Using LED Tools for Special Research Projects to Inform Customers

Chi Wong

Economist

NC Department of Commerce
Labor & Economic Analysis Division (LEAD)

Jamie Vaughn

Sr. Analyst for Market Intelligence
NC Department of Commerce
Labor & Economic Analysis Division (LEAD)



What Labor & Economic Analysis Division Does

Data Collection & Production (incl. Unemployment Rates)

Industry Establishments & Jobs

Occupational Employment & Wages

Labor Market
Data
Production

Economic & Policy Analysis

Employment Projections

Star Jobs

LMI Tools & Publications

Economic Development Reports (e.g. County Tier Designations)

Big Data Analysis

Program Evaluation

Common Follow-up System (NCTOWER.com)

Big Data
Analysis &
Research

Publications & Websites

Online & Print Publications

Dashboards (Analytics.NCcommerce.com)

Data Access Tools (D4.Nccommerce.com, NCcareers.org)

Topics for today's session



- Research on NC Interconnected Markets
- Information for Economic & Workforce Developers
- Special Research Topics
- How do we share?

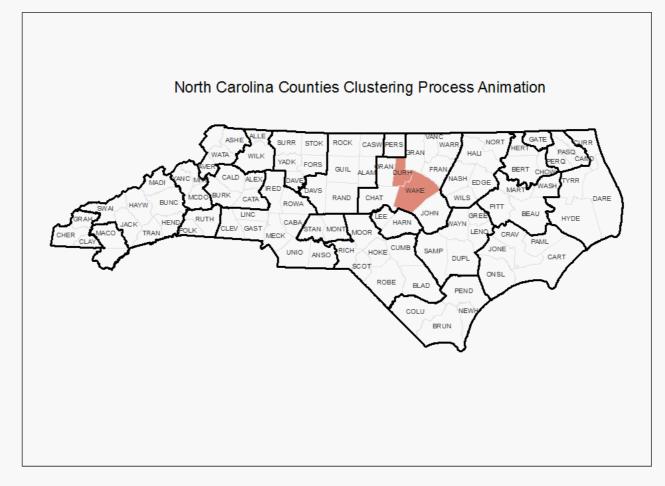
How can we improve projections using commuting data?

Interconnected Labor Market: Background

- What is an interconnected labor market?
 - Methodology

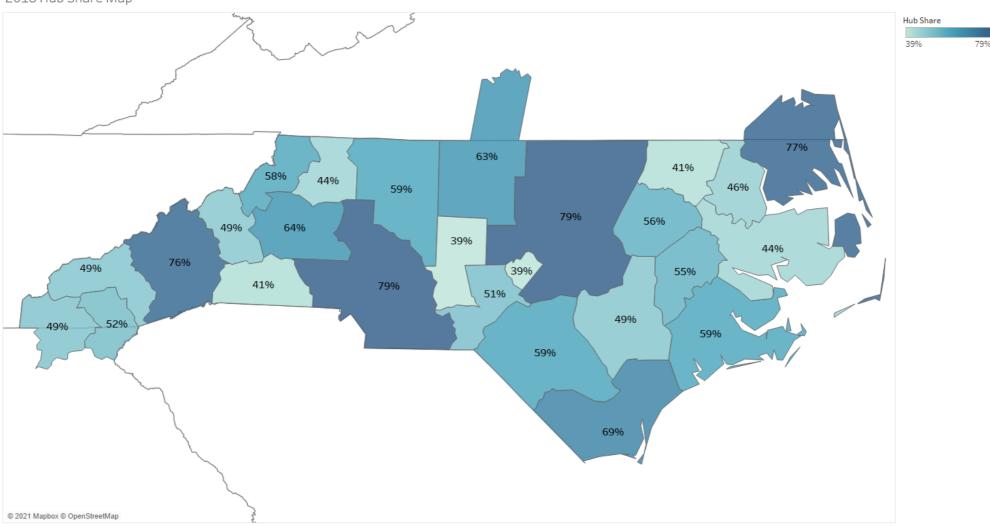
Why study/use interconnected markets?

Algorithm in Action

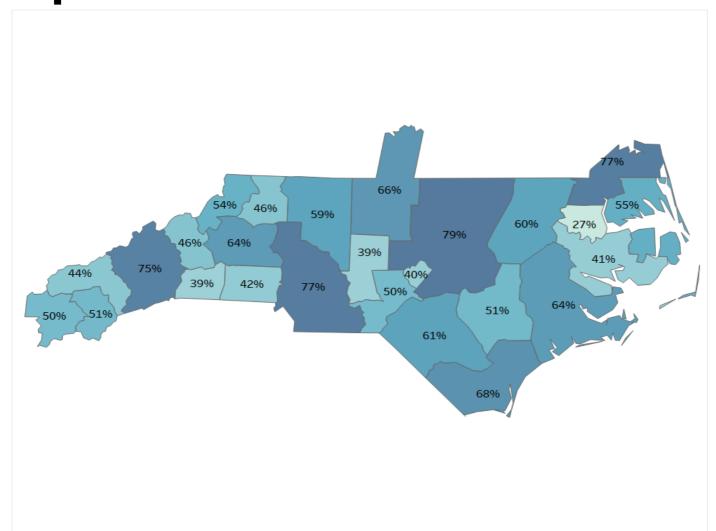


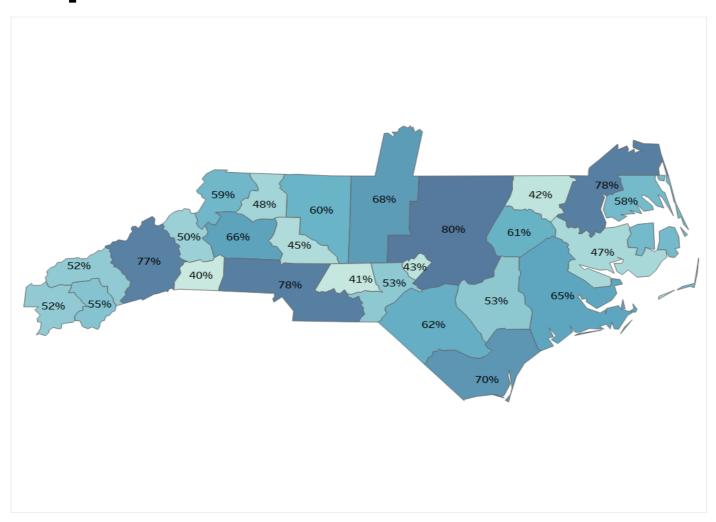
2018 Snapshot (Hub share)

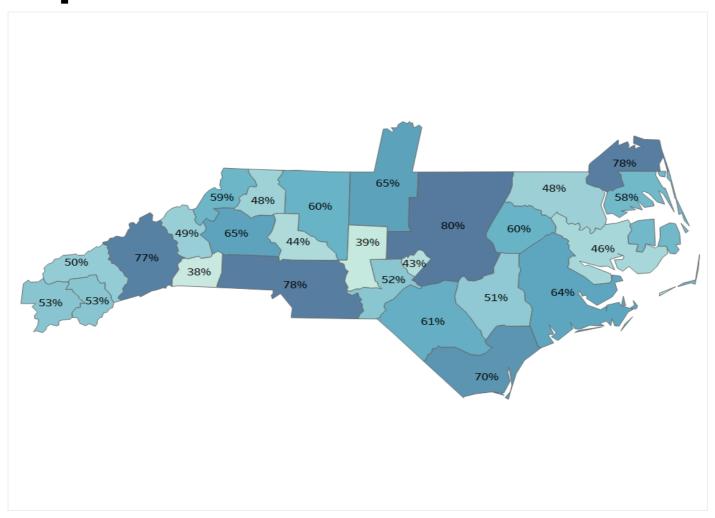


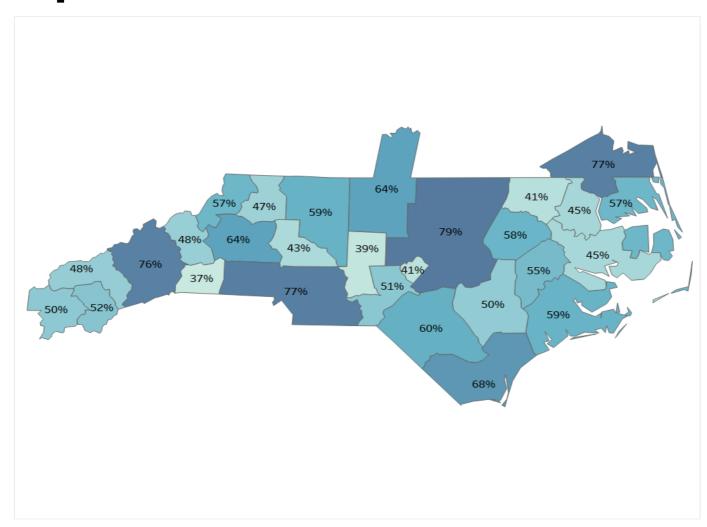


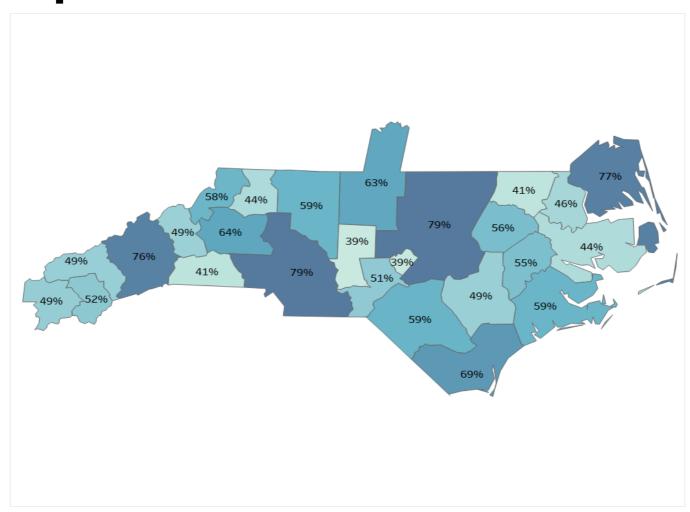
Map based on Longitude (generated) and Latitude (generated). Color shows details about Hub Share. The marks are labeled by Hub Share. Details are shown for Clustyr. The data is filtered on Year Year, which keeps 2018.











Implications of Time Lapse

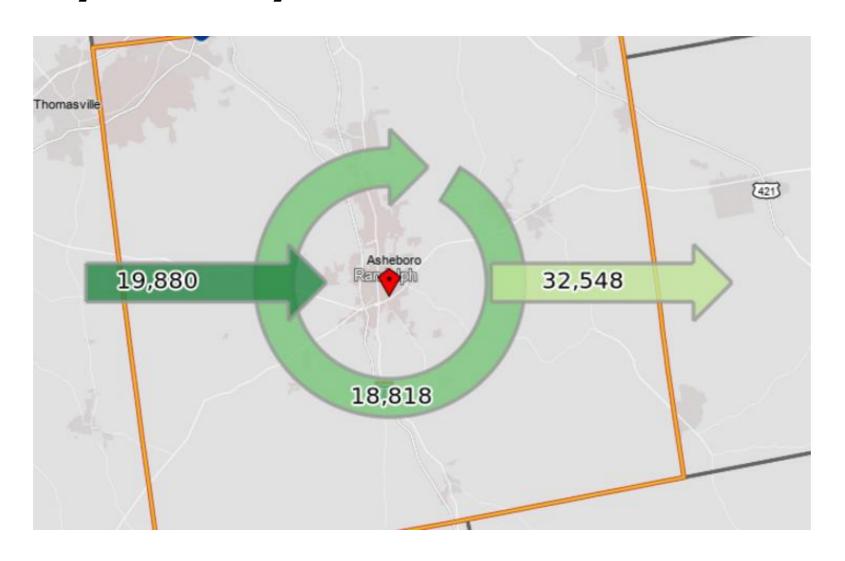
- Interstate commuting
 - Virginia and NC
- Consistent markets
- Inconsistent markets

What questions can you answer to inform economic and workforce development activities?

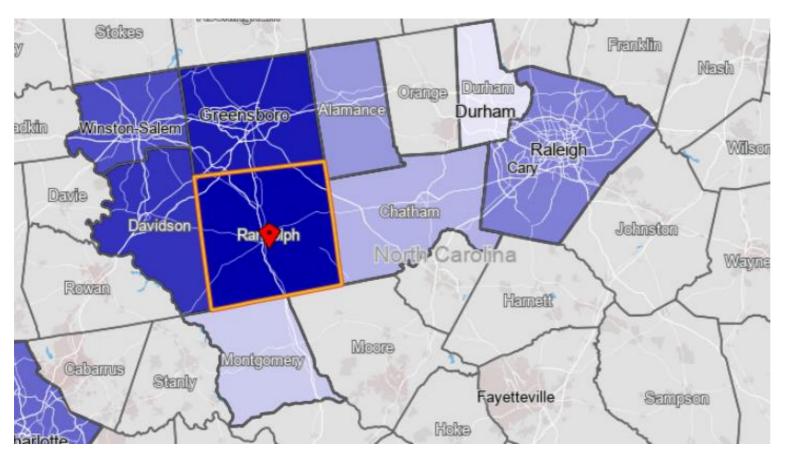
OntheMap



Does my county retain or lose workers?

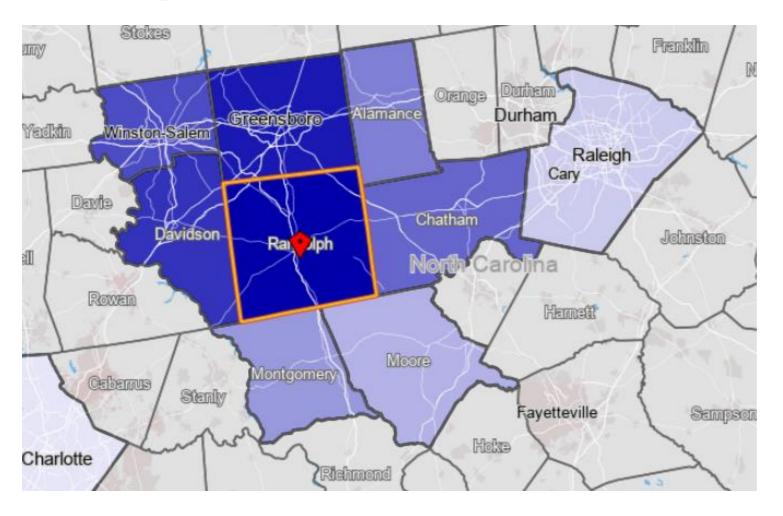


Where do my county's residents work?



Jobs Counts by Counties Where Workers are Employed - Private Primary Jobs 2019				
	Count	Share		
All Counties	51,366	100.0%		
Randolph County, NC	18,818	36.6%		
☐ Guilford County, NC	13,595	26.5%		
☐ Davidson County, NC	2,671	5.2%		
Forsyth County, NC	2,399	4.7%		
■ Mecklenburg County, NC	2,222	4.3%		
■ Wake County, NC	1,901	3.7%		
■ Alamance County, NC	980	1.9%		
Chatham County, NC	711	1.4%		
<u>Montgomery County, NC</u>	555	1.1%		
□ Durham County, NC	484	0.9%		
All Other Locations	7,030	13.7%		

Where do my county's workers live?



Jobs Counts by Counties Where Workers Live - Private Primary Jobs				
	2019			
	Count	Share		
All Counties	38,698	100.0%		
Randolph County, NC	18,818	48.6%		
Guilford County, NC	5,050	13.0%		
Davidson County, NC	3,114	8.0%		
Forsyth County, NC	1,245	3.2%		
Chatham County, NC	870	2.2%		
Alamance County, NC	681	1.8%		
Montgomery County, NC	618	1.6%		
Moore County, NC	584	1.5%		
■ Wake County, NC	573	1.5%		
Mecklenburg County, NC	397	1.0%		
All Other Locations	6,748	17.4%		

J2J Explorer

1. Start Here

Frame your question by selecting from the three dropdowns below; then click one of the blue links on the right to go to your customized results.



2. Then Choose an Analysis



Analysis of Hires Over Time 9

Are hires to jobs in North Carolina coming from nonemployment or another job?

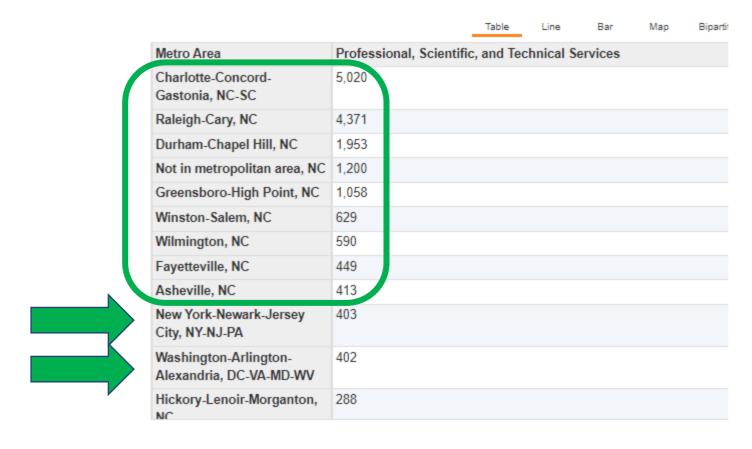
How do earnings for hires to jobs in North Carolina compare to earnings for job stayers?

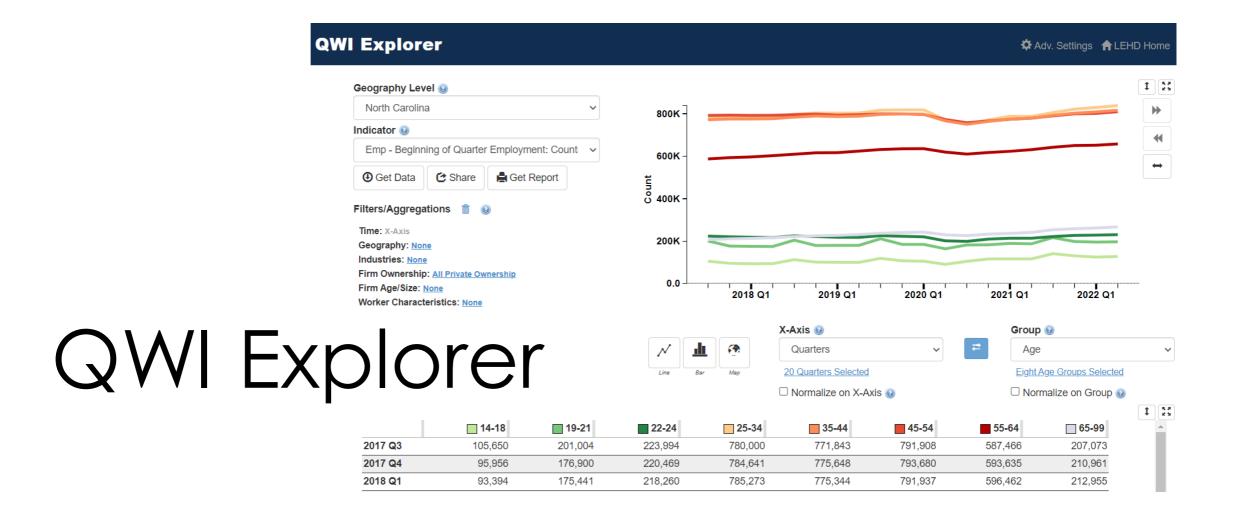
For what jobs are people moving to North Carolina?



Where are people who move to NC and work in Professional, Scientific and Technical Services coming from?

Where are people moving from to work in Professional, Scientific, and Technical Services?





In what industries is the wage gap closing for Black workers?

In what industries is the wage gap closing for Black workers?

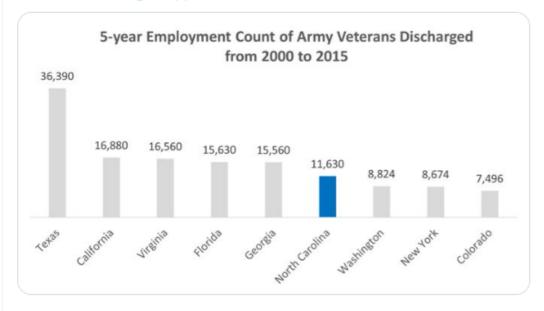
Industry Title	Projected Employment Growth Rate, 2021-2030	Average Wage in 2022 Dollars, 2017-2021	Difference in Avg Black Wage Growth vs. Avg White Wage Growth Since 2006, 2017-2021
Securities, Commodity Contracts, and Other Financial Investments and Related Activities	1.77%	\$3,387	14.2%
Management of Companies and Enterprises	1.05%	\$2,511	5.5%
Publishing Industries (except Internet)	1.20%	\$2,340	22.0%
Chemical Manufacturing	1.01%	\$1,968	12.7%
Professional, Scientific, and Technical Services	1.90%	\$1,899	4.0%
Broadcasting (except Internet)	1.00%	\$1,618	2.6%
Ambulatory Health Care Services	1.51%	\$1,369	22.3%
Hospitals	1.03%	\$1,348	4.8%
Total, All Industries	0.97%	\$1,167	0.8%

How do we share this information?

Social Media Posts



Veterans are critical to NC's labor force. Per @uscensusbureau more than 11,600 @USArmy veterans discharged from 2000 - '15 were employed in NC after 5 years. This is the 6th largest number in the US. #LEHD #militaryappreciationmonth lehd.ces.census.gov/applications/v...

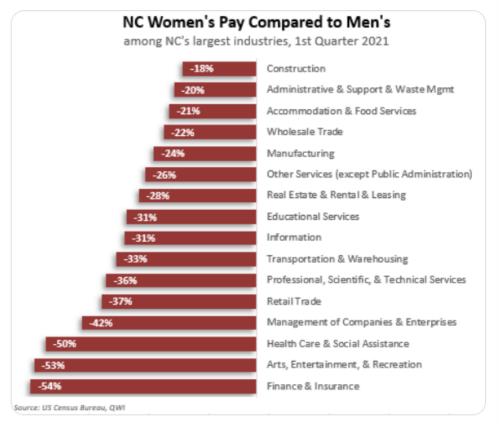


12:02 PM · May 27, 2022



Which major industry in NC had the greatest parity of incomes between men and women acc to US Census's QWI? Would you believe Construction?

Finance and Insurance on the other hand? #WorkToDo #EqualPayDay



1:33 PM · Mar 15, 2022

LEADFeed (Blog) Articles

- Making Progress: An industry analysis of Black employment in North Carolina
- If You Pay, Will They Stay? Using J2J to Investigate Earnings and Separations Rates
- Which Industry Workers Change Jobs the Most and Where do they go? A Review of J2J Explorer Data to Understand Job Mobility in NC Industries
- A review of QWI Data: How Have Women's Opportunities in the Workplace in North Carolina been affected by the COVID Pandemic?
- How has the pandemic affected Black / African American employment and earnings?
- Recent Cross County Commuting Patterns

LMI Tuesdays

- 1st and 3rd Tuesday of each month
- 30 minute Teams Session with ability for audience to ask questions
- No registration required

Use the links below to access the sessions each month:



Scan for the <u>FIRST Tuesday</u> of the month's session or visit: https://bit.ly/2QhL83S



Scan for the <u>THIRD Tuesday</u> of the month's session or visit: https://bit.ly/20K1ZMh