REGIONAL SNAPSHOT

Industry Cluster Analysis

Central Upper Peninsula Planning and Development Region, Michigan
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01 overview

Central Upper Peninsula Planning and Development Region, MI
Central Upper Peninsula Planning and Development Region

The Central Upper Peninsula Planning and Development Region is comprised of six Michigan counties. U.S. Highway 41 passes through the region connecting to I-43 to the south.

- Alger
- Delta
- Dickinson
- Marquette
- Menominee
- Schoolcraft
02 Industry cluster analysis

Central Upper Peninsula Planning and Development Region, MI
Industry cluster analysis

How to interpret cluster data results
The graph’s four quadrants tell a different story for each cluster.

- **Mature**
  - Top left (strong but declining)
  - Contains clusters that are more concentrated in the region but are declining (negative growth). These clusters typically fall into the lower quadrant as job losses cause a decline in concentration.

- **Stars**
  - Top right (strong and advancing)
  - Contains clusters that are more concentrated in the region and are growing. These clusters are strengths that help a region stand out from the competition. Small, high-growth clusters can be expected to become more dominant over time.

- **Transforming**
  - Bottom left (weak and declining)
  - Contains clusters that are under-represented in the region (low concentration) and are also losing jobs. Clusters in this region may indicate a gap in the workforce pipeline if local industries anticipate a future need. In general, clusters in this quadrant show a lack of competitiveness.

- **Emerging**
  - Bottom right (weak but advancing)
  - Contains clusters that are under-represented in the region but are growing, often quickly. If growth trends continue, these clusters will eventually move into the top right quadrant. Clusters in this quadrant are considered emerging strengths for the region.

Industry and occupation

Industry cluster bubble chart

Mature

-70%
-20%
0%
10%
20%
30%

LQ, 2014

Forest & Wood Prod., 3.64, 4,421

Biomedical/Biotech, 1.04, 6,915

Business&FinancialService, 0.55, 6,279

Advanced Materials, 0.85, 2,141

Energy(Fossil & Renewable), 0.91, 4,200

Agri. & Food Process., 0.68, 1,703

Arts & Ent., 0.97, 3,389

IT & Telecomm., 0.51, 1,696

Chemicals&Chemical Based, 0.48, 500

IT & Telecomm., 0.51, 1,696

Printing & Publishing, 0.69, 1,007

Transportation & Logistics, 0.90, 2,420

Mfg Supercluster, 1.17, 3,365

Mining, 8.55, 2,158

Star

Emerging

-2

-30% -20% -10% 0% 10% 20% 30%

Percent change in LQ, 2009-2014

Note: Glass & Ceramics cluster has too few jobs.

Source: EMSI Class of Worker 2014.4 (QCEW, non-QCEW, self-employed and extended proprietors).

Note: Label includes cluster name, LQ 2014, and Employment 2014; NAICS 2012 definitions

section 02
Industry and occupation

Manufacturing sub-cluster bubble chart

Source: EMSI Class of Worker 2014.4 (QCEW, non-QCEW, self-employed and extended proprietors).
Note: Label includes cluster name, LQ 2014, and Employment 2014; NAICS 2012 definition

Note: Computer & Electronic Product Manufacturing sub-cluster has too few jobs.
## Industry cluster analysis

### Mature Clusters
- **Primary Metal Manufacturing** *(1.56; 302)*
- **Elec Equip., App & Component Mfg.** *(1.06; 195)*
- **Biomed/Biotechnical (Life Science)** *(1.04; 6,915)*

### Star Clusters
- **Mining** *(8.55; 2,158)*
- **Forest & Wood Products** *(3.64; 4,421)*
- **Fabricated Metal Product Mfg.** *(2.01; 1,389)*
- **Machinery Manufacturing** *(1.57; 882)*
- **Manufacturing Supercluster** *(1.17; 3,365)*

### Emerging Clusters
- **Transportation & Logistics** *(0.90; 2,420)*
- **Advanced Materials** *(0.85; 2,141)*
- **Transportation Equipment Mfg.** *(0.78; 1,389)*
- **Agribusiness, Food Processing & Tech** *(0.68; 1,703)*
- **Defense & Security** *(0.63; 2,266)*
- **Apparel & Textiles** *(0.63; 358)*
- **Business & Financial Services** *(0.55; 6,279)*
- **Information Technology & Telecom.** *(0.51; 1,696)*
- **Computer & Electronic Product Mfg.** *(0.03; 17)*

### Transforming Clusters
- **Arts, Ent, Rec. & Visitor Industries** *(0.97; 3,389)*
- **Energy(Fossil & Renewable)** *(0.91; 4,200)*
- **Printing & Publishing** *(0.69; 1,007)*
- **Chemicals/Chemical-based Products** *(0.48; 500)*
- **Education & Knowledge Creation** *(0.35; 694)*
- **Glass & Ceramics** *(0.11; 15)*

Note: Glass & Ceramics cluster and Computer & Electronic Product Manufacturing sub-cluster have too few jobs.

*NOTE: The first number after each cluster represents its location quotient while the second number represents the number of total jobs (full and part time jobs by place of work) in that cluster in the region in 2014. The clusters are sorted in decreasing order by location quotient.*
Industry and occupation

Bubble chart interpretation

Mature Industries

Three industry clusters in the Central Upper Peninsula Planning and Development Region are in the Maturing stage: Primary Metal Mfg., Biomedical/Biotechnical (Life Sciences), Electrical Equipment, Appliance & Component Mfg. These industries are relatively concentrated, but their growth is trending downward. It is worth noting, however, that the Central Upper Peninsula Planning and Development Region may find it worthwhile to invest in efforts to shore up the concentration of these industries.

Transforming Industries

Transforming clusters capture the mix of industries that are experiencing relative decline and limited export capability. In the Central Upper Peninsula Planning and Development Region, Arts, Ent., Rec. & Visitor Industries; Printing & Publishing; Chemicals & Chemical Based Products; Energy; Education & Knowledge Creation and Glass & Ceramics are all Transforming clusters. Any amount of growth in these industries would require relatively large investments.

Star Industries

Star industry clusters are highly concentrated, exporting and still experiencing growth in the region. The most highly concentrated of the Star industry clusters in the Central Upper Peninsula Planning and Development Region is Mining. Its location quotient is 8.55, indicating that the cluster is 8 times more concentrated in the region compared to the U.S. The other strong clusters in the region are Fabricated Metal Product Mfg.; Manufacturing Supercluster; Forest & Wood Products; and Machinery Manufacturing.

Emerging Industries

Industry clusters that may be poised for future growth are classified as “Emerging.” There are nine Emerging clusters in total in the Central Upper Peninsula Planning and Development Region. Top five are Transportation & Logistics; Advanced Materials; Transportation Equipment Mfg.; Agribusiness, Food Processing & Technology; and Defense & Security. Other clusters include Apparel & Textiles; Business & Financial Services; IT & Telecomm.; and Computer & Elec. Prod. Mfg.

Source: EMSI Class of Worker 2014.4 (QCEW, non-QCEW, self-employed and extended proprietors).