

## Highlights of the Geocoding Pilot Project Cuyahoga County and the City of Cleveland First Quarter 2002

The Ohio Bureau of Labor Market Information, in cooperation with the U.S. Bureau of Labor Statistics (BLS), conducted a pilot project to geocode covered employment and wage data for the City of Cleveland and Cuyahoga County. These areas were chosen because the City of Cleveland geographically lies entirely in Cuyahoga County. Data from the Covered Employment and Wages (CEW) program was used for this project. Overall, approximately 38,000 establishment records with almost 764,000 employees in Cuyahoga County were processed for geocoding. A geocodable record contains a physical location address that can be assigned a longitude, latitude, and place code. In all, eighty-seven percent of establishments, with ninety-seven percent of employment, were able to be geocoded at the sub-county level.

As required by BLS, a table was published presenting first quarter 2002 employment and wage data for establishments identified as being in the City of Cleveland (place code = 16000). The geocoded data were further evaluated and maps were produced to show private ownership employment levels for each ZIP code in the city and county. It should be noted that the ZIP codes plotted on the City of Cleveland maps were those with employment assigned the place code 16000 by the geocoding software. Also, due to mapping software limitations, some ZIP codes were combined.

Three industrial sectors were selected for mapping at the ZIP code level: Manufacturing; Retail Trade; and Professional and Technical Services. The number of private sector establishments and average employment for both Cuyahoga County and the City of Cleveland are presented in the table below.

<b>Covered Employment and Wages</b>				
<b>First Quarter 2002</b>				
<b>Industry Sector</b>	<b>Cuyahoga County</b>		<b>City of Cleveland</b>	
	<b>Establishments</b>	<b>Avg. Emp.</b>	<b>Establishments</b>	<b>Avg. Emp.</b>
<b>Total Private Sector</b>	<b>37,283</b>	<b>659,891</b>	<b>9,273</b>	<b>230,658</b>
Manufacturing	2,847	98,058	1,138	31,964
Retail Trade	5,006	77,261	1,247	13,458
Professional and Technical Services	4,659	46,240	1,162	21,367

Manufacturing was chosen due to Cleveland's historical reputation in the industry. The Manufacturing Sector comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. For the first quarter of 2002, the City of Cleveland had 1,138 Manufacturing establishments with an average monthly employment of 31,964. This represents 13.9% of all privately owned City employment. Fifteen percent of Cuyahoga County's employment is engaged in manufacturing, with 32.6% of it being located within the City of Cleveland.

The Retail Trade and the Professional and Technical Services Sectors were selected based upon the current economy. The Retail Trade Sector comprises establishments engaged in

retailing merchandise, generally without transformation, and rendering services incidental to the sale of merchandise. For the City of Cleveland, 1,247 Retail Trade establishments with an average monthly employment of 13,458 were geocoded. That accounts for 5.8% of the City's employment. Cuyahoga County employment is 11.7% Retail Trade, with 17.4% of it located within the City.

The Professional and Technical Services Sector comprises establishments that specialize in performing professional, scientific, and technical activities for others. These activities require a high degree of expertise and training. The establishments in this sector specialize according to expertise and provide these services to clients in a variety of industries. The City of Cleveland has 1,162 establishments engaged in Professional and Technical Services, with an average monthly employment of 21,367. While 9.3% of City employment is in this Sector, only 7% of Cuyahoga County employment is in this industry, with 46.2% of it within the City.

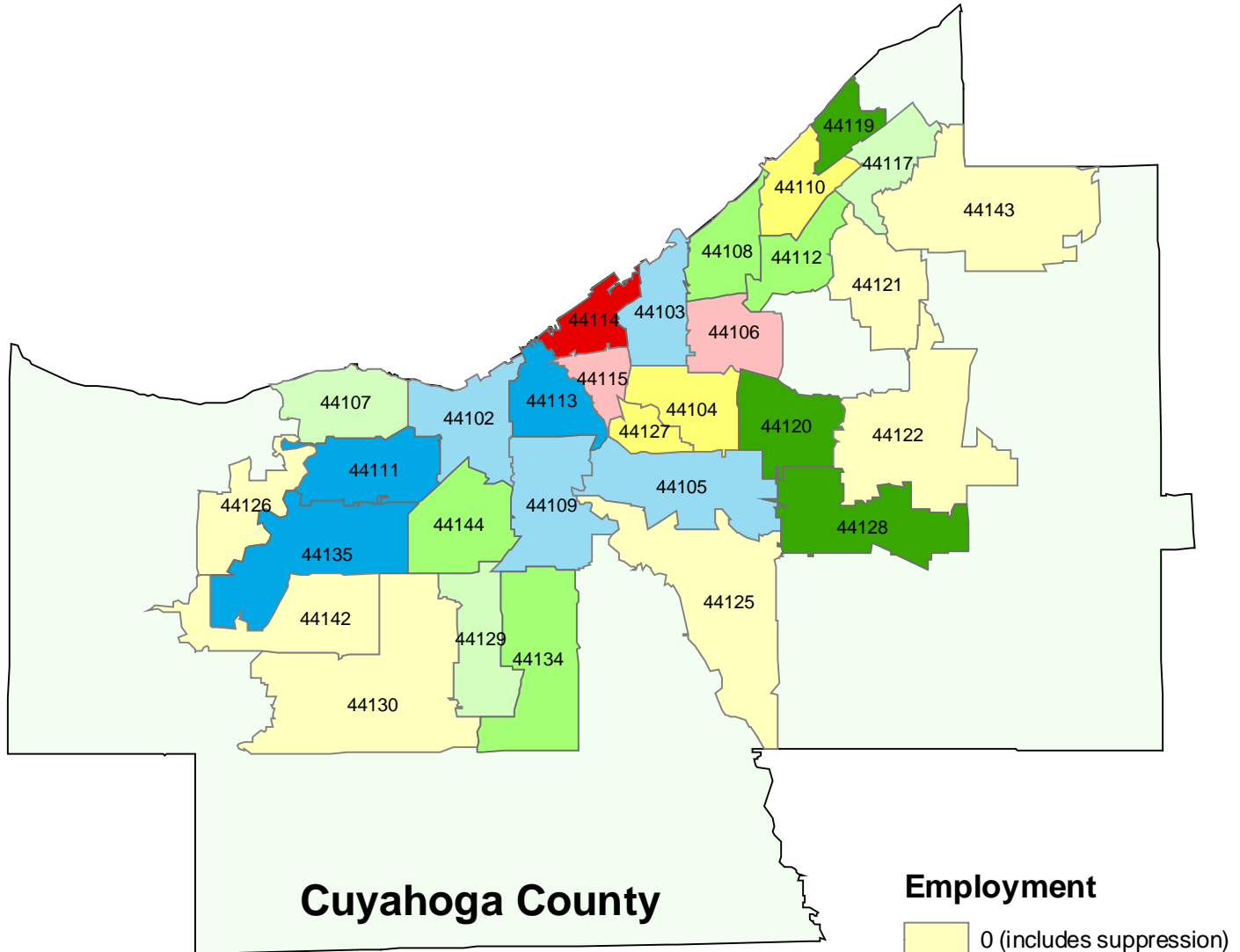
Ohio Department of Job and Family Services  
Office of Research, Assessment, and Accountability  
Bureau of Labor Market Information  
Columbus 43266 08/03

**City of Cleveland Geocoded Data on  
Establishments, Average Employment and Total Wages Paid by Industrial Sector  
as Covered under the Ohio and Federal Unemployment Compensation Laws  
First Quarter 2002 (a)**

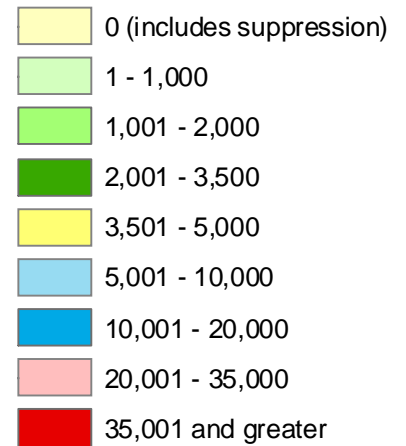
Industrial Sector	Number of Establishments	Average Monthly Employment	Total Wages (in Thousands of Dollars)
<b>Total covered under Ohio UC Law (b)</b>	<b>9,365</b>	<b>279,396</b>	<b>\$2,958,645</b>
<b>Private Sector</b>	<b>9,273</b>	<b>230,658</b>	<b>2,441,135</b>
Agriculture, forestry, fishing and hunting	4	21	94
Mining	7	231	3,295
Utilities	14	1,042	15,761
Construction	511	6,198	73,192
Manufacturing	1,138	31,964	333,537
Wholesale trade	678	12,229	159,430
Retail trade	1,247	13,458	73,763
Transportation and warehousing	243	4,116	34,241
Information	163	7,151	99,972
Finance and insurance	500	23,046	420,040
Real estate and rental and leasing	311	2,696	20,157
Professional and technical services	1,162	21,367	312,719
Management of companies and enterprises	53	6,418	93,517
Administrative and waste services	446	15,624	99,983
Educational services	73	9,960	92,572
Health care and social assistance	768	46,598	445,038
Arts, entertainment, and recreation	108	5,150	56,995
Accommodation and food services	898	14,112	47,337
Other services, except public administration	949	9,276	59,492
<b>State &amp; Local Government</b>	<b>92</b>	<b>48,738</b>	<b>517,510</b>
State Government	21	3,940	46,608
Local Government	71	44,798	470,902
<b>Federal Government (c)</b>	<b>18</b>	<b>8,213</b>	<b>103,766</b>

(a) The First Quarter 2002 Covered Employment and Wage data for the City of Cleveland presented above were developed as part of a special project conducted in cooperation with the U.S. Bureau of Labor Statistics. For this project, approximately 38,000 establishment records covering almost 764,000 employees in Cuyahoga County were processed for Geocoding using Geostan software by Sagent Technologies. A geocodable record contains a physical location address that can be assigned a longitude, latitude and place code. In all, eighty-seven percent of establishments, covering ninety-seven percent of employment, were able to be geocoded at the sub-county level. The information presented above were those records identified as having the place code for the City of Cleveland (16000) and are based upon employers' reports for first quarter 2002 received in Bureau of Labor Market Information through January 1, 2003. (b) Summed totals and subtotals may not equal the sum of industrial divisions because of the exclusion of those industries with fewer than three employers or because of rounding. Includes the Private Sector and State Government entities, but excludes Federal Government agencies. (c) Includes only Federal Government agencies.

# Cleveland City Private Covered Employment by Zip Code, 1st Quarter, 2002

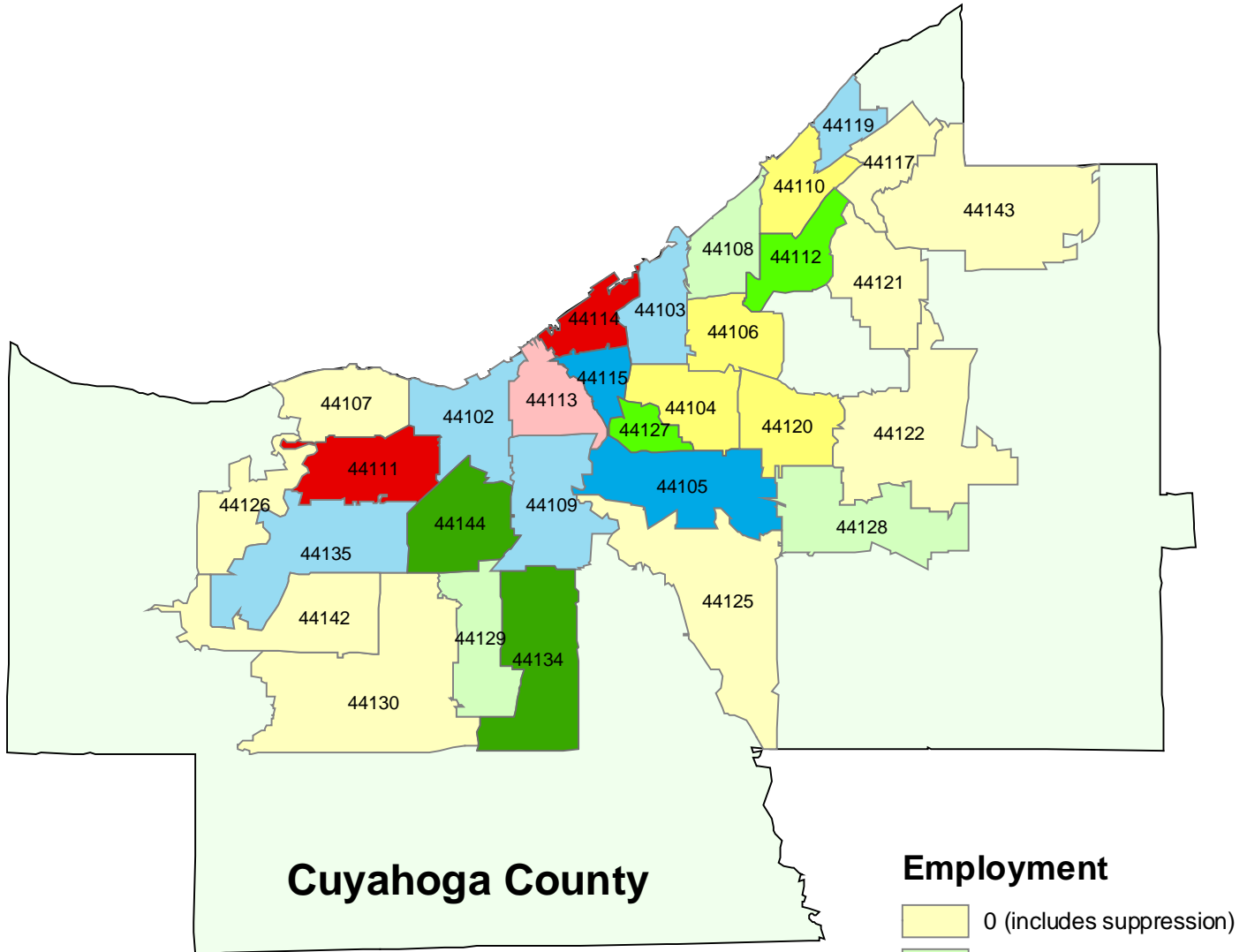


## Employment

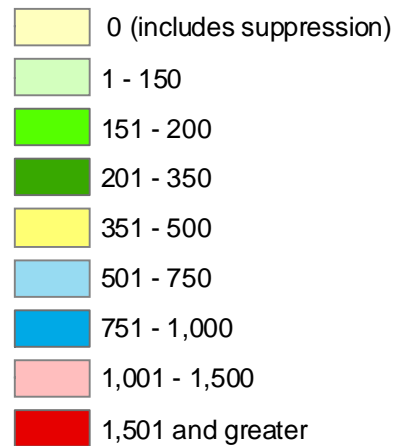




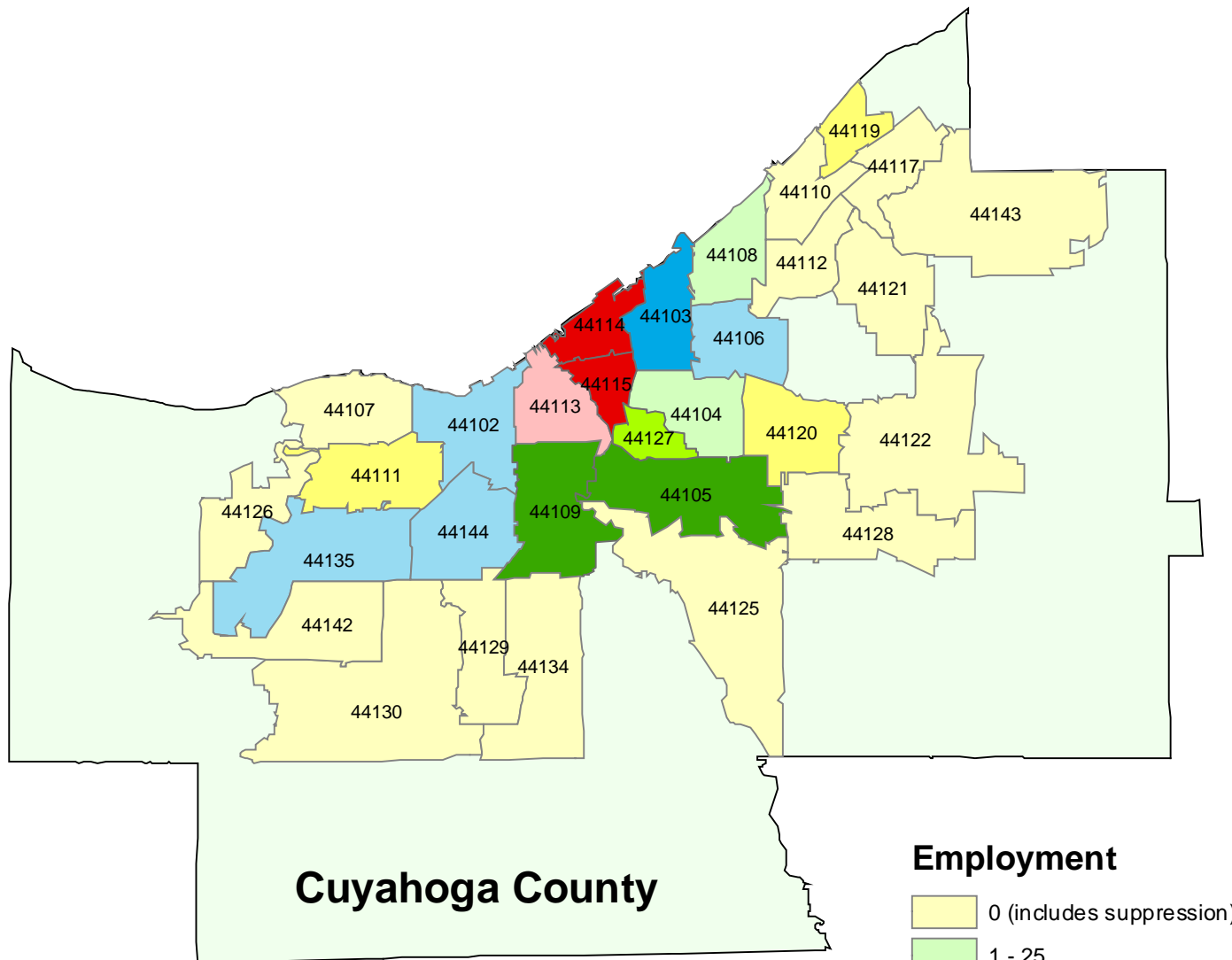
# Cleveland City NAICS Sector 44-45 Retail Trade Employment by Zip Code, 1st Quarter, 2002



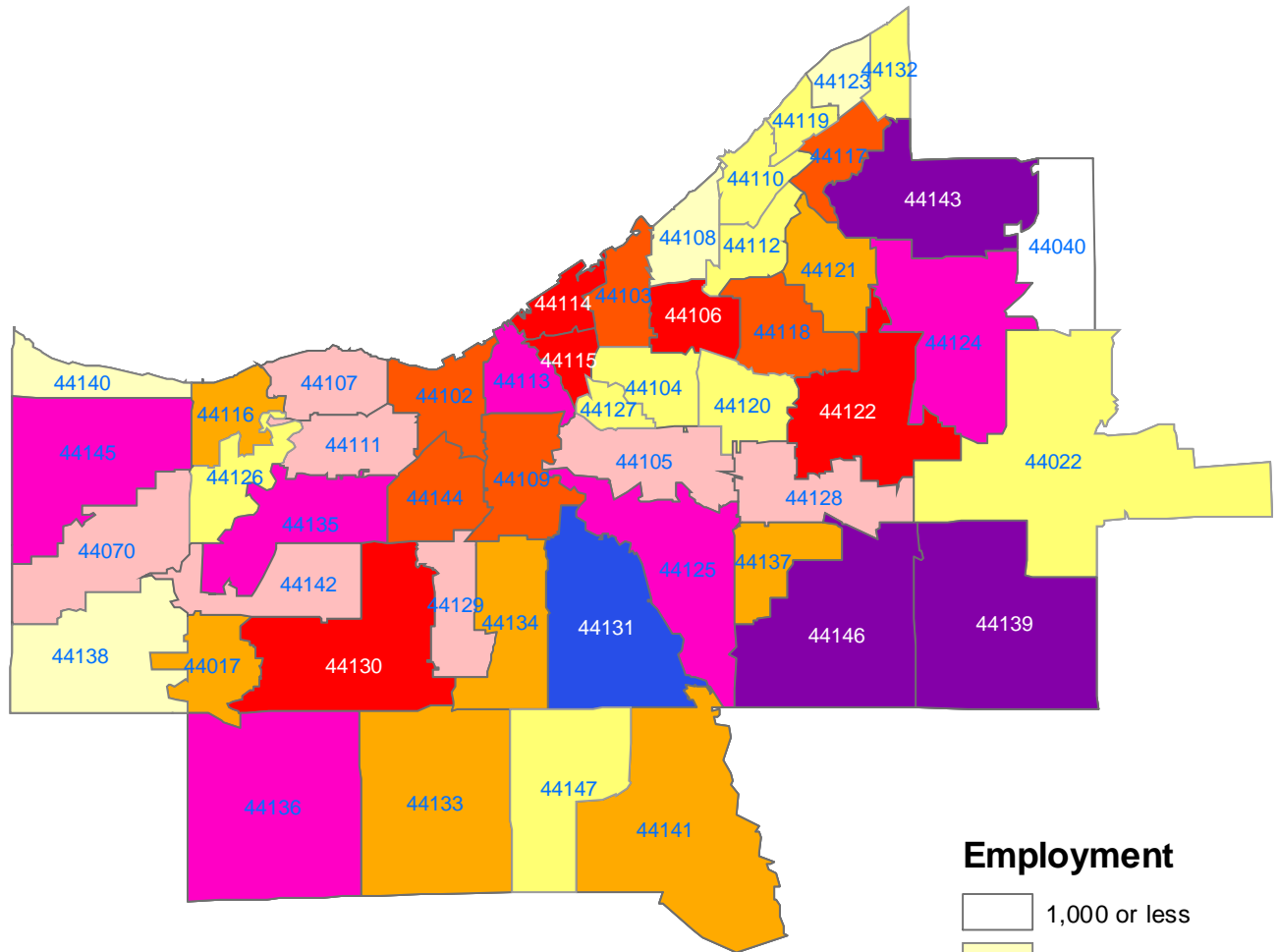
## Employment



# Cleveland City NAICS Sector 54 Professional, Scientific, and Technical Services Employment by Zip Code, 1st Quarter, 2002

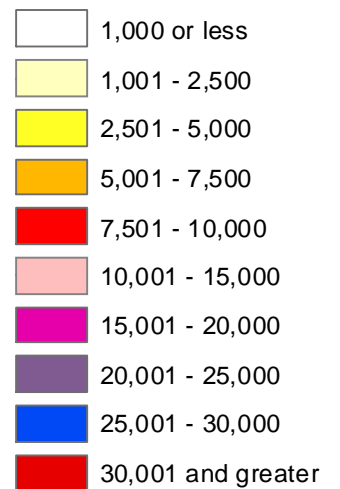


# Cuyahoga County Private Covered Employment by Zip Code, 1st Quarter, 2002



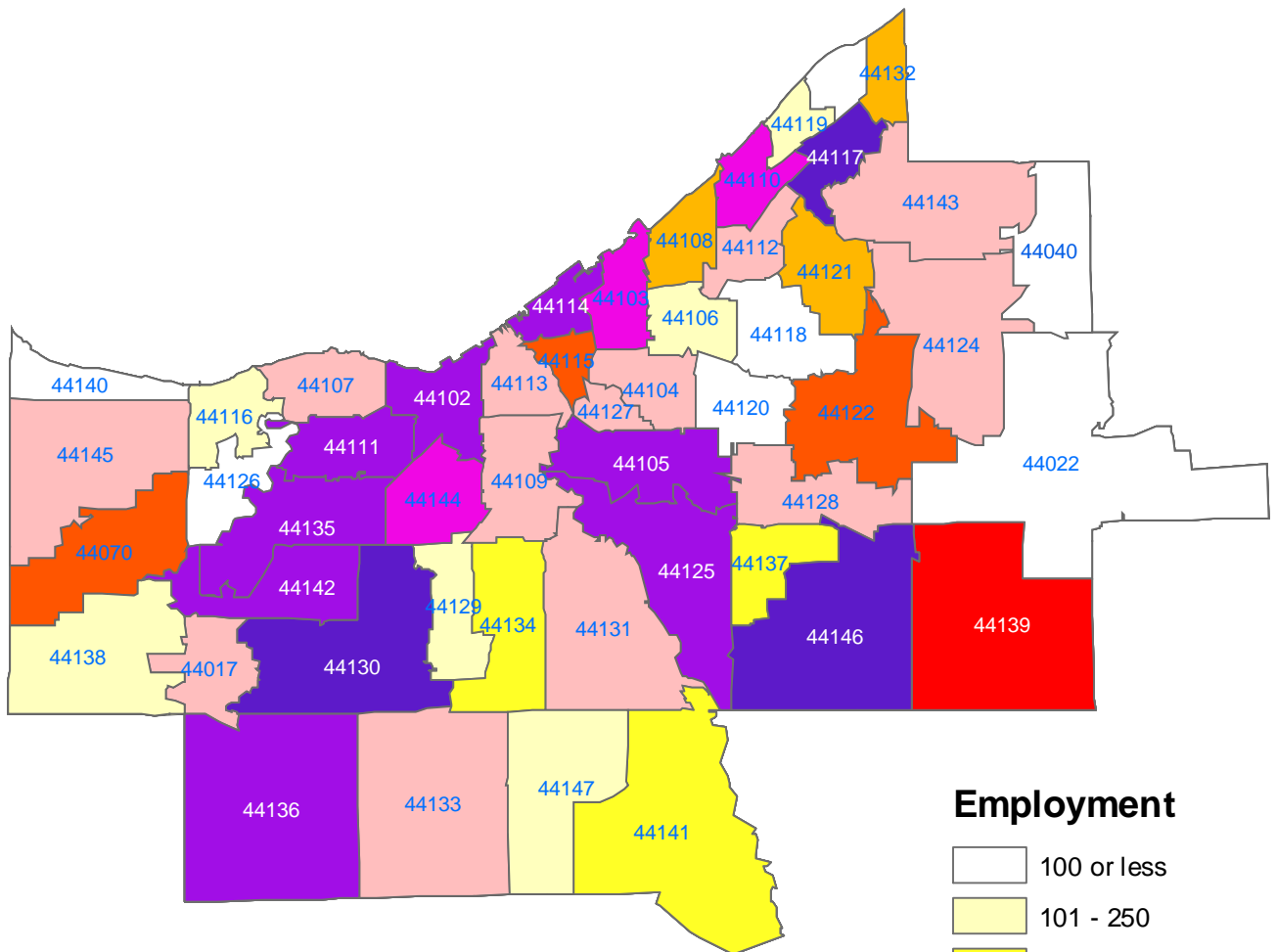
Cuyahoga County

## Employment



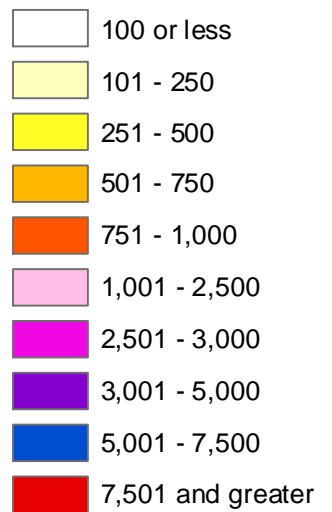


# Cuyahoga County NAICS Sector 31-33, Manufacturing Employment by Zip Code, 1st Quarter, 2002

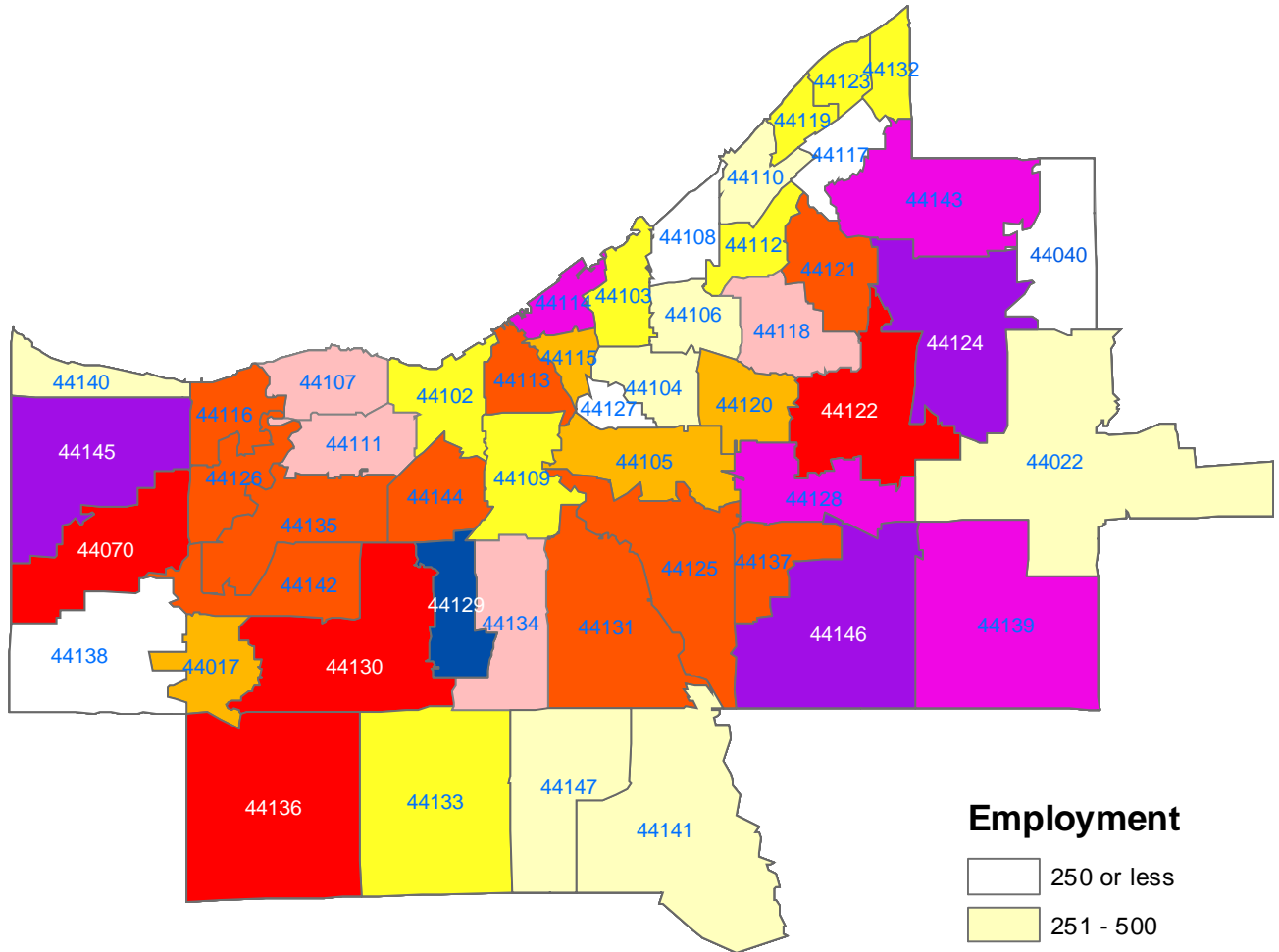


Cuyahoga County

### Employment

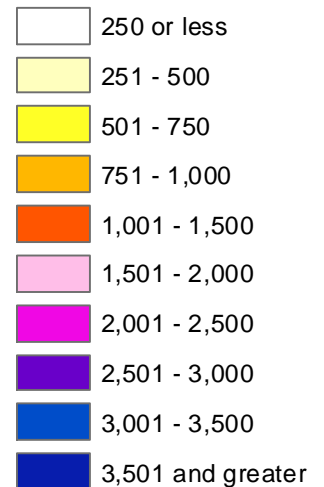


# Cuyahoga County NAICS Sector 44-45, Retail Trade Employment by Zip Code, 1st Quarter, 2002

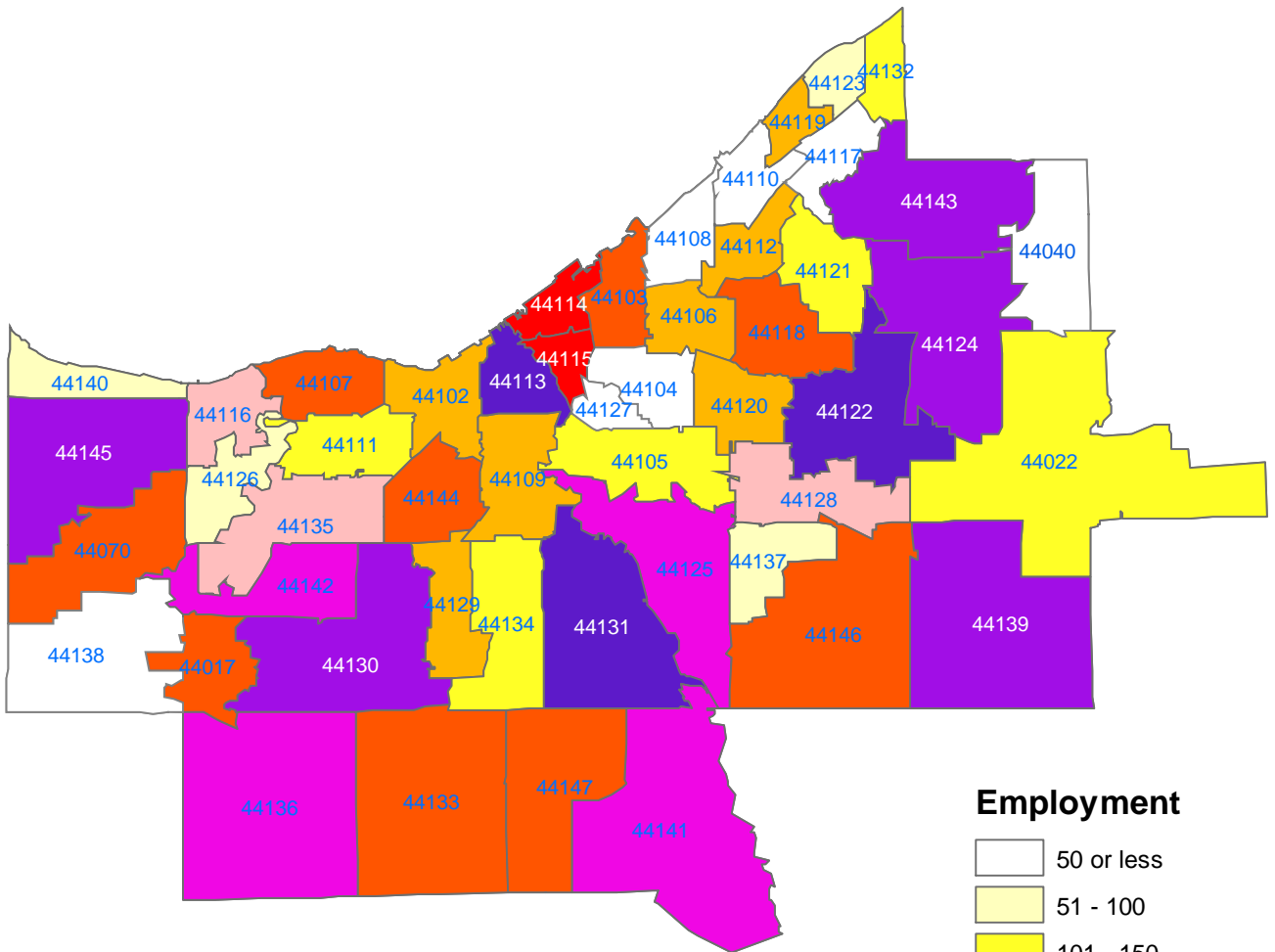


Cuyahoga County

## Employment



# Cuyahoga County NAICS Sector 54, Professional, Scientific, and Technical Services Employment by Zip Code, 1st Quarter, 2002



Cuyahoga County

### Employment

