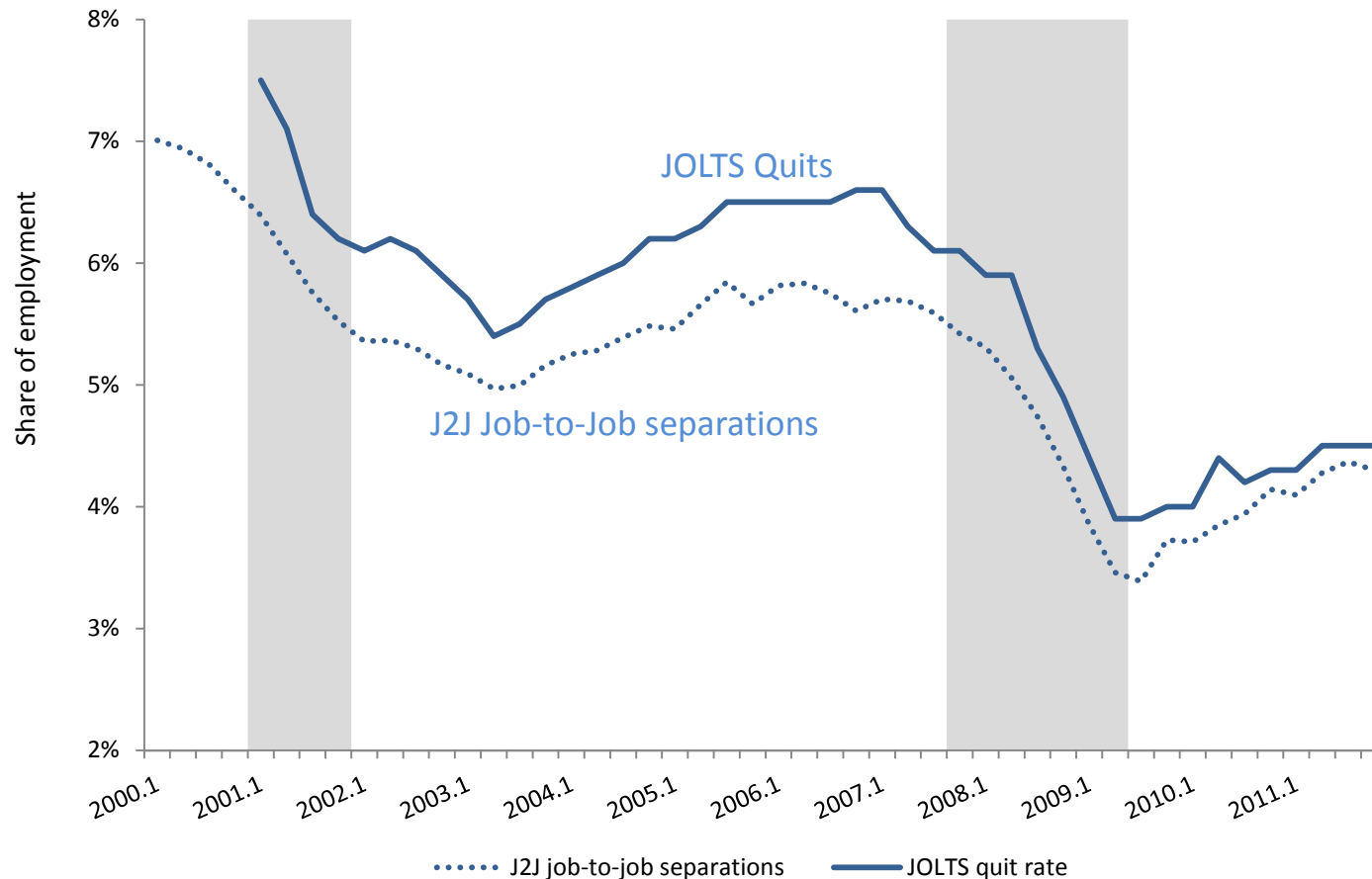
How do J2J compare to other related series?:

Comparison to JOLTS: Layoffs



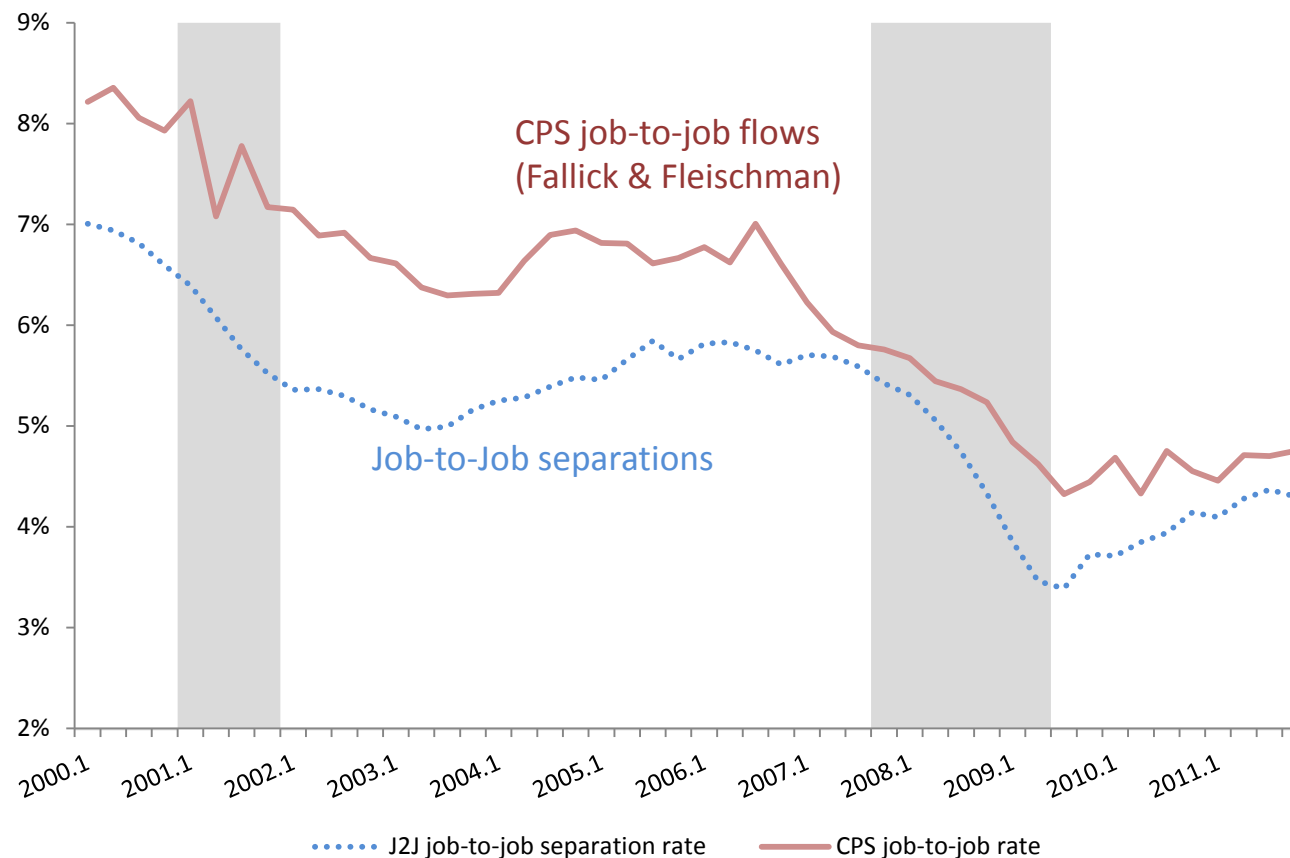
Note: Shaded regions indicate NBER recession quarters. All data are seasonally adjusted. These J2J tabulations do not include planned adjustments to the J2J series to account for partially-missing geography early in the time series.

Comparison to JOLTS: Quits



Note: Shaded regions indicate NBER recession quarters. All data are seasonally adjusted. These J2J tabulations do not include planned adjustments to the J2J series to account for partially-missing geography early in the time series.

J2J separations-to-employment vs. CPS employer-to-employer flows

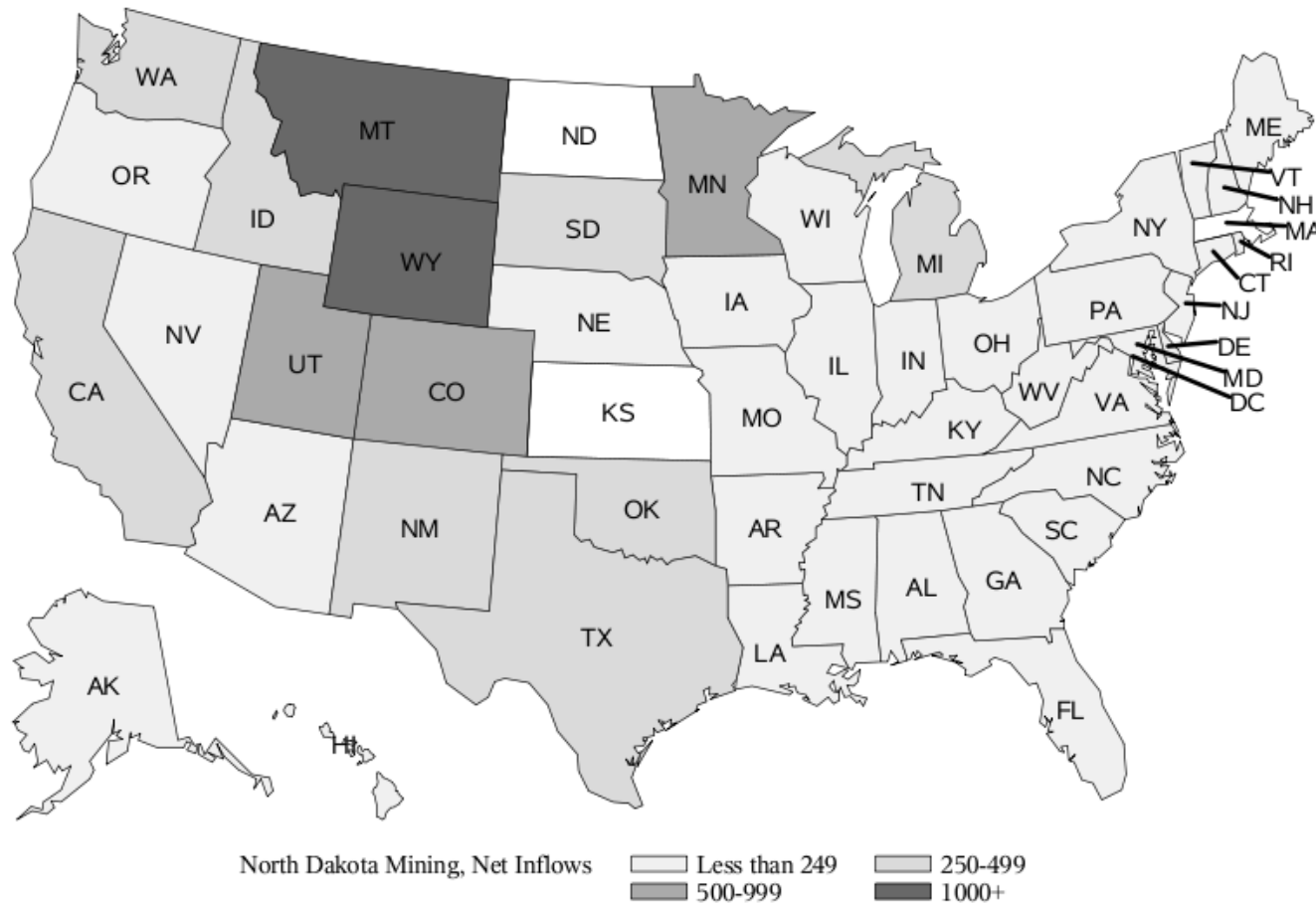


Note: Shaded regions indicate NBER recession quarters. All data are seasonally adjusted. These J2J tabulations do not include planned adjustments to the J2J series to account for partially-missing geography early in the time series.

Taking the J2J data for a drive:

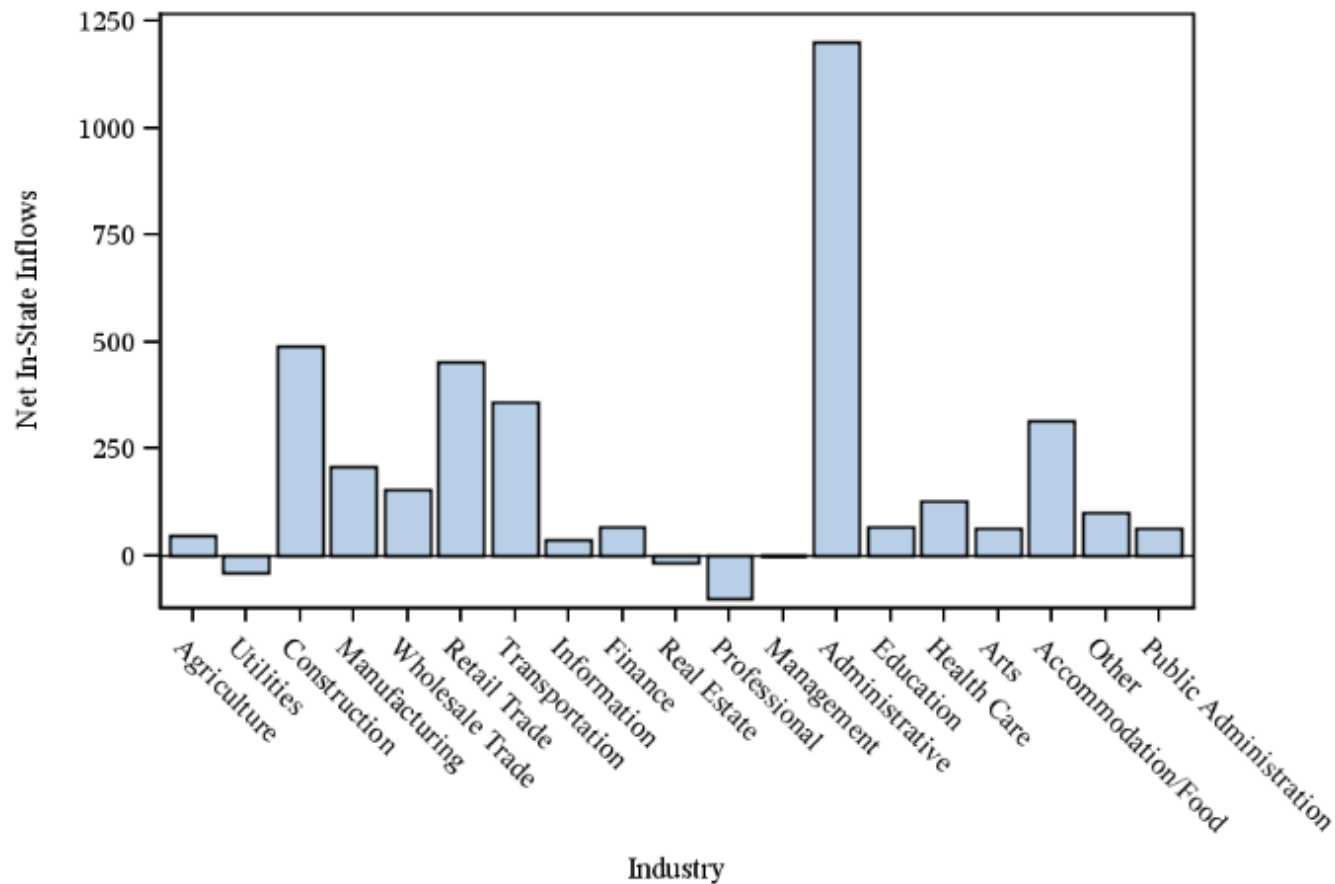
Example 1: Where are North Dakota mining workers coming from?

Net migration of out-of-state workers into the North Dakota mining sector: 2010-2014



Source: U.S. Bureau of Census, Job-to-Job Flows

Net in-state inflows into the North Dakota mining sector: 2010-2014



Source: U.S. Bureau of Census, Job-to-Job Flows

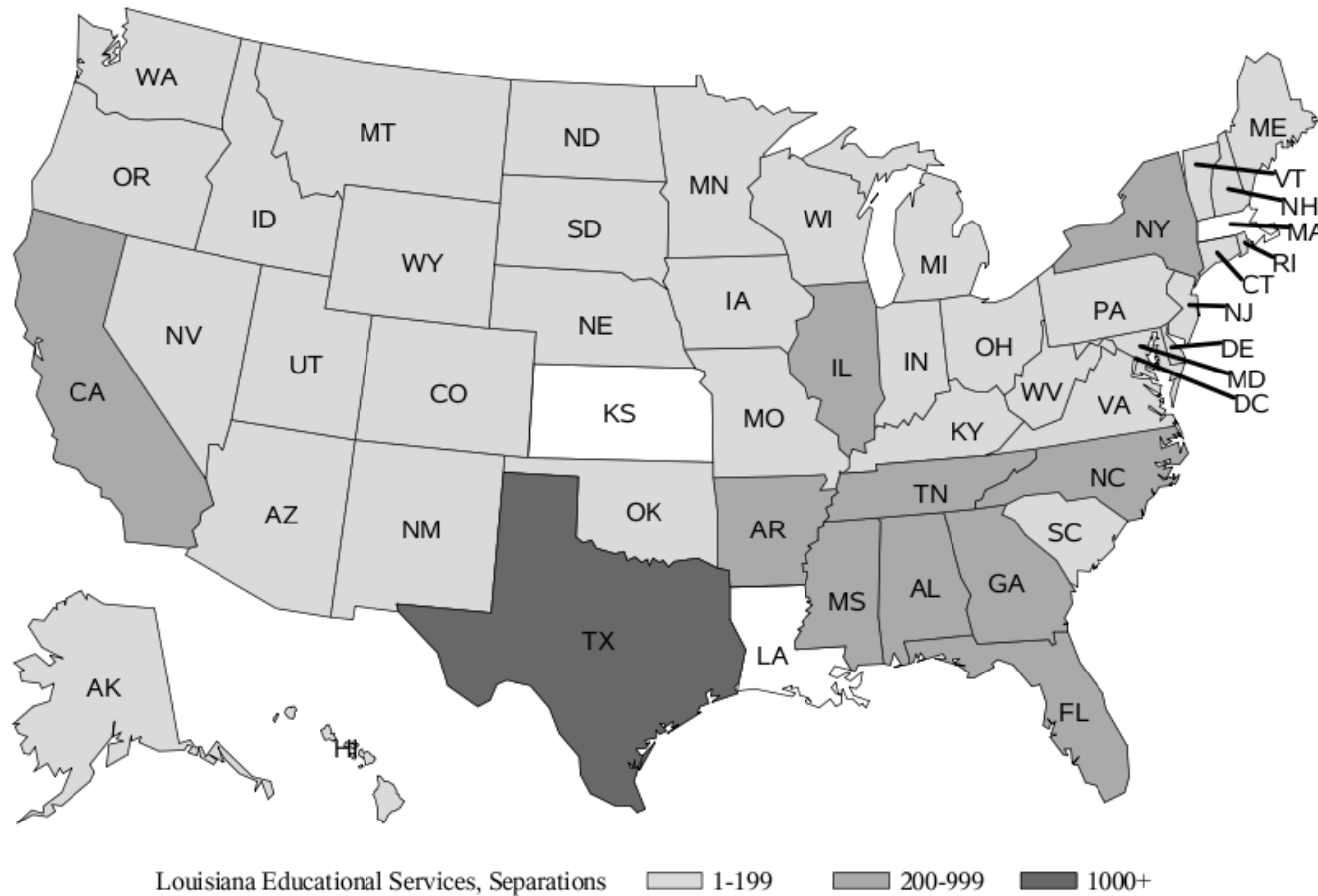
Example 2:

Where are Louisiana's teachers going?

Joyce was in AmeriCorps in the Baton Rouge area after Katrina...

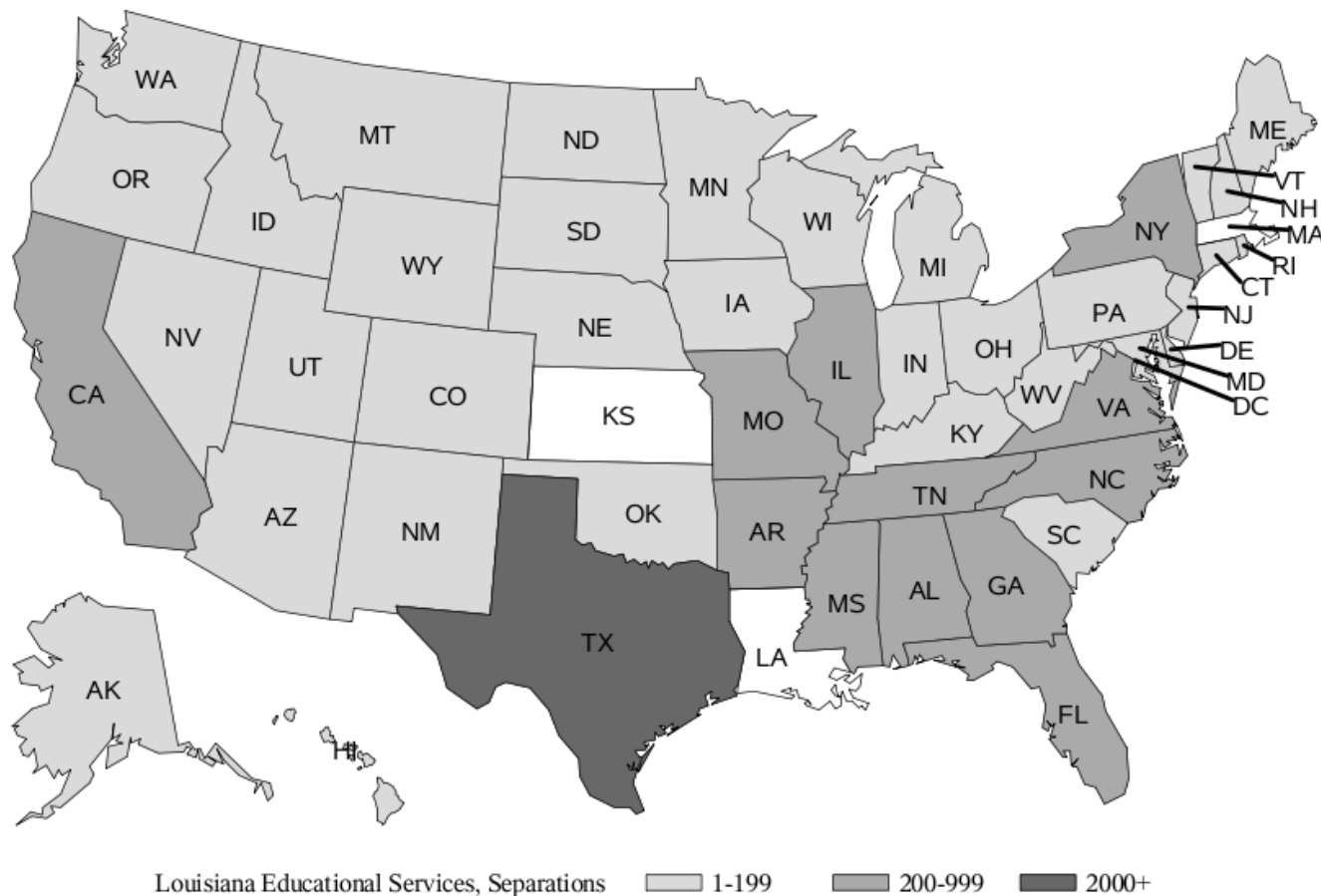
- She worked in the local schools
- There were serious problems with teacher retention
 - There were concerns that Katrina evacuees that were teachers weren't coming back to Louisiana
 - That they found jobs and stayed put
- So in this example, we look at the J2J data to answer the question Joyce had back in 2007
 - How many teachers are leaving Louisiana for other education jobs?

Louisiana education workers leaving to take education jobs out-of-state: 2005.3-2014.2

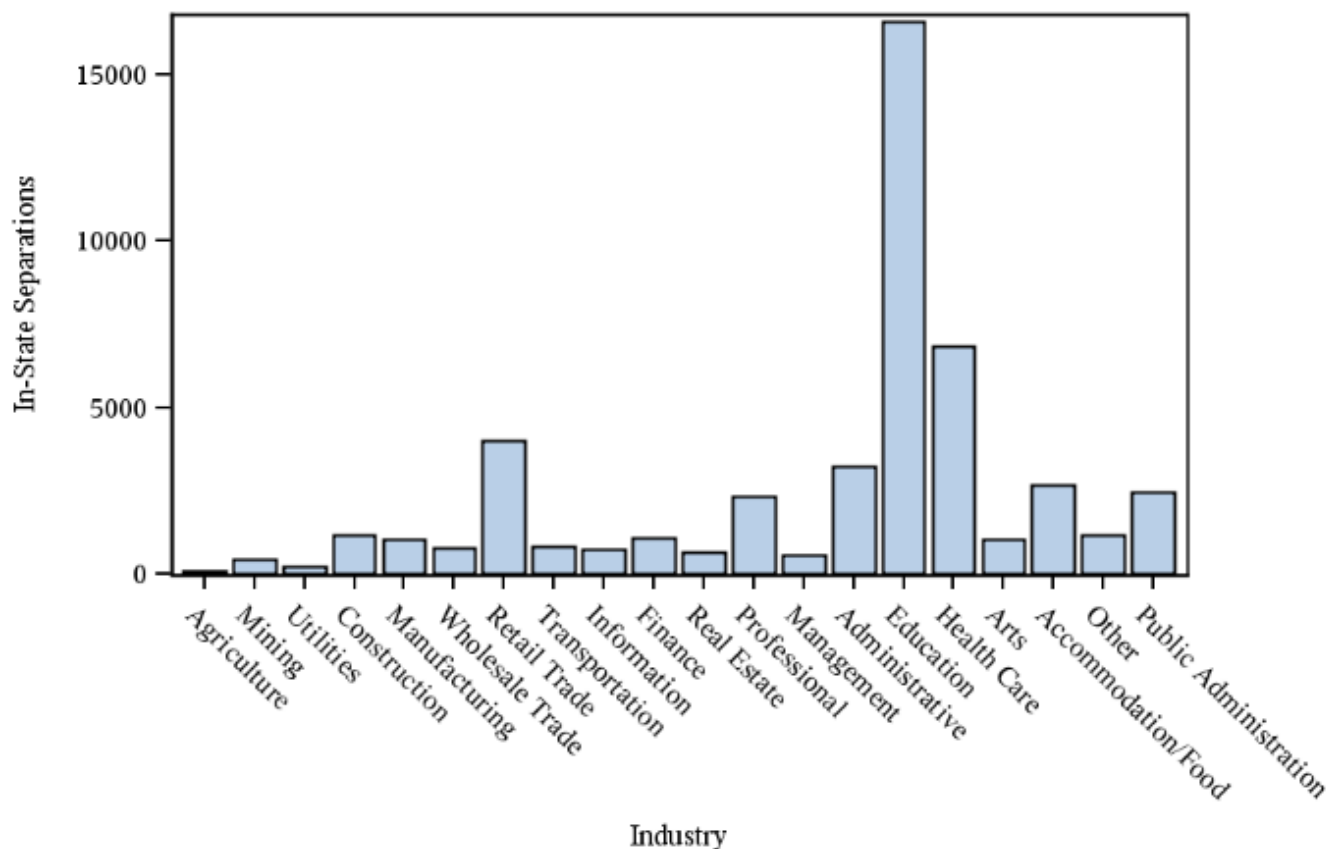


Source: U.S. Bureau of Census, Job-to-Job Flows

Louisiana education workers leaving to take *non-education* jobs out-of-state: 2005.3-2014.2



In-state separations from the Louisiana education sector: 2005.3-2014.2

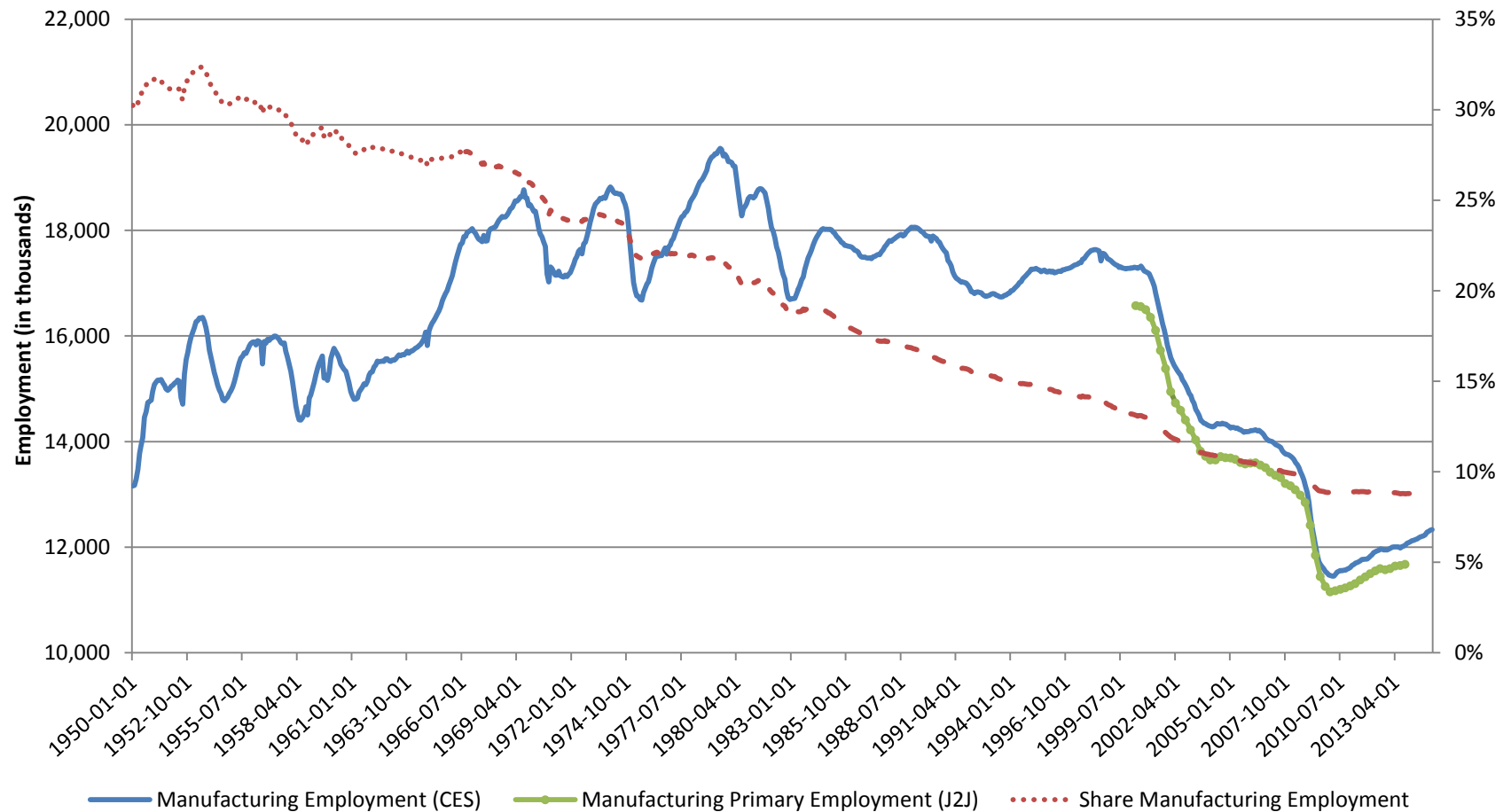


Source: U.S. Bureau of Census, Job-to-Job Flows

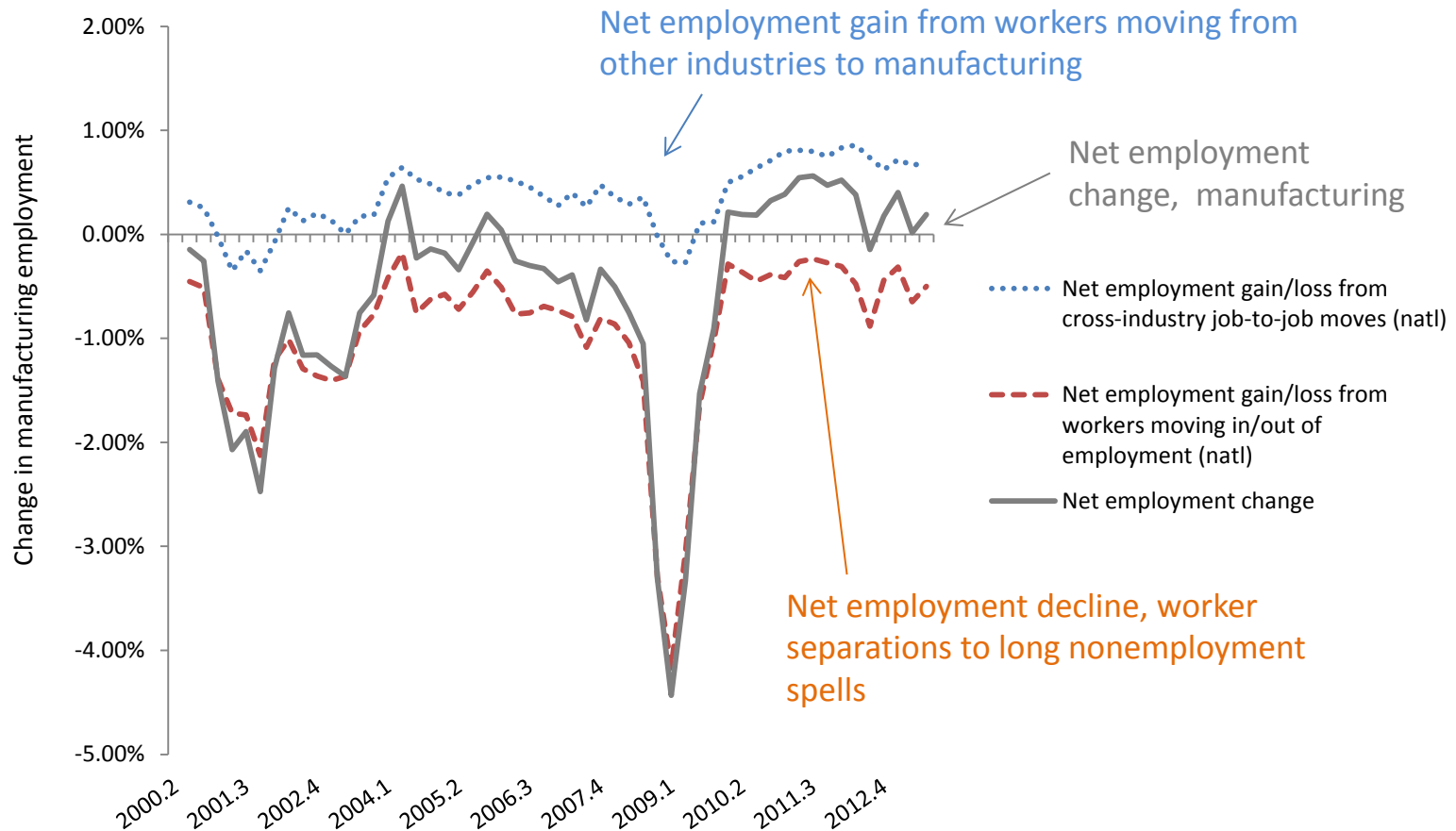
Example 3:

Where did all the manufacturing workers go?

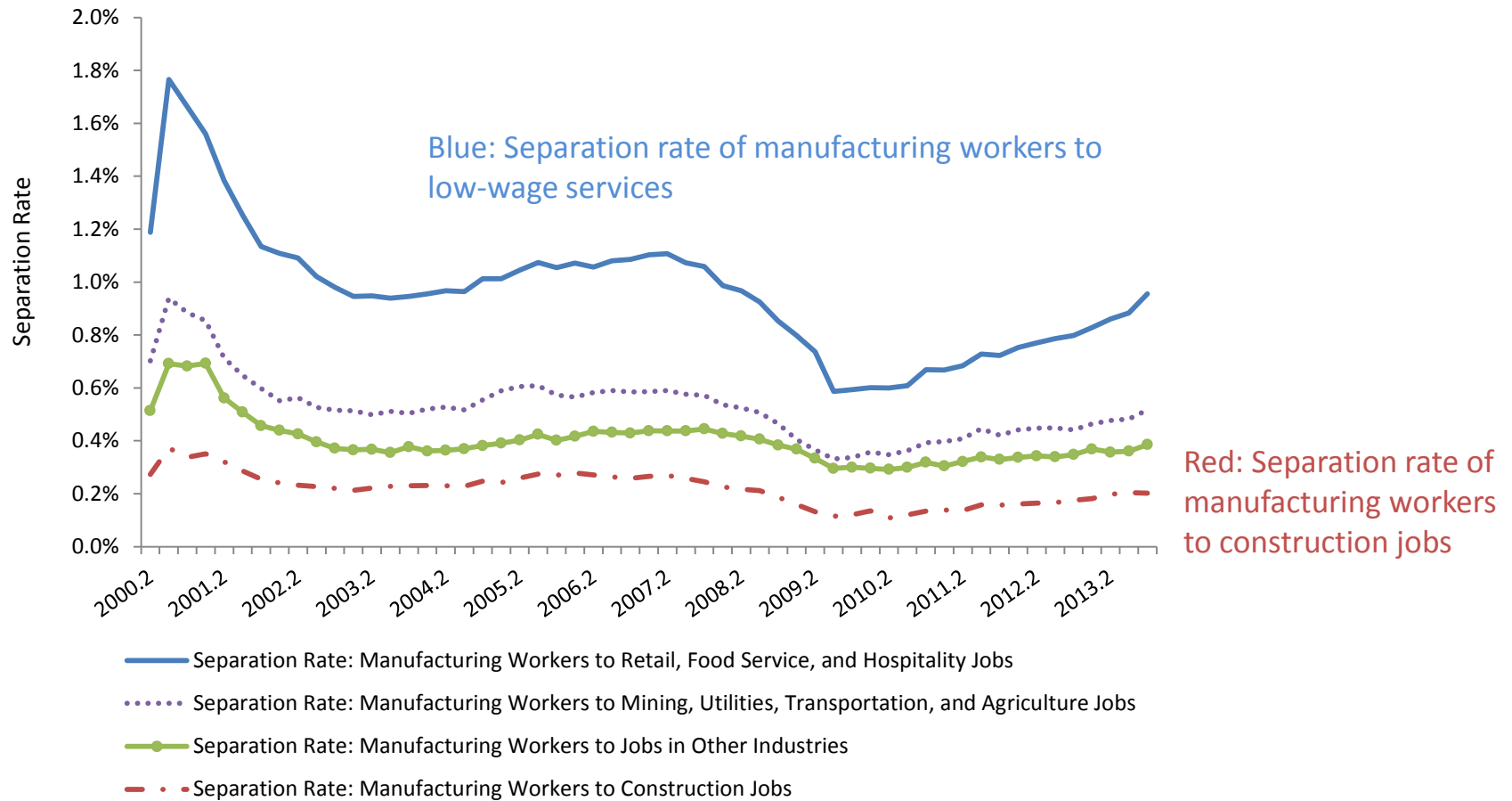
There was a surprisingly swift decline in U.S. manufacturing employment between 2000-2013



J2J: decompose employment decline into flows to other industries vs. flows to long nonemployment spells



Separation rates from manufacturing to other industries



What happened to downsized manufacturing workers who experienced longer nonemployment spells?:

J2J OD currently available only for workers with less than 4-6 months of nonemployment between job spells

We hope to be able to release OD data for workers with longer nonemployment spells in later releases.

For now, I can tell you a little about what happened to them: For the 2000-2003 separators:

- ~35% recalled to previous employer or found another manufacturing job
- ~45% found jobs in other industries
 - ½ of these after a nonemployment spell of over a year, mostly appear to become general laborers and truck drivers
- ~20% have no subsequent UI-covered employment.

How to do the examples shown here: a
walkthrough of how to use the beta data

A J2J data application is coming!

But until it's here...things are a bit more basic

To start – how to find the beta J2J data:

U.S. Department of Commerce | Blogs | Index A-Z | Glossary | FAQs

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Longitudinal Employer-Household Dynamics

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Applications

- QWI Explorer
- OnTheMap
- OnTheMap for Emergency Management
- LED Extraction Tool

Useful Links

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- QWI Data
- LODES Data
- LED Workshop

Contact Information

Email us:
CES.LocalEmploymentDynamics@census.gov

or

Call us at (301) 763-8303

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Job-to-Job Flows (J2J) is a new set of statistics on worker reallocation in the United States. This initial release of national data distinguishes hires and separations associated with job change from hires from and separations to nonemployment.

[View J2J Data Page](#)

Hires and Separations: Job Change vs. Nonemployment

Legend:

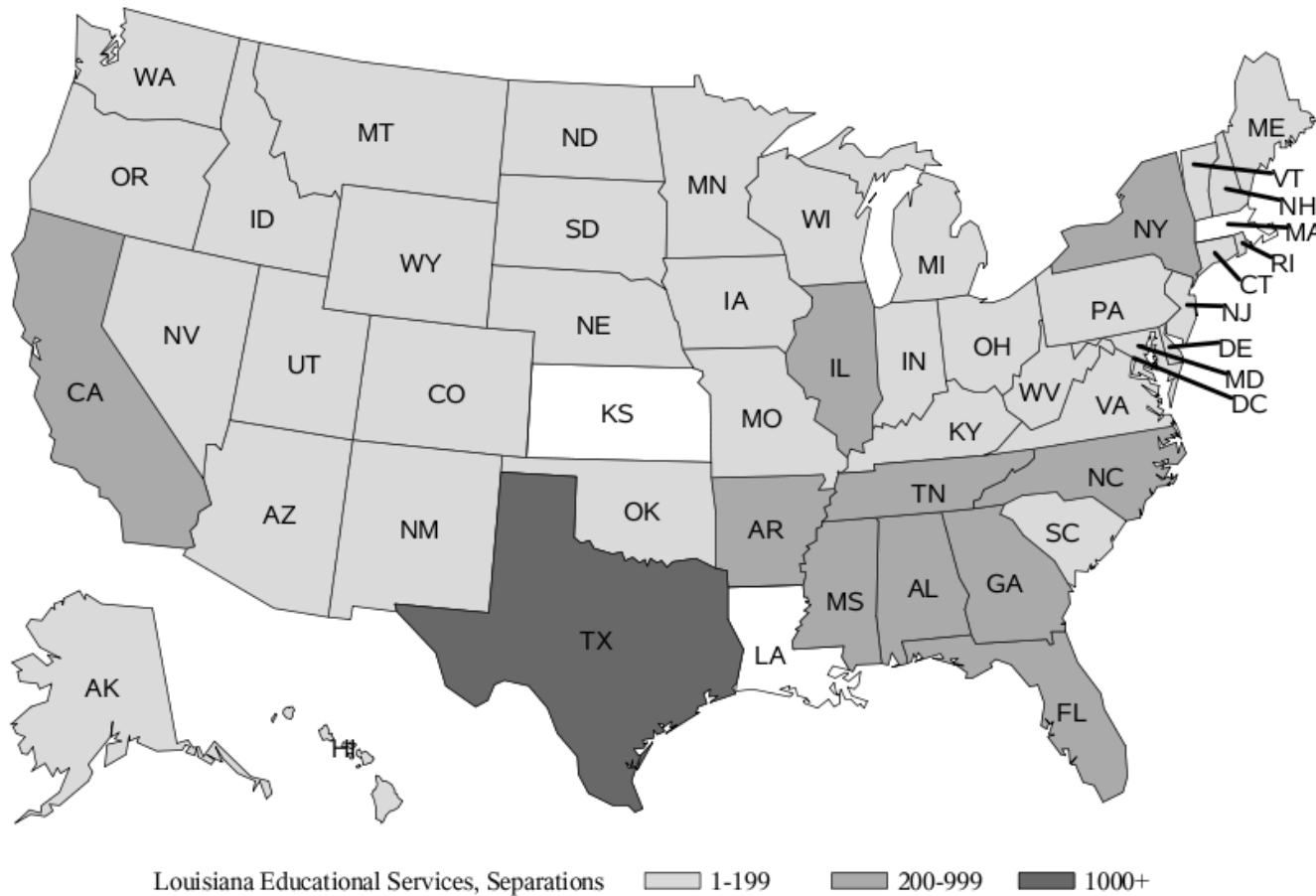
- J2J job-to-job hire rate
- J2J job-to-job separation rate
- J2J separations to persistent nonemp
- J2J hires from persistent nonemp

What's New?

- 12/03/14: [OnTheMap Version 6.3 Released](#)
- 11/18/14: [Beta Release of Job-to-Job Flows](#)
- 09/17/14: [Presentations from 2014 LEHD Conference](#)

[View all announcements](#)

How to get the data to make this map



Source: U.S. Bureau of Census, Job-to-Job Flows

First pull the industry sector level data

J2JOD Data Series: These files contain **origin and destination job characteristics data** of job-to-job flows - specifically, job transitions that take place within the same quarter or in adjacent quarters. Data is available by

- Origin state/destination state (including within-state job-to-job flows)
- Origin state/destination state by worker demographics (sex by age, sex by education, race by education)
- Origin state/destination state by origin industry/destination industry
- Origin state/destination state by origin firm size/destination firm size
- Origin state/destination state by origin firm age/destination firm age

Download J2J data:

Use the selector tool below to choose and download files. Note: .xls format is available only for smaller files

Version: State/Territory: Type: Format:

[v4.1c-draft | Metadata for LA](#)

j2jod_la_all.csv	18 Aug 2015 12:40	96 MB
j2jod_la_d_f_gs_n_oslp_u.csv	18 Aug 2015 12:43	14 MB
j2jod_la_d_f_gs_ns_oslp_u.csv	18 Aug 2015 12:43	6 MB
j2jod_la_d_fa_gs_n_oslp_u.csv	18 Aug 2015 12:43	9 MB
j2jod_la_d_fs_gs_n_oslp_u.csv	18 Aug 2015 12:44	7 MB
j2jod_la_rh_f_gs_n_oslp_u.csv	18 Aug 2015 12:44	14 MB
j2jod_la_sa_f_gs_n_oslp_u.csv	18 Aug 2015 12:44	6 MB
j2jod_la_se_f_gs_n_oslp_u.csv	18 Aug 2015 12:44	9 MB

Note about the data schema: Full descriptions of all categorical variables, measure layouts, and more can be found in the data schema. For the latest version, choose the Version, State/Territory, Type and Format of the data series desired and push the "View Files" button in the selector tool above. A list of files should subsequently appear with two links centered above it. Click on the left link. Since the last release, the data schema has been updated from v4.1b-draft to v4.1c-draft.

Note about data file names: Data files have the following filename structure:

J2J (Beta) Help

Learn more about J2J (Beta) by choosing one of the links below.

- [Job-to-Job Flows: Quick Start Guide](#) (165 KB)

Then filter geography_orig to obtain the origin state of interest.

The screenshot shows the Microsoft Excel interface with the 'Data' tab selected. A data table is displayed with the following columns: geography, industry, year, quarter, geography_orig, industry_orig, EE, and AQHire. The 'geography_orig' column is highlighted, and a filter dropdown menu is open, showing a list of states with checkboxes. The state '21' is selected. The data table contains 15 rows of data.

	A	B	C	D	E	F	G	H	I	J	K
	geography	industry	year	quarter	geography_orig	industry_orig	EE	AQHire			
1											
2	22	0	2002			0	49895	31864			
3	22	11	2002			0	237	183			
4	22	21	2002			0	1206	583			
5	22	22	2002			0	163	76			
6	22	23	2002			0	5013	2585			
7	22	31-33	2002			0	3497	2038			
8	22	42	2002			0	1738	881			
9	22	44-45	2002			0	8300	5948			
10	22	48-49	2002			0	2115	1252			
11	22	51	2002			0	851	495			
12	22	52	2002	4	0	0	1635	723			
13	22	53	2002	4	0	0	1175	631			
14	22	54	2002	4	0	0	1701	976			
15	22	55	2002	4	0	0	537	266			

Then filter industry_orig to obtain the origin industry of interest.
Repeat with industry for the destination industry of interest.

The screenshot shows a Microsoft Excel spreadsheet with the following data table:

	A	B	C	D	E	F	G	H	I	J
	geography	industry	year	quarter	geography_orig	industry_orig	EE	AQHire		
1966			2002	4	22	61	928	824		
1986			2002	4	22	61	3	3		
2006			2002	4	22	61	3	1		
2026			2002	4	22	61	3	3		
2046			2002	4	22	61	18	17		
2066			2002	4	22	61	34	29		
2086			2002	4	22	61	16	14		
2106			2002	4	22	61	125	110		
2126			2002	4	22	61	14	7		
2146			2002	4	22	61	17	11		
2166		0	52	2002	4	22	61	22	8	
2186		0	53	2002	4	22	61	12	7	
2206		0	54	2002	4	22	61	52	28	
2226		0	55	2002	4	22	61	6	6	

The 'industry' column filter menu is open, showing a list of industry codes. The code '61' is selected, and the 'OK' button is highlighted.

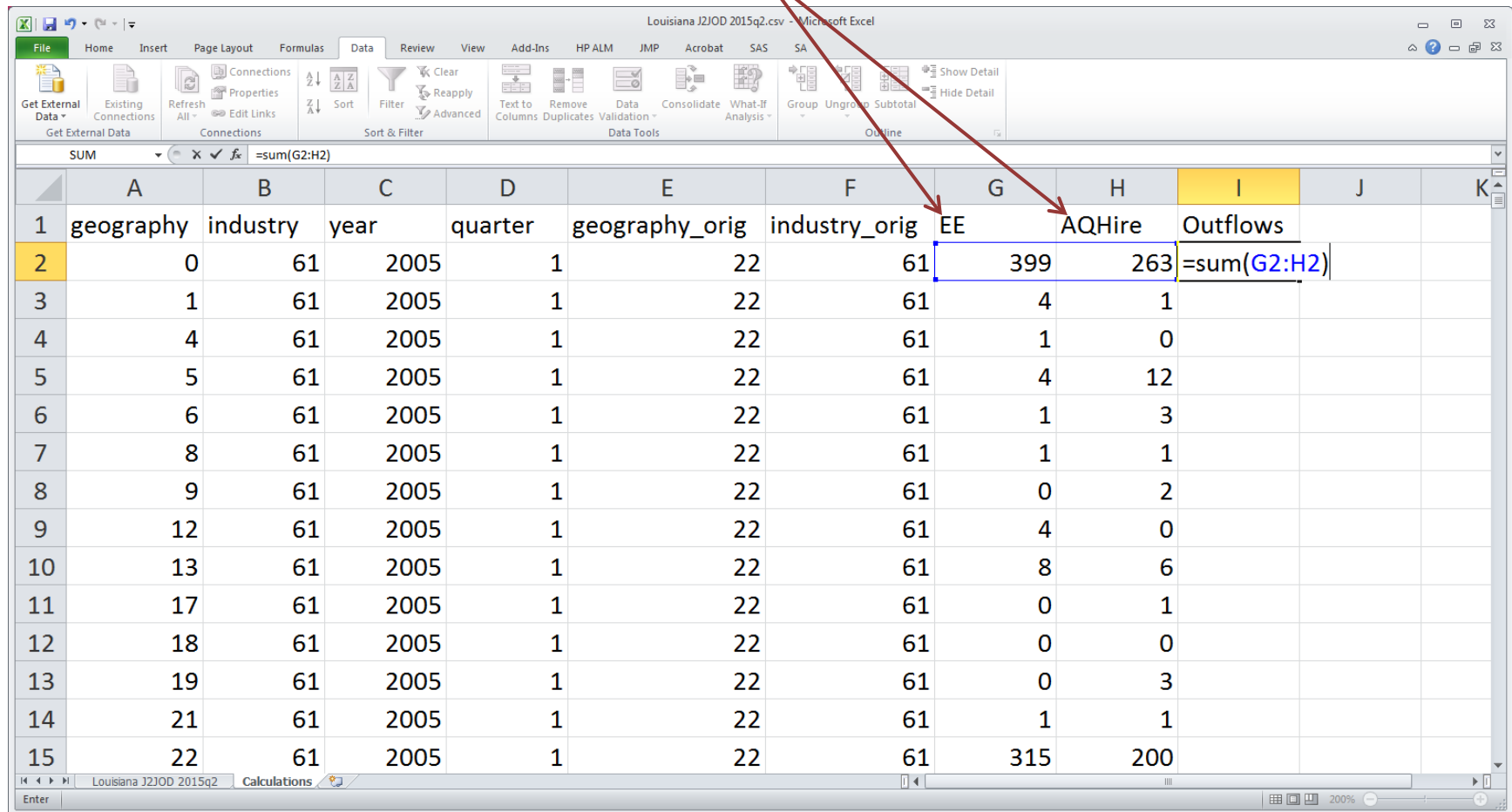
Then filter years to obtain the period of interest. (In the interest of time, let's choose only one quarter: 2005.1)

The screenshot shows a Microsoft Excel spreadsheet with the following data table:

	A	B	C	D	E	F	G	H	I	J
1	geography	industry	year	quarter	geography_orig	industry_orig	EE	AQHire		
2266				4	22	61	219	265		
3910				4	22	61	2	1		
3963				4	22	61	2	0		
4108				4	22	61	1			
4330				4	22	61	1	4		
4463				4	22	61	0	1		
4701	17			4	22	61	2	3		
4910	13			4	22	61	0	2		
5079	17			4	22	61	1	2		
5277	21			4	22	61	1	0		
8202	22	61	2002	4	22	61	188	213		
9492	24	61	2002	4	22	61	0	1		
9566	26	61	2002	4	22	61	0	0		
9719	29	61	2002	4	22	61	0	1		

The 'year' column (C) has a filter dropdown menu open, showing a list of years from 2002 to 2010. The year 2005 is selected. A red arrow points from the text above to the 'year' column header.

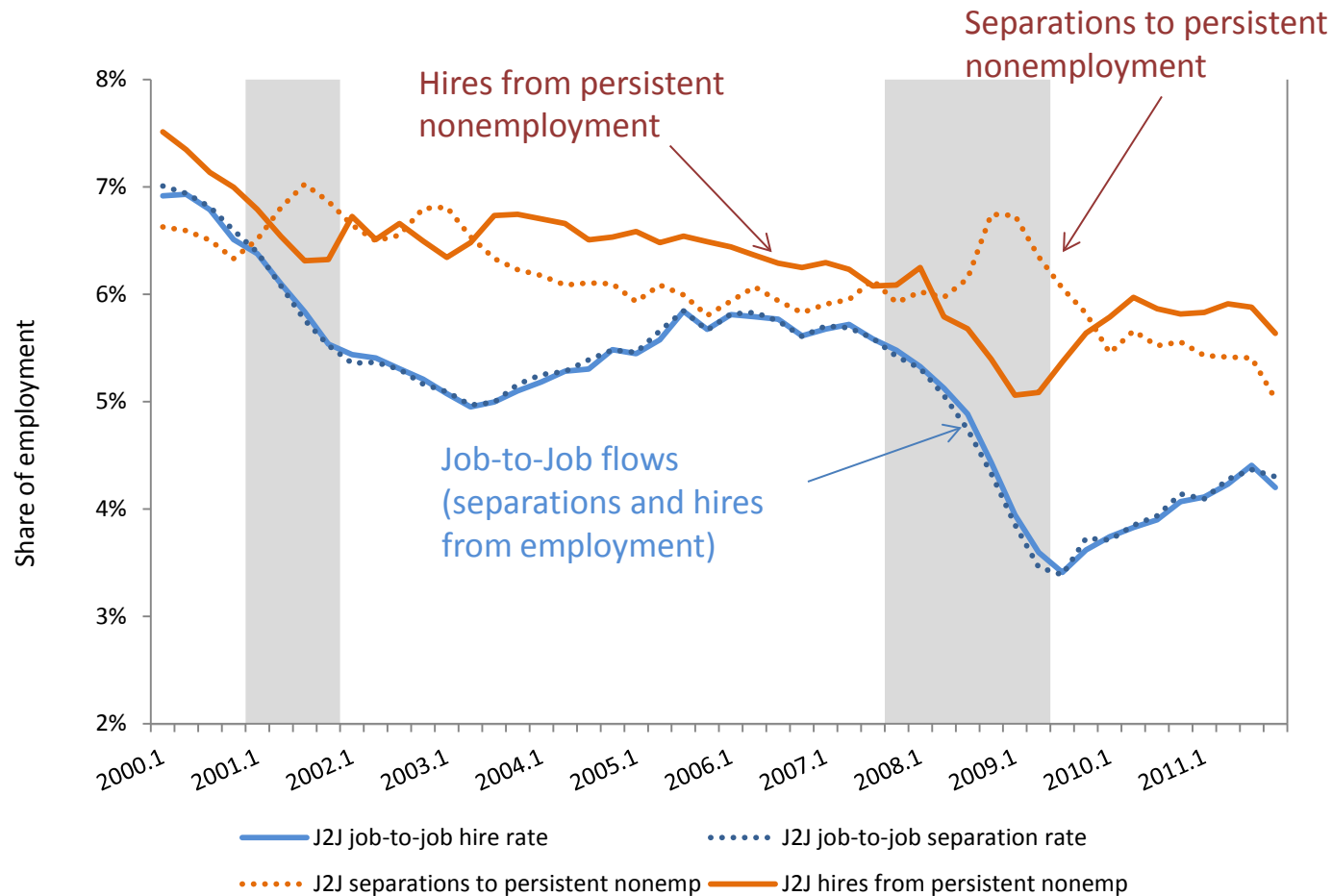
Then sum EE and AQHire to get all Outflows for every state by year and quarter.



The screenshot shows an Excel spreadsheet titled 'Louisiana J2JOD 2015q2.csv'. The data is organized in columns: A (geography), B (industry), C (year), D (quarter), E (geography_orig), F (industry_orig), G (EE), H (AQHire), and I (Outflows). The formula bar at the top shows '=sum(G2:H2)', and a red arrow points from the instruction text to this formula bar.

	A	B	C	D	E	F	G	H	I	J	K
	geography	industry	year	quarter	geography_orig	industry_orig	EE	AQHire	Outflows		
2	0	61	2005	1	22	61	399	263	=sum(G2:H2)		
3	1	61	2005	1	22	61	4	1			
4	4	61	2005	1	22	61	1	0			
5	5	61	2005	1	22	61	4	12			
6	6	61	2005	1	22	61	1	3			
7	8	61	2005	1	22	61	1	1			
8	9	61	2005	1	22	61	0	2			
9	12	61	2005	1	22	61	4	0			
10	13	61	2005	1	22	61	8	6			
11	17	61	2005	1	22	61	0	1			
12	18	61	2005	1	22	61	0	0			
13	19	61	2005	1	22	61	0	3			
14	21	61	2005	1	22	61	1	1			
15	22	61	2005	1	22	61	315	200			

Example 2: How to make this graph



Note: Source: Job-to-Job Flows, national data. Shaded regions indicate NBER recession quarters. All data are seasonally adjusted.

First access the data

Longitudinal Employer-House... x Data - Longitudinal Employer... x +

lehd.ces.census.gov/data/j2j_beta.html

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Contact Information

Email us: CES.Local.Employment.Dynamics@census.gov

or

Call us at (301) 763-8303

[Further contact information](#)

Job-to-Job Flows (J2J) Data (Beta)

This is a beta release from the U.S. Census Bureau of new national statistics on worker reallocation in the United States constructed from the LEHD data. This new data distinguishes hires and separations associated with job changes from hires from and separations to nonemployment. A separate file provides origin and destination job characteristics of workers changing jobs. This new data allows a comprehensive look at the reallocation of workers across different sectors of the U.S. economy. Moreover, it allows examination of the flows of workers across state lines, by demographic characteristics such as age and education. Earnings changes associated with job changes, another new feature of the J2J statistics, can help analysts better understand the nature of job ladders and lifetime earnings growth.

These data are available via the LED Extraction Tool.

Grab the 'rates' file

We're using national data this time

Download J2J data:

Version: R2014Q3 State/Territory: United States Type: j2jr Format: XLS

[View Files](#)

v4.1-draft | [Metadata for US](#)

j2jr_us_all.xls	07 Nov 2014 14:47	6 MB
j2jr_us_d_f_gn_n_s.xls	07 Nov 2014 14:47	59 KB
j2jr_us_d_f_gn_n_u.xls		39 KB
j2jr_us_d_f_gn_ns_s.xls		21 KB

Grab 'all demographics, all industries, all firm size/age, seasonally adjusted' file

Job-to-Job Flow Rates

Source: United States Census Bureau

Release: 2014Q3

Data Schema version: V4.1-draft

National rates, all firms, all workers (Seasonally Adjusted)

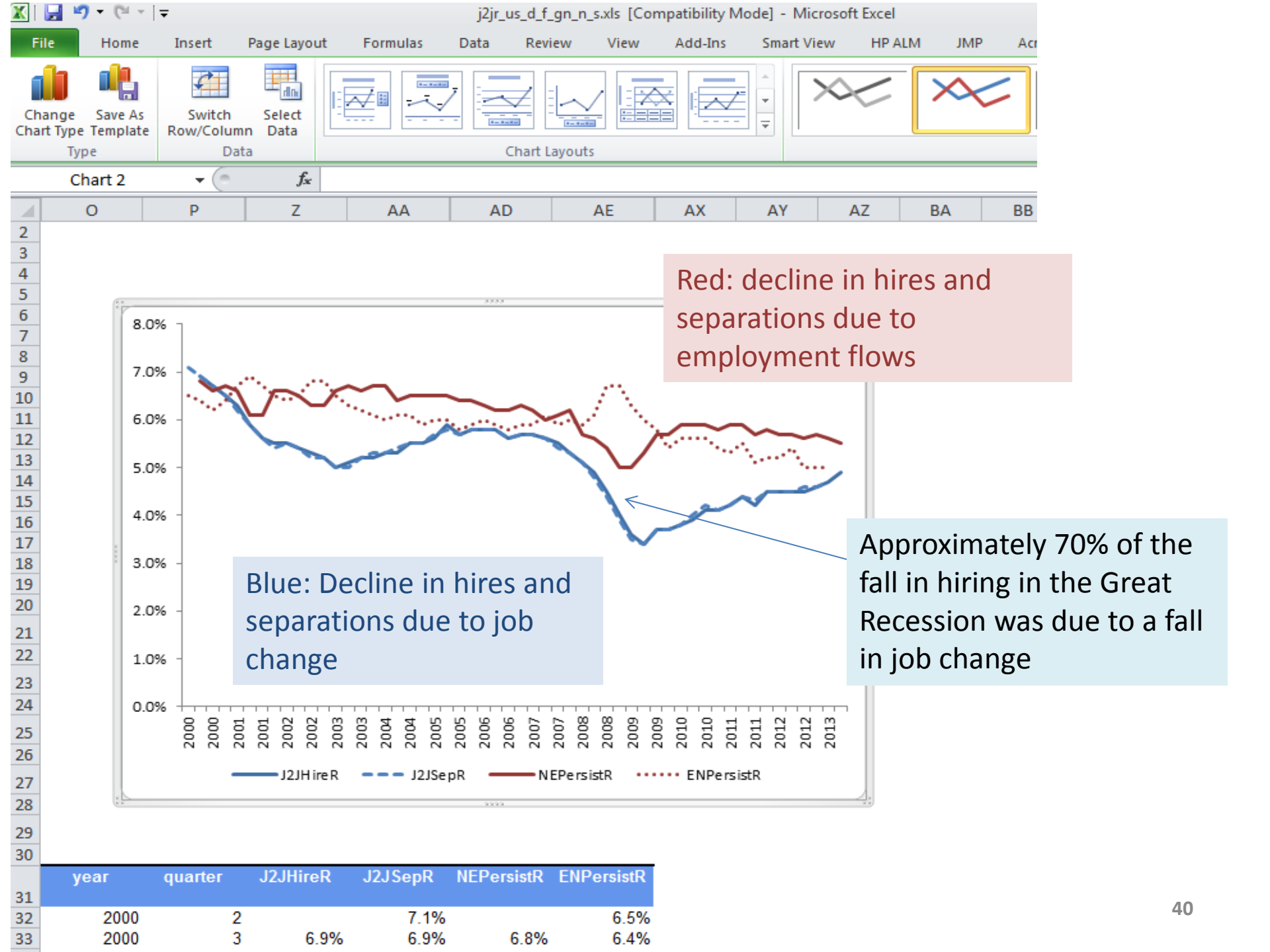
Confirm grabbed the correct file for your analysis

	periodicity	seasonadj	geo_level	geography	ind_level	industry	ownercode	sex	agegrp	race	ethnicity	education	firmage	firm
12	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
13	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
14	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
15	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
16	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
17	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
18	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
19	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
20	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
21	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
22	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
23	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
24	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
25	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
26	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
27	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0
28	Q	S	N	00	A	00	A00	0	A00	A0	A0	E0	0	0

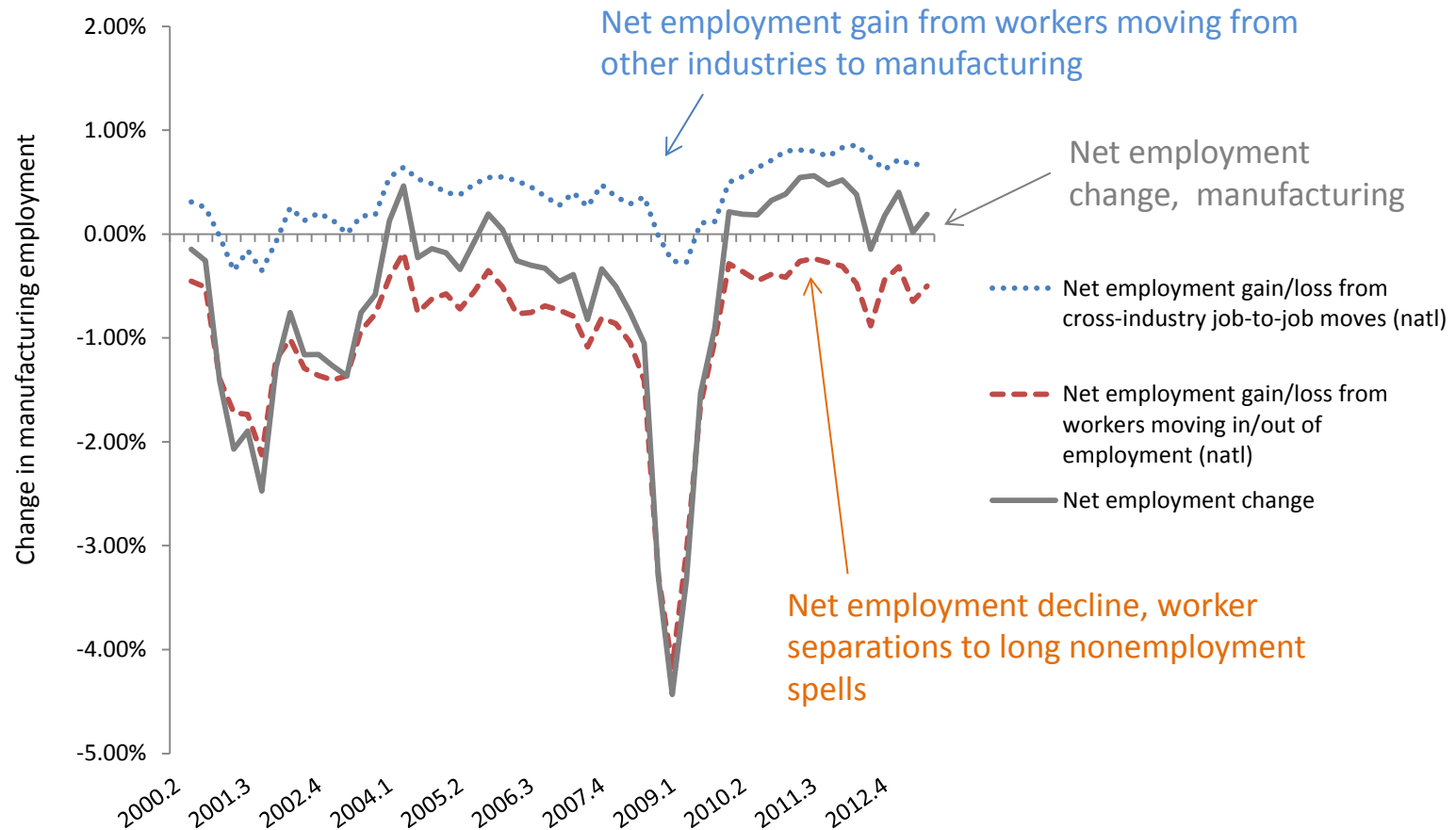
Hide everything
except the variables
you want to graph

Recall that Main Hires is the sum of:

- *J2JHire (hires of workers changing jobs)
- *NEPersist (hires of workers from persistent nonemployment spells)



Example 3: How to make this graph



First pull the industry sector level data

Longitudinal Employer-House... x Data - Longitudinal Employer... x +

lehd.ces.census.gov/data/j2j_beta.html

lehd

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- LED Workshop

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Job-to-Job Flows (J2J) Data (Beta)

This is a beta release from the U.S. Census Bureau of new national statistics on worker reallocation in the United States constructed from the LEHD data. This new data distinguishes hires and separations associated with job changes from hires from and separations to nonemployment. A separate file provides origin and destination job characteristics of workers changing jobs. This new data allows a comprehensive look at the reallocation of workers across different sectors of the U.S. economy. Moreover, it allows examination of the flows of workers across state lines, by demographic characteristics such as age and education. Earnings changes associated with job changes, another new feature of the J2J statistics, can help analysts better understand the nature of job ladders and lifetime earnings growth.

These data are available as LEHD Extraction Files.

Job-to-Job Flows (J2J) Data (Beta)

These files cover the period from 2000 to the latest available data.

Download J2J data:

Version: R2014Q3 State/Territory: United States Type: j2jr Format: XLS

[View Files](#)

[v4.1-draft](#) | [Metadata for US](#)

File Name	Date/Time	Size
j2jr_us_all.xls	07 Nov 2014 14:47	6 MB
j2jr_us_d_f_gn_n_s.xls	07 Nov 2014 14:47	59 KB
j2jr_us_d_f_gn_n_u.xls		39 KB
j2jr_us_d_f_gn_ns.xls		21 KB

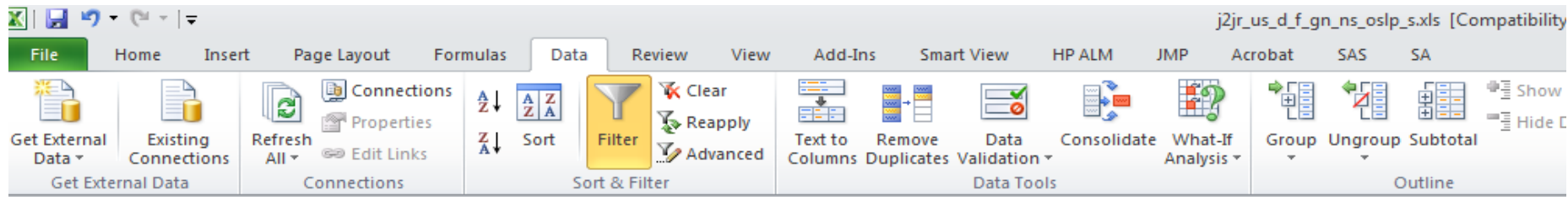
We're using national but state files also available

Grab the 'rates' file

This time, grab the 'industry sector' file

Census Bureau

Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov



	A	B	C	D	E	F	G	H	I	J	K	L
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Job-to-Job Flow Rates, United States

Source: United States Census Bureau

Release: 2014Q4

Data Schema: V4.1b-draft

Tabulation: by industry of firm (Seasonally Adjusted)

Then filter to obtain the industry sector of interest

	periodicity	seasonadj	geo_level	geography	ind_level	industry	ownercode	sex	agegrp	race	ethnicity	education
287	Q	S	N				A00	0	A00	A0	A0	E0
288	Q	S	N				A00	0	A00	A0	A0	E0
289	Q	S	N				A00	0	A00	A0	A0	E0
290	Q	S	N				A00	0	A00	A0	A0	E0
291	Q	S	N				A00	0	A00	A0	A0	E0
292	Q	S	N				A00	0	A00	A0	A0	E0
293	Q	S	N				A00	0	A00	A0	A0	E0
294	Q	S	N				A00	0	A00	A0	A0	E0
295	Q	S	N				A00	0	A00	A0	A0	E0
296	Q	S	N				A00	0	A00	A0	A0	E0
297	Q	S	N				A00	0	A00	A0	A0	E0
298	Q	S	N				A00	0	A00	A0	A0	E0
299	Q	S	N				A00	0	A00	A0	A0	E0
300	Q	S	N				A00	0	A00	A0	A0	E0
301	Q	S	N				A00	0	A00	A0	A0	E0
302	Q	S	N				A00	0	A00	A0	A0	E0
303	Q	S	N				A00	0	A00	A0	A0	E0
304	Q	S	N				A00	0	A00	A0	A0	E0
305	Q	S	N				A00	0	A00	A0	A0	E0
306	Q	S	N				A00	0	A00	A0	A0	E0
307	Q	S	N				A00	0	A00	A0	A0	E0

j2jr_us_d_f_gn_ns_oslp_s.xls

File Home Insert Page Layout Formulas Data Review View Add-Ins Smart View HP ALM JMP Acrobat SAS SA

Paste Cut Copy Format Painter

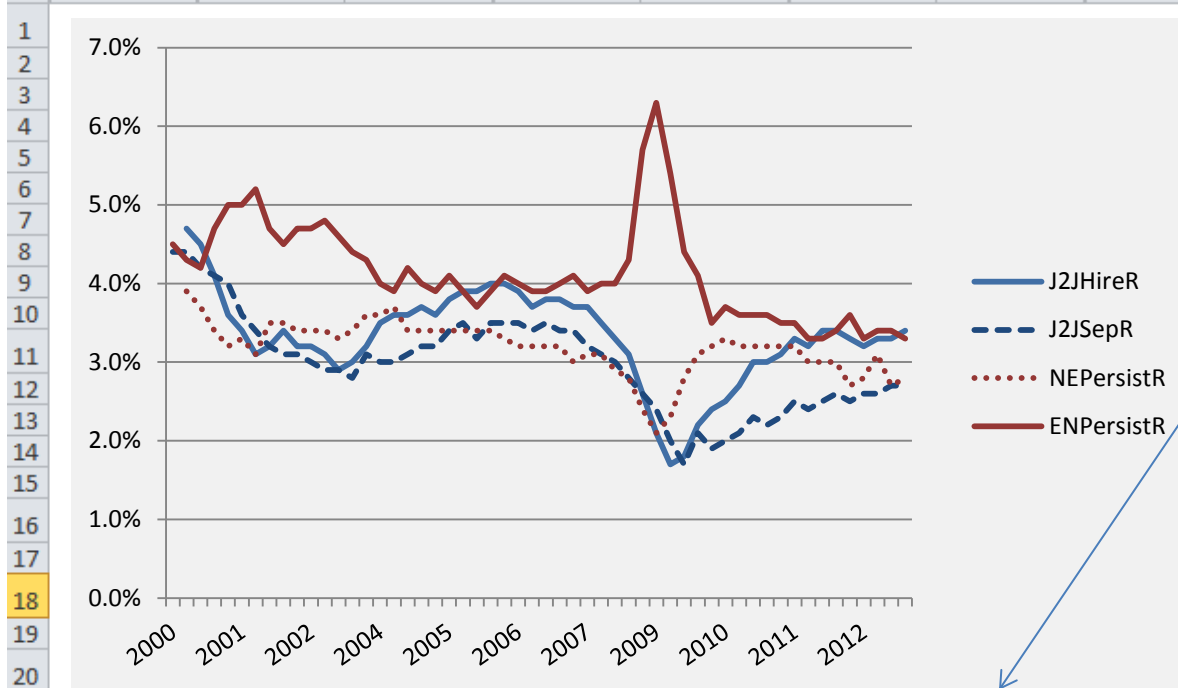
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Wrap Text Merge & Center Alignment

General Number \$ % , .00 .00

Conditional Formatting Format as Table

	F	O	P	Z	AA	AD	AE	AX	AY	AZ	BA	BI
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We are using the same four variables as before

Can make same graph as before, but may not be the most effective way to display the information

	industry	year	quarter	J2JHireR	J2JSepR	NEPersistR	ENPersistR	1 Net employment growth rate from job change (J2JHireR- J2JSepR)	2 Net employment growth from employment flows (NEPersistR- ENPersistR)	3 Net employment growth (sum of 1 and 2)
298	31-33	2000	2	0.047	0.044	0.039	0.045	0.003	-0.004	-0.001
299	31-33	2000	3	0.045	0.042	0.037	0.042	0.003	-0.005	-0.002
300	31-33	2000	4	0.041	0.041	0.034	0.047	0	-0.013	-0.013
301	31-33	2001	1	0.036	0.04	0.032	0.05	-0.004	-0.018	-0.022
302	31-33	2001	2							

At national level
J2JHire/J2JSep cancel
out but not here

j2jr_us_d_f_gn_ns_oslp_s.xls

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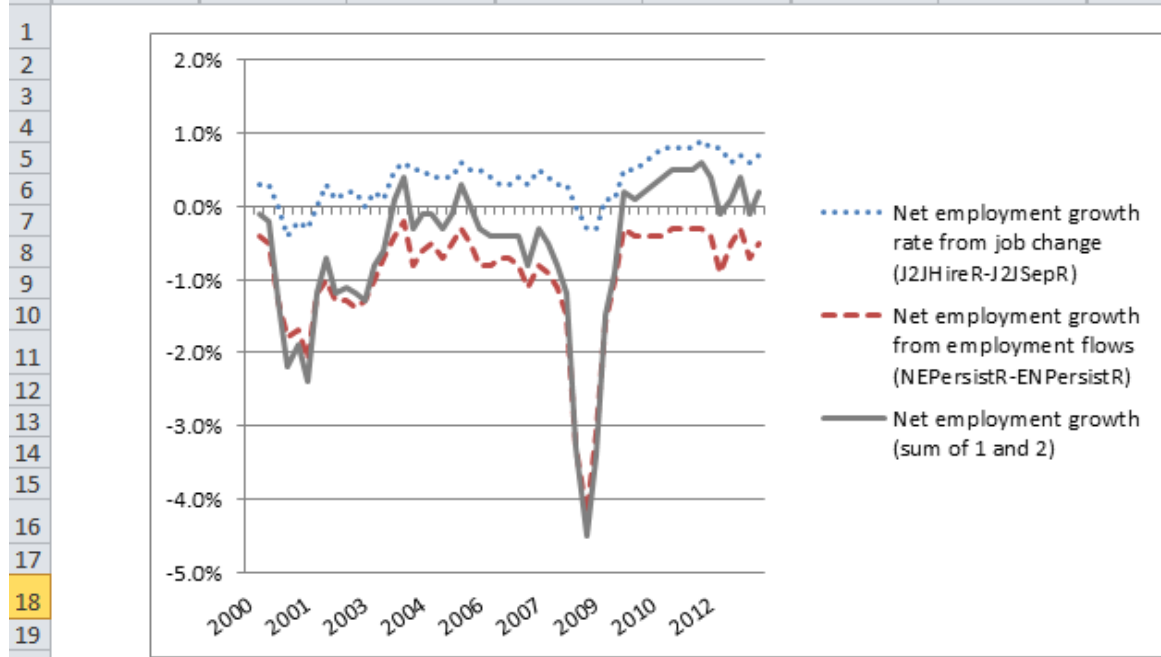
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Conditional Formatting Format as Table

	F	O	P	Z	AA	AD	AE	AX	AY	AZ	BA	BI
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Net employment growth in industry = Net growth from industry switching + net growth from employment flows

	industry	year	quarter	J2JHireR	J2JSepR	NEPersistR	ENPersistR	1 Net employment growth rate from job change (J2JHireR- J2JSepR)	2 Net employment growth from employment flows (NEPersistR- ENPersistR)	3 Net employment growth (sum of 1 and 2)
298	31-33	2000	2	.	0.044	.	0.045			
299	31-33	2000	3	0.047	0.044	0.039	0.043	0.003	-0.004	-0.001
300	31-33	2000	4	0.045	0.042	0.037	0.042	0.003	-0.005	-0.002
301	31-33	2001	1	0.041	0.041	0.034	0.047	0	-0.013	-0.013
302	31-33	2001	2	0.036	0.04	0.032	0.05	-0.004	-0.018	-0.022

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