

Summary Background

APPENDIX E

Location Quotient Analyses

The location quotient analysis is a measure of how concentrated an industry is in the local economy. Knowing the LQ score for various industries can help the municipality: 1) to determine which industries make the local economy unique, 2) to identify which industries the locality is exporting, 3) to identify emerging export industries that are starting to bring economic activity into the local market, and 4) to identify export industries that have the potential to threaten the region's economic base.

Location Quotient = (Local Industry Employment / Total Local Employment) / (National Industry Employment / Total National Employment)

A score of 1.0 means that the concentration of that industry in the county is equal to the concentration of that industry in the entire US. Industries with a score higher than 1.0 typically make up the local economy and can help determine what makes the local economy unique. However, it's also important to consider the LQ score in conjunction with the number of establishments and employees and wages to truly glean how important that industry is to the local economic base. Most localities strive to have many sectors with a LQ score greater than 1. This is an indicator that the economic base is diverse and not relying heavily on one or two industries (think Detroit and automobile manufacturing). LQ scores lower than 1 can help identify sectors to target for growth. The tables in this section only show NAICS Sub-Sectors that have a LQ score of 0.8 or higher. In addition, the tables provided by the Bureau of Labor Statistics do not include rows with suppressed data. This is common for smaller study areas in order to avoid the inclusion of identifying information. Although the data used in this analysis does not list the specific industries excluded for this reason, the Shift-share analysis found in the Appendix lists the industries excluded through the Michigan REAP project's data collection, which likely overlaps with the BLS's data.

The table below shows the top five industry sub-sectors for each of the 10 counties. This anecdotal analysis was completed by adding the annual employment LQ score with the annual wages location quotient. From this one can partially determine the region's most unique or important industry sub-sectors, or those that the region can cluster development around. This analysis also helps to discern the region's character. For instance, industries

that cater largely to tourism can be found in nearly every county, including Accommodation; Gasoline stations and Amusements, gambling, and recreation. Aside from the region's overall character, an individual county's character can be garnered by analyzing its economic bases. For example, Emmet County's top industries include Accommodation; Beverage and tobacco product manufacturing and Amusements, gambling, and recreation, largely indicating that Emmet is heavily focused on tourism. In contrast, Wexford's top industries include manufacturing NAICS subsectors and Forestry and logging.

Top 5 Industry Sub-Sectors by County

| | |
|---|--|
| Antrim | Benzie |
| NAICS 111 Crop production | NAICS 721 Accommodation |
| NAICS 333 Machinery manufacturing | NAICS 311 Food manufacturing |
| NAICS 721 Accommodation | NAICS 447 Gasoline stations |
| NAICS 999 Unclassified | NAICS 444 Building material and garden supply stores |
| NAICS 312 Beverage and tobacco product manufacturing | NAICS 713 Amusements, gambling, and recreation |
| Charlevoix | Emmet |
| NAICS 326 Plastics and rubber products manufacturing | NAICS 721 Accommodation |
| NAICS 721 Accommodation | NAICS 444 Building material and garden supply stores |
| NAICS 221 Utilities | NAICS 312 Beverage and tobacco product manufacturing |
| NAICS 334 Computer and electronic product manufacturing | NAICS 713 Amusements, gambling, and recreation |
| NAICS 713 Amusements, gambling, and recreation | NAICS 236 Construction of buildings |
| Grand Traverse | Kalkaska |
| NAICS 314 Textile product mills | NAICS 237 Heavy and civil engineering construction |
| NAICS 312 Beverage and tobacco product manufacturing | NAICS 332 Fabricated metal product manufacturing |
| NAICS 333 Machinery manufacturing | NAICS 111 Crop production |
| NAICS 444 Building material and garden supply stores | NAICS 999 Unclassified |
| NAICS 442 Furniture and home furnishings stores | NAICS 447 Gasoline stations |
| Leelanau | Manistee |
| NAICS 312 Beverage and tobacco product manufacturing | NAICS 113 Forestry and logging |
| NAICS 111 Crop production | NAICS 447 Gasoline stations |
| NAICS 236 Construction of buildings | NAICS 713 Amusements, gambling, and recreation |
| NAICS 999 Unclassified | NAICS 452 General merchandise stores |
| NAICS 453 Miscellaneous store retailers | NAICS 221 Utilities |
| Missaukee | Wexford |
| NAICS 112 Animal production and aquaculture | NAICS 113 Forestry and logging |
| NAICS 113 Forestry and logging | NAICS 326 Plastics and rubber products manufacturing |
| NAICS 321 Wood product manufacturing | NAICS 336 Transportation equipment manufacturing |
| NAICS 484 Truck transportation | NAICS 484 Truck transportation |
| NAICS 447 Gasoline stations | NAICS 332 Fabricated metal product manufacturing |

Antrim Location Quotients

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|--|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 111 Crop production | 19 | 213 | \$5,808,606 | \$524 | \$27,270 | 10.73 | 14.22 |
| NAICS 333 Machinery manufacturing | 6 | 276 | 15,082,210 | 1,051 | 54,629 | 6.76 | 8.79 |
| NAICS 721 Accommodation | 9 | 412 | 8,456,757 | 395 | 20,534 | 5.51 | 5.83 |
| NAICS 999 Unclassified | 8 | 23 | 648,124 | 534 | 27,777 | 4.84 | 3.86 |
| NAICS 312 Beverage and tobacco product manufacturing | 6 | 45 | 1,149,630 | 492 | 25,595 | 4.31 | 3.63 |
| NAICS 311 Food manufacturing | 5 | 200 | 6,049,656 | 581 | 30,223 | 3.37 | 3.58 |
| NAICS 236 Construction of buildings | 34 | 153 | 6,111,157 | 771 | 40,073 | 2.54 | 2.48 |
| NAICS 713 Amusements, gambling, and recreation | 10 | 155 | 4,237,070 | 524 | 27,263 | 2.45 | 4.9 |
| NAICS 445 Food and beverage stores | 14 | 253 | 5,874,848 | 446 | 23,205 | 2.28 | 3.51 |
| NAICS 447 Gasoline stations | 4 | 76 | 1,747,357 | 440 | 22,866 | 2.22 | 3.76 |
| NAICS 332 Fabricated metal product manufacturing | 7 | 119 | 5,284,304 | 855 | 44,468 | 2.21 | 2.89 |
| NAICS 811 Repair and maintenance | 22 | 89 | 3,720,848 | 800 | 41,612 | 1.82 | 2.79 |
| NAICS 813 Membership associations and organizations | 11 | 80 | 1,519,862 | 365 | 18,959 | 1.58 | 1.09 |
| NAICS 238 Specialty trade contractors | 49 | 259 | 11,234,665 | 835 | 43,405 | 1.51 | 1.88 |
| NAICS 444 Building material and garden supply stores | 9 | 65 | 1,722,686 | 509 | 26,469 | 1.38 | 1.8 |
| NAICS 237 Heavy and civil engineering construction | 7 | 49 | 1,805,457 | 716 | 37,226 | 1.26 | 1.03 |
| NAICS 722 Food services and drinking places | 41 | 543 | 9,698,521 | 344 | 17,872 | 1.25 | 1.86 |
| NAICS 453 Miscellaneous store retailers | 15 | 37 | 589,691 | 306 | 15,902 | 1.21 | 1.18 |
| NAICS 814 Private households | 12 | 12 | 349,527 | 572 | 29,747 | 1.16 | 2.09 |
| NAICS 424 Merchant wholesalers, nondurable goods | 6 | 69 | 3,390,004 | 943 | 49,012 | 0.88 | 1.01 |

Footnotes: This table excludes rows with suppressed employment and wages

Benzie Location Quotients

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|--|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 721 Accommodation | 14 | 693 | \$17,272,095 | \$479 | \$24,915 | 11.32 | 14.42 |
| NAICS 311 Food manufacturing | 7 | 301 | 13,662,778 | 872 | 45,341 | 6.2 | 9.78 |
| NAICS 447 Gasoline stations | 5 | 138 | 3,009,620 | 419 | 21,809 | 4.93 | 7.84 |
| NAICS 444 Building material and garden supply stores | 7 | 97 | 3,079,000 | 611 | 31,797 | 2.52 | 3.91 |
| NAICS 111 Crop production | 8 | 40 | 783,837 | 373 | 19,394 | 2.46 | 2.32 |
| NAICS 712 Museums, historical sites, zoos, and parks | 5 | 12 | 277,904 | 452 | 23,485 | 2.35 | 2.52 |
| NAICS 713 Amusements, gambling, and recreation | 7 | 94 | 2,443,116 | 501 | 26,060 | 1.82 | 3.42 |
| NAICS 522 Credit intermediation and related activities | 7 | 141 | 7,621,170 | 1,039 | 54,051 | 1.79 | 1.82 |
| NAICS 813 Membership associations and organizations | 12 | 63 | 1,605,387 | 493 | 25,652 | 1.52 | 1.4 |
| NAICS 453 Miscellaneous store retailers | 13 | 37 | 612,740 | 321 | 16,673 | 1.48 | 1.48 |
| NAICS 722 Food services and drinking places | 43 | 493 | 9,236,074 | 360 | 18,738 | 1.39 | 2.15 |
| NAICS 238 Specialty trade contractors | 50 | 189 | 7,600,503 | 772 | 40,161 | 1.35 | 1.54 |
| NAICS 442 Furniture and home furnishings stores | 5 | 18 | 373,396 | 390 | 20,275 | 1.29 | 1.17 |
| NAICS 999 Unclassified | 7 | 5 | 297,803 | 1,206 | 62,695 | 1.29 | 2.15 |
| NAICS 452 General merchandise stores | 8 | 111 | 2,663,221 | 462 | 24,029 | 1.23 | 1.97 |
| NAICS 811 Repair and maintenance | 13 | 45 | 1,686,615 | 721 | 37,480 | 1.13 | 1.53 |
| NAICS 441 Motor vehicle and parts dealers | 5 | 56 | 2,701,184 | 923 | 48,021 | 0.93 | 1.47 |
| NAICS 445 Food and beverage stores | 12 | 76 | 1,427,283 | 364 | 18,904 | 0.84 | 1.03 |
| NAICS 446 Health and personal care stores | 4 | 26 | 712,911 | 526 | 27,332 | 0.84 | 0.98 |

Footnotes: This table excludes rows with suppressed employment and wages

Charlevoix Location Quotients

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|---|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 326 Plastics and rubber products manufacturing | 3 | 971 | \$51,725,013 | \$1,024 | \$53,270 | 19.22 | 24.54 |
| NAICS 721 Accommodation | 16 | 857 | 29,832,813 | 669 | 34,811 | 6.02 | 8.28 |
| NAICS 221 Utilities | 5 | 167 | 18,109,651 | 2,083 | 108,333 | 4.4 | 5.56 |
| NAICS 334 Computer and electronic product manufacturing | 4 | 241 | 24,114,394 | 1,928 | 100,268 | 3.25 | 3.39 |
| NAICS 333 Machinery manufacturing | 7 | 178 | 9,520,896 | 1,026 | 53,363 | 2.29 | 2.23 |
| NAICS 332 Fabricated metal product manufacturing | 9 | 221 | 11,470,006 | 1,000 | 52,018 | 2.16 | 2.52 |
| NAICS 713 Amusements, gambling, and recreation | 27 | 258 | 8,301,588 | 620 | 32,218 | 2.14 | 3.87 |
| NAICS 237 Heavy and civil engineering construction | 9 | 156 | 8,996,413 | 1,107 | 57,546 | 2.11 | 2.07 |
| NAICS 447 Gasoline stations | 12 | 133 | 3,021,099 | 438 | 22,801 | 2.04 | 2.61 |
| NAICS 999 Unclassified | 13 | 17 | 503,490 | 575 | 29,910 | 1.88 | 1.21 |
| NAICS 236 Construction of buildings | 53 | 198 | 8,001,876 | 776 | 40,363 | 1.72 | 1.31 |
| NAICS 444 Building material and garden supply stores | 11 | 138 | 6,372,757 | 887 | 46,124 | 1.54 | 2.69 |
| NAICS 623 Nursing and residential care facilities | 11 | 355 | 10,887,080 | 590 | 30,682 | 1.53 | 1.84 |
| NAICS 531 Real estate | 26 | 168 | 5,386,997 | 616 | 32,034 | 1.44 | 0.97 |
| NAICS 445 Food and beverage stores | 24 | 240 | 5,465,146 | 439 | 22,819 | 1.13 | 1.31 |
| NAICS 453 Miscellaneous store retailers | 24 | 65 | 1,241,560 | 367 | 19,076 | 1.11 | 1 |
| NAICS 722 Food services and drinking places | 68 | 883 | 19,443,659 | 424 | 22,026 | 1.07 | 1.5 |
| NAICS 339 Miscellaneous manufacturing | 7 | 41 | 1,426,829 | 671 | 34,872 | 0.96 | 0.65 |
| NAICS 811 Repair and maintenance | 30 | 86 | 3,054,935 | 685 | 35,626 | 0.93 | 0.92 |
| NAICS 813 Membership associations and organizations | 21 | 89 | 2,665,440 | 576 | 29,977 | 0.92 | 0.77 |
| NAICS 238 Specialty trade contractors | 66 | 297 | 11,892,817 | 769 | 39,987 | 0.91 | 0.8 |
| NAICS 446 Health and personal care stores | 9 | 65 | 2,155,372 | 643 | 33,417 | 0.9 | 0.98 |
| NAICS 814 Private households | 11 | 16 | 585,760 | 700 | 36,420 | 0.81 | 1.41 |

Footnotes: This table excludes rows with suppressed employment and wages

Emmet Location Quotients

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|--|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 312 Beverage and tobacco product manufacturing | 8 | 147 | \$4,380,385 | \$575 | \$29,900 | 4.03 | 3.26 |
| NAICS 721 Accommodation | 26 | 1,044 | 29,718,283 | 547 | 28,464 | 3.99 | 4.82 |
| NAICS 444 Building material and garden supply stores | 20 | 523 | 20,527,401 | 755 | 39,237 | 3.18 | 5.06 |
| NAICS 236 Construction of buildings | 104 | 491 | 21,543,914 | 844 | 43,885 | 2.33 | 2.05 |
| NAICS 713 Amusements, gambling, and recreation | 31 | 512 | 16,267,409 | 611 | 31,746 | 2.31 | 4.43 |
| NAICS 442 Furniture and home furnishings stores | 16 | 109 | 3,058,802 | 542 | 28,192 | 1.82 | 1.86 |
| NAICS 453 Miscellaneous store retailers | 44 | 182 | 4,852,380 | 513 | 26,661 | 1.7 | 2.28 |
| NAICS 451 Sports, hobby, music instrument, book stores | 17 | 115 | 2,127,580 | 355 | 18,447 | 1.65 | 1.89 |
| NAICS 813 Membership associations and organizations | 35 | 289 | 10,209,143 | 681 | 35,387 | 1.63 | 1.72 |
| NAICS 323 Printing and related support activities | 9 | 79 | 3,154,665 | 767 | 39,890 | 1.47 | 1.64 |
| NAICS 452 General merchandise stores | 16 | 562 | 15,535,120 | 531 | 27,626 | 1.46 | 2.24 |
| NAICS 814 Private households | 34 | 52 | 1,421,374 | 530 | 27,555 | 1.43 | 2 |
| NAICS 722 Food services and drinking places | 100 | 2,073 | 41,940,699 | 389 | 20,231 | 1.36 | 1.9 |
| NAICS 238 Specialty trade contractors | 138 | 807 | 35,509,611 | 846 | 44,011 | 1.34 | 1.4 |
| NAICS 621 Ambulatory health care services | 107 | 1,287 | 81,987,199 | 1,226 | 63,729 | 1.32 | 1.86 |
| NAICS 445 Food and beverage stores | 33 | 508 | 12,931,043 | 490 | 25,476 | 1.31 | 1.82 |
| NAICS 337 Furniture and related product manufacturing | 5 | 60 | 2,362,000 | 752 | 39,095 | 1.23 | 1.45 |
| NAICS 441 Motor vehicle and parts dealers | 15 | 315 | 17,397,923 | 1,061 | 55,173 | 1.22 | 1.84 |
| NAICS 447 Gasoline stations | 9 | 126 | 3,110,579 | 475 | 24,720 | 1.05 | 1.57 |
| NAICS 311 Food manufacturing | 7 | 190 | 6,632,251 | 670 | 34,861 | 0.91 | 0.92 |
| NAICS 811 Repair and maintenance | 40 | 155 | 5,259,956 | 653 | 33,935 | 0.91 | 0.93 |
| NAICS 812 Personal and laundry services | 39 | 177 | 5,100,701 | 554 | 28,818 | 0.91 | 1.28 |
| NAICS 999 Unclassified | 16 | 15 | 410,104 | 517 | 26,892 | 0.9 | 0.57 |

Footnotes: This table excludes rows with suppressed employment and wages

Grand Traverse Location Quotients

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|--|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 314 Textile product mills | 9 | 360 | \$17,002,021 | \$907 | \$47,173 | 9.36 | 13.25 |
| NAICS 312 Beverage and tobacco product manufacturing | 19 | 378 | 15,112,730 | 768 | 39,937 | 3.85 | 3.79 |
| NAICS 333 Machinery manufacturing | 28 | 982 | 64,801,893 | 1,269 | 65,984 | 2.55 | 3 |
| NAICS 999 Unclassified | 47 | 101 | 3,142,411 | 600 | 31,190 | 2.26 | 1.49 |
| NAICS 444 Building material and garden supply stores | 41 | 892 | 30,637,793 | 660 | 34,344 | 2.02 | 2.55 |
| NAICS 721 Accommodation | 46 | 1,349 | 31,649,719 | 451 | 23,460 | 1.92 | 1.73 |
| NAICS 515 Broadcasting, except internet | 13 | 167 | 6,900,575 | 793 | 41,238 | 1.84 | 1.01 |
| NAICS 451 Sports, hobby, music instrument, book stores | 43 | 333 | 6,773,598 | 391 | 20,321 | 1.78 | 2.03 |
| NAICS 442 Furniture and home furnishings stores | 31 | 284 | 12,251,540 | 829 | 43,127 | 1.76 | 2.52 |
| NAICS 332 Fabricated metal product manufacturing | 29 | 885 | 45,837,156 | 997 | 51,823 | 1.75 | 1.99 |
| NAICS 453 Miscellaneous store retailers | 85 | 486 | 13,922,613 | 551 | 28,657 | 1.68 | 2.21 |
| NAICS 443 Electronics and appliance stores | 23 | 266 | 11,612,757 | 839 | 43,643 | 1.64 | 1.85 |
| NAICS 452 General merchandise stores | 30 | 1,637 | 46,543,684 | 547 | 28,432 | 1.58 | 2.26 |
| NAICS 447 Gasoline stations | 20 | 498 | 15,728,704 | 607 | 31,589 | 1.55 | 2.68 |
| NAICS 524 Insurance carriers and related activities | 61 | 1,218 | 92,148,925 | 1,454 | 75,630 | 1.49 | 1.63 |
| NAICS 211 Oil and gas extraction | 12 | 71 | 6,544,217 | 1,781 | 92,607 | 1.47 | 0.96 |
| NAICS 237 Heavy and civil engineering construction | 13 | 521 | 31,994,624 | 1,181 | 61,410 | 1.42 | 1.45 |
| NAICS 221 Utilities | 12 | 259 | 26,340,200 | 1,955 | 101,634 | 1.38 | 1.59 |
| NAICS 337 Furniture and related product manufacturing | 13 | 182 | 8,125,194 | 859 | 44,644 | 1.38 | 1.69 |
| NAICS 115 Agriculture and forestry support activities | 7 | 182 | 8,038,837 | 849 | 44,169 | 1.36 | 2.2 |
| NAICS 311 Food manufacturing | 34 | 751 | 38,577,357 | 988 | 51,397 | 1.34 | 1.81 |
| NAICS 621 Ambulatory health care services | 229 | 3,463 | 237,580,163 | 1,319 | 68,604 | 1.32 | 1.82 |
| NAICS 236 Construction of buildings | 158 | 701 | 32,737,449 | 898 | 46,690 | 1.23 | 1.05 |
| NAICS 331 Primary metal manufacturing | 3 | 162 | 7,778,854 | 924 | 48,067 | 1.23 | 1.07 |

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|---|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 446 Health and personal care stores | 54 | 436 | 17,285,695 | 763 | 39,654 | 1.22 | 1.55 |
| NAICS 425 Electronic markets and agents and brokers | 33 | 218 | 14,300,574 | 1,260 | 65,524 | 1.2 | 1 |
| NAICS 811 Repair and maintenance | 123 | 552 | 23,490,829 | 818 | 42,537 | 1.2 | 1.4 |
| NAICS 611 Educational services | 44 | 1,169 | 38,765,568 | 638 | 33,152 | 1.16 | 0.94 |
| NAICS 441 Motor vehicle and parts dealers | 39 | 796 | 40,054,582 | 968 | 50,325 | 1.15 | 1.43 |
| NAICS 339 Miscellaneous manufacturing | 25 | 239 | 9,139,344 | 736 | 38,280 | 1.14 | 0.83 |
| NAICS 722 Food services and drinking places | 224 | 4,652 | 100,051,697 | 414 | 21,508 | 1.14 | 1.53 |
| NAICS 813 Membership associations and organizations | 56 | 547 | 15,358,331 | 540 | 28,073 | 1.14 | 0.88 |
| NAICS 445 Food and beverage stores | 63 | 1,168 | 31,792,843 | 524 | 27,224 | 1.12 | 1.51 |
| NAICS 323 Printing and related support activities | 13 | 158 | 7,219,872 | 881 | 45,792 | 1.09 | 1.27 |
| NAICS 448 Clothing and clothing accessories stores | 71 | 483 | 9,131,279 | 363 | 18,899 | 1.09 | 1.1 |
| NAICS 525 Funds, trusts, and other financial vehicles | 5 | 6 | 172,793 | 562 | 29,204 | 1.06 | 0.27 |
| NAICS 511 Publishing industries, except internet | 15 | 272 | 15,378,626 | 1,087 | 56,522 | 1.05 | 0.57 |
| NAICS 624 Social assistance | 59 | 1,405 | 32,654,157 | 447 | 23,240 | 1.02 | 1.21 |
| NAICS 518 Data processing, hosting and related services | 13 | 119 | 7,214,088 | 1,169 | 60,793 | 1.01 | 0.61 |
| NAICS 522 Credit intermediation and related activities | 49 | 888 | 73,212,984 | 1,585 | 82,424 | 0.98 | 1.15 |
| NAICS 812 Personal and laundry services | 69 | 510 | 14,963,353 | 564 | 29,321 | 0.98 | 1.27 |
| NAICS 326 Plastics and rubber products manufacturing | 7 | 235 | 10,369,448 | 848 | 44,078 | 0.94 | 0.97 |
| NAICS 713 Amusements, gambling, and recreation | 45 | 558 | 12,355,995 | 426 | 22,150 | 0.94 | 1.13 |
| NAICS 113 Forestry and logging | 5 | 17 | 769,617 | 875 | 45,495 | 0.93 | 1.15 |
| NAICS 238 Specialty trade contractors | 210 | 1,507 | 72,118,360 | 921 | 47,869 | 0.93 | 0.96 |
| NAICS 517 Telecommunications | 20 | 211 | 15,282,674 | 1,393 | 72,430 | 0.86 | 0.85 |
| NAICS 213 Support activities for mining | 20 | 100 | 7,415,104 | 1,425 | 74,089 | 0.85 | 0.88 |

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|---|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 335 Electrical equipment and appliance mfg. | 5 | 115 | 5,424,714 | 907 | 47,171 | 0.84 | 0.73 |
| NAICS 487 Scenic and sightseeing transportation | 5 | 10 | 212,224 | 430 | 22,339 | 0.84 | 0.64 |
| NAICS 454 Nonstore retailers | 23 | 160 | 6,755,185 | 811 | 42,176 | 0.81 | 0.59 |
| NAICS 492 Couriers and messengers | 8 | 226 | 10,999,621 | 937 | 48,725 | 0.81 | 1.1 |

Footnotes: This table excludes rows with suppressed employment and wages

Kalkaska

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|--|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 332 Fabricated metal product manufacturing | 8 | 258 | \$11,165,789 | \$831 | \$43,222 | 6.07 | 5.24 |
| NAICS 237 Heavy and civil engineering construction | 8 | 171 | 17,084,189 | 1,927 | 100,201 | 5.56 | 8.4 |
| NAICS 111 Crop production | 4 | 57 | 1,566,159 | 531 | 27,598 | 3.63 | 3.29 |
| NAICS 999 Unclassified | 6 | 11 | 564,367 | 958 | 49,797 | 2.93 | 2.89 |
| NAICS 447 Gasoline stations | 9 | 65 | 1,305,862 | 384 | 19,988 | 2.4 | 2.41 |
| NAICS 441 Motor vehicle and parts dealers | 12 | 126 | 5,923,441 | 906 | 47,136 | 2.17 | 2.28 |
| NAICS 811 Repair and maintenance | 19 | 78 | 2,985,659 | 738 | 38,360 | 2.02 | 1.92 |
| NAICS 238 Specialty trade contractors | 23 | 269 | 19,824,805 | 1,416 | 73,653 | 1.98 | 2.85 |
| NAICS 444 Building material and garden supply stores | 4 | 62 | 2,003,593 | 627 | 32,579 | 1.67 | 1.8 |
| NAICS 445 Food and beverage stores | 6 | 139 | 3,532,354 | 488 | 25,397 | 1.58 | 1.81 |
| NAICS 423 Merchant wholesalers, durable goods | 6 | 117 | 8,663,242 | 1,430 | 74,363 | 1.27 | 1.36 |
| NAICS 484 Truck transportation | 6 | 49 | 2,284,913 | 894 | 46,473 | 1.12 | 1.13 |
| NAICS 236 Construction of buildings | 12 | 53 | 2,086,313 | 756 | 39,303 | 1.11 | 0.73 |
| NAICS 517 Telecommunications | 4 | 20 | 1,387,212 | 1,356 | 70,536 | 0.97 | 0.84 |

Footnotes: This table excludes rows with suppressed employment and wages

Leelanau

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|--|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 312 Beverage and tobacco product manufacturing | 19 | 263 | \$7,396,677 | \$541 | \$28,106 | 20.84 | 17.68 |
| NAICS 111 Crop production | 32 | 173 | 5,145,799 | 574 | 29,831 | 7.21 | 9.52 |
| NAICS 236 Construction of buildings | 54 | 326 | 14,646,104 | 865 | 44,984 | 4.47 | 4.49 |
| NAICS 999 Unclassified | 10 | 21 | 946,876 | 881 | 45,817 | 3.65 | 4.26 |
| NAICS 453 Miscellaneous store retailers | 29 | 103 | 2,043,162 | 381 | 19,837 | 2.78 | 3.09 |
| NAICS 721 Accommodation | 17 | 212 | 5,751,700 | 523 | 27,195 | 2.34 | 3 |
| NAICS 311 Food manufacturing | 6 | 146 | 3,697,541 | 487 | 25,311 | 2.03 | 1.65 |
| NAICS 814 Private households | 15 | 24 | 774,944 | 612 | 31,847 | 1.91 | 3.5 |
| NAICS 337 Furniture and related product manufacturing | 4 | 32 | 1,729,827 | 1,034 | 53,777 | 1.89 | 3.43 |
| NAICS 713 Amusements, gambling, and recreation | 20 | 129 | 3,083,663 | 461 | 23,982 | 1.69 | 2.7 |
| NAICS 445 Food and beverage stores | 26 | 222 | 5,106,261 | 442 | 23,010 | 1.65 | 2.31 |
| NAICS 722 Food services and drinking places | 61 | 804 | 18,632,334 | 445 | 23,165 | 1.53 | 2.71 |
| NAICS 623 Nursing and residential care facilities | 4 | 200 | 6,701,531 | 645 | 33,522 | 1.35 | 2.13 |
| NAICS 448 Clothing and clothing accessories stores | 15 | 75 | 1,688,830 | 433 | 22,518 | 1.31 | 1.94 |
| NAICS 115 Agriculture and forestry support activities | 4 | 20 | 734,698 | 701 | 36,431 | 1.17 | 1.91 |
| NAICS 451 Sports, hobby, music instrument, book stores | 6 | 28 | 620,468 | 424 | 22,028 | 1.16 | 1.77 |
| NAICS 813 Membership associations and organizations | 19 | 67 | 1,928,061 | 555 | 28,885 | 1.09 | 1.05 |
| NAICS 811 Repair and maintenance | 22 | 61 | 1,888,902 | 593 | 30,839 | 1.03 | 1.07 |
| NAICS 447 Gasoline stations | 5 | 41 | 1,037,874 | 482 | 25,059 | 0.99 | 1.69 |

Footnotes: This table excludes rows with suppressed employment and wages

Manistee

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|--|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 113 Forestry and logging | 3 | 23 | \$989,029 | \$812 | \$42,236 | 8.92 | 11.43 |
| NAICS 447 Gasoline stations | 7 | 190 | 4,309,940 | 436 | 22,684 | 4.16 | 5.68 |
| NAICS 452 General merchandise stores | 13 | 333 | 7,962,991 | 460 | 23,907 | 2.27 | 2.99 |
| NAICS 713 Amusements, gambling, and recreation | 8 | 181 | 5,107,943 | 544 | 28,299 | 2.14 | 3.62 |
| NAICS 424 Merchant wholesalers, nondurable goods | 5 | 203 | 7,153,490 | 677 | 35,224 | 1.94 | 1.31 |
| NAICS 721 Accommodation | 21 | 194 | 3,185,677 | 315 | 16,393 | 1.94 | 1.35 |
| NAICS 813 Membership associations and organizations | 18 | 106 | 1,626,739 | 296 | 15,395 | 1.56 | 0.72 |
| NAICS 221 Utilities | 3 | 39 | 4,006,676 | 1,967 | 102,298 | 1.47 | 1.87 |
| NAICS 441 Motor vehicle and parts dealers | 11 | 130 | 5,720,181 | 844 | 43,889 | 1.32 | 1.57 |
| NAICS 454 Nonstore retailers | 4 | 32 | 1,280,476 | 778 | 40,436 | 1.15 | 0.86 |
| NAICS 111 Crop production | 6 | 28 | 586,699 | 397 | 20,646 | 1.06 | 0.88 |
| NAICS 444 Building material and garden supply stores | 10 | 62 | 1,935,242 | 598 | 31,088 | 0.99 | 1.24 |
| NAICS 236 Construction of buildings | 24 | 79 | 3,213,083 | 783 | 40,715 | 0.98 | 0.8 |
| NAICS 999 Unclassified | 4 | 6 | 141,248 | 423 | 22,013 | 0.95 | 0.52 |
| NAICS 811 Repair and maintenance | 19 | 61 | 2,409,035 | 764 | 39,709 | 0.94 | 1.11 |
| NAICS 814 Private households | 10 | 13 | 228,464 | 338 | 17,574 | 0.94 | 0.84 |
| NAICS 442 Furniture and home furnishings stores | 6 | 20 | 736,265 | 702 | 36,509 | 0.88 | 1.17 |
| NAICS 237 Heavy and civil engineering construction | 5 | 42 | 2,065,045 | 946 | 49,168 | 0.81 | 0.72 |

Footnotes: This table excludes rows with suppressed employment and wages

Missaukee

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|--|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 112 Animal production and aquaculture | 24 | 369 | \$12,598,125 | \$656 | \$34,110 | 61.79 | 82.08 |
| NAICS 113 Forestry and logging | 7 | 46 | 2,055,055 | 851 | 44,274 | 38.41 | 57.1 |
| NAICS 321 Wood product manufacturing | 7 | 215 | 9,807,547 | 877 | 45,581 | 23.53 | 35.57 |
| NAICS 484 Truck transportation | 19 | 155 | 7,232,765 | 897 | 46,638 | 4.5 | 6.12 |
| NAICS 447 Gasoline stations | 4 | 68 | 1,367,272 | 388 | 20,156 | 3.21 | 4.33 |
| NAICS 623 Nursing and residential care facilities | 9 | 193 | 5,270,132 | 525 | 27,318 | 2.55 | 3.27 |
| NAICS 452 General merchandise stores | 9 | 155 | 4,789,508 | 595 | 30,933 | 2.27 | 4.32 |
| NAICS 326 Plastics and rubber products manufacturing | 3 | 30 | 1,188,369 | 768 | 39,945 | 1.82 | 2.06 |
| NAICS 811 Repair and maintenance | 19 | 53 | 1,988,840 | 726 | 37,763 | 1.75 | 2.2 |
| NAICS 814 Private households | 9 | 10 | 93,199 | 181 | 9,398 | 1.55 | 0.82 |
| NAICS 522 Credit intermediation and related activities | 4 | 91 | 4,581,605 | 967 | 50,301 | 1.53 | 1.33 |
| NAICS 441 Motor vehicle and parts dealers | 6 | 57 | 2,864,410 | 971 | 50,474 | 1.25 | 1.89 |
| NAICS 238 Specialty trade contractors | 31 | 119 | 4,935,648 | 798 | 41,476 | 1.12 | 1.22 |
| NAICS 624 Social assistance | 13 | 100 | 2,014,010 | 386 | 20,057 | 1.11 | 1.39 |
| NAICS 999 Unclassified | 1 | 3 | 83,526 | 567 | 29,480 | 1.02 | 0.73 |
| NAICS 813 Membership associations and organizations | 5 | 26 | 313,382 | 232 | 12,053 | 0.83 | 0.33 |

Footnotes: This table excludes rows with suppressed employment and wages

Wexford

| NAICS Sub-Sector | Annual Establishments | Annual Average Employment | Total Annual Wages | Annual Average Weekly Wage | Annual Wages per Employee | Annual Average Employment Location Quotient | Total Annual Wages Location Quotient |
|--|-----------------------|---------------------------|--------------------|----------------------------|---------------------------|---|--------------------------------------|
| NAICS 113 Forestry and logging | 13 | 107 | \$4,992,500 | \$899 | \$46,768 | 21.15 | 30.28 |
| NAICS 326 Plastics and rubber products manufacturing | 6 | 926 | 44,966,491 | 934 | 48,547 | 13.32 | 17.05 |
| NAICS 336 Transportation equipment manufacturing | 4 | 1,285 | 63,819,581 | 955 | 49,671 | 7.8 | 7.27 |
| NAICS 332 Fabricated metal product manufacturing | 10 | 343 | 19,006,563 | 1,065 | 55,386 | 2.43 | 3.34 |
| NAICS 721 Accommodation | 15 | 457 | 10,148,088 | 427 | 22,194 | 2.33 | 2.25 |
| NAICS 484 Truck transportation | 22 | 335 | 19,066,309 | 1,093 | 56,858 | 2.3 | 3.52 |
| NAICS 452 General merchandise stores | 15 | 659 | 16,811,376 | 491 | 25,527 | 2.29 | 3.31 |
| NAICS 333 Machinery manufacturing | 14 | 235 | 11,675,625 | 956 | 49,736 | 2.2 | 2.19 |
| NAICS 442 Furniture and home furnishings stores | 5 | 90 | 3,127,847 | 669 | 34,786 | 2.01 | 2.61 |
| NAICS 444 Building material and garden supply stores | 13 | 229 | 7,337,336 | 615 | 31,994 | 1.86 | 2.47 |
| NAICS 492 Couriers and messengers | 5 | 142 | 4,862,557 | 660 | 34,304 | 1.82 | 1.98 |
| NAICS 447 Gasoline stations | 8 | 155 | 3,672,945 | 454 | 23,633 | 1.73 | 2.54 |
| NAICS 811 Repair and maintenance | 37 | 212 | 9,016,777 | 816 | 42,449 | 1.66 | 2.17 |
| NAICS 999 Unclassified | 8 | 18 | 611,889 | 642 | 33,376 | 1.45 | 1.17 |
| NAICS 115 Agriculture and forestry support activities | 6 | 44 | 1,562,299 | 683 | 35,507 | 1.19 | 1.73 |
| NAICS 443 Electronics and appliance stores | 5 | 53 | 2,340,109 | 849 | 44,153 | 1.17 | 1.51 |
| NAICS 813 Membership associations and organizations | 14 | 149 | 1,960,790 | 253 | 13,174 | 1.12 | 0.45 |
| NAICS 713 Amusements, gambling, and recreation | 13 | 180 | 2,798,417 | 299 | 15,554 | 1.09 | 1.04 |
| NAICS 446 Health and personal care stores | 14 | 103 | 3,144,670 | 586 | 30,457 | 1.04 | 1.14 |
| NAICS 451 Sports, hobby, music instrument, book stores | 9 | 53 | 821,895 | 297 | 15,459 | 1.02 | 1 |
| NAICS 517 Telecommunications | 3 | 62 | 4,529,559 | 1,401 | 72,862 | 0.91 | 1.03 |
| NAICS 722 Food services and drinking places | 67 | 919 | 14,809,952 | 310 | 16,118 | 0.81 | 0.92 |

Footnotes: This table excludes rows with suppressed employment and wages