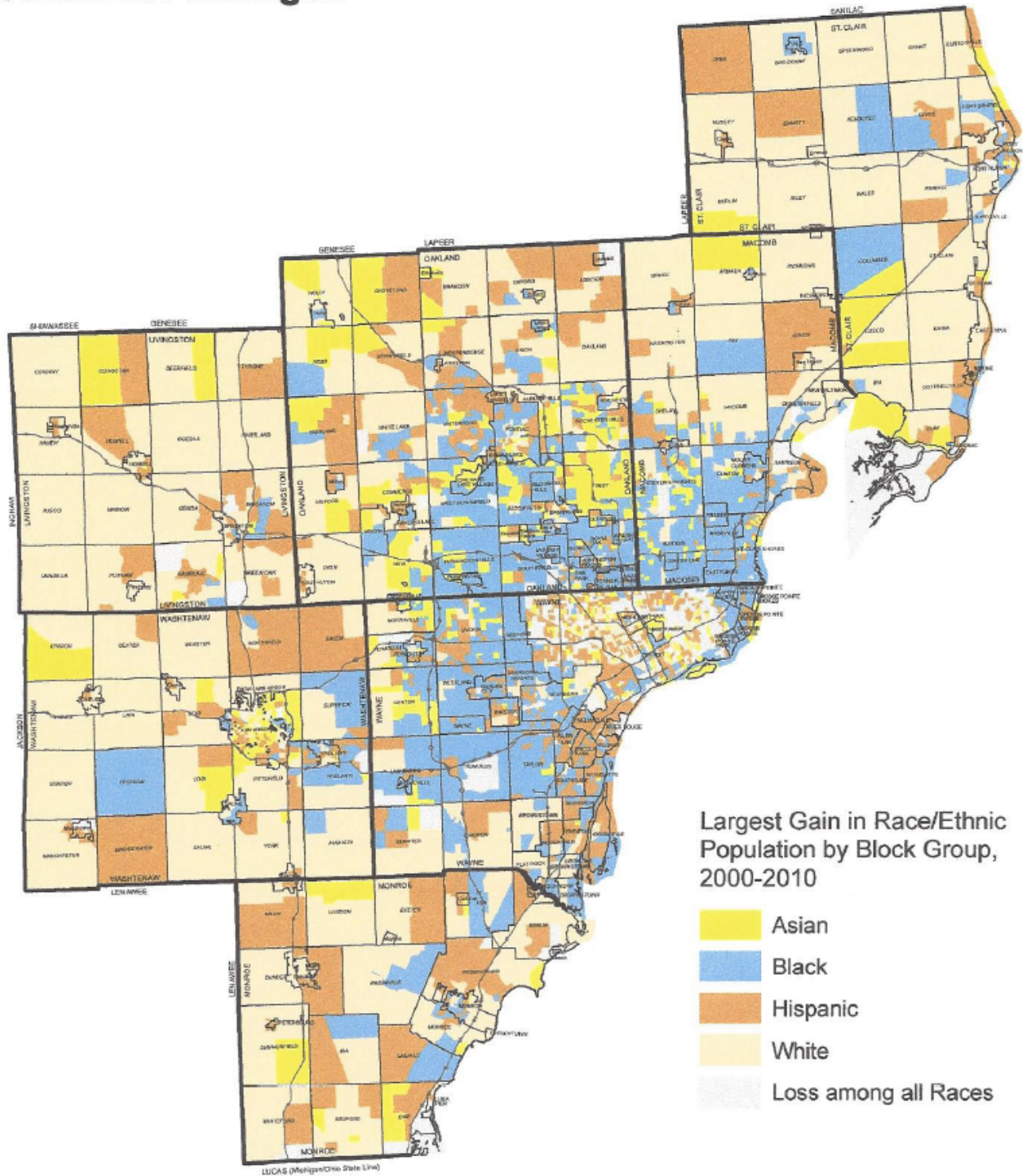


Racial Diversity, 2000-2010

Southeast Michigan

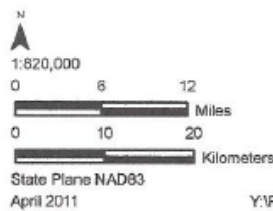


Largest Gain in Race/Ethnic Population by Block Group, 2000-2010

- Asian
- Black
- Hispanic
- White
- Loss among all Races



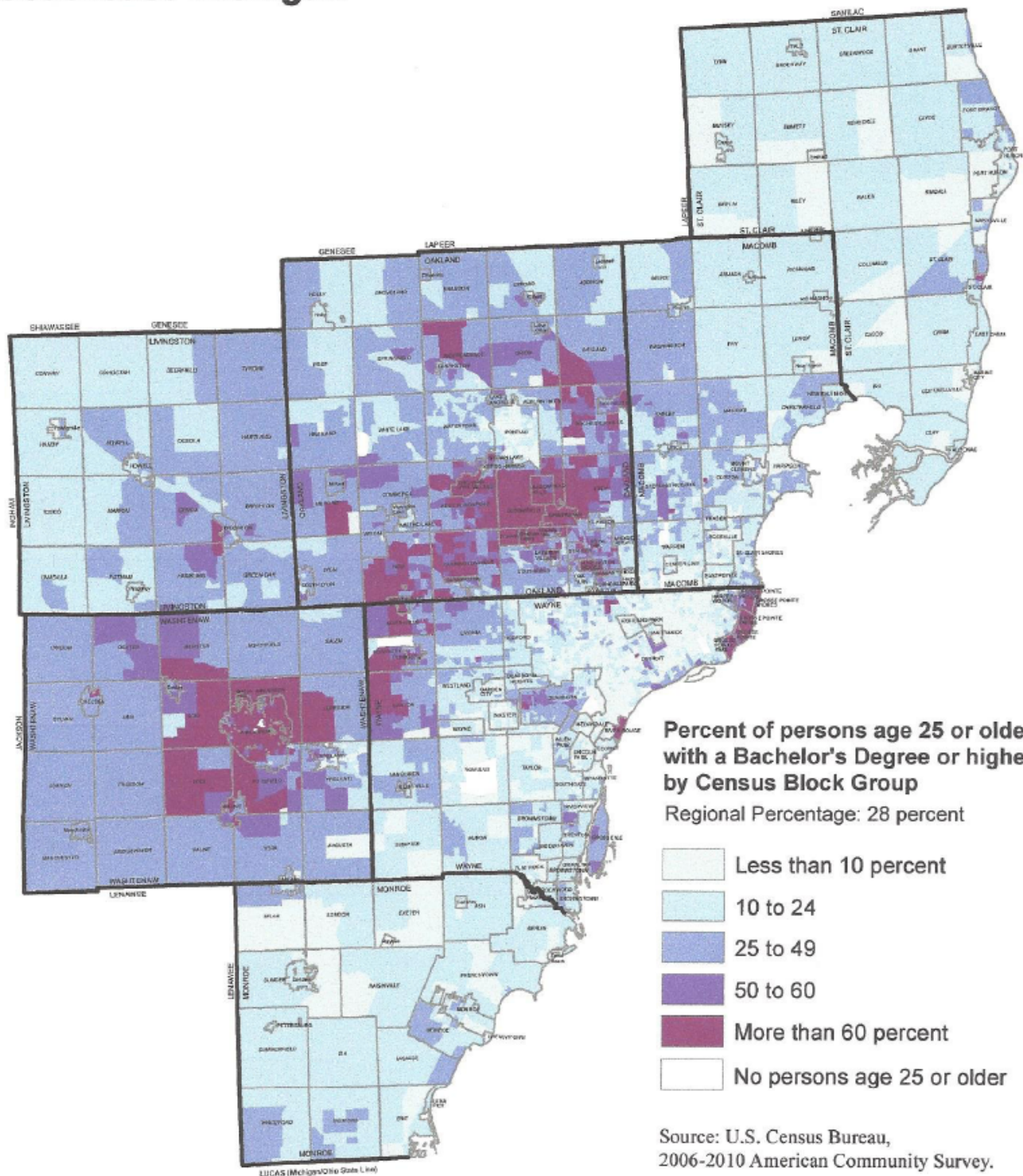
Southeast Michigan Council of Governments
 535 Griswold Street, Suite 300, Detroit, Michigan 48226-3602
 Phone (313) 961-4266, Fax (313) 961-4889
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College Graduates, 2010

Southeast Michigan



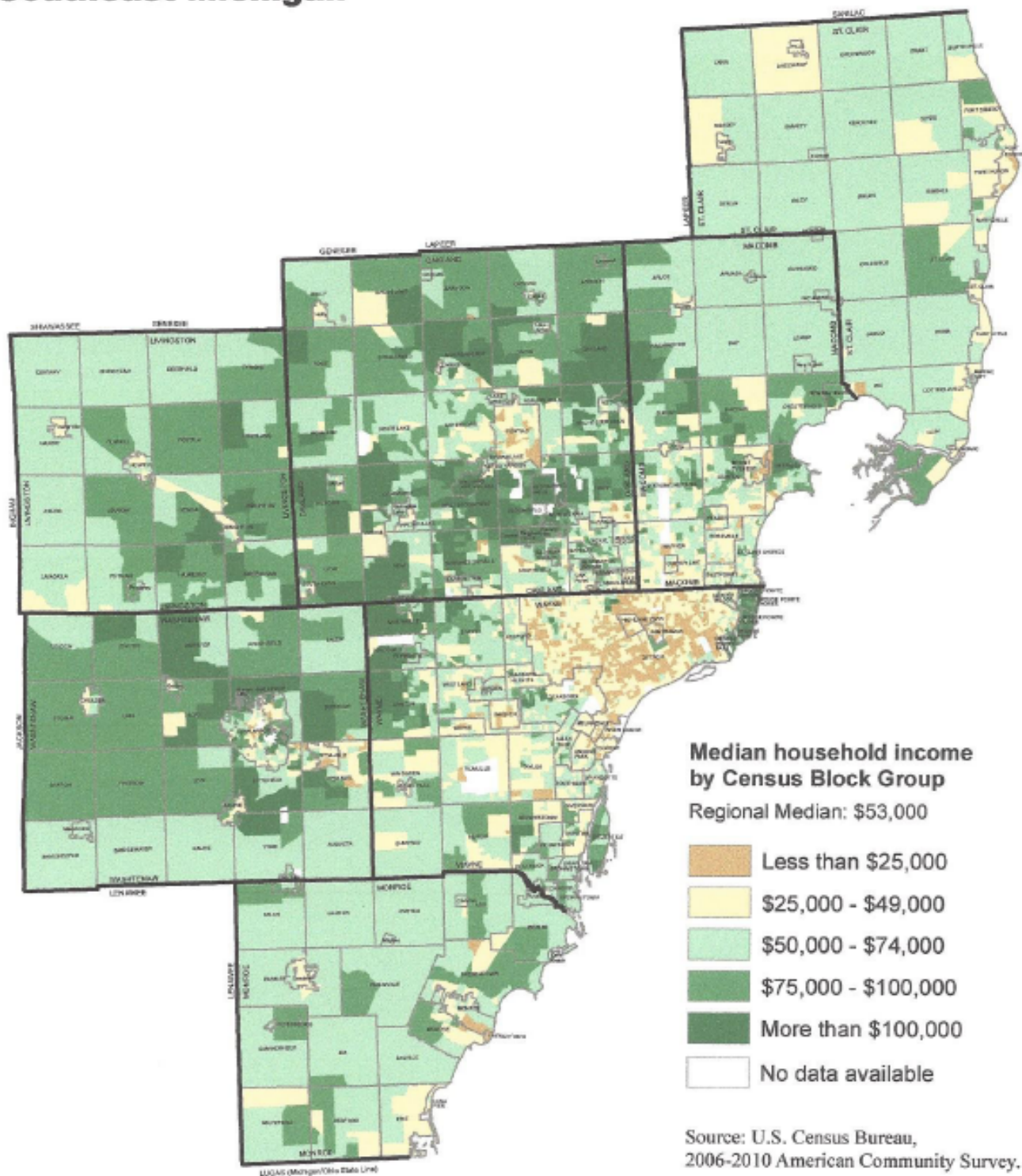
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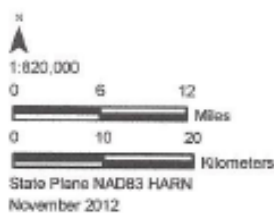


Household Income, 2010

Southeast Michigan

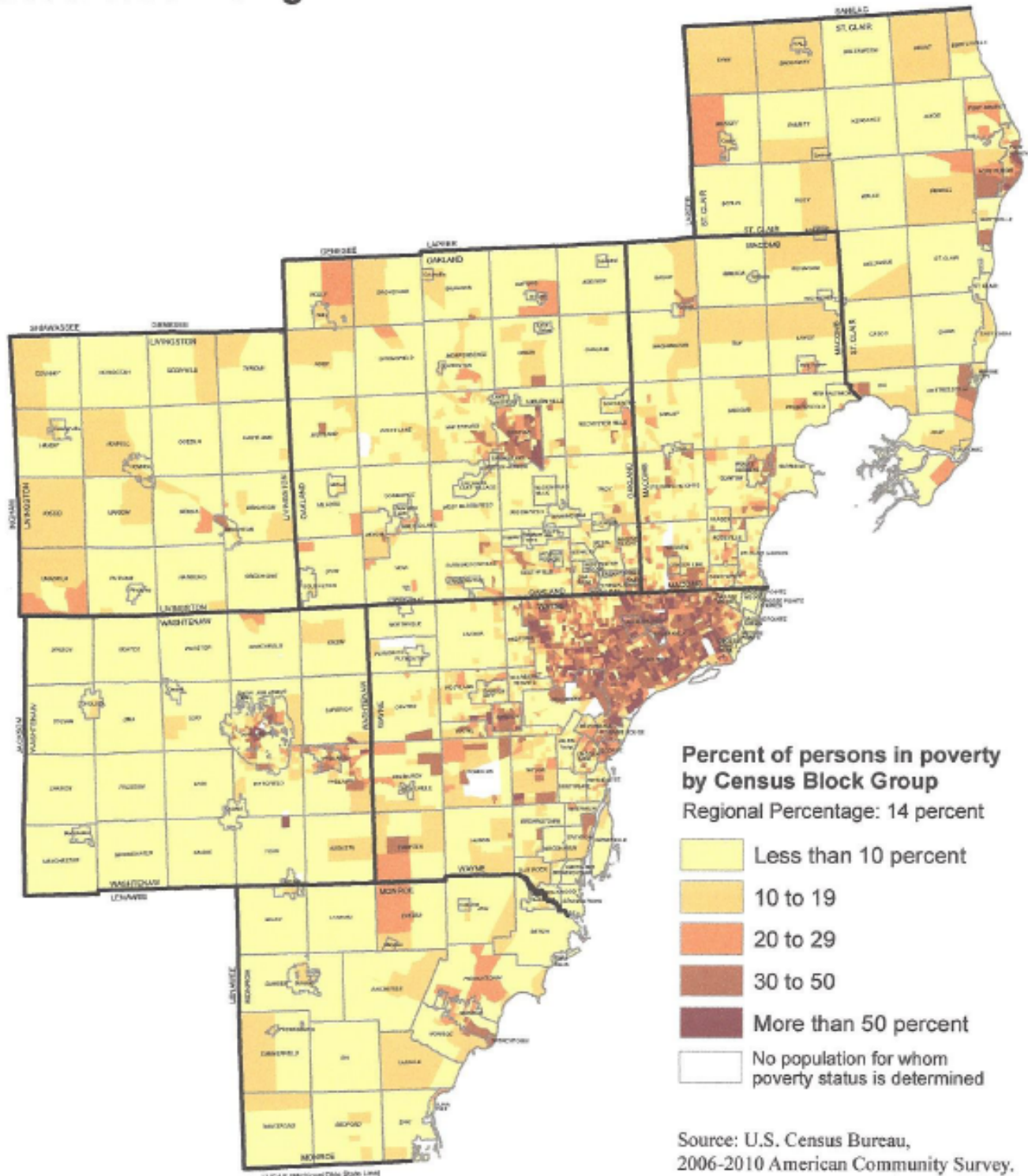


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Persons in Poverty, 2010

Southeast Michigan



Source: U.S. Census Bureau, 2006-2010 American Community Survey.

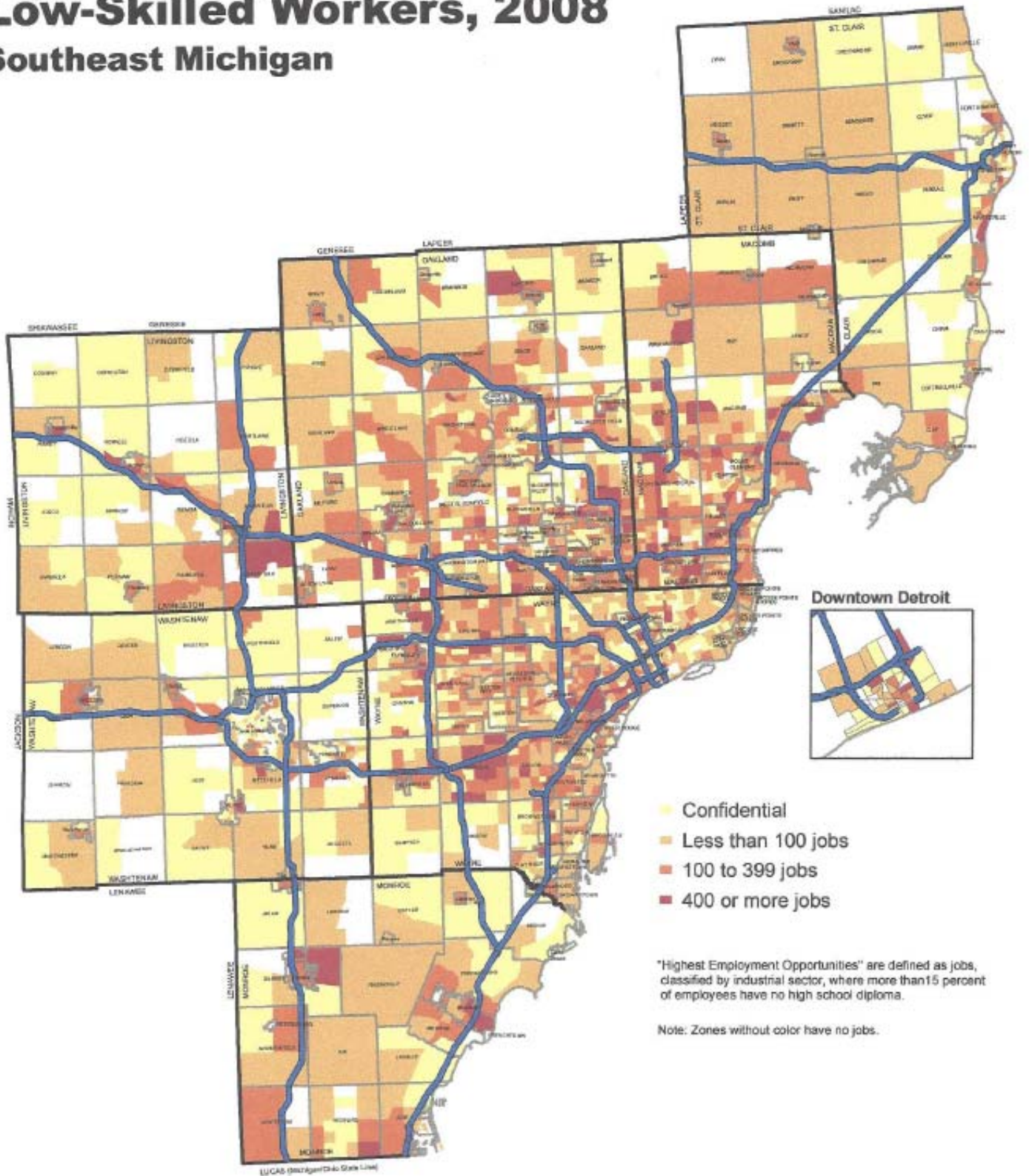
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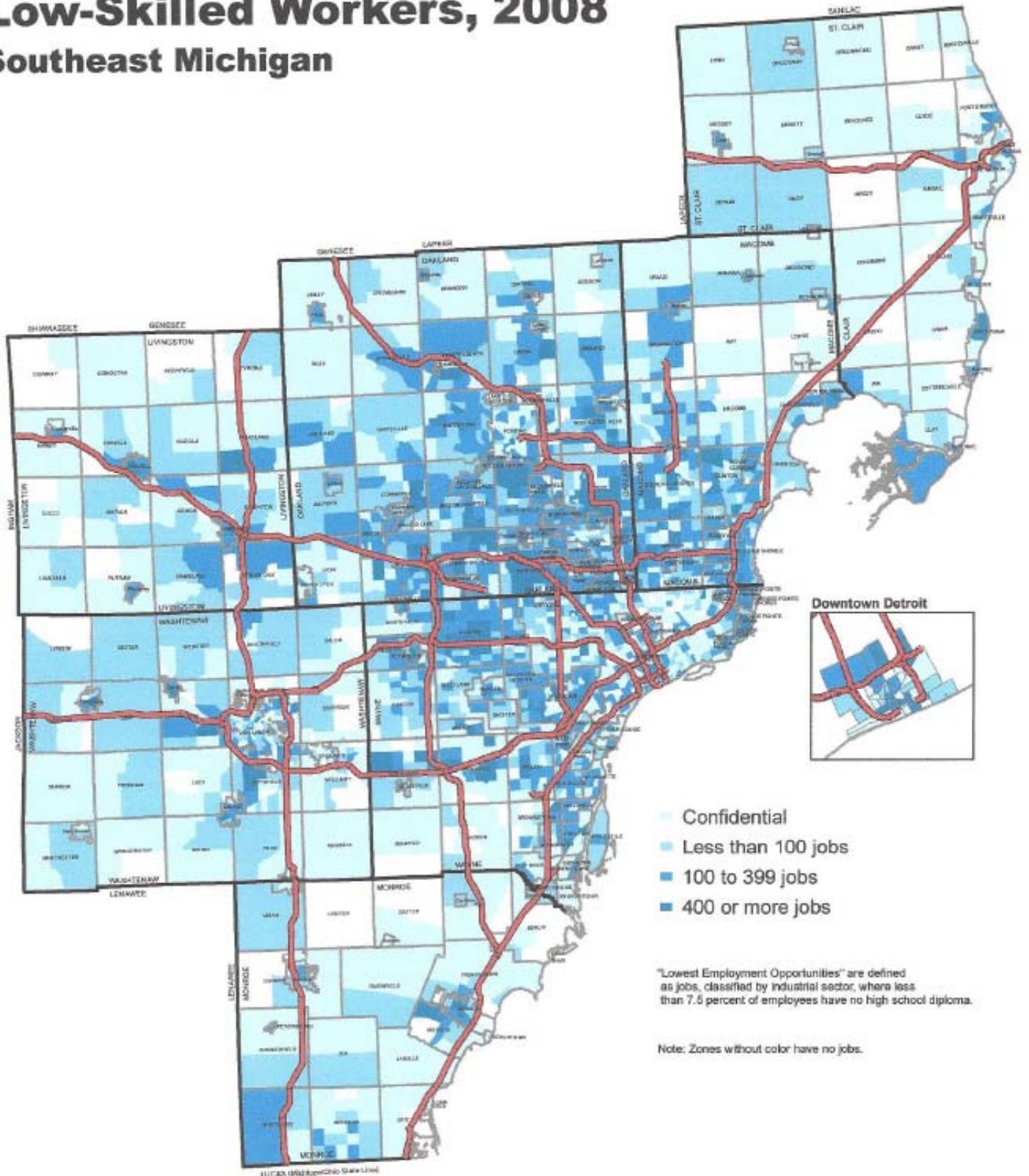
Highest Employment Opportunities for Low-Skilled Workers, 2008

Southeast Michigan



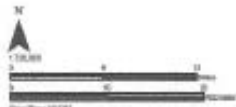
Lowest Employment Opportunities for Low-Skilled Workers, 2008

Southeast Michigan



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MAPS PREPARED BY: BNA, JAMES, JORDAN, TAYLOR, LORAIN, COOPER, AND GUYTON, DETROIT, MI, 2011

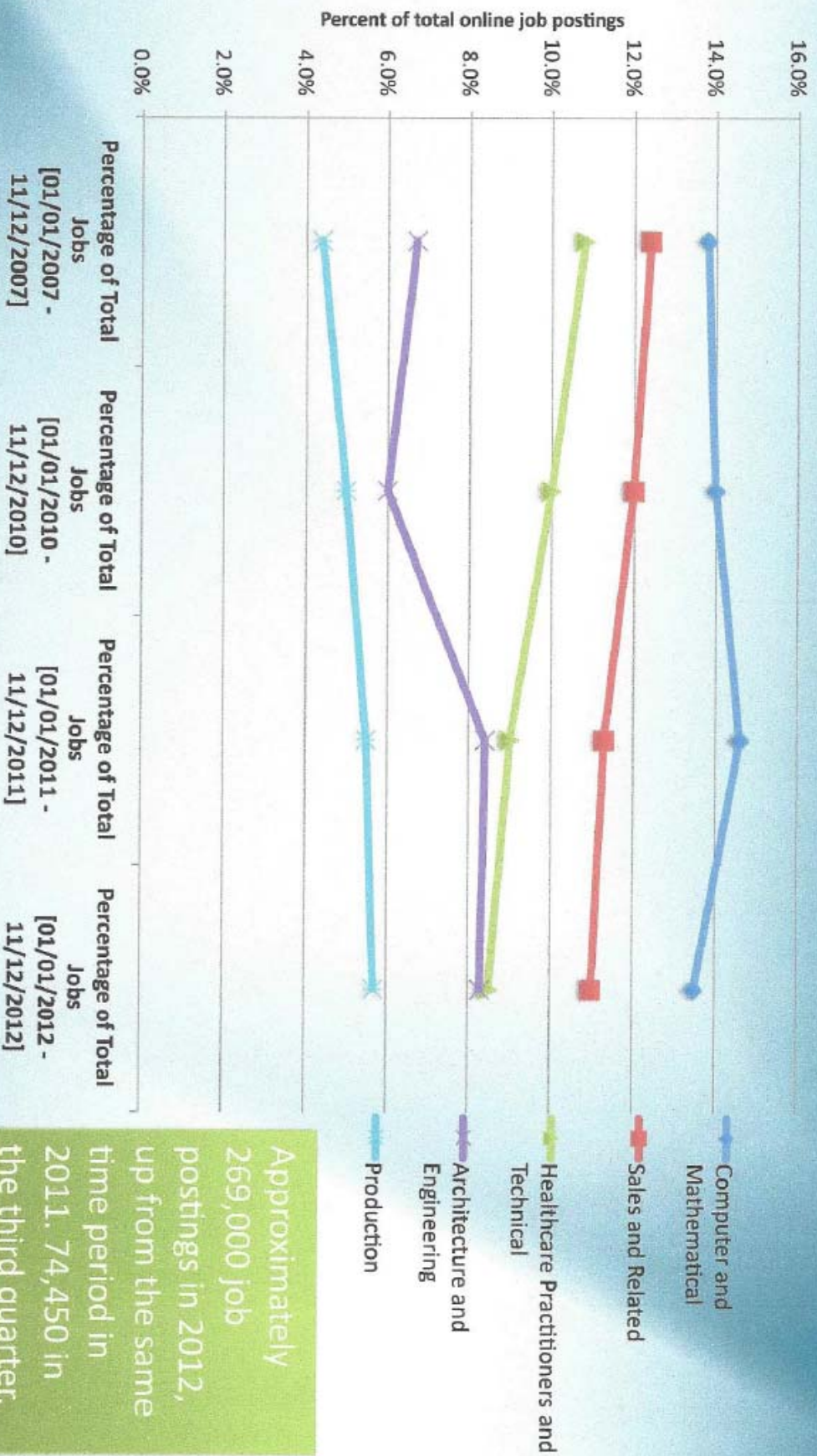
Workforce Intelligence Network For Southeast Michigan Findings

The Workforce Intelligence Network of Southeast Michigan (WIN) is a collaborative effort between eight community colleges and seven Michigan Works! Agencies in partnership with numerous other organizations to create a comprehensive and cohesive workforce development system in Southeast Michigan that provides employers with the talent they need for success. WIN was founded with the support of the New Economy Initiative for Southeast Michigan and publically launched in November 2011.

- The Southeast Michigan labor force declined by 200,000 in the last 10 years. In November 2012, there were 2.2million employed workers and 218,000 unemployed residents for a combined labor force of 2.4 million in Southeast Michigan.
- Southeast Michigan’s economy is beginning to show of recovery as evidenced by a decline in the unemployment rate, the number of those with jobs is on the rise, and job postings such as information technology, advanced manufacturing, and health care have been substantial.
- In terms of employment, males, African-Americans and those with limited prior work experience were hit harder by the recession than other groups.
- Asian Americans were the only group where their employment levels did not change.
- Recent declines in unemployment have been affected substantially by a decrease in workers actually looking for work in the region.
- Contributing factors to higher unemployment included urban core areas. Businesses in these areas tend to be disproportionately connected to the manufacturing industry which contributed to the decline in the number of business establishments. In addition, residents were more likely to have lower incomes and have less access to transportation to find work outside the city.
- In 2012, average earnings for males was \$66,000 while females was \$39,800. Females earning less than men yet making up an equal and sometimes higher proportion of the working population, poses negative pressure on average household income.
- The regions aging workforce could exacerbate talent shortages. Further, as older workers stay on the job longer and overall work opportunities diminish, youth have found it more difficult to obtain work. Over 20% of skilled trades/technicians jobs are currently filled by workers over the age of 55. Registered nursing is another area affected by an increasingly older workforce.

- The recent economic crisis resulted in the permanent loss of thousands of lower skill jobs that may not be recovered in such areas as manufacturing, retail trade, and other industries.
- While manufacturing is still the region's greatest economic driver and wealth creator, health care has overtaken manufacturing as the largest employer.
- The manufacturing cluster shows signs of growth in high tech areas, but it is unclear if the lost manufacturing jobs will return to previous levels.
- Skilled trades demand in Southeast Michigan is among the highest in the nation. Total employment reached 105,900 in 2012. There were 15,100 online postings producing a ratio of 3 postings for every 20 jobs.
- Information technology is the region's most rapidly growing occupational cluster. In 2012, total employment reached 69,500, yet postings reached 40,400. This represents 1 posting for every 2 jobs in the occupation.
- In 2012, employment in health care reached 259,400 workers. There were 29,800 online job postings, an increase of almost 29%.
- Taking into account all advanced manufacturing occupations, in 2012 there were 180,100 individuals employed. Online postings reached 42,950 bringing the total ratio of postings for employment to nearly 1 posting for every 4 jobs.
- Jobs that will replace those lost in the recovery will tend to be skill-intensive and will require them to be prepared differently than they are today. In fact many jobs will require at least some college education. In addition to higher wages and better employment outcomes for individuals, more degree attainment means greater economic returns for the region.

Selected occupational groups over time



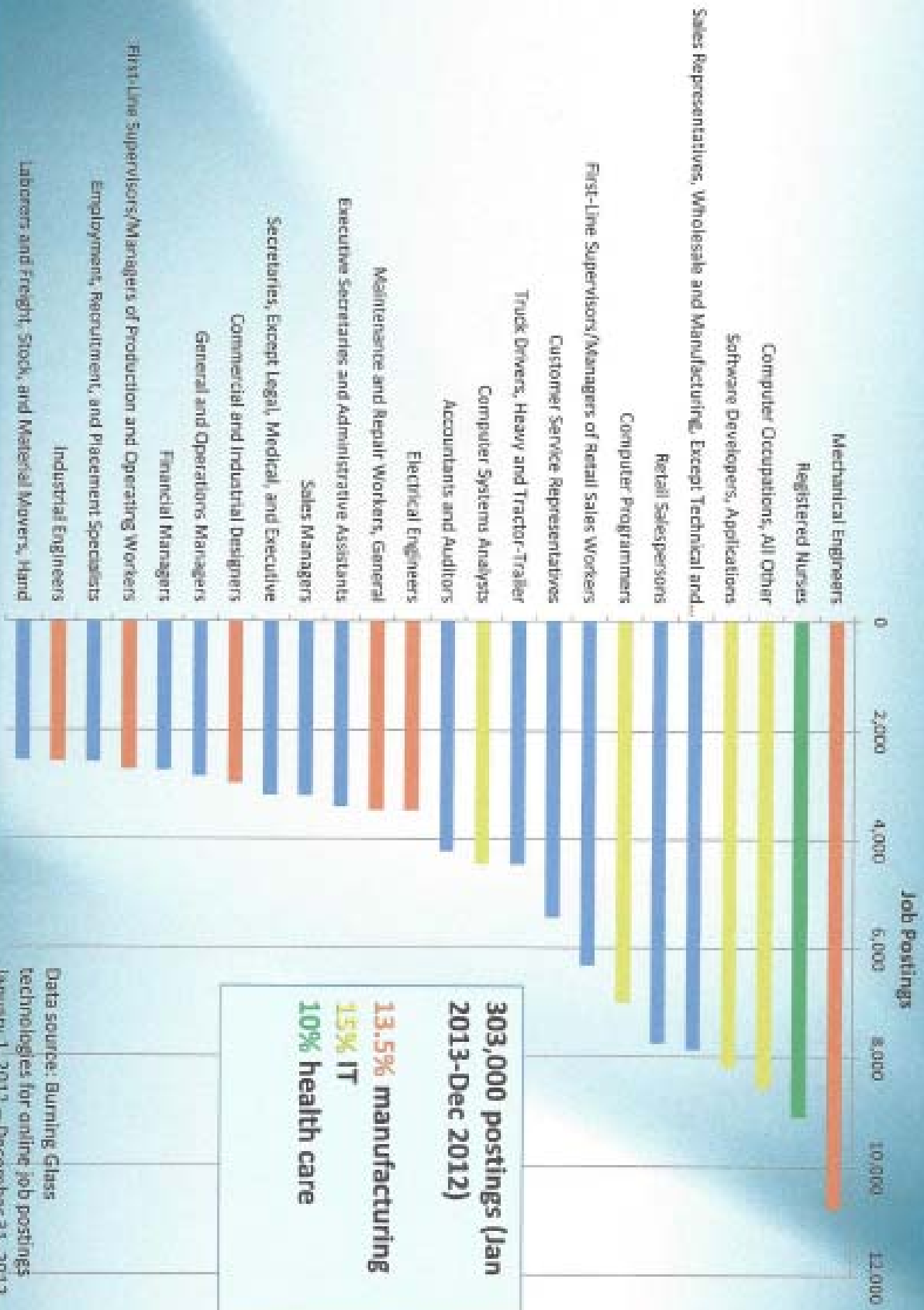
Approximately 269,000 job postings in 2012, up from the same time period in 2011. 74,450 in the third quarter.

Source: Burning Glass Technologies

Emerging skills - 2012

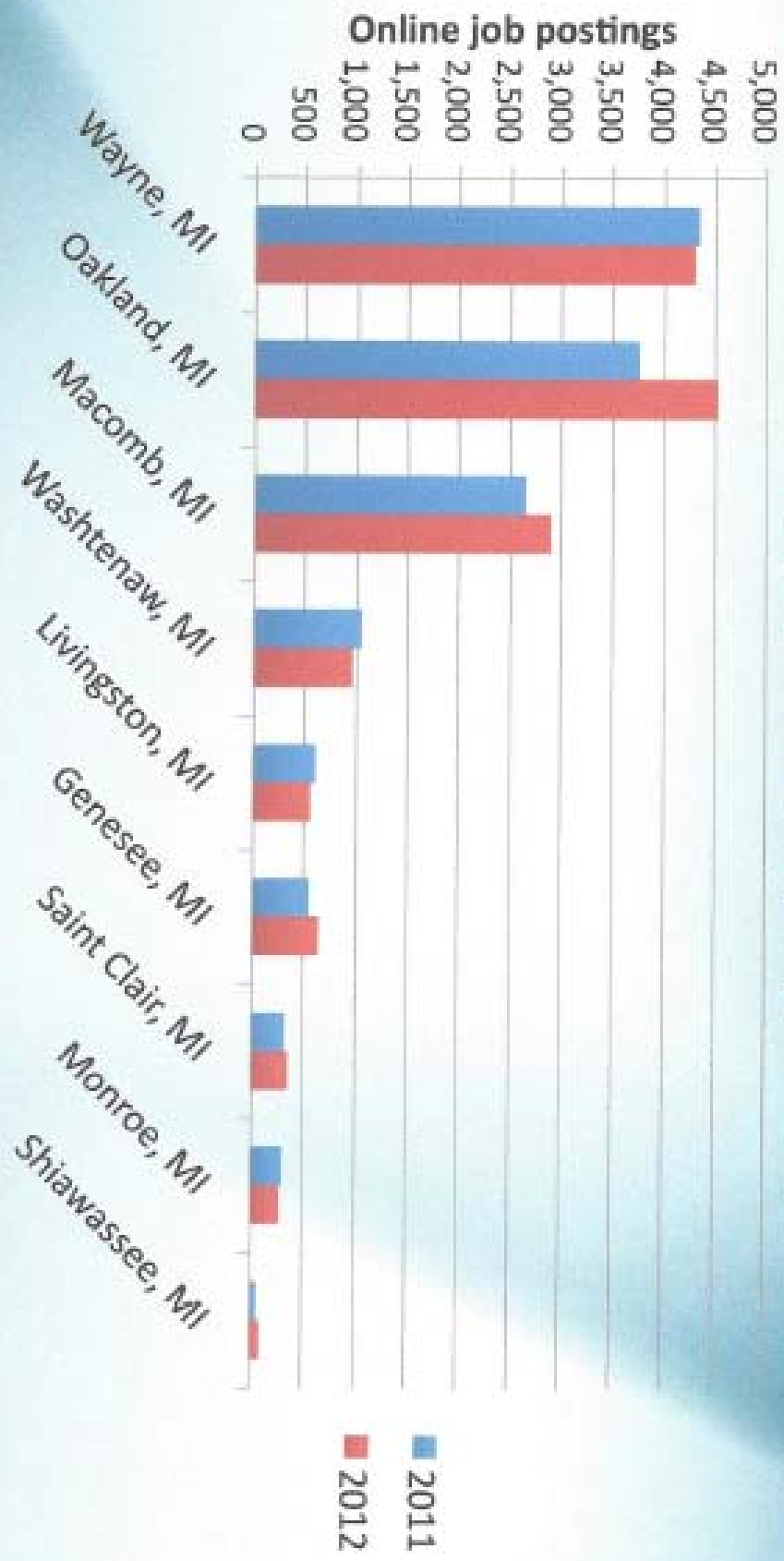
- Satisfaction Failure Correction
- 3d Modeling
- Technical Drawings
- Engineering Calculations
- Media-Production
- Cost Analysis
- Autodesk
- Laboratory Testing
- Vehicle Design
- Design Management
- Iso 14000
- Design For Manufacture And Assembly (dfma)
- Fea Software
- Lamp Stack
- Equipment Design
- Painting
- Aerospace Engineering
- Wiring Diagrams
- Mintiab
- Enterprise Resource Planning
- Fascia
- Cabling
- Compliance With Customer Specifications
- Supplier Review
- Costing
- Product Lifecycle Management
- Program Development
- Hybrid Vehicle
- Total Quality Management
- Rough Sketches
- Lathes
- Product And Service Information
- Manufacturing Resource Planning (mrp)
- 3d Design
- Energy Analysis
- Environmental Management
- Drawing Preparation
- Computational Fluid Dynamics
- Revit
- Linux
- Material Flow Management
- Programmable Logic Controllers
- Analytical Software
- Civil 3d
- Micrometers
- Electromechanical Systems
- Boilers
- Framing
- Cooling Towers
- Logging
- Heat Exchangers
- Network Hardware/Software Maintenance
- Advanced Manufacturing Engineering
- Inverters
- Government Regulations
- Ethernet

2012 job demand: top 30 in SE MI



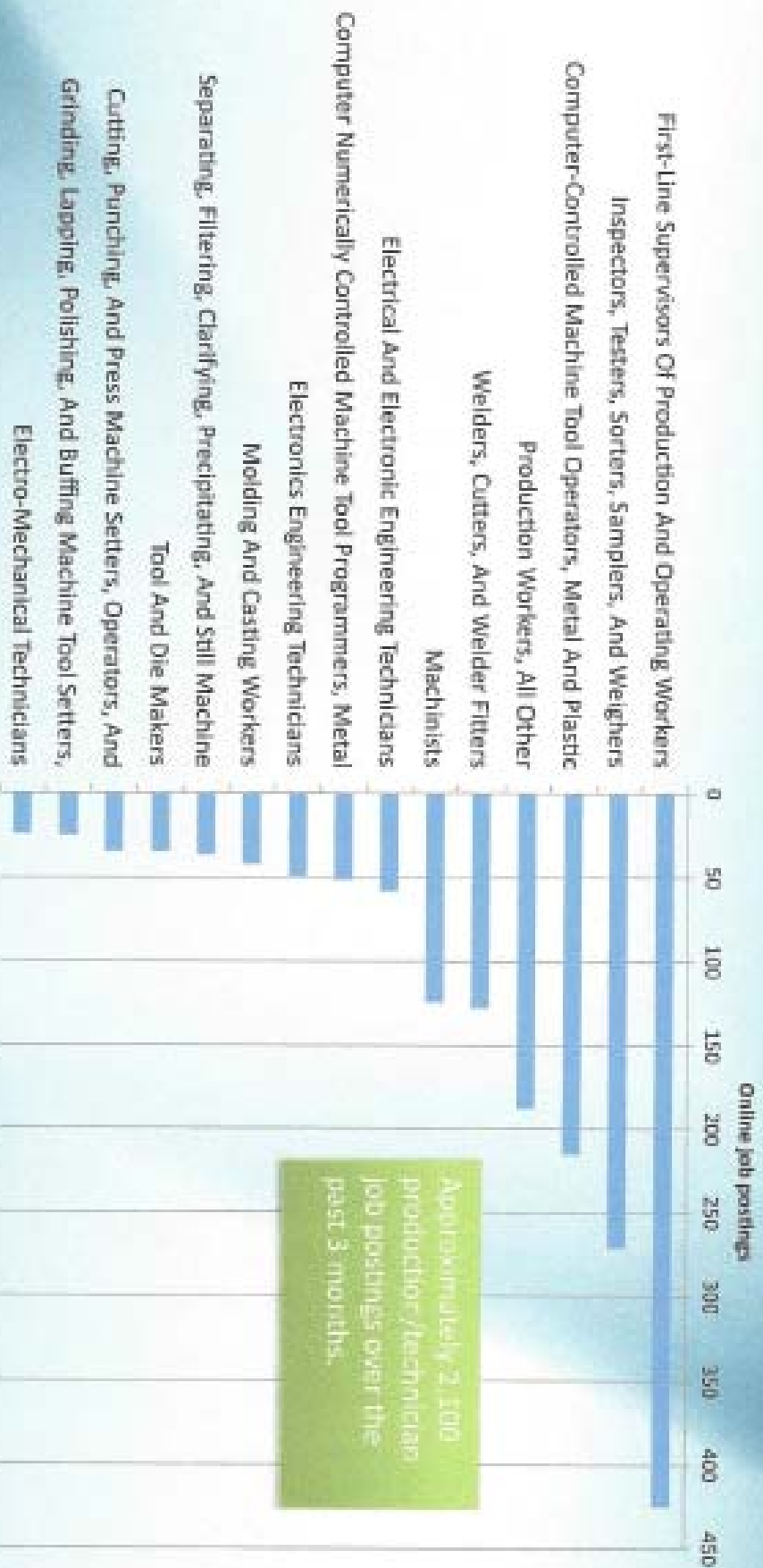
Data source: Burning Glass technologies for online job postings January 1, 2012 – December 31, 2012.

Skilled trades by county (1/1/12-11/12/12)



Source: Burning Glass Technologies

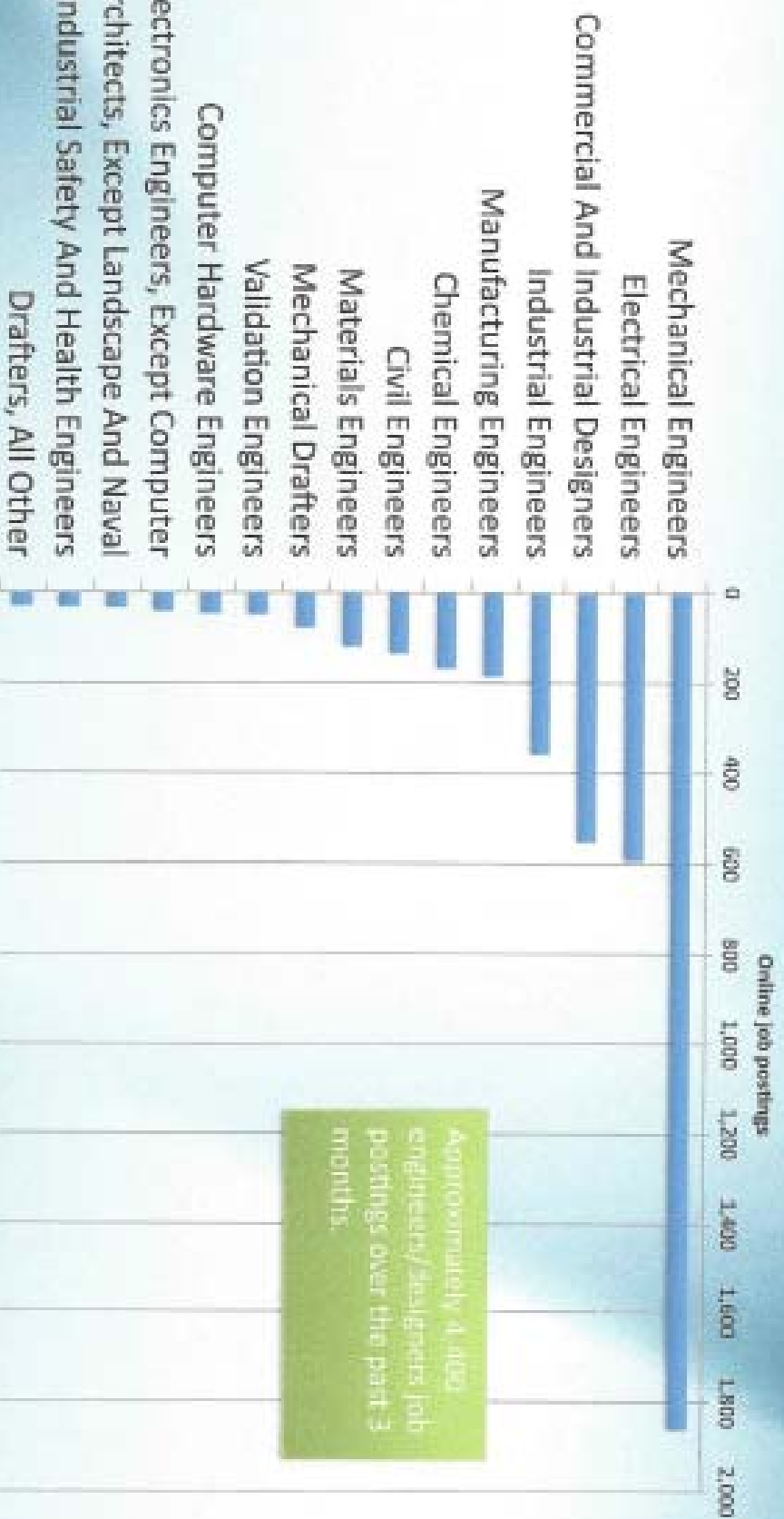
Job postings for technicians/skilled trades in SE MI (8/29/12-11/26/12)



Source: Burning Glass Technologies

Job postings for engineers/designers in SE

MI (8/29/12-11/26/12)



Approximately 4,400
engineers/designers job
postings over the past 3
months.

Top IT postings in SE MI (8/29/12-11/26/12)



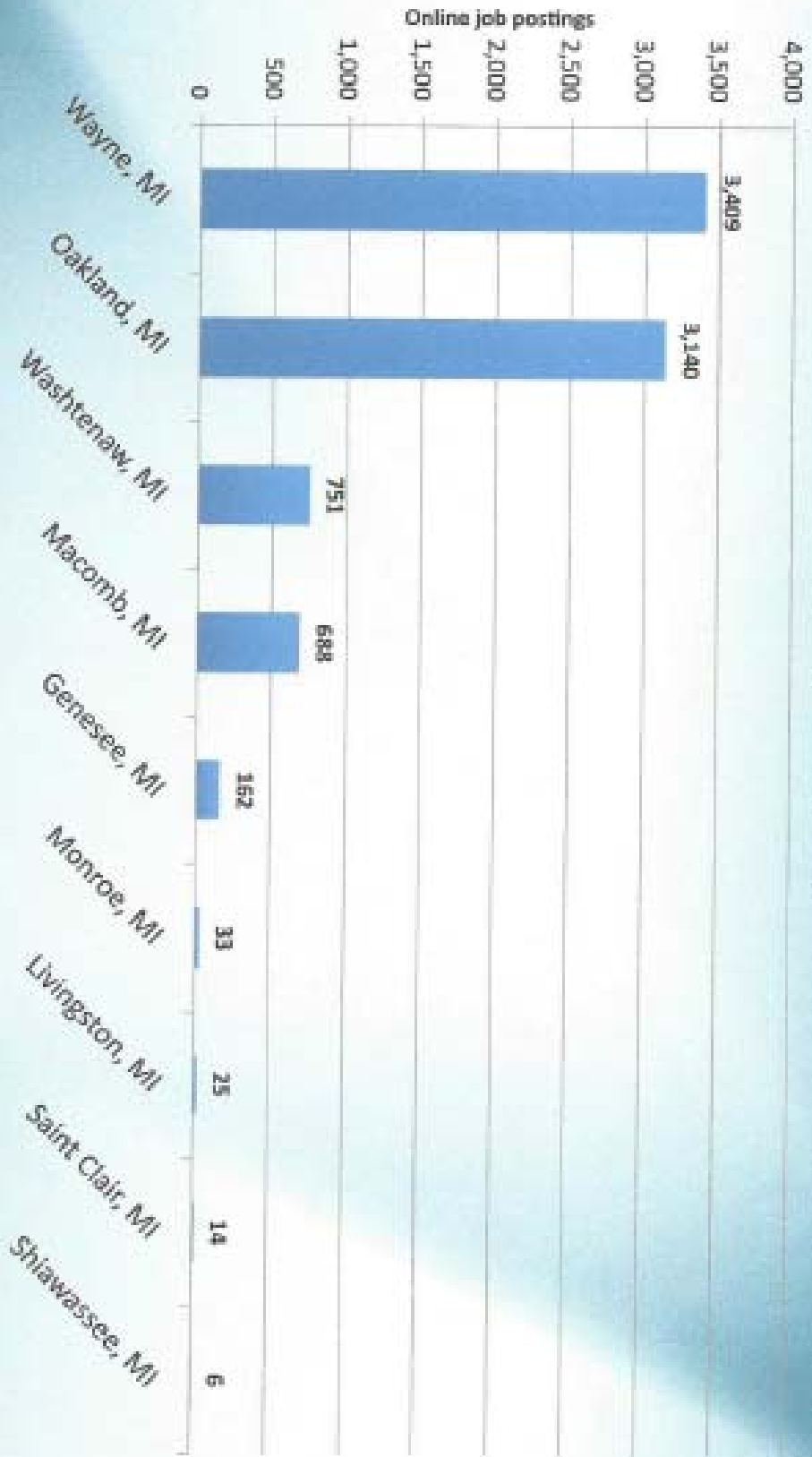
Approximately 13,000 IT postings since January 1, 2012 and 8,200 over the past 3 months.



Source: Burning Glass Technologies

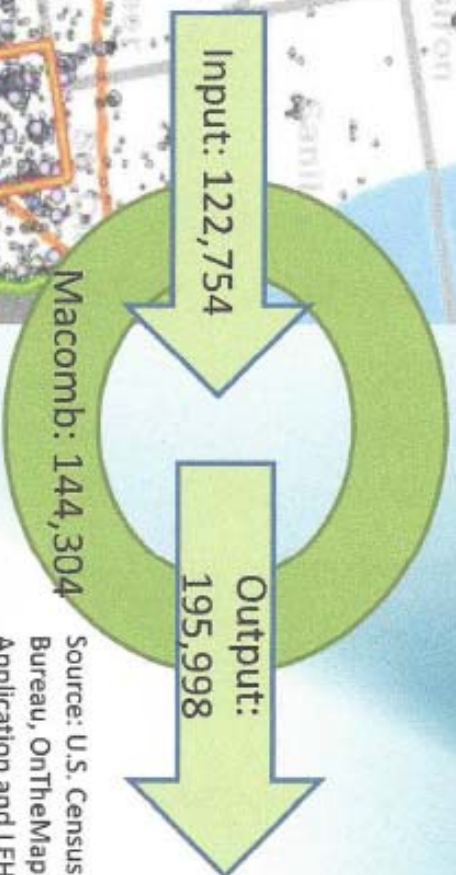
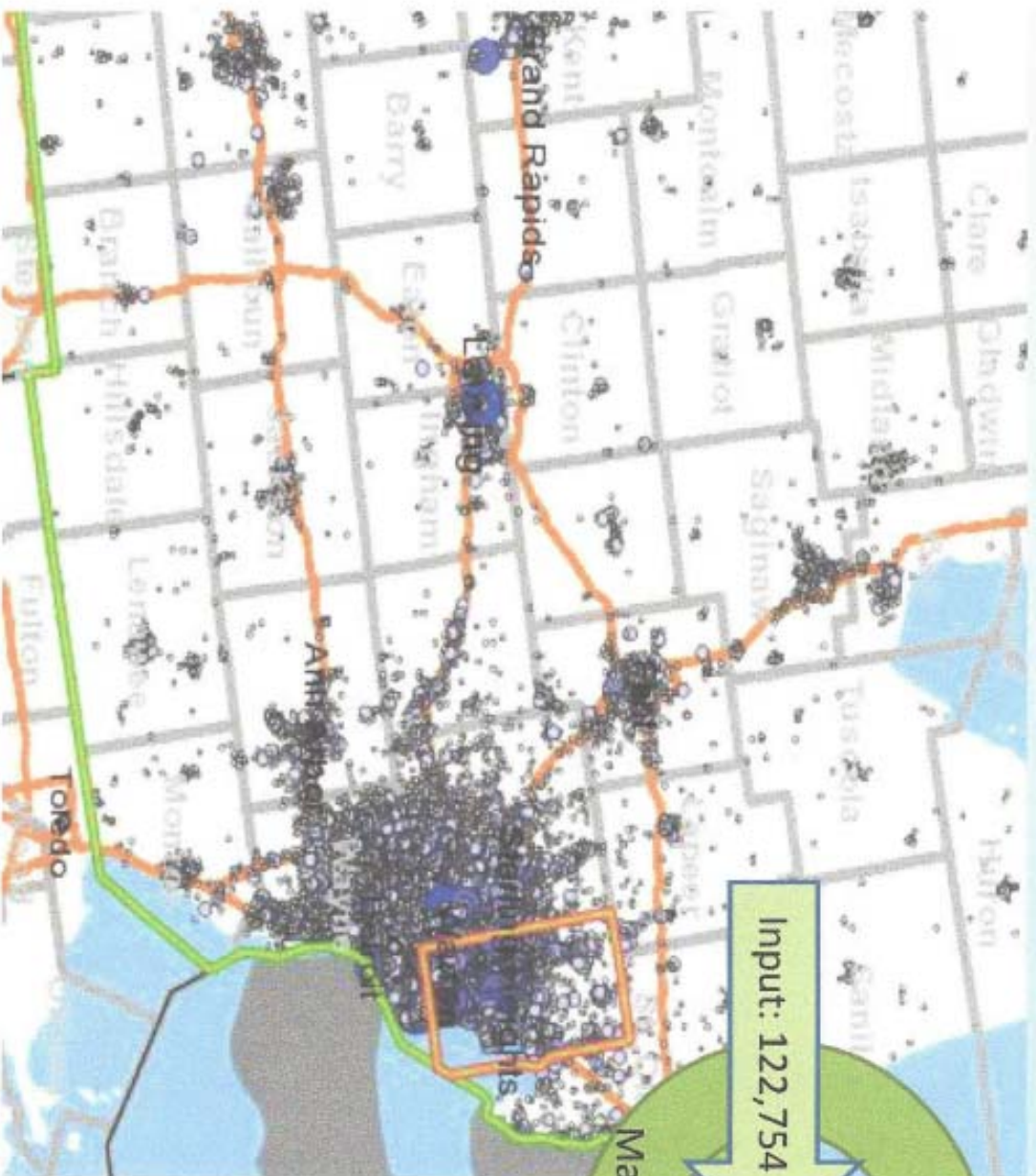
Tech job postings by county

8/29/12-11/26/12



Data source: Burning Glass technologies

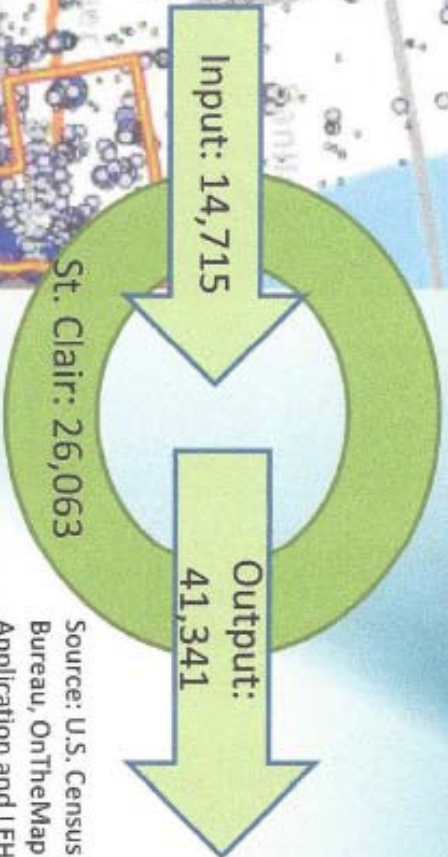
Where Macomb residents work



Source: U.S. Census Bureau, OnTheMap Application and LEHD Origin-Destination Employment Statistics 2002-2010

- **1 - 12 Jobs**
- **13 - 188 Jobs**
- **189 - 949 Jobs**
- **950 - 3,000 Jobs**
- **3,001 - 7,323 Jobs**

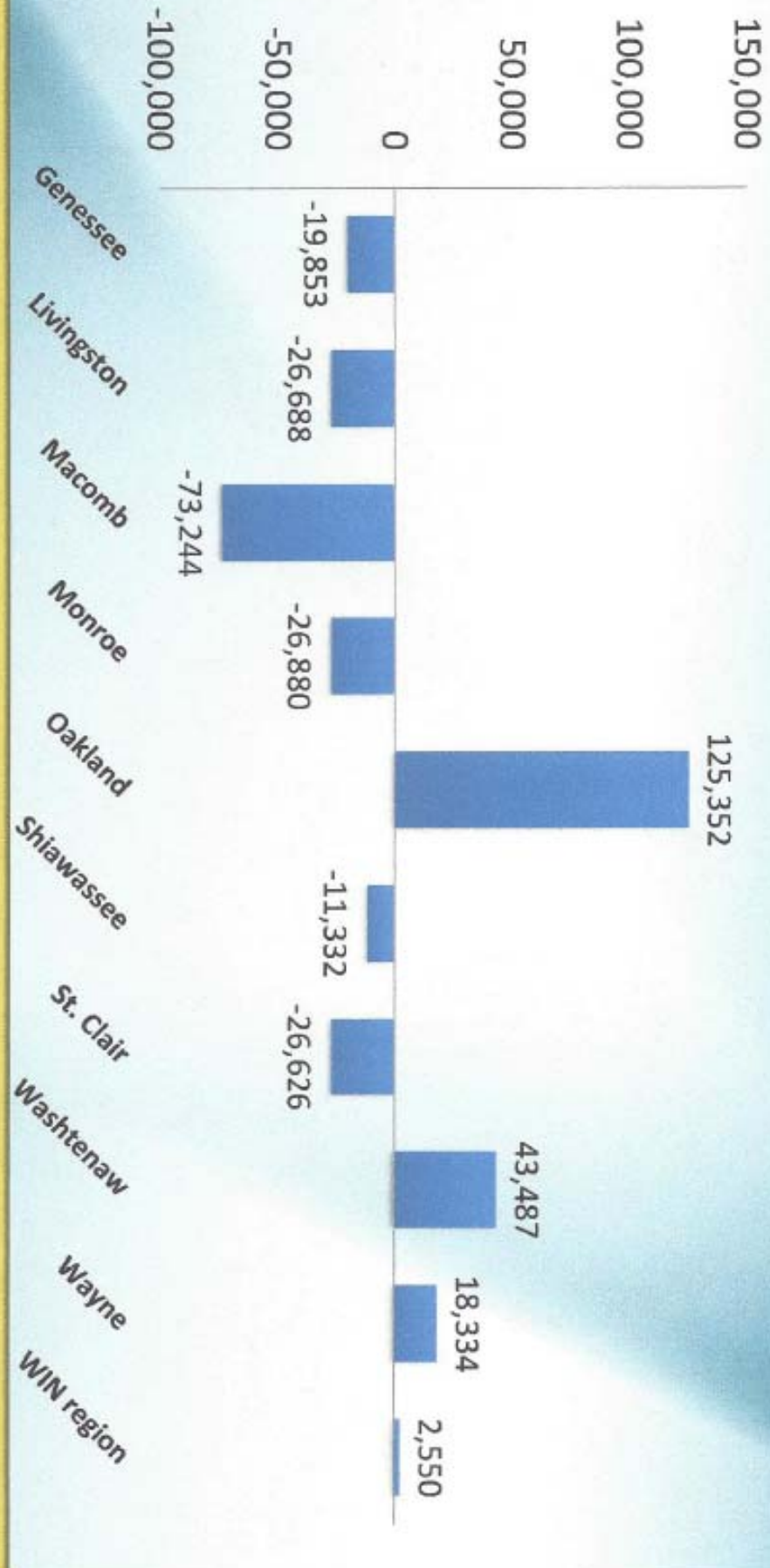
Where St. Clair residents work



Source: U.S. Census Bureau, OnTheMap Application and LEHD Origin-Destination Employment Statistics 2002-2010

- **1 - 2 Jobs**
- **3 - 26 Jobs**
- **27 - 131 Jobs**
- **132 - 414 Jobs**
- **415 - 1,011 Jobs**

Net Job Inflow (+) or Outflow (-)



Source: U.S. Census Bureau, OnTheMap Application and LEHD Origin-Destination Employment Statistics 2002-2010