

# Industry Cluster Identification

for 2 Michigan Counties

Emsi Q3 2019 Data Set

September 2019

Michigan

# Parameters

## Regions

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

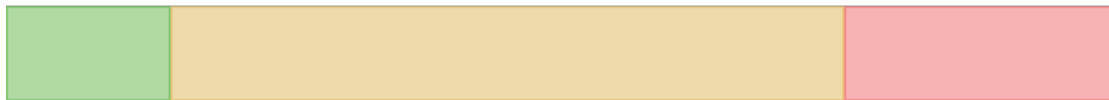
## Datarun

2019.3 - QCEW Employees

## Executive Summary

- Your highest ranked cluster is Information Technology and Analytical Instruments, with a score of 88 (out of 100) points.
- Your average cluster score is 38 (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 38 are above average for your region, while clusters ranked lower than 38 are below average.
- Top clusters must have a score of at least 45, while bottom clusters must have a score of 31 or less. These thresholds are determined by applying the average deviation (plus or minus 7) to the average cluster score 38.

■ 9 Top Clusters   
 ■ 37 Average Clusters   
 ■ 15 Bottom Clusters



## Cluster Rankings

### Information Technology and Analytical Instruments

88

You have 8 industries in this cluster:

NAICS	Industry	Jobs	Score
334412	Bare Printed Circuit Board Manufacturing	321	35
334416	Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing	123	33
334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing	5,395	100
334419	Other Electronic Component Manufacturing	77	31
334510	Electromedical and Electrotherapeutic Apparatus Manufacturing	65	49
334512	Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use	412	36
334519	Other Measuring and Controlling Device Manufacturing	249	37
511210	Software Publishers	40	36

### Furniture

61

You have 6 industries in this cluster:

NAICS	Industry	Jobs	Score
337110	Wood Kitchen Cabinet and Countertop Manufacturing	61	30
337122	Nonupholstered Wood Household Furniture Manufacturing	154	32

337127	Institutional Furniture Manufacturing	432	33
337211	Wood Office Furniture Manufacturing	3,402	77
337214	Office Furniture (except Wood) Manufacturing	3,717	54
337215	Showcase, Partition, Shelving, and Locker Manufacturing	568	37

## Electric Power Generation and Transmission

57

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
221112	Fossil Fuel Electric Power Generation	431	57
221121	Electric Bulk Power Transmission and Control	30	53

## Automotive

51

You have 9 industries in this cluster:

NAICS	Industry	Jobs	Score
331513	Steel Foundries (except Investment)	30	30
331524	Aluminum Foundries (except Die-Casting)	403	42
332114	Custom Roll Forming	1,640	72
336320	Motor Vehicle Electrical and Electronic Equipment Manufacturing	413	35
336350	Motor Vehicle Transmission and Power Train Parts Manufacturing	513	41
336360	Motor Vehicle Seating and Interior Trim Manufacturing	2,732	52
336370	Motor Vehicle Metal Stamping	853	33
336390	Other Motor Vehicle Parts Manufacturing	192	35
336999	All Other Transportation Equipment Manufacturing	73	34

## Biopharmaceuticals

51

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
325411	Medicinal and Botanical Manufacturing	72	36
325412	Pharmaceutical Preparation Manufacturing	3,220	51

## 💡 Lighting and Electrical Equipment

48

You have 6 industries in this cluster:

NAICS	Industry	Jobs	Score
335121	Residential Electric Lighting Fixture Manufacturing	55	33
335122	Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing	89	30
335311	Power, Distribution, and Specialty Transformer Manufacturing	58	29
335313	Switchgear and Switchboard Apparatus Manufacturing	225	37
335911	Storage Battery Manufacturing	771	56
335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing	51	32

## ☑️ Local Education and Training

47

You have 6 industries in this cluster:

NAICS	Industry	Jobs	Score
611110	Elementary and Secondary Schools	1,376	32
611519	Other Technical and Trade Schools	21	31
611610	Fine Arts Schools	84	26
611692	Automobile Driving Schools	80	26
624310	Vocational Rehabilitation Services	22	30
903611	Elementary and Secondary Schools (Local Government)	8,083	51

## 📦 Plastics

47

You have 6 industries in this cluster:

NAICS	Industry	Jobs	Score
326113	Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing	126	31
326121	Unlaminated Plastics Profile Shape Manufacturing	98	43
326130	Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing	181	33
326150	Urethane and Other Foam Product (except Polystyrene) Manufacturing	56	31
326160	Plastics Bottle Manufacturing	13	38
326199	All Other Plastics Product Manufacturing	2,664	49

## Vulcanized and Fired Materials

46

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
326220	Rubber and Plastics Hoses and Belting Manufacturing	53	32
327215	Glass Product Manufacturing Made of Purchased Glass	1,472	47

## Recreational and Small Electric Goods

45

You have 3 industries in this cluster:

NAICS	Industry	Jobs	Score
339920	Sporting and Athletic Goods Manufacturing	47	28
339992	Musical Instrument Manufacturing	26	30
339999	All Other Miscellaneous Manufacturing	579	47

## Financial Services

44

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
522190	Other Depository Credit Intermediation	111	35
522292	Real Estate Credit	59	38

523120	Securities Brokerage	130	59
523920	Portfolio Management	43	39
523930	Investment Advice	95	41

## Local Utilities

44

You have 6 industries in this cluster:

NAICS	Industry	Jobs	Score
221122	Electric Power Distribution	35	46
221210	Natural Gas Distribution	100	58
454310	Fuel Dealers	64	35
517311	Wired Telecommunications Carriers	222	43
562212	Solid Waste Landfill	56	31
562910	Remediation Services	14	43

## Education and Knowledge Creation

43

You have 4 industries in this cluster:

NAICS	Industry	Jobs	Score
541715	Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)	152	42
611310	Colleges, Universities, and Professional Schools	962	37
611699	All Other Miscellaneous Schools and Instruction	20	30
902612	Colleges, Universities, and Professional Schools (State Government)	3,049	46

## Local Government Services

43

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
903999	Local Government, Excluding Education and Hospitals	5,228	43

## Metalworking Technology

42

You have 10 industries in this cluster:

NAICS	Industry	Jobs	Score
332313	Plate Work Manufacturing	177	34
332721	Precision Turned Product Manufacturing	356	37
332811	Metal Heat Treating	11	32
332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers	738	34
332813	Electroplating, Plating, Polishing, Anodizing, and Coloring	115	31
333511	Industrial Mold Manufacturing	173	35
333514	Special Die and Tool, Die Set, Jig, and Fixture Manufacturing	924	42
333515	Cutting Tool and Machine Tool Accessory Manufacturing	54	40
333517	Machine Tool Manufacturing	276	37
333519	Rolling Mill and Other Metalworking Machinery Manufacturing	883	56

## Aerospace Vehicles and Defense

41

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
336412	Aircraft Engine and Engine Parts Manufacturing	300	41

## State Government Services

40

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
902999	State Government, Excluding Education and Hospitals	546	40



You have 18 industries in this cluster:

NAICS	Industry	Jobs	Score
332912	Fluid Power Valve and Hose Fitting Manufacturing	634	44
332991	Ball and Roller Bearing Manufacturing	59	36
333111	Farm Machinery and Equipment Manufacturing	71	34
333120	Construction Machinery Manufacturing	34	33
333243	Sawmill, Woodworking, and Paper Machinery Manufacturing	31	35
333249	Other Industrial Machinery Manufacturing	380	38
333318	Other Commercial and Service Industry Machinery Manufacturing	376	37
333413	Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing	26	34
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	213	35
333611	Turbine and Turbine Generator Set Units Manufacturing	41	35
333618	Other Engine Equipment Manufacturing	16	36
333912	Air and Gas Compressor Manufacturing	52	33
333922	Conveyor and Conveying Equipment Manufacturing	510	44
333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing	18	36
333993	Packaging Machinery Manufacturing	367	45
333995	Fluid Power Cylinder and Actuator Manufacturing	25	30
333999	All Other Miscellaneous General Purpose Machinery Manufacturing	272	36
339991	Gasket, Packing, and Sealing Device Manufacturing	31	36

 Water Transportation

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
336612	Boat Building	527	40

You have 21 industries in this cluster:

NAICS	Industry	Jobs	Score
485320	Limousine Service	10	29
518210	Data Processing, Hosting, and Related Services	39	31
541214	Payroll Services	135	34
541310	Architectural Services	141	43
541320	Landscape Architectural Services	18	29
541330	Engineering Services	770	42
541511	Custom Computer Programming Services	367	38
541512	Computer Systems Design Services	310	38
541519	Other Computer Related Services	39	35
541611	Administrative Management and General Management Consulting Services	128	38
541612	Human Resources Consulting Services	63	34
541614	Process, Physical Distribution, and Logistics Consulting Services	108	31
541618	Other Management Consulting Services	46	34
541690	Other Scientific and Technical Consulting Services	27	36
541990	All Other Professional, Scientific, and Technical Services	671	39
551112	Offices of Other Holding Companies	55	40
551114	Corporate, Subsidiary, and Regional Managing Offices	382	55
561210	Facilities Support Services	24	29
561311	Employment Placement Agencies	83	42
561330	Professional Employer Organizations	243	26
561421	Telephone Answering Services	11	26

Food Processing and Manufacturing

You have 13 industries in this cluster:

NAICS	Industry	Jobs	Score
311119	Other Animal Food Manufacturing	32	35
311411	Frozen Fruit, Juice, and Vegetable Manufacturing	224	39
311412	Frozen Specialty Food Manufacturing	691	38
311421	Fruit and Vegetable Canning	324	30
311511	Fluid Milk Manufacturing	327	33
311513	Cheese Manufacturing	127	37
311514	Dry, Condensed, and Evaporated Dairy Product Manufacturing	739	53
311520	Ice Cream and Frozen Dessert Manufacturing	10	34
311920	Coffee and Tea Manufacturing	202	34
312111	Soft Drink Manufacturing	196	34
312120	Breweries	431	36
312130	Wineries	133	30
424510	Grain and Field Bean Merchant Wholesalers	43	65

## Upstream Metal Manufacturing

39

You have 4 industries in this cluster:

NAICS	Industry	Jobs	Score
331221	Rolled Steel Shape Manufacturing	31	36
331318	Other Aluminum Rolling, Drawing, and Extruding	452	37
332119	Metal Crown, Closure, and Other Metal Stamping (except Automotive)	992	42
332613	Spring Manufacturing	455	35

## Local Financial Services

39

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
522110	Commercial Banking	990	39

522130	Credit Unions	114	31
524210	Insurance Agencies and Brokerages	846	41
541213	Tax Preparation Services	100	27
561440	Collection Agencies	44	29

## Livestock Processing

39

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
311611	Animal (except Poultry) Slaughtering	1,415	39
311612	Meat Processed from Carcasses	1,717	40
311613	Rendering and Meat Byproduct Processing	40	34
311615	Poultry Processing	117	32
424520	Livestock Merchant Wholesalers	93	31

## Transportation and Logistics

39

You have 7 industries in this cluster:

NAICS	Industry	Jobs	Score
484121	General Freight Trucking, Long-Distance, Truckload	1,375	40
484230	Specialized Freight (except Used Goods) Trucking, Long-Distance	305	39
485210	Interurban and Rural Bus Transportation	35	26
488190	Other Support Activities for Air Transportation	48	32
488490	Other Support Activities for Road Transportation	70	33
488510	Freight Transportation Arrangement	57	32
488991	Packing and Crating	20	33

## Paper and Packaging

38

You have 4 industries in this cluster:

NAICS	Industry	Jobs	Score
322130	Paperboard Mills	127	44
322211	Corrugated and Solid Fiber Box Manufacturing	438	37
322212	Folding Paperboard Box Manufacturing	268	39
322230	Stationery Product Manufacturing	47	37

## Footwear

38

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
316110	Leather and Hide Tanning and Finishing	154	38

## Insurance Services

37

You have 3 industries in this cluster:

NAICS	Industry	Jobs	Score
524126	Direct Property and Casualty Insurance Carriers	27	40
524127	Direct Title Insurance Carriers	16	41
524298	All Other Insurance Related Activities	16	30

## Construction Products and Services

36

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
236210	Industrial Building Construction	142	39
237130	Power and Communication Line and Related Structures Construction	148	37
237990	Other Heavy and Civil Engineering Construction	92	35
327331	Concrete Block and Brick Manufacturing	127	36

332996	Fabricated Pipe and Pipe Fitting Manufacturing	110	31
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## Environmental Services

36

You have 3 industries in this cluster:

NAICS	Industry	Jobs	Score
562211	Hazardous Waste Treatment and Disposal	22	29
562219	Other Nonhazardous Waste Treatment and Disposal	49	40
562920	Materials Recovery Facilities	30	33

## Distribution and Electronic Commerce

36

You have 32 industries in this cluster:

NAICS	Industry	Jobs	Score
423210	Furniture Merchant Wholesalers	157	34
423220	Home Furnishing Merchant Wholesalers	21	32
423430	Computer and Computer Peripheral Equipment and Software Merchant Wholesalers	23	51
423440	Other Commercial Equipment Merchant Wholesalers	15	37
423510	Metal Service Centers and Other Metal Merchant Wholesalers	71	29
423610	Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers	252	38
423690	Other Electronic Parts and Equipment Merchant Wholesalers	53	39
423810	Construction and Mining (except Oil Well) Machinery and Equipment Merchant Wholesalers	107	38
423820	Farm and Garden Machinery and Equipment Merchant Wholesalers	347	36
423830	Industrial Machinery and Equipment Merchant Wholesalers	220	36
423840	Industrial Supplies Merchant Wholesalers	39	37
423850	Service Establishment Equipment and Supplies Merchant Wholesalers	47	37
423910	Sporting and Recreational Goods and Supplies Merchant Wholesalers	25	35
424130	Industrial and Personal Service Paper Merchant Wholesalers	89	39

424210	Drugs and Druggists' Sundries Merchant Wholesalers	213	46
424310	Piece Goods, Notions, and Other Dry Goods Merchant Wholesalers	22	36
424470	Meat and Meat Product Merchant Wholesalers	47	27
424480	Fresh Fruit and Vegetable Merchant Wholesalers	60	33
424590	Other Farm Product Raw Material Merchant Wholesalers	33	29
424710	Petroleum Bulk Stations and Terminals	205	47
424720	Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals)	103	39
424910	Farm Supplies Merchant Wholesalers	284	36
424930	Flower, Nursery Stock, and Florists' Supplies Merchant Wholesalers	416	31
424950	Paint, Varnish, and Supplies Merchant Wholesalers	43	32
424990	Other Miscellaneous Nondurable Goods Merchant Wholesalers	83	31
425120	Wholesale Trade Agents and Brokers	572	29
454110	Electronic Shopping and Mail-Order Houses	149	31
493110	General Warehousing and Storage	50	32
532412	Construction, Mining, and Forestry Machinery and Equipment Rental and Leasing	70	38
532490	Other Commercial and Industrial Machinery and Equipment Rental and Leasing	77	35
561499	All Other Business Support Services	212	34
561910	Packaging and Labeling Services	648	39

## T Marketing, Design, and Publishing

36

You have 9 industries in this cluster:

NAICS	Industry	Jobs	Score
511120	Periodical Publishers	26	28
511130	Book Publishers	157	43
519190	All Other Information Services	44	32
541410	Interior Design Services	26	30
541420	Industrial Design Services	133	35

541430	Graphic Design Services	26	31
541613	Marketing Consulting Services	84	34
541810	Advertising Agencies	63	32
541890	Other Services Related to Advertising	26	31

## Local Industrial Products and Services

35

You have 4 industries in this cluster:

NAICS	Industry	Jobs	Score
332710	Machine Shops	1,011	33
423930	Recyclable Material Merchant Wholesalers	629	40
423990	Other Miscellaneous Durable Goods Merchant Wholesalers	65	35
811219	Other Electronic and Precision Equipment Repair and Maintenance	14	31

## Local Real Estate, Construction, and Development

35

You have 46 industries in this cluster:

NAICS	Industry	Jobs	Score
236115	New Single-Family Housing Construction (except For-Sale Builders)	622	37
236117	New Housing For-Sale Builders	89	34
236118	Residential Remodelers	401	32
236220	Commercial and Institutional Building Construction	531	34
237110	Water and Sewer Line and Related Structures Construction	187	30
237210	Land Subdivision	13	34
237310	Highway, Street, and Bridge Construction	219	37
238110	Poured Concrete Foundation and Structure Contractors	663	40
238120	Structural Steel and Precast Concrete Contractors	32	32
238130	Framing Contractors	99	32



238140	Masonry Contractors	164	32
238150	Glass and Glazing Contractors	58	33
238160	Roofing Contractors	295	33
238170	Siding Contractors	84	31
238190	Other Foundation, Structure, and Building Exterior Contractors	62	37
238210	Electrical Contractors and Other Wiring Installation Contractors	1,171	39
238220	Plumbing, Heating, and Air-Conditioning Contractors	881	37
238290	Other Building Equipment Contractors	45	33
238310	Drywall and Insulation Contractors	225	34
238320	Painting and Wall Covering Contractors	220	31
238330	Flooring Contractors	90	33
238340	Tile and Terrazzo Contractors	44	31
238350	Finish Carpentry Contractors	148	33
238390	Other Building Finishing Contractors	101	35
238910	Site Preparation Contractors	765	38
238990	All Other Specialty Trade Contractors	521	38
327320	Ready-Mix Concrete Manufacturing	122	37
327390	Other Concrete Product Manufacturing	160	35
332322	Sheet Metal Work Manufacturing	495	34
423310	Lumber, Plywood, Millwork, and Wood Panel Merchant Wholesalers	231	37
423320	Brick, Stone, and Related Construction Material Merchant Wholesalers	46	35
423330	Roofing, Siding, and Insulation Material Merchant Wholesalers	87	36
423720	Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers	155	33
444110	Home Centers	1,006	33
444120	Paint and Wallpaper Stores	23	27
444190	Other Building Material Dealers	129	35
531110	Lessors of Residential Buildings and Dwellings	159	30
531120	Lessors of Nonresidential Buildings (except Miniwarehouses)	13	29
531190	Lessors of Other Real Estate Property	30	37

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531210	Offices of Real Estate Agents and Brokers	205	32
531311	Residential Property Managers	265	34
531312	Nonresidential Property Managers	66	29
531320	Offices of Real Estate Appraisers	26	29
531390	Other Activities Related to Real Estate	66	34
541370	Surveying and Mapping (except Geophysical) Services	121	36
562991	Septic Tank and Related Services	25	28

## Federal Government Services

35

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
901149	US Postal Service	505	34
901199	Federal Government, Civilian, Excluding Postal Service	88	40

## Local Health Services

35

You have 29 industries in this cluster:

NAICS	Industry	Jobs	Score
339116	Dental Laboratories	47	32
446110	Pharmacies and Drug Stores	672	33
621111	Offices of Physicians (except Mental Health Specialists)	712	27
621112	Offices of Physicians, Mental Health Specialists	65	37
621210	Offices of Dentists	1,173	37
621310	Offices of Chiropractors	283	29
621320	Offices of Optometrists	139	30
621330	Offices of Mental Health Practitioners (except Physicians)	118	32

621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists	446	32
621391	Offices of Podiatrists	37	31
621399	Offices of All Other Miscellaneous Health Practitioners	35	30
621410	Family Planning Centers	39	28
621420	Outpatient Mental Health and Substance Abuse Centers	30	27
621492	Kidney Dialysis Centers	33	36
621493	Freestanding Ambulatory Surgical and Emergency Centers	55	44
621498	All Other Outpatient Care Centers	68	31
621511	Medical Laboratories	28	30
621512	Diagnostic Imaging Centers	21	27
621610	Home Health Care Services	366	21
621999	All Other Miscellaneous Ambulatory Health Care Services	55	37
622110	General Medical and Surgical Hospitals	1,549	38
623110	Nursing Care Facilities (Skilled Nursing Facilities)	1,051	28
623210	Residential Intellectual and Developmental Disability Facilities	35	24
623220	Residential Mental Health and Substance Abuse Facilities	90	27
623311	Continuing Care Retirement Communities	533	18
623312	Assisted Living Facilities for the Elderly	1,843	37
623990	Other Residential Care Facilities	37	29
812210	Funeral Homes and Funeral Services	86	29
903622	Hospitals (Local Government)	2,178	47

## Downstream Chemical Products

35

You have 4 industries in this cluster:

NAICS	Industry	Jobs	Score
325510	Paint and Coating Manufacturing	181	37
325611	Soap and Other Detergent Manufacturing	46	41

325612	Polish and Other Sanitation Good Manufacturing	12	39
325991	Custom Compounding of Purchased Resins	87	28

## Communications Equipment and Services

35

You have 3 industries in this cluster:

NAICS	Industry	Jobs	Score
334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	175	36
334290	Other Communications Equipment Manufacturing	50	31
517312	Wireless Telecommunications Carriers (except Satellite)	20	34

## Printing Services

34

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
323111	Commercial Printing (except Screen and Books)	406	36
323113	Commercial Screen Printing	56	27

## Trailers, Motor Homes, and Appliances

34

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
336212	Truck Trailer Manufacturing	229	34

## Agricultural Inputs and Services

34

You have 8 industries in this cluster:

NAICS	Industry	Jobs	Score
111000	Crop Production	3,258	32
112000	Animal Production	1,644	38
115112	Soil Preparation, Planting, and Cultivating	25	31
115113	Crop Harvesting, Primarily by Machine	47	35
115114	Postharvest Crop Activities (except Cotton Ginning)	190	31
115115	Farm Labor Contractors and Crew Leaders	196	30
115116	Farm Management Services	42	30
115210	Support Activities for Animal Production	38	30

## Local Household Goods and Services

33

You have 12 industries in this cluster:

NAICS	Industry	Jobs	Score
423710	Hardware Merchant Wholesalers	60	46
442110	Furniture Stores	326	32
442210	Floor Covering Stores	207	35
442291	Window Treatment Stores	38	29
442299	All Other Home Furnishings Stores	101	25
443141	Household Appliance Stores	160	31
444130	Hardware Stores	427	33
444210	Outdoor Power Equipment Stores	37	29
444220	Nursery, Garden Center, and Farm Supply Stores	222	28
453110	Florists	78	26
561730	Landscaping Services	1,204	36
561740	Carpet and Upholstery Cleaning Services	42	28

## Video Production and Distribution

33

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
512110	Motion Picture and Video Production	18	33

## Downstream Metal Products

33

You have 7 industries in this cluster:

NAICS	Industry	Jobs	Score
332216	Saw Blade and Handtool Manufacturing	141	35
332311	Prefabricated Metal Building and Component Manufacturing	172	30
332312	Fabricated Structural Metal Manufacturing	120	32
332321	Metal Window and Door Manufacturing	10	34
332439	Other Metal Container Manufacturing	18	30
332510	Hardware Manufacturing	80	35
332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	320	34

## Local Logistical Services

33

You have 9 industries in this cluster:

NAICS	Industry	Jobs	Score
484110	General Freight Trucking, Local	703	30
484122	General Freight Trucking, Long-Distance, Less Than Truckload	474	36
484210	Used Household and Office Goods Moving	43	31
484220	Specialized Freight (except Used Goods) Trucking, Local	190	35
492210	Local Messengers and Local Delivery	14	26
531130	Lessors of Miniwarehouses and Self-Storage Units	28	27
532120	Truck, Utility Trailer, and RV (Recreational Vehicle) Rental and Leasing	43	32
562111	Solid Waste Collection	358	36
621910	Ambulance Services	33	23

You have 21 industries in this cluster:

NAICS	Industry	Jobs	Score
423110	Automobile and Other Motor Vehicle Merchant Wholesalers	160	32
423120	Motor Vehicle Supplies and New Parts Merchant Wholesalers	141	33
423140	Motor Vehicle Parts (Used) Merchant Wholesalers	70	33
441110	New Car Dealers	824	35
441120	Used Car Dealers	146	33
441210	Recreational Vehicle Dealers	115	35
441222	Boat Dealers	330	32
441228	Motorcycle, ATV, and All Other Motor Vehicle Dealers	104	32
441310	Automotive Parts and Accessories Stores	334	30
441320	Tire Dealers	82	29
447110	Gasoline Stations with Convenience Stores	675	24
447190	Other Gasoline Stations	57	26
488410	Motor Vehicle Towing	46	32
811111	General Automotive Repair	765	35
811113	Automotive Transmission Repair	47	31
811118	Other Automotive Mechanical and Electrical Repair and Maintenance	37	30
811121	Automotive Body, Paint, and Interior Repair and Maintenance	270	31
811122	Automotive Glass Replacement Shops	40	29
811191	Automotive Oil Change and Lubrication Shops	207	28
811192	Car Washes	394	30
811198	All Other Automotive Repair and Maintenance	50	30

## Medical Devices

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
339114	Dental Equipment and Supplies Manufacturing	49	31

## Leather and Related Products

31

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
314910	Textile Bag and Canvas Mills	168	31

## Apparel

30

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
314999	All Other Miscellaneous Textile Product Mills	71	30

## Nonmetal Mining

30

You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
212321	Construction Sand and Gravel Mining	46	30

## Local Community and Civic Organizations

30

You have 15 industries in this cluster:

NAICS	Industry	Jobs	Score
624110	Child and Youth Services	169	29
624120	Services for the Elderly and Persons with Disabilities	733	32
624190	Other Individual and Family Services	190	28
624210	Community Food Services	44	25
624230	Emergency and Other Relief Services	34	33
813110	Religious Organizations	304	28
813211	Grantmaking Foundations	28	34



813219	Other Grantmaking and Giving Services	25	29
813311	Human Rights Organizations	13	29
813312	Environment, Conservation and Wildlife Organizations	51	26
813319	Other Social Advocacy Organizations	107	27
813410	Civic and Social Organizations	287	26
813910	Business Associations	130	36
813930	Labor Unions and Similar Labor Organizations	70	28
813990	Other Similar Organizations (except Business, Professional, Labor, and Political Organizations)	72	40

## Wood Products

29

You have 5 industries in this cluster:

NAICS	Industry	Jobs	Score
321113	Sawmills	10	30
321211	Hardwood Veneer and Plywood Manufacturing	119	31
321219	Reconstituted Wood Product Manufacturing	29	35
321918	Other Millwork (including Flooring)	78	29
321920	Wood Container and Pallet Manufacturing	223	28

## Local Retailing of Clothing and General Merchandise

29

You have 12 industries in this cluster:

NAICS	Industry	Jobs	Score
448120	Women's Clothing Stores	144	27
448130	Children's and Infants' Clothing Stores	71	25
448140	Family Clothing Stores	127	24
448150	Clothing Accessories Stores	14	25
448190	Other Clothing Stores	24	25

448210	Shoe Stores	39	26
448310	Jewelry Stores	68	28
451130	Sewing, Needlework, and Piece Goods Stores	42	24
452210	Department Stores	320	27
452311	Warehouse Clubs and Supercenters	2,445	30
452319	All Other General Merchandise Stores	333	26
453310	Used Merchandise Stores	273	30

## Local Hospitality Establishments

29

You have 12 industries in this cluster:

NAICS	Industry	Jobs	Score
453220	Gift, Novelty, and Souvenir Stores	182	25
611620	Sports and Recreation Instruction	215	26
713910	Golf Courses and Country Clubs	436	25
713940	Fitness and Recreational Sports Centers	168	28
713950	Bowling Centers	77	26
722310	Food Service Contractors	1,206	31
722320	Caterers	122	26
722410	Drinking Places (Alcoholic Beverages)	461	29
722511	Full-Service Restaurants	4,691	29
722513	Limited-Service Restaurants	4,635	30
722514	Cafeterias, Grill Buffets, and Buffets	47	26
722515	Snack and Nonalcoholic Beverage Bars	600	24

## Local Personal Services (Non-Medical)

29

You have 14 industries in this cluster:

NAICS	Industry	Jobs	Score
446120	Cosmetics, Beauty Supplies, and Perfume Stores	41	26
446199	All Other Health and Personal Care Stores	85	32
453910	Pet and Pet Supplies Stores	38	25
453998	All Other Miscellaneous Store Retailers (except Tobacco Stores)	269	31
541921	Photography Studios, Portrait	76	27
541940	Veterinary Services	349	29
611511	Cosmetology and Barber Schools	21	31
624410	Child Day Care Services	582	27
811490	Other Personal and Household Goods Repair and Maintenance	158	31
812112	Beauty Salons	517	28
812199	Other Personal Care Services	86	25
812310	Coin-Operated Laundries and Drycleaners	15	24
812910	Pet Care (except Veterinary) Services	209	27
812990	All Other Personal Services	176	32

## Performing Arts

28

You have 2 industries in this cluster:

NAICS	Industry	Jobs	Score
711320	Promoters of Performing Arts, Sports, and Similar Events without Facilities	30	29
711510	Independent Artists, Writers, and Performers	36	28

## Local Entertainment and Media

28

You have 10 industries in this cluster:

NAICS	Industry	Jobs	Score
443142	Electronics Stores	200	28
451110	Sporting Goods Stores	227	27

451120	Hobby, Toy, and Game Stores	145	27
451140	Musical Instrument and Supplies Stores	31	28
451211	Book Stores	48	25
511110	Newspaper Publishers	110	29
512131	Motion Picture Theaters (except Drive-Ins)	86	25
515111	Radio Networks	33	26
515112	Radio Stations	51	34
532282	Video Tape and Disc Rental	21	23

## Hospitality and Tourism

27

You have 12 industries in this cluster:

NAICS	Industry	Jobs	Score
453920	Art Dealers	22	25
561510	Travel Agencies	64	32
711212	Racetracks	26	24
712110	Museums	35	28
713120	Amusement Arcades	16	24
713920	Skiing Facilities	86	26
713930	Marinas	182	30
713990	All Other Amusement and Recreation Industries	122	25
721110	Hotels (except Casino Hotels) and Motels	684	25
721191	Bed-and-Breakfast Inns	35	25
721199	All Other Traveler Accommodation	17	26
721211	RV (Recreational Vehicle) Parks and Campgrounds	84	29

## Local Commercial Services

26

You have 21 industries in this cluster:

NAICS	Industry	Jobs	Score
339950	Sign Manufacturing	80	31
453210	Office Supplies and Stationery Stores	49	26
541110	Offices of Lawyers	232	35
541211	Offices of Certified Public Accountants	206	34
541219	Other Accounting Services	90	28
541350	Building Inspection Services	44	39
541380	Testing Laboratories	255	36
541620	Environmental Consulting Services	57	33
561110	Office Administrative Services	158	32
561320	Temporary Help Services	2,471	1
561410	Document Preparation Services	19	25
561439	Other Business Service Centers (including Copy Shops)	19	30
561612	Security Guards and Patrol Services	19	25
561710	Exterminating and Pest Control Services	65	32
561720	Janitorial Services	3,518	39
561990	All Other Support Services	504	38
811212	Computer and Office Machine Repair and Maintenance	16	32
811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	293	34
811411	Home and Garden Equipment Repair and Maintenance	22	28
812320	Drycleaning and Laundry Services (except Coin-Operated)	94	26
812332	Industrial Launderers	103	31

## Textile Manufacturing

26









You have 1 industry in this cluster:

NAICS	Industry	Jobs	Score
314994	Rope, Cordage, Twine, Tire Cord, and Tire Fabric Mills	17	26

You have 13 industries in this cluster:

NAICS	Industry	Jobs	Score
311811	Retail Bakeries	82	29
311812	Commercial Bakeries	175	27
424410	General Line Grocery Merchant Wholesalers	29	32
424430	Dairy Product (except Dried or Canned) Merchant Wholesalers	200	33
424490	Other Grocery and Related Products Merchant Wholesalers	168	29
445110	Supermarkets and Other Grocery (except Convenience) Stores	1,528	23
445120	Convenience Stores	92	26
445210	Meat Markets	92	27
445299	All Other Specialty Food Stores	105	26
445310	Beer, Wine, and Liquor Stores	161	26
446191	Food (Health) Supplement Stores	35	25
454210	Vending Machine Operators	57	29
454390	Other Direct Selling Establishments	21	29

## Clusters That Don't Appear in Your Region

-  Tobacco
-  Upstream Chemical Products
-  Oil and Gas Production and Transportation
-  Music and Sound Recording
-  Metal Mining
-  Jewelry and Precious Metals
-  Coal Mining
-  Forestry

## 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