

LMI TUESDAYS!!!!!!

Session 2022-10: The Latest on Occupational Data in North Carolina!

May 17, 2022

Jeff Rosenthal

Manager, Occupational Analysis Team

NC Department of Commerce

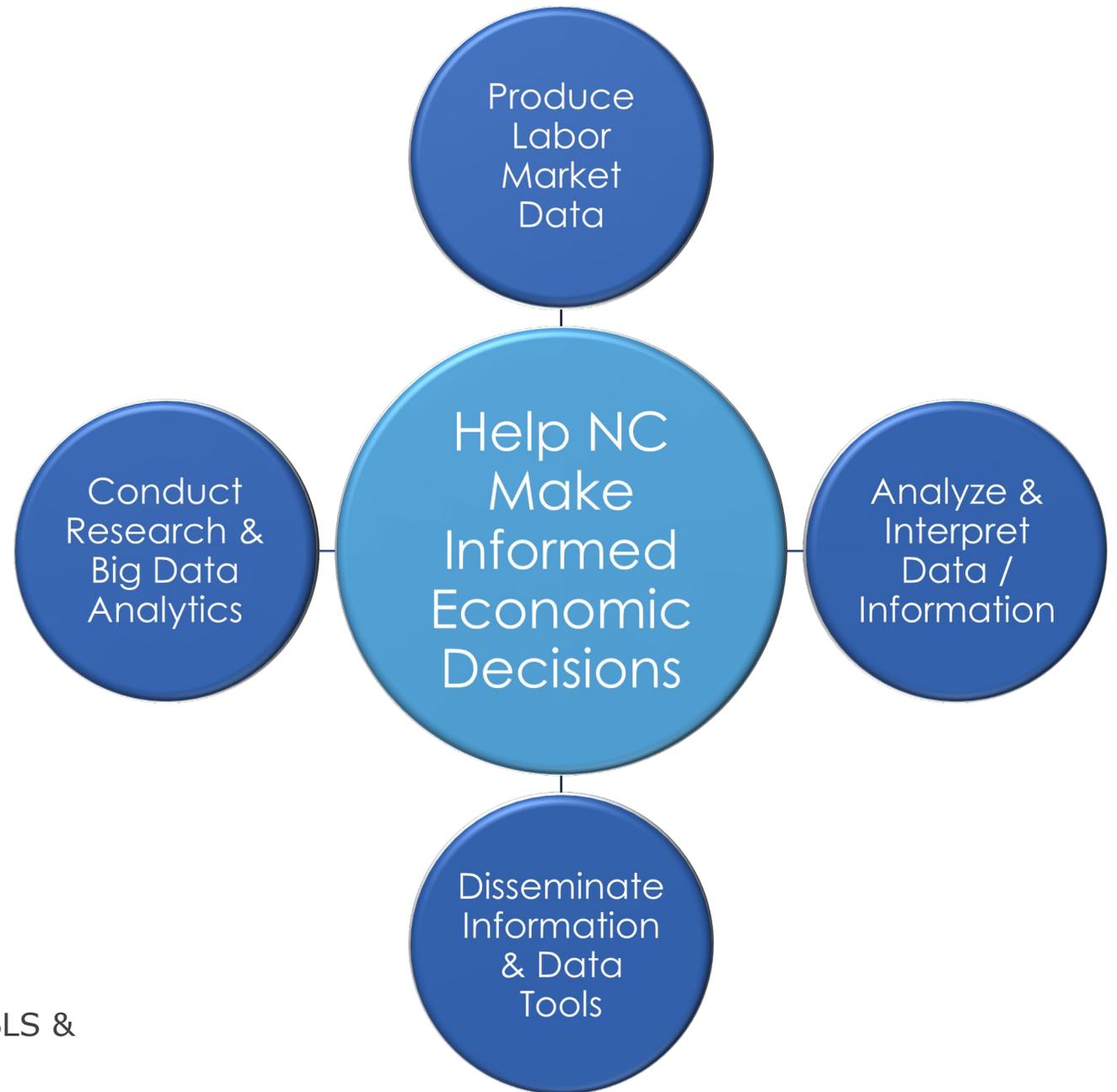
Who is LEAD?

NC's primary source of economic & labor market data, information, & analysis



Funding

Multiple sources, including state \$
Most significantly by US Dept. of Labor (BLS & ETA)



Who is LEAD?

NC's primary source of economic & labor market data, information, & analysis



Funding

Multiple sources, including state \$
Most significantly by US Dept. of Labor (BLS & ETA)

**NC Economic Trends
Blog:**

The LEAD FEED

<https://www.nccommerce.com/news/the-lead-feed>



On Twitter:

 @CareersInNC
@LeadNC

The Latest on Occupational Data in North Carolina

- Refresher on Occupations
- Quick notes on different other sources for occupational data
- Occupational Employment and Wage Statistics (OEWS) program
- General findings from the OEWS for May 2021
- How to get this information for yourself
- Conclusion

Industry

Industry: group of organizations in similar product or service markets

Firm: Company

Establishment: Company at a location

NAICS Codes:



INDUSTRY CODES– via

[https://data.bls.gov/cew/apps/bls_naics/v2/bls_naics_app.htm#tab=search&naics=2017&keyword=%22new%22&searchType=indexes&filter=6 filter&sort=text asc&resultIndex=0](https://data.bls.gov/cew/apps/bls_naics/v2/bls_naics_app.htm#tab=search&naics=2017&keyword=%22new%22&searchType=indexes&filter=6%20filter&sort=text_asc&resultIndex=0)

Industry

The Dew Drop Bar

Ocean's 11
Casino Hotel

Jersey Style Diner

The a Food
Truck!

Industry: group of organizations in similar product or service markets

Firm: Company

Establishment: Company at a location

NAICS Codes:

72: Accommodation & Food Services

722: Food Services & Drinking Places

7225: Restaurants & Other Eating Places

722513: Limited-Service Restaurants

Motel 60

John Doe's Fast Food Place

The Great
British Bake
Shoppe

Fast
Foodery

Hot Food
Now

Quainty's 4-Poster
and Omelette

Fancypants
Steakhouse

Food Services
Provider

U Drive Thru and Pick up
Food

Nameless
Restaurant with
Menus and Servers

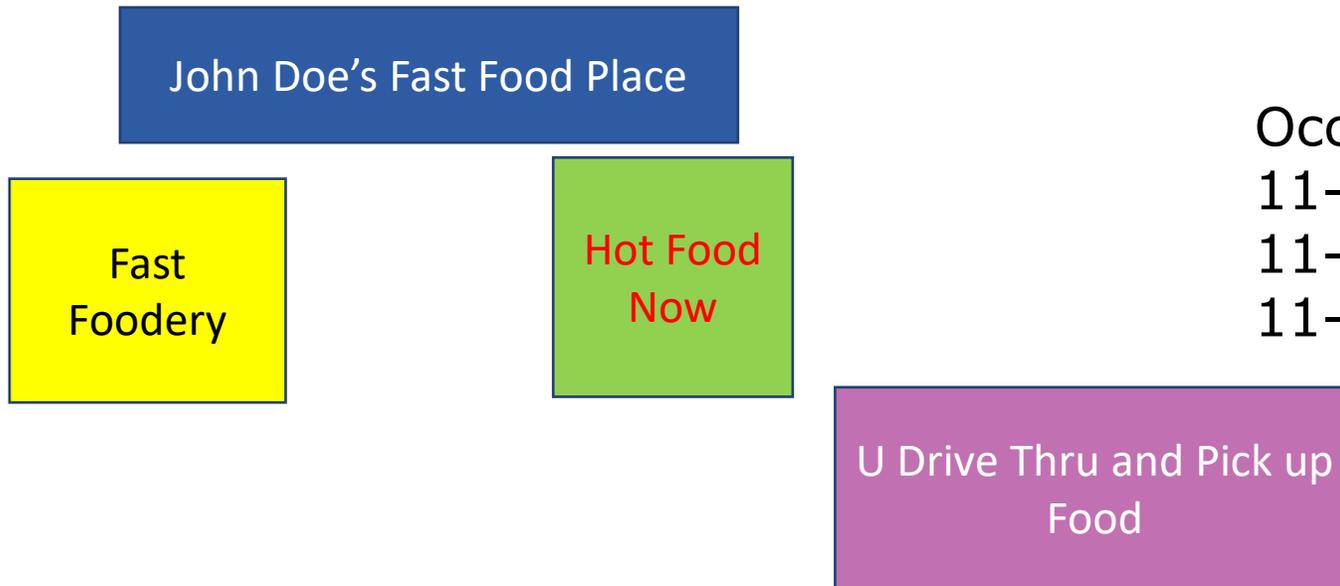
INDUSTRY CODES- via

[https://data.bls.gov/cew/apps/bls_naics/v2/bls_naics_app.htm#tab=search&naics=2017&keyword=%22new%22&searchType=indexes&filter=6 filter&sort=text asc&resultIndex=0](https://data.bls.gov/cew/apps/bls_naics/v2/bls_naics_app.htm#tab=search&naics=2017&keyword=%22new%22&searchType=indexes&filter=6%20filter&sort=text_asc&resultIndex=0)

Occupation

Aggregation of jobs based on similar tasks

Jobs: Cashier, Cook, Manager



Occupations (SOC) Cashier:
41-0000 Sales & Related Occupations
41-2000 Retail Sales Workers
41-2011 Cashier

Occupations (SOC) Cook:
35-0000 Food Prep & Serving Related Occs.
35-2000 Cooks & Food Prep Workers
35-2011 Cooks, Fast Food
(Fry Cook, Crew Person)

Occupations (SOC) Manager:
11-0000 Management Occupations
11-9000 Other Management Occupations
11-9051 Food Service Managers

OCCUPATION CODES– via <https://www.bls.gov/soc/2018/home.htm>

Selected Sources of Occupational Information

What is the occupational structure and substantive information about each occupation?:

- Standard Occupational Classification ([SOC](#))
- Occupational Information Network ([O*NET](#))

How many people are working in occupations in my county, and what are their demographics?

- American Community Survey ([ACS](#))

How many jobs are in an occupation in my area, and how much do these jobs pay?

- Occupational Employment & Wage Statistics ([OEWS](#))

Premier source of Occupational Information in North Carolina: [OEWS](#) (seen in [D4](#))

Questions to learn about the OEWS program:

1. Who?
2. What?
3. Where?
4. When?
5. Why?
6. How?

OEWS Who? (carries out the work)

Federal [Department of Labor's Bureau of Labor Statistics](#) produces this data at the [national level](#) with the help of state partners collecting data for their particular states.

North Carolina's state partner for this program is the NC Department of Commerce, and it is carried out through the hard dedicated work of those in the Occupational Analysis Team in LEAD.

OEWS Who? (are providing information)

We take a sample of organizations (chosen by the national office)

- From our Quarterly Census of Employment & Wages
 - Therefore, UI-covered employment
- Approximately 6,700 organizations across the industry structure across all regions in North Carolina

OEWS What?

The information we collect (and compile and provide) includes:

- Number of workers with particular job titles
- Description of tasks on the jobs
- Wage rate of these workers

Why the description of tasks?

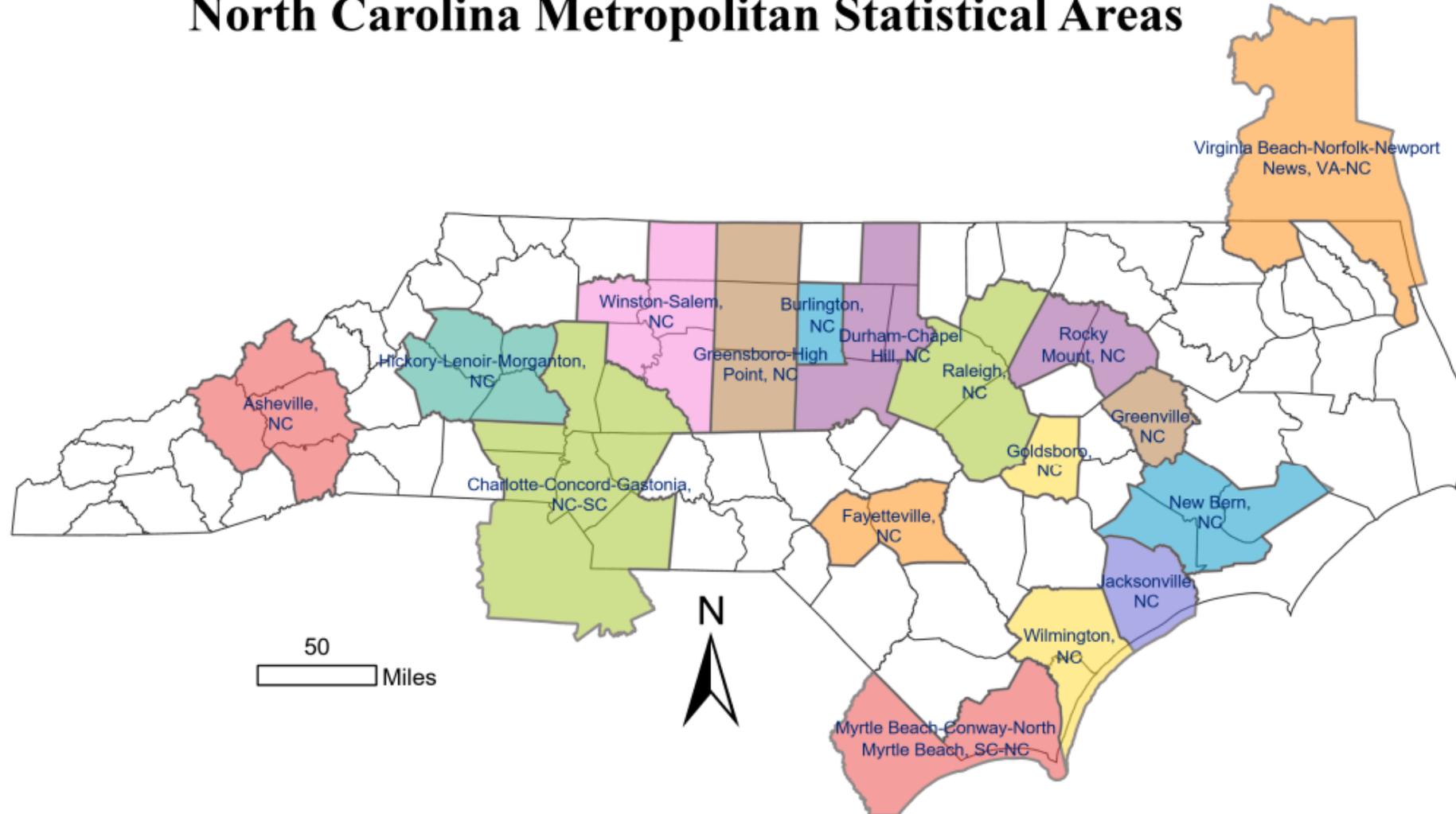
- We need to code these occupations.

OEWS Where?

National level, but also State, Metropolitan Statistical Area, and Balance of State regions

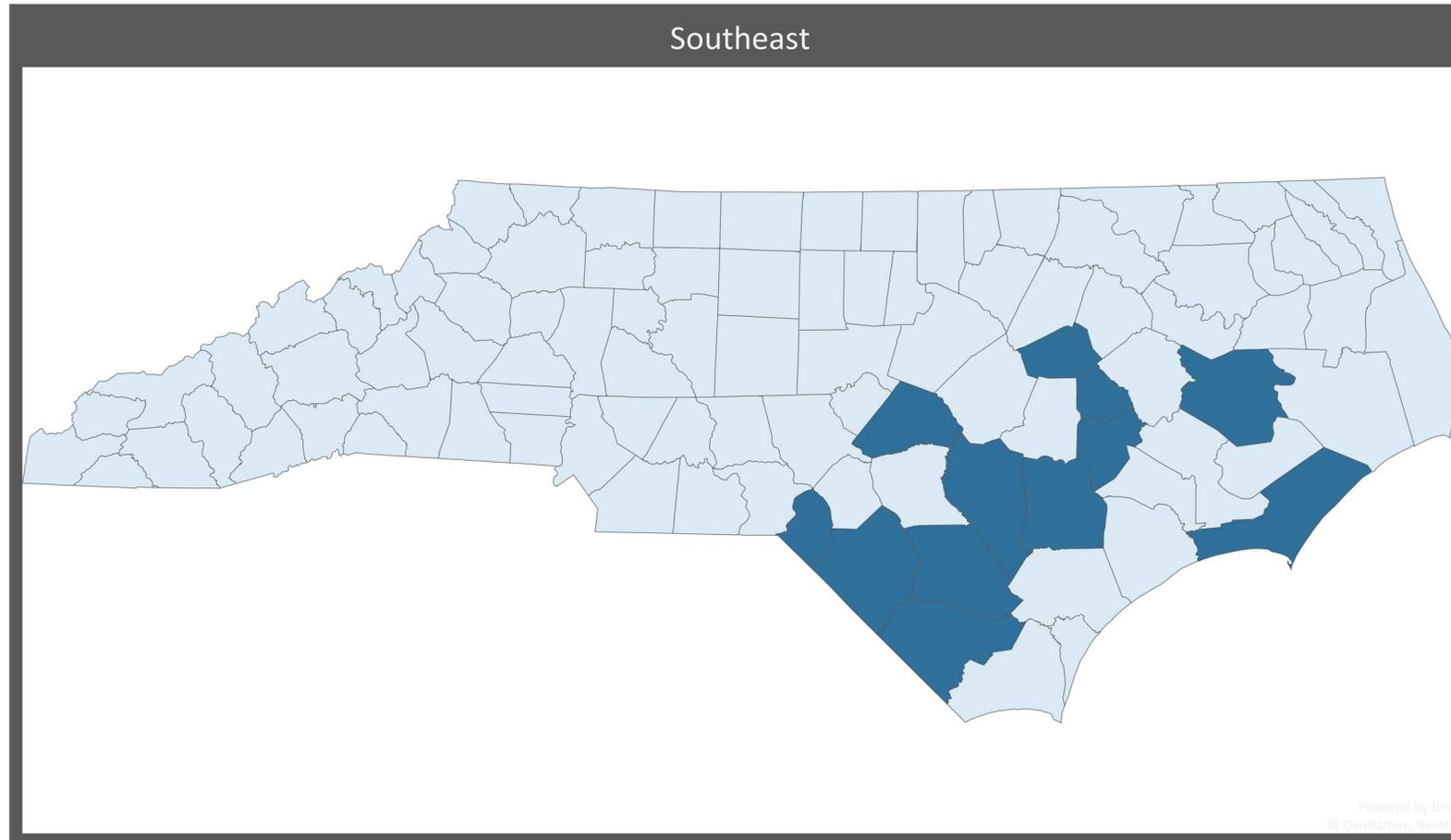
OEWS Where? Metropolitan Statistical Areas

North Carolina Metropolitan Statistical Areas



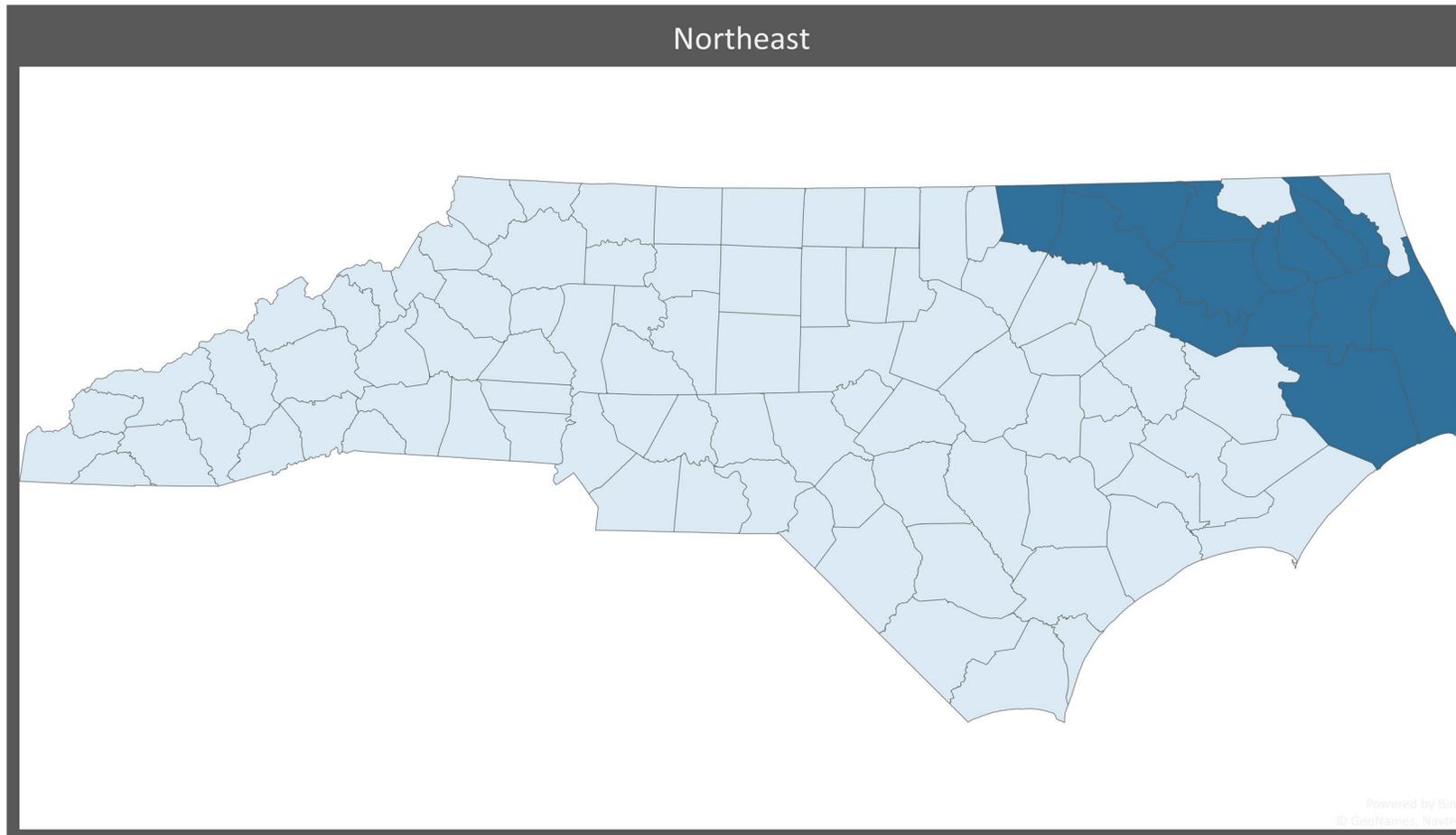
OEWS Where? Balance of State areas

Southeast Coastal North Carolina nonmetropolitan area



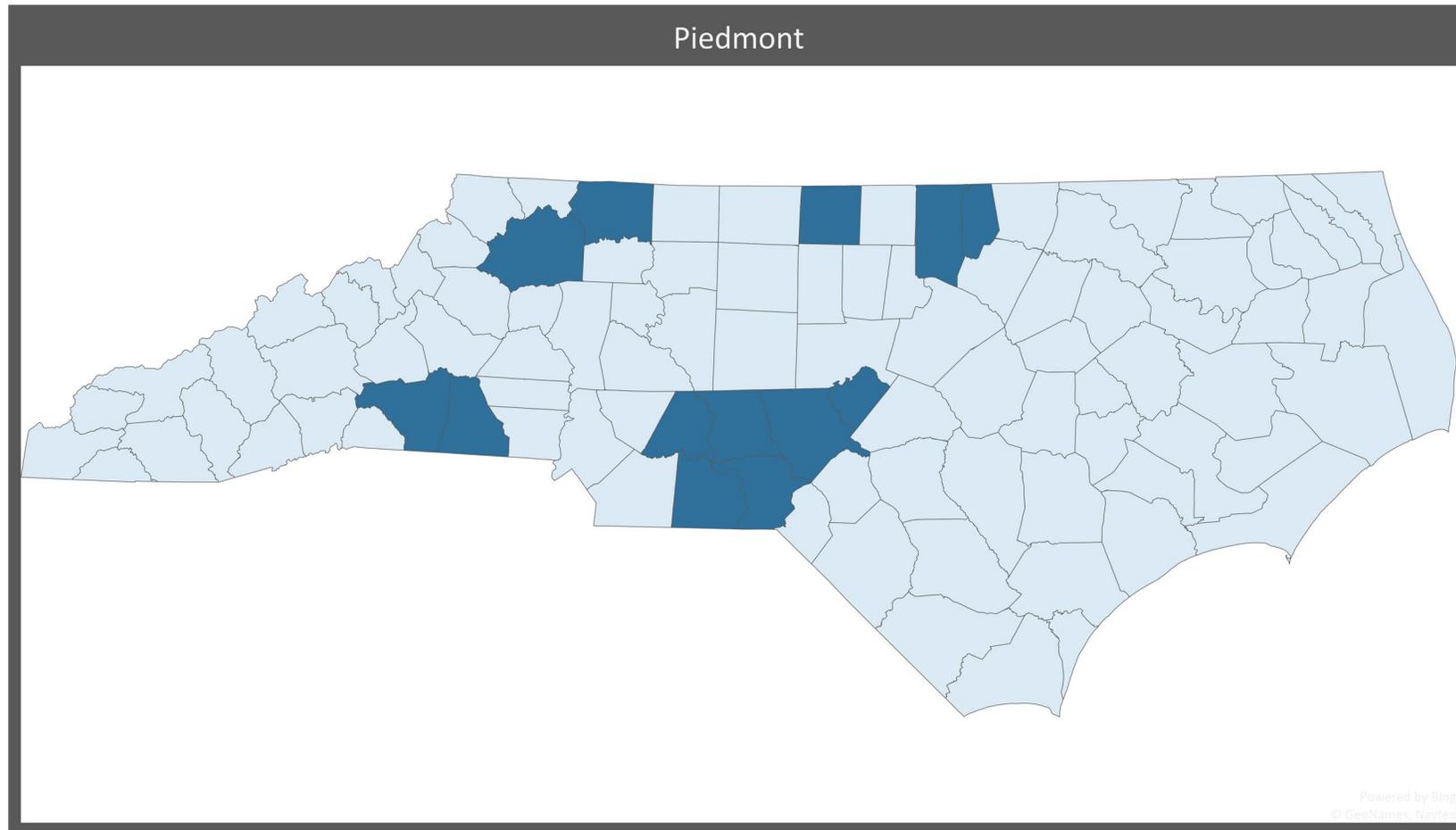
OEWS Where? Balance of State areas

Northeast Coastal North Carolina nonmetropolitan area



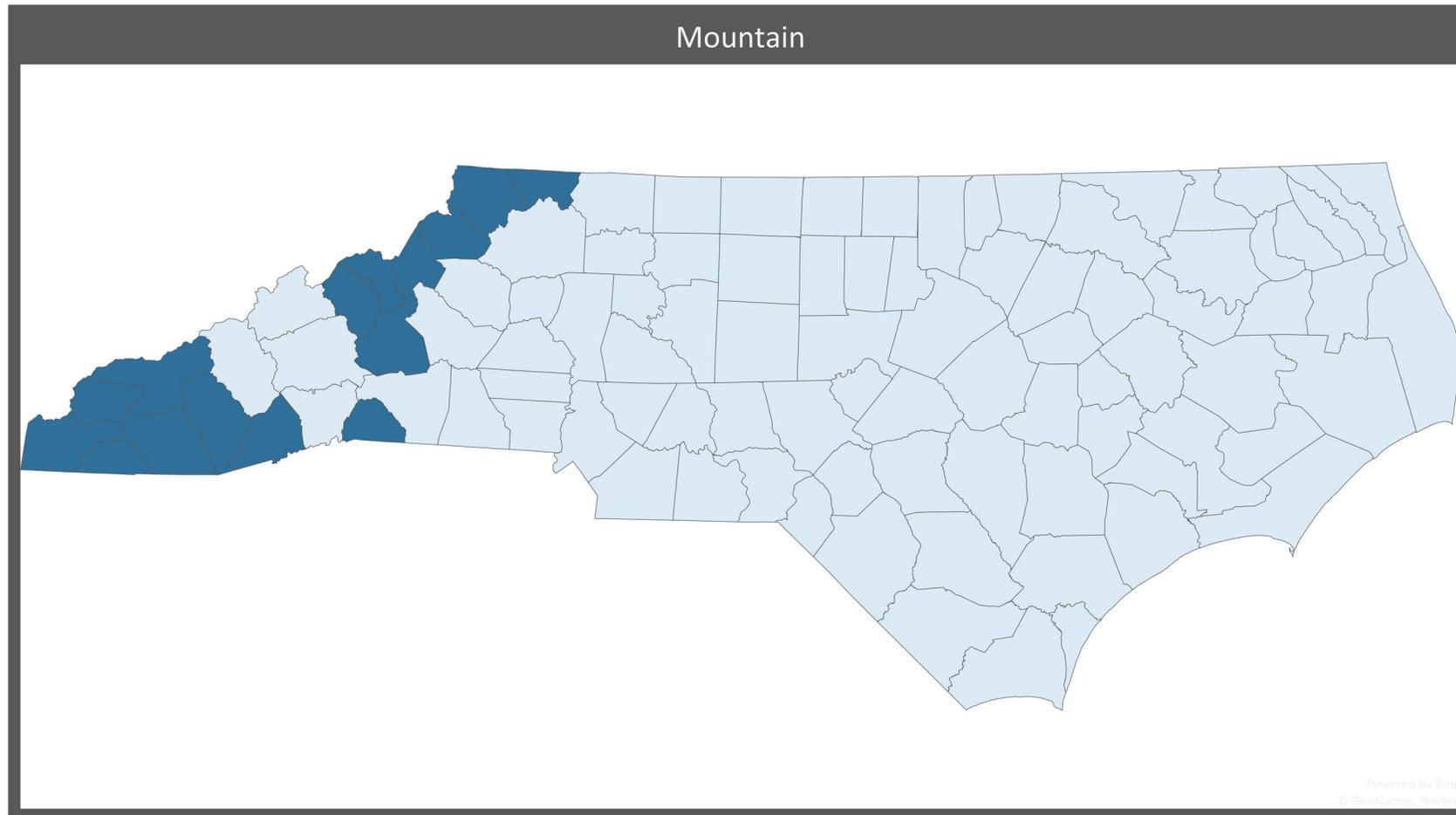
OEWS Where? Balance of State areas

Piedmont North Carolina nonmetropolitan area



OEWS Where? Balance of State areas

Mountain North Carolina nonmetropolitan area



OEWS Why?

- Provides comprehensive information on occupations at multiple levels directly for public
- Feeds into projections through micro-matrix
- Projections can provide information about future occupational growth and needs (remember **WTP!**)

OEWS How?

Collect 2 panels of data each year (November & May), and spend 6 months collecting, refining, coding, and processing the data.

What you see with the May 2021 estimates includes 6 panels including:

- May 2021
- November 2020
- May 2020
- November 2019
- May 2019
- November 2018

OEWS Bonus What? (What did we find?)

Employment in North Carolina (May 2021):

- The largest occupational family in North Carolina is Office and Administrative Support (SOC 43-0000) at 540,650.
- The smallest is Farming, Fishing, and Forestry (SOC 45-0000) at 7,260 (Legal (SOC 23-0000) second smallest at 28,070)
- The occupations with the most employment in North Carolina are:
 - Cashiers (125,300)
 - Retail Salespersons (116,730)
 - Registered Nurses (104,810)

OEWS Bonus What? (What did we find?)

Employment in North Carolina (May 2021) seen on BLS website (to get Location Quotient (LQ)):

- Specialized occupations (Location Quotient high):
 - Textile Bleaching and Dyeing Machine Operators and Tenders (7.38)
 - Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders (6.74)
 - Textile Knitting and Weaving Machine Setters, Operators, and Tenders (6.26)

OEWS Bonus What? (What did we find?)

Wages in North Carolina (May 2021):

- Annual median wage across all occupations is \$38,370.
- Annual mean wage across all occupations is \$53,100.
- Management (soc 11-0000) have the highest annual median wage (\$101,870) while Food Preparation & Serving (soc 35-0000) have the lowest (\$22,860).

OEWS Bonus What? (What did we find?)

Wages in North Carolina (May 2021):

- The highest median annual wage with data is: Ophthalmologists, Exc. Pediatric at \$199,310.
 - Note: there are some occupations with missing data whose wages are likely higher (as seen by mean wage):
- The highest mean annual wage with data is: Radiologists at \$364,470.
- The lowest median annual wage with data is: Desktop Publishers at \$17,210.
- The lowest mean annual wage with data is: Cooks, Fast Food at \$21,340.

OEWS Bonus Where?: D4

Select Geography:

[Reset All Geographies](#)

[Select All Geographies](#)

North Carolina

Balance of State

Metropolitan Statistical Area (2013 Def)

Occupational Employment and Wages in North Carolina (OEWS) ?

Occupation:

- 00-0000 - Total All occupations
- 11-0000 - Management Occupations
- 13-0000 - Business and Financial Operations Occupations
- 15-0000 - Computer and Mathematical Occupations
- 17-0000 - Architecture and Engineering Occupations
- 19-0000 - Life, Physical, and Social Science Occupations
- 21-0000 - Community and Social Services Occupations
- 23-0000 - Legal Occupations
- 25-0000 - Education, Training, and Library Occupations

Industry:

- 000000-Cross-industry, private, federal, state, and local government
- 11 -Agriculture, Forestry, Fishing & Hunting
- 113 -Forestry and Logging
- 1133 -Logging
- 115 -Agriculture & Forestry Support Activity
- 1151 -Support Activities for Crop Production
- 1152 -Support Activities for Animal Production
- 21 -Mining

Data:

- Employment
- Employment Relative Standard Error
- Response Rate(%)
- Hourly wage; mean
- Annual wage; mean
- Wage Relative Standard Error
- Hourly wage; 10th percentile
- Hourly wage; 25th percentile
- Hourly wage; median



Additional information regarding the OEWS program including data for the Nation and other states can be accessed on the Bureau of Labor Statistics website at <https://www.bls.gov/oes/home.htm>

[OEWS industry hierarchy](#)

[OEWS occupation hierarchy](#)

If you don't know what your SOC code is:

<https://www.onetonline.org/>

https://www.onetonline.org/

O*NET OnLine

Occupation keyword search

electrician Go

Help Find Occupations Advanced Searches O*NET Data Crosswalks Share Sites

O*NET OnLine features

More career sites & resources

Introduction

Occupation Keyword Search

"I want to be a..."

Start the career you've dreamed about, or find one you never imagined. Discover your interests with the [O*NET Interest Profiler](#) and find more

OEWS Extra Bonus What? (What can we find?)

Employment and Wages by Industry in North Carolina:

- We can see variation by occupation and industry!
- Customer Service Representatives (SOC 43-4051) in NC:

Industry	NAICS	Employment	Median Annual Wage
All Industries	0	85,770	\$36,360
Retail Trade	44-45	20,570	\$28,060
Animal Slaughtering and Processing	3116	20	\$73,320
Computers and Peripheral Equipment	3341	130	\$61,870
Spectator Sports	7112	40	\$19,110

OEWS Extra Bonus What? (What can we find?)

Employment and Wages across North Carolina:

- We can also see variation by region
- Registered Nurses (SOC 29-1141) (all industries) across NC:

Region	Employment	Median Annual Wage
North Carolina	104,810	\$72,220
Charlotte-Concord-Gastonia, NC-SC MSA	24,630	\$75,510
Virginia Beach-Norfolk-Newport News VA-NC MSA	14,330	\$77,030
Fayetteville, NC MSA	3,010	\$77,000
New Bern, NC MSA	950	\$60,530

Conclusion

1. There are different sources for occupational information depending on what you need.
2. The Occupational Employment and Wage Statistics provides perhaps the best comprehensive picture of occupational employment and wages across the country, state, and regional geographies.
3. You can get this data from our user-friendly [D4](#) and the [BLS national](#) website.
4. If you have any questions- please feel free to contact us!

Questions?



NC DEPARTMENT
of COMMERCE
LABOR & ECONOMIC
ANALYSIS

Jeff Rosenthal

jeff.rosenthal@commerce.nc.gov



Follow us on Twitter...

@LeadNC



@CareersInNC

Thank You!



NC DEPARTMENT
of COMMERCE
LABOR & ECONOMIC
ANALYSIS

Jeff Rosenthal

jeff.rosenthal@commerce.nc.gov



Follow us on Twitter...

@LeadNC



@CareersInNC