

# Industry Cluster Identification

for 2 Michigan Counties

Emsi Q2 2021 Data Set

June 2021



Michigan

# Parameters

Regions:

Code	Description	Code	Description
26005	Allegan County, MI	26139	Ottawa County, MI

Datarun: 2021.2 - QCEW Employees, Non-QCEW Employees, and Self-Employed

## Executive Summary

- Your highest ranked cluster is Information Technology and Analytical Instruments, with a score of 91 (out of 100) points.
- Your average cluster score is 41 (out of 100) points. This is *not* a benchmark against other regions; it only compares the relative performance of your clusters to each other. Clusters ranked higher than 41 are above average for your region, while clusters ranked lower than 41 are below average.
- Top clusters must have a score of at least 49, while bottom clusters must have a score of 33 or less. These thresholds are determined by applying the average deviation (plus or minus 8) to the average cluster score 41.

■ 8 Top Clusters   
 ■ 42 Average Clusters   
 ■ 13 Bottom Clusters



## Cluster Rankings

### Information Technology and Analytical Instruments

91

You have 8 industries in this cluster:

NAICS	Industry	Jobs	Score
334412	Bare Printed Circuit Board Manufacturing	288	39
334416	Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing	158	38
334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing	5,612	100
334419	Other Electronic Component Manufacturing	21	40
334510	Electromedical and Electrotherapeutic Apparatus Manufacturing	45	51
334512	Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use	458	42
334519	Other Measuring and Controlling Device Manufacturing	53	40
511210	Software Publishers	27	40

### Local Education and Training

78

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
611110	Elementary and Secondary Schools	1,462	37
611519	Other Technical and Trade Schools	14	34

611610	Fine Arts Schools	164	29
611692	Automobile Driving Schools	81	29
903611	Elementary and Secondary Schools (Local Government)	9,193	86

## Biopharmaceuticals

72

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
325411	Medicinal and Botanical Manufacturing	35	44
325412	Pharmaceutical Preparation Manufacturing	3,627	73

## Furniture

69

You have 7 industries in this cluster:

NAICS	Industry	Jobs	Score
337110	Wood Kitchen Cabinet and Countertop Manufacturing	71	33
337122	Nonupholstered Wood Household Furniture Manufacturing	139	36
337124	Metal Household Furniture Manufacturing	50	35
337127	Institutional Furniture Manufacturing	361	34
337211	Wood Office Furniture Manufacturing	3,392	85
337214	Office Furniture (except Wood) Manufacturing	3,687	65
337215	Showcase, Partition, Shelving, and Locker Manufacturing	735	44

## Electric Power Generation and Transmission

67

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
221111	Hydroelectric Power Generation	22	58

221112	Fossil Fuel Electric Power Generation	559	67

## Lighting and Electrical Equipment

60

You have 4 industries in this cluster:

NAICS	Industry	Jobs	Score
335121	Residential Electric Lighting Fixture Manufacturing	49	34
335122	Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing	52	33
335311	Power, Distribution, and Specialty Transformer Manufacturing	127	40
335911	Storage Battery Manufacturing	1,103	64

## Recreational and Small Electric Goods

53

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
339920	Sporting and Athletic Goods Manufacturing	56	35
339999	All Other Miscellaneous Manufacturing	771	54

## Automotive

53

You have 11 industries in this cluster:

NAICS	Industry	Jobs	Score
331511	Iron Foundries	11	32
331513	Steel Foundries (except Investment)	32	31
331524	Aluminum Foundries (except Die-Casting)	371	41
332114	Custom Roll Forming	1,611	81
336310	Motor Vehicle Gasoline Engine and Engine Parts Manufacturing	249	45
336320	Motor Vehicle Electrical and Electronic Equipment Manufacturing	455	38

336350	Motor Vehicle Transmission and Power Train Parts Manufacturing	363	44
336360	Motor Vehicle Seating and Interior Trim Manufacturing	2,060	44
336370	Motor Vehicle Metal Stamping	996	43
336390	Other Motor Vehicle Parts Manufacturing	43	33
336999	All Other Transportation Equipment Manufacturing	20	34

## Local Utilities

48

You have 6 industries in this cluster:

NAICS	Industry	Jobs	Score
221122	Electric Power Distribution	19	49
221210	Natural Gas Distribution	88	46
221320	Sewage Treatment Facilities	57	42
454310	Fuel Dealers	70	34
517311	Wired Telecommunications Carriers	214	57
562910	Remediation Services	25	34

## Plastics

46

You have 6 industries in this cluster:

NAICS	Industry	Jobs	Score
325211	Plastics Material and Resin Manufacturing	23	46
326113	Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing	184	41
326121	Unlaminated Plastics Profile Shape Manufacturing	87	40
326130	Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing	17	34
326150	Urethane and Other Foam Product (except Polystyrene) Manufacturing	27	35
326199	All Other Plastics Product Manufacturing	2,395	47

## Financial Services

You have 8 industries in this cluster:

NAICS	Industry	Jobs	Score
522120	Savings Institutions	18	36
522190	Other Depository Credit Intermediation	102	41
522292	Real Estate Credit	53	39
523120	Securities Brokerage	158	54
523910	Miscellaneous Intermediation	18	40
523920	Portfolio Management	78	43
523930	Investment Advice	135	42
523999	Miscellaneous Financial Investment Activities	29	41

## Vulcanized and Fired Materials

44

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
327215	Glass Product Manufacturing Made of Purchased Glass	1,294	44

## Food Processing and Manufacturing

44

You have 13 industries in this cluster:

NAICS	Industry	Jobs	Score
311119	Other Animal Food Manufacturing	101	40
311411	Frozen Fruit, Juice, and Vegetable Manufacturing	400	42
311412	Frozen Specialty Food Manufacturing	622	43
311421	Fruit and Vegetable Canning	62	32
311511	Fluid Milk Manufacturing	448	43
311513	Cheese Manufacturing	35	43
311514	Dry, Condensed, and Evaporated Dairy Product Manufacturing	761	55
311520	Ice Cream and Frozen Dessert Manufacturing	26	40

311920	Coffee and Tea Manufacturing	157	35
312111	Soft Drink Manufacturing	185	37
312120	Breweries	360	38
312130	Wineries	122	32
424510	Grain and Field Bean Merchant Wholesalers	38	59

## Local Government Services

44

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
903999	Local Government, Excluding Education and Hospitals	5,285	44

## Paper and Packaging

44

You have 3 industries in this cluster:

NAICS	Industry	Jobs	Score
322130	Paperboard Mills	304	49
322211	Corrugated and Solid Fiber Box Manufacturing	262	34
322212	Folding Paperboard Box Manufacturing	435	46

## Metalworking Technology

44

You have 10 industries in this cluster:

NAICS	Industry	Jobs	Score
332313	Plate Work Manufacturing	95	33
332721	Precision Turned Product Manufacturing	282	36
332811	Metal Heat Treating	16	33
332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers	627	34



332813	Electroplating, Plating, Polishing, Anodizing, and Coloring	159	34
333511	Industrial Mold Manufacturing	167	37
333514	Special Die and Tool, Die Set, Jig, and Fixture Manufacturing	744	41
333515	Cutting Tool and Machine Tool Accessory Manufacturing	43	37
333517	Machine Tool Manufacturing	257	39
333519	Rolling Mill and Other Metalworking Machinery Manufacturing	894	60

## Downstream Chemical Products

43

You have 4 industries in this cluster:

NAICS	Industry	Jobs	Score
325510	Paint and Coating Manufacturing	345	46
325612	Polish and Other Sanitation Good Manufacturing	57	38
325991	Custom Compounding of Purchased Resins	51	36
325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	35	35

## Printing Services

43

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
323111	Commercial Printing (except Screen and Books)	606	44
323113	Commercial Screen Printing	49	31

## Footwear

43

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
316110	Leather and Hide Tanning and Finishing	57	43

You have 12 industries in this cluster:

NAICS	Industry	Jobs	Score
481219	Other Nonscheduled Air Transportation	13	37
482110	Rail transportation	37	40
484121	General Freight Trucking, Long-Distance, Truckload	1,573	44
484230	Specialized Freight (except Used Goods) Trucking, Long-Distance	355	42
485210	Interurban and Rural Bus Transportation	24	29
485510	Charter Bus Industry	35	32
488190	Other Support Activities for Air Transportation	60	37
488490	Other Support Activities for Road Transportation	95	37
488510	Freight Transportation Arrangement	74	36
488991	Packing and Crating	78	39
488999	All Other Support Activities for Transportation	24	31
491110	Postal Service	15	32

# Production Technology and Heavy Machinery

You have 17 industries in this cluster:

NAICS	Industry	Jobs	Score
332912	Fluid Power Valve and Hose Fitting Manufacturing	569	45
332991	Ball and Roller Bearing Manufacturing	55	39
333111	Farm Machinery and Equipment Manufacturing	121	36
333243	Sawmill, Woodworking, and Paper Machinery Manufacturing	21	37
333249	Other Industrial Machinery Manufacturing	383	38
333318	Other Commercial and Service Industry Machinery Manufacturing	370	37
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	121	33
333611	Turbine and Turbine Generator Set Units Manufacturing	42	44

333912	Air and Gas Compressor Manufacturing	19	36
333914	Measuring, Dispensing, and Other Pumping Equipment Manufacturing	13	33
333922	Conveyor and Conveying Equipment Manufacturing	514	47
333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing	23	38
333993	Packaging Machinery Manufacturing	385	45
333994	Industrial Process Furnace and Oven Manufacturing	29	38
333995	Fluid Power Cylinder and Actuator Manufacturing	96	38
333999	All Other Miscellaneous General Purpose Machinery Manufacturing	253	38
339991	Gasket, Packing, and Sealing Device Manufacturing	59	36

## Oil and Gas Production and Transportation

40

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
211120	Crude Petroleum Extraction	18	40
486210	Pipeline Transportation of Natural Gas	30	40

## Communications Equipment and Services

40

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	217	40

## Business Services

40

You have 21 industries in this cluster:

NAICS	Industry	Jobs	Score
485320	Limousine Service	37	29

518210	Data Processing, Hosting, and Related Services	37	37
541199	All Other Legal Services	24	37
541214	Payroll Services	117	35
541310	Architectural Services	165	42
541320	Landscape Architectural Services	29	34
541330	Engineering Services	873	43
541511	Custom Computer Programming Services	434	42
541512	Computer Systems Design Services	381	42
541519	Other Computer Related Services	74	38
541611	Administrative Management and General Management Consulting Services	232	37
541612	Human Resources Consulting Services	67	36
541614	Process, Physical Distribution, and Logistics Consulting Services	188	37
541618	Other Management Consulting Services	71	38
541690	Other Scientific and Technical Consulting Services	44	36
541990	All Other Professional, Scientific, and Technical Services	696	38
551112	Offices of Other Holding Companies	68	41
551114	Corporate, Subsidiary, and Regional Managing Offices	266	60
561210	Facilities Support Services	36	30
561311	Employment Placement Agencies	175	31
561330	Professional Employer Organizations	296	31

## Education and Knowledge Creation

39

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
541715	Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)	171	43
611310	Colleges, Universities, and Professional Schools	2,106	31
611699	All Other Miscellaneous Schools and Instruction	56	29

611710	Educational Support Services	95	30
902612	Colleges, Universities, and Professional Schools (State Government)	4,442	43

## Construction Products and Services

39

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
236210	Industrial Building Construction	193	40
237130	Power and Communication Line and Related Structures Construction	172	39
237990	Other Heavy and Civil Engineering Construction	105	37
327331	Concrete Block and Brick Manufacturing	203	42
332996	Fabricated Pipe and Pipe Fitting Manufacturing	76	35

## Local Financial Services

39

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
522110	Commercial Banking	936	37
522130	Credit Unions	158	36
524210	Insurance Agencies and Brokerages	1,102	43
541213	Tax Preparation Services	134	32
561440	Collection Agencies	33	37

## Insurance Services

39

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
524126	Direct Property and Casualty Insurance Carriers	27	44

524298	All Other Insurance Related Activities	37	36
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## State Government Services

39

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
902999	State Government, Excluding Education and Hospitals	353	39

## Distribution and Electronic Commerce

38

You have 35 industries in this cluster:

NAICS	Industry	Jobs	Score
423210	Furniture Merchant Wholesalers	160	36
423220	Home Furnishing Merchant Wholesalers	23	30
423430	Computer and Computer Peripheral Equipment and Software Merchant Wholesalers	54	39
423450	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers	26	36
423510	Metal Service Centers and Other Metal Merchant Wholesalers	56	34
423610	Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers	260	40
423690	Other Electronic Parts and Equipment Merchant Wholesalers	22	37
423810	Construction and Mining (except Oil Well) Machinery and Equipment Merchant Wholesalers	103	40
423820	Farm and Garden Machinery and Equipment Merchant Wholesalers	353	39
423830	Industrial Machinery and Equipment Merchant Wholesalers	248	37
423840	Industrial Supplies Merchant Wholesalers	62	41
423850	Service Establishment Equipment and Supplies Merchant Wholesalers	35	40
423860	Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers	22	43
423910	Sporting and Recreational Goods and Supplies Merchant Wholesalers	28	36
424120	Stationery and Office Supplies Merchant Wholesalers	30	36
424130	Industrial and Personal Service Paper Merchant Wholesalers	39	45

424210	Drugs and Druggists' Sundries Merchant Wholesalers	114	50
424470	Meat and Meat Product Merchant Wholesalers	13	33
424480	Fresh Fruit and Vegetable Merchant Wholesalers	57	36
424590	Other Farm Product Raw Material Merchant Wholesalers	89	37
424610	Plastics Materials and Basic Forms and Shapes Merchant Wholesalers	17	44
424690	Other Chemical and Allied Products Merchant Wholesalers	15	45
424710	Petroleum Bulk Stations and Terminals	85	47
424720	Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals)	255	55
424910	Farm Supplies Merchant Wholesalers	238	38
424930	Flower, Nursery Stock, and Florists' Supplies Merchant Wholesalers	385	35
424950	Paint, Varnish, and Supplies Merchant Wholesalers	39	34
424990	Other Miscellaneous Nondurable Goods Merchant Wholesalers	86	34
425120	Wholesale Trade Agents and Brokers	378	33
454110	Electronic Shopping and Mail-Order Houses	250	34
493110	General Warehousing and Storage	347	39
532412	Construction, Mining, and Forestry Machinery and Equipment Rental and Leasing	46	41
532490	Other Commercial and Industrial Machinery and Equipment Rental and Leasing	17	35
561499	All Other Business Support Services	263	34
561910	Packaging and Labeling Services	437	39

## Upstream Metal Manufacturing

38

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
331210	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel	11	36
331221	Rolled Steel Shape Manufacturing	15	36
331318	Other Aluminum Rolling, Drawing, and Extruding	382	37
332119	Metal Crown, Closure, and Other Metal Stamping (except Automotive)	814	41

332613	Spring Manufacturing	340	35

## Water Transportation

38

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
336612	Boat Building	284	38

## Environmental Services

38

You have 3 industries in this cluster:

NAICS	Industry	Jobs	Score
562119	Other Waste Collection	42	36
562219	Other Nonhazardous Waste Treatment and Disposal	37	43
562920	Materials Recovery Facilities	15	30

## Livestock Processing

38

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
311611	Animal (except Poultry) Slaughtering	1,458	46
311612	Meat Processed from Carcasses	1,816	32
311613	Rendering and Meat Byproduct Processing	15	36
311615	Poultry Processing	125	35
424520	Livestock Merchant Wholesalers	122	35

## Downstream Metal Products

37

You have 6 industries in this cluster:



NAICS	Industry	Jobs	Score
332216	Saw Blade and Handtool Manufacturing	199	38
332311	Prefabricated Metal Building and Component Manufacturing	173	38
332312	Fabricated Structural Metal Manufacturing	164	37
332323	Ornamental and Architectural Metal Work Manufacturing	39	37
332510	Hardware Manufacturing	114	38
332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	324	37

## Medical Devices

37

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
339114	Dental Equipment and Supplies Manufacturing	68	37

## Local Real Estate, Construction, and Development

37

You have 50 industries in this cluster:

NAICS	Industry	Jobs	Score
236115	New Single-Family Housing Construction (except For-Sale Builders)	861	36
236116	New Multifamily Housing Construction (except For-Sale Builders)	35	33
236117	New Housing For-Sale Builders	190	36
236118	Residential Remodelers	945	37
236220	Commercial and Institutional Building Construction	607	41
237110	Water and Sewer Line and Related Structures Construction	148	33
237210	Land Subdivision	28	31
237310	Highway, Street, and Bridge Construction	225	41
238110	Poured Concrete Foundation and Structure Contractors	775	40
238120	Structural Steel and Precast Concrete Contractors	33	34
238130	Framing Contractors	135	33

238140	Masonry Contractors	215	35
238150	Glass and Glazing Contractors	72	35
238160	Roofing Contractors	344	36
238170	Siding Contractors	119	32
238190	Other Foundation, Structure, and Building Exterior Contractors	71	37
238210	Electrical Contractors and Other Wiring Installation Contractors	1,273	38
238220	Plumbing, Heating, and Air-Conditioning Contractors	1,008	39
238290	Other Building Equipment Contractors	56	36
238310	Drywall and Insulation Contractors	300	33
238320	Painting and Wall Covering Contractors	449	34
238330	Flooring Contractors	188	34
238340	Tile and Terrazzo Contractors	114	32
238350	Finish Carpentry Contractors	279	34
238390	Other Building Finishing Contractors	142	35
238910	Site Preparation Contractors	951	38
238990	All Other Specialty Trade Contractors	803	42
327320	Ready-Mix Concrete Manufacturing	109	39
327390	Other Concrete Product Manufacturing	106	35
332322	Sheet Metal Work Manufacturing	479	38
337212	Custom Architectural Woodwork and Millwork Manufacturing	75	35
423310	Lumber, Plywood, Millwork, and Wood Panel Merchant Wholesalers	312	40
423320	Brick, Stone, and Related Construction Material Merchant Wholesalers	22	36
423330	Roofing, Siding, and Insulation Material Merchant Wholesalers	69	42
423390	Other Construction Material Merchant Wholesalers	30	36
423720	Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers	95	35
423730	Warm Air Heating and Air-Conditioning Equipment and Supplies Merchant Wholesalers	72	41
444110	Home Centers	972	35
444120	Paint and Wallpaper Stores	16	36
444190	Other Building Material Dealers	155	36

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531110	Lessors of Residential Buildings and Dwellings	281	35
531120	Lessors of Nonresidential Buildings (except Miniwarehouses)	97	36
531190	Lessors of Other Real Estate Property	99	35
531210	Offices of Real Estate Agents and Brokers	325	36
531311	Residential Property Managers	311	35
531312	Nonresidential Property Managers	70	33
531320	Offices of Real Estate Appraisers	28	32
531390	Other Activities Related to Real Estate	118	35
541370	Surveying and Mapping (except Geophysical) Services	109	39
562991	Septic Tank and Related Services	55	35

## Nonmetal Mining

36

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
212321	Construction Sand and Gravel Mining	47	36

## Aerospace Vehicles and Defense

36

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
336412	Aircraft Engine and Engine Parts Manufacturing	164	36

## Local Industrial Products and Services

35

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
332710	Machine Shops	959	31
423930	Recyclable Material Merchant Wholesalers	658	41
423990	Other Miscellaneous Durable Goods Merchant Wholesalers	117	36
532310	General Rental Centers	39	31
811219	Other Electronic and Precision Equipment Repair and Maintenance	23	35

## Marketing, Design, and Publishing

35

You have 11 industries in this cluster:

NAICS	Industry	Jobs	Score
511120	Periodical Publishers	34	33
511130	Book Publishers	153	42
541410	Interior Design Services	69	31
541420	Industrial Design Services	120	35
541430	Graphic Design Services	87	30
541490	Other Specialized Design Services	24	30
541613	Marketing Consulting Services	133	36
541810	Advertising Agencies	66	34
541820	Public Relations Agencies	35	34
541850	Outdoor Advertising	19	33
541890	Other Services Related to Advertising	38	34

## Local Motor Vehicle Products and Services

35

You have 22 industries in this cluster:

NAICS	Industry	Jobs	Score
423110	Automobile and Other Motor Vehicle Merchant Wholesalers	169	35
423120	Motor Vehicle Supplies and New Parts Merchant Wholesalers	193	39

423130	Tire and Tube Merchant Wholesalers	119	36
423140	Motor Vehicle Parts (Used) Merchant Wholesalers	82	34
441110	New Car Dealers	810	37
441120	Used Car Dealers	212	35
441210	Recreational Vehicle Dealers	148	37
441222	Boat Dealers	302	36
441228	Motorcycle, ATV, and All Other Motor Vehicle Dealers	63	34
441310	Automotive Parts and Accessories Stores	344	32
441320	Tire Dealers	78	35
447110	Gasoline Stations with Convenience Stores	836	30
447190	Other Gasoline Stations	76	30
488410	Motor Vehicle Towing	69	33
811111	General Automotive Repair	947	39
811113	Automotive Transmission Repair	59	34
811118	Other Automotive Mechanical and Electrical Repair and Maintenance	39	33
811121	Automotive Body, Paint, and Interior Repair and Maintenance	291	33
811122	Automotive Glass Replacement Shops	41	33
811191	Automotive Oil Change and Lubrication Shops	210	31
811192	Car Washes	393	33
811198	All Other Automotive Repair and Maintenance	110	33

## Local Logistical Services

34

You have 10 industries in this cluster:

NAICS	Industry	Jobs	Score
484110	General Freight Trucking, Local	654	29
484122	General Freight Trucking, Long-Distance, Less Than Truckload	436	38
484210	Used Household and Office Goods Moving	53	35

484220	Specialized Freight (except Used Goods) Trucking, Local	143	37
492110	Couriers and Express Delivery Services	89	32
492210	Local Messengers and Local Delivery	27	28
531130	Lessors of Miniwarehouses and Self-Storage Units	63	33
532120	Truck, Utility Trailer, and RV (Recreational Vehicle) Rental and Leasing	46	34
562111	Solid Waste Collection	355	40
621910	Ambulance Services	84	33

## Local Retailing of Clothing and General Merchandise

34

You have 12 industries in this cluster:

NAICS	Industry	Jobs	Score
448120	Women's Clothing Stores	200	32
448130	Children's and Infants' Clothing Stores	35	28
448140	Family Clothing Stores	95	28
448150	Clothing Accessories Stores	35	29
448190	Other Clothing Stores	45	31
448210	Shoe Stores	27	29
448310	Jewelry Stores	72	30
451130	Sewing, Needlework, and Piece Goods Stores	52	28
452210	Department Stores	343	31
452311	Warehouse Clubs and Supercenters	2,426	36
452319	All Other General Merchandise Stores	414	32
453310	Used Merchandise Stores	377	33

## Wood Products

34

You have 6 industries in this cluster:

NAICS	Industry	Jobs	Score
321113	Sawmills	23	33
321211	Hardwood Veneer and Plywood Manufacturing	45	34
321219	Reconstituted Wood Product Manufacturing	25	35
321918	Other Millwork (including Flooring)	65	32
321920	Wood Container and Pallet Manufacturing	336	34
321999	All Other Miscellaneous Wood Product Manufacturing	162	36

## Local Household Goods and Services

34

You have 13 industries in this cluster:

NAICS	Industry	Jobs	Score
423710	Hardware Merchant Wholesalers	58	33
442110	Furniture Stores	264	35
442210	Floor Covering Stores	213	37
442291	Window Treatment Stores	22	32
442299	All Other Home Furnishings Stores	107	29
443141	Household Appliance Stores	138	34
444130	Hardware Stores	418	35
444210	Outdoor Power Equipment Stores	54	31
444220	Nursery, Garden Center, and Farm Supply Stores	134	28
453110	Florists	102	29
561730	Landscaping Services	1,514	35
561740	Carpet and Upholstery Cleaning Services	45	33
811420	Reupholstery and Furniture Repair	22	29

## Federal Government Services

34

You have 3 industries in this cluster:

NAICS	Industry	Jobs	Score
901149	US Postal Service	510	36
901199	Federal Government, Civilian, Excluding Postal Service	130	38
901200	Federal Government, Military	710	31

## Local Health Services

34

You have 28 industries in this cluster:

NAICS	Industry	Jobs	Score
339116	Dental Laboratories	15	31
446110	Pharmacies and Drug Stores	580	36
621111	Offices of Physicians (except Mental Health Specialists)	714	28
621112	Offices of Physicians, Mental Health Specialists	84	38
621210	Offices of Dentists	1,177	38
621310	Offices of Chiropractors	280	32
621320	Offices of Optometrists	143	34
621330	Offices of Mental Health Practitioners (except Physicians)	145	35
621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists	374	32
621391	Offices of Podiatrists	31	34
621399	Offices of All Other Miscellaneous Health Practitioners	73	35
621410	Family Planning Centers	32	33
621420	Outpatient Mental Health and Substance Abuse Centers	69	32
621492	Kidney Dialysis Centers	59	34
621493	Freestanding Ambulatory Surgical and Emergency Centers	64	44
621498	All Other Outpatient Care Centers	109	32
621610	Home Health Care Services	425	30
621999	All Other Miscellaneous Ambulatory Health Care Services	73	43
622110	General Medical and Surgical Hospitals	1,411	40
623110	Nursing Care Facilities (Skilled Nursing Facilities)	1,215	36



623210	Residential Intellectual and Developmental Disability Facilities	53	29
623220	Residential Mental Health and Substance Abuse Facilities	23	31
623311	Continuing Care Retirement Communities	530	29
623312	Assisted Living Facilities for the Elderly	1,833	32
623990	Other Residential Care Facilities	153	33
812210	Funeral Homes and Funeral Services	97	32
812220	Cemeteries and Crematories	21	33
903622	Hospitals (Local Government)	914	25

## Textile Manufacturing

33

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
314120	Curtain and Linen Mills	16	34
314994	Rope, Cordage, Twine, Tire Cord, and Tire Fabric Mills	23	33

## Local Community and Civic Organizations

33

You have 15 industries in this cluster:

NAICS	Industry	Jobs	Score
624110	Child and Youth Services	172	31
624120	Services for the Elderly and Persons with Disabilities	849	32
624190	Other Individual and Family Services	278	32
624210	Community Food Services	53	30
624230	Emergency and Other Relief Services	32	36
813110	Religious Organizations	3,087	33
813211	Grantmaking Foundations	60	40
813219	Other Grantmaking and Giving Services	54	34

813311	Human Rights Organizations	23	30
813312	Environment, Conservation and Wildlife Organizations	42	29
813319	Other Social Advocacy Organizations	101	31
813410	Civic and Social Organizations	251	30
813910	Business Associations	117	39
813930	Labor Unions and Similar Labor Organizations	87	31
813990	Other Similar Organizations (except Business, Professional, Labor, and Political Organizations)	67	37

## Leather and Related Products

32

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
314910	Textile Bag and Canvas Mills	92	32

## Apparel

32

You have 3 industries in this cluster:

NAICS	Industry	Jobs	Score
314999	All Other Miscellaneous Textile Product Mills	61	32
315280	Other Cut and Sew Apparel Manufacturing	16	34
315990	Apparel Accessories and Other Apparel Manufacturing	11	30

## Video Production and Distribution

32

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
512110	Motion Picture and Video Production	46	32

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
113310	Logging	36	31

 Local Personal Services (Non-Medical)

You have 17 industries in this cluster:

NAICS	Industry	Jobs	Score
446120	Cosmetics, Beauty Supplies, and Perfume Stores	66	29
446199	All Other Health and Personal Care Stores	152	34
453910	Pet and Pet Supplies Stores	32	29
453998	All Other Miscellaneous Store Retailers (except Tobacco Stores)	245	32
532289	All Other Consumer Goods Rental	18	32
541921	Photography Studios, Portrait	97	31
541940	Veterinary Services	334	31
611511	Cosmetology and Barber Schools	35	35
624410	Child Day Care Services	846	29
811490	Other Personal and Household Goods Repair and Maintenance	237	34
812111	Barber Shops	60	30
812112	Beauty Salons	686	31
812113	Nail Salons	53	29
812199	Other Personal Care Services	118	27
812310	Coin-Operated Laundries and Drycleaners	27	28
812910	Pet Care (except Veterinary) Services	231	31
812990	All Other Personal Services	244	33

 Performing Arts

You have 6 industries in this cluster:

NAICS	Industry	Jobs	Score
711110	Theater Companies and Dinner Theaters	34	30
711130	Musical Groups and Artists	20	28
711310	Promoters of Performing Arts, Sports, and Similar Events with Facilities	80	34
711320	Promoters of Performing Arts, Sports, and Similar Events without Facilities	22	31
711410	Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures	24	30
711510	Independent Artists, Writers, and Performers	210	30

## Local Entertainment and Media

31

You have 10 industries in this cluster:

NAICS	Industry	Jobs	Score
443142	Electronics Stores	213	32
451110	Sporting Goods Stores	197	30
451120	Hobby, Toy, and Game Stores	117	31
451140	Musical Instrument and Supplies Stores	28	30
451211	Book Stores	39	28
511110	Newspaper Publishers	79	31
512131	Motion Picture Theaters (except Drive-Ins)	81	28
515111	Radio Networks	10	36
515112	Radio Stations	64	33
532282	Video Tape and Disc Rental	24	29

## Agricultural Inputs and Services

29

You have 7 industries in this cluster:

NAICS	Industry	Jobs	Score
111000	Crop Production	4,487	22
112000	Animal Production	2,417	41

115112	Soil Preparation, Planting, and Cultivating	25	29
115113	Crop Harvesting, Primarily by Machine	63	37
115114	Postharvest Crop Activities (except Cotton Ginning)	220	33
115115	Farm Labor Contractors and Crew Leaders	682	31
115210	Support Activities for Animal Production	63	30

## Hospitality and Tourism

29

You have 16 industries in this cluster:

NAICS	Industry	Jobs	Score
453920	Art Dealers	21	30
487210	Scenic and Sightseeing Transportation, Water	17	29
561510	Travel Agencies	77	32
561591	Convention and Visitors Bureaus	12	32
711211	Sports Teams and Clubs	37	31
711212	Racetracks	38	29
711219	Other Spectator Sports	28	29
712110	Museums	36	30
712120	Historical Sites	37	30
713920	Skiing Facilities	111	29
713930	Marinas	217	35
713990	All Other Amusement and Recreation Industries	130	29
721110	Hotels (except Casino Hotels) and Motels	412	24
721191	Bed-and-Breakfast Inns	23	29
721199	All Other Traveler Accommodation	16	30
721211	RV (Recreational Vehicle) Parks and Campgrounds	96	32

## Local Commercial Services

29

You have 24 industries in this cluster:

NAICS	Industry	Jobs	Score
339950	Sign Manufacturing	76	34
453210	Office Supplies and Stationery Stores	40	29
541110	Offices of Lawyers	301	39
541211	Offices of Certified Public Accountants	223	37
541219	Other Accounting Services	213	33
541350	Building Inspection Services	50	39
541380	Testing Laboratories	221	40
541620	Environmental Consulting Services	75	35
541922	Commercial Photography	27	31
561110	Office Administrative Services	105	29
561320	Temporary Help Services	1,590	1
561410	Document Preparation Services	23	28
561439	Other Business Service Centers (including Copy Shops)	12	32
561612	Security Guards and Patrol Services	19	28
561710	Exterminating and Pest Control Services	78	35
561720	Janitorial Services	3,550	35
561790	Other Services to Buildings and Dwellings	98	30
561990	All Other Support Services	569	45
811212	Computer and Office Machine Repair and Maintenance	46	34
811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	344	34
811411	Home and Garden Equipment Repair and Maintenance	29	30
811412	Appliance Repair and Maintenance	15	31
812320	Drycleaning and Laundry Services (except Coin-Operated)	91	29
812332	Industrial Launderers	110	34

## Trailers, Motor Homes, and Appliances

28

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
336212	Truck Trailer Manufacturing	36	28

## Local Hospitality Establishments

28

You have 12 industries in this cluster:

NAICS	Industry	Jobs	Score
453220	Gift, Novelty, and Souvenir Stores	166	29
611620	Sports and Recreation Instruction	162	26
713910	Golf Courses and Country Clubs	357	27
713940	Fitness and Recreational Sports Centers	188	32
713950	Bowling Centers	57	30
722310	Food Service Contractors	910	30
722320	Caterers	78	28
722410	Drinking Places (Alcoholic Beverages)	518	34
722511	Full-Service Restaurants	3,777	20
722513	Limited-Service Restaurants	4,402	33
722514	Cafeterias, Grill Buffets, and Buffets	34	29
722515	Snack and Nonalcoholic Beverage Bars	522	26

## Local Food and Beverage Processing and Distribution








26

You have 15 industries in this cluster:

NAICS	Industry	Jobs	Score
311811	Retail Bakeries	64	28
311812	Commercial Bakeries	220	33
424410	General Line Grocery Merchant Wholesalers	148	36
424430	Dairy Product (except Dried or Canned) Merchant Wholesalers	202	37
424490	Other Grocery and Related Products Merchant Wholesalers	113	31

445110	Supermarkets and Other Grocery (except Convenience) Stores	1,500	20
445120	Convenience Stores	94	29
445210	Meat Markets	75	30
445291	Baked Goods Stores	20	29
445299	All Other Specialty Food Stores	111	30
445310	Beer, Wine, and Liquor Stores	159	29
446191	Food (Health) Supplement Stores	33	28
453991	Tobacco Stores	32	30
454210	Vending Machine Operators	33	31
454390	Other Direct Selling Establishments	122	31

## Clusters That Don't Appear in Your Region

-  Tobacco
-  Upstream Chemical Products
-  Music and Sound Recording
-  Metal Mining
-  Jewelry and Precious Metals
-  Coal Mining
-  Fishing and Fishing Products



The clusters in this analysis are defined according to the methodology of Harvard Business School's U.S. Cluster Mapping Project. Cluster icons used with permission of the U.S. Cluster Mapping Project (<http://clustermapping.us>).

Source: U.S. Cluster Mapping (<http://clustermapping.us>), Institute for Strategy and Competitiveness, Harvard Business School. Copyright © 2014 President and Fellows of Harvard College. All rights reserved. Research funded in part by the U.S. Department of Commerce, Economic Development Administration.

Emsi has made modifications to the Harvard clusters in order to integrate our additional data.



# Appendix A - Data Sources and Calculations

## Input-Output Data

The input-output model in this report is Emsi's gravitational flows multi-regional social account matrix model (MR-SAM). It is based on data from the Census Bureau's Current Population Survey and American Community Survey; as well as the Bureau of Economic Analysis' National Income and Product Accounts, Input-Output Make and Use Tables, and Gross State Product data. In addition, several Emsi in-house data sets are used, as well as data from Oak Ridge National Labs on the cost of transportation between counties.

## Industry Data

Emsi industry data have various sources depending on the class of worker. (1) For QCEW Employees, Emsi primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.

## Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

## Shift Share

Shift share is a standard regional analysis method that attempts to determine how much of regional job growth can be attributed to national trends and how much is due to unique regional factors.

## State Data Sources

This report uses state data from the following agencies: Michigan Department of Labor and Economic Growth, Bureau of Labor Market Information and Strategic Initiatives