



Target Industry Cluster Analysis

CUPPAD Region, Michigan

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01 overview

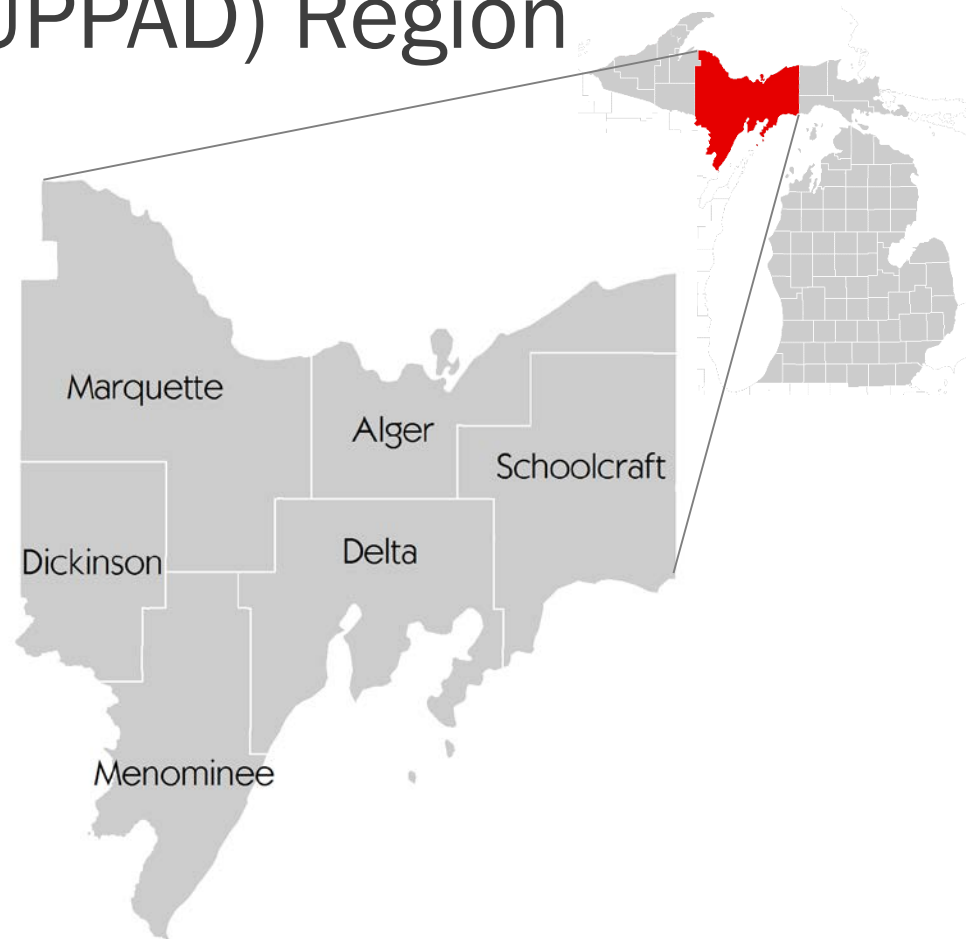
CUPPAD Region, MI

Overview

Central Upper Peninsula Planning and Development (CUPPAD) Region

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

- Alger
- Delta
- Dickinson
- Marquette
- Menominee
- Schoolcraft



02 target industry clusters

**Agribusiness, Food Processing
and Technology**

**Arts, Entertainment,
Recreation And Visitor
Industries**

**Education And Knowledge
Creation**

Energy (Fossil And Renewable)

Shift-Share Analysis by Top Industry Sectors

Agribusiness, Food Processing and Technology Cluster

Industries	Jobs 2014	National Trend, 2009-2014	Industry Trend, 2009-2014	Cumulative Expected Growth	Actual Job Growth, 2009-2014	Regional Performance, 2009-2014
		A	B	C=A+B	D	D-C
Crop Production	714	38	-29	9	119	↑ 110
Animal Production and Aquaculture	425	35	-50	-15	-118	-103
Commercial Bakeries	65	9	-4	5	-79	-84
Other Snack Food Manufacturing	49	0	1	1	42	↑ 41
Confectionery Manufacturing from Purchased Chocolate	46	2	-1	1	21	↑ 20
Farm and Garden Machinery and Equipment Merchant Wholesalers	44	3	0	3	-2	-5
Farm Labor Contractors and Crew Leaders	43	2	2	4	6	↑ 2
Soil Preparation, Planting, and Cultivating	42	2	1	3	14	↑ 11
Crop Harvesting, Primarily by Machine	34	0	1	1	32	↑ 31
Retail Bakeries	29	1	5	6	11	↑ 5
Soft Drink Manufacturing	27	2	-3	-1	-2	-1
Breweries	27	0	1	1	27	↑ 26
Farm Supplies Merchant Wholesalers	18	2	0	2	-10	-12
Dry Pasta, Dough, and Flour Mixes Manufacturing from Purchased Flour	16	0	0	0	16	↑ 16

Note: Upward arrow (↑) indicates regional competitiveness. EMSI does not show sufficient data for Cheese Manufacturing.

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Top 15 Inputs by Dollars

Agribusiness, Food Processing and Technology Cluster

Industries	Estimated Input (\$ Millions), 2013	% In-Region	% Out of Region
Crop Production	\$15.83	12%	88%
Animal Production and Aquaculture	\$13.00	5%	95%
Other Animal Food Manufacturing **	\$8.79	0%	100%
Corporate, Subsidiary, and Regional Managing Offices	\$5.83	1%	99%
Wholesale Trade Agents and Brokers	\$3.00	11%	89%
Farm Labor Contractors and Crew Leaders	\$2.77	5%	95%
Plastics Bottle Manufacturing **	\$2.64	0%	100%
Pesticide and Other Agricultural Chemical Manufacturing **	\$2.21	0%	100%
Wet Corn Milling **	\$1.71	0%	100%
Flour Milling **	\$1.63	0%	100%
Flavoring Syrup and Concentrate Manufacturing **	\$1.53	0%	100%
General Freight Trucking, Long-Distance, Truckload	\$1.52	24%	76%
Fats and Oils Refining and Blending **	\$1.50	0%	100%
Nitrogenous Fertilizer Manufacturing **	\$1.46	0%	100%
Rail transportation	\$1.33	39%	61%

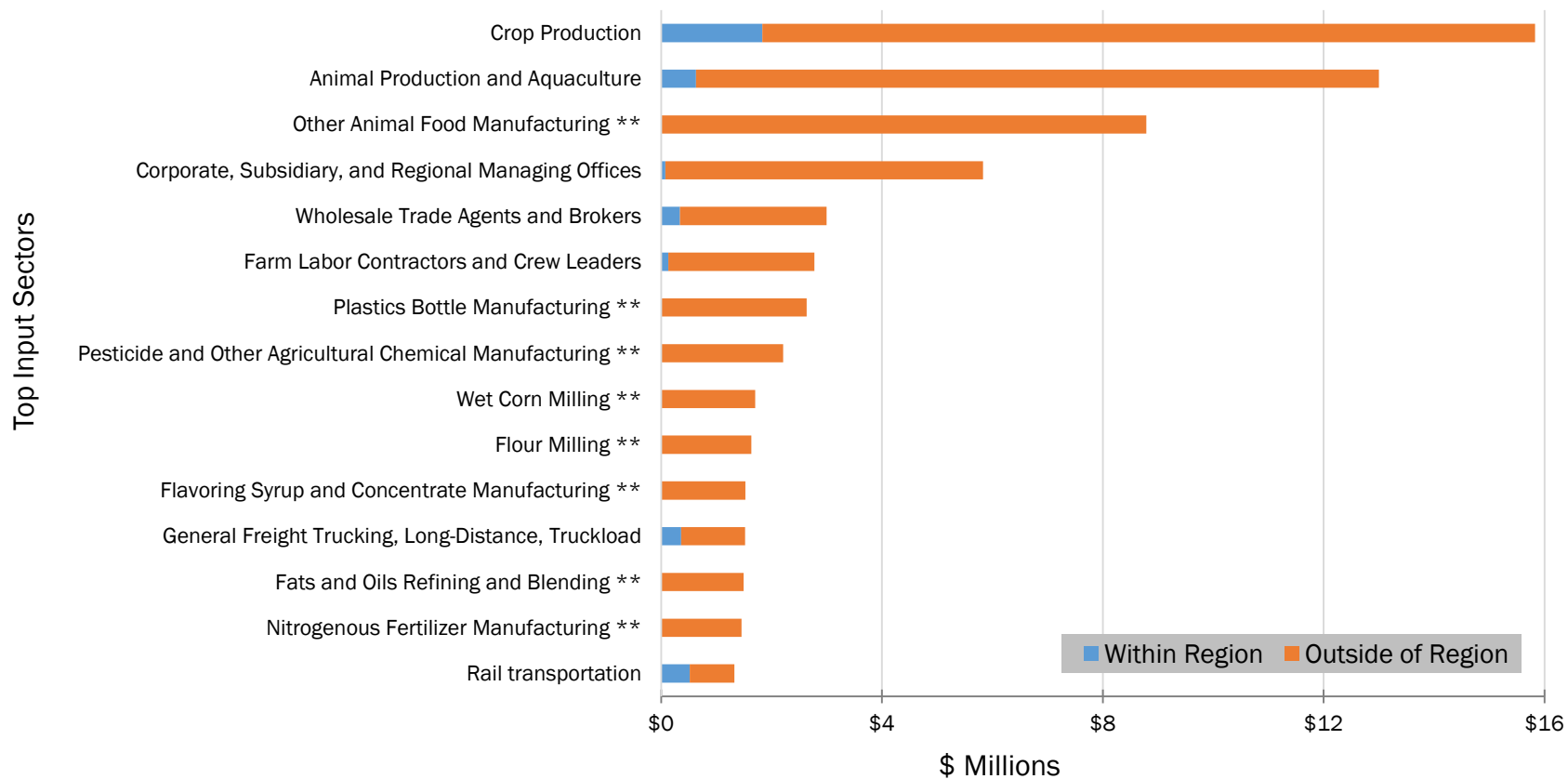
Note: ** industry sector is not present in the region .

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Top 15 Inputs by Dollars

Agribusiness, Food Processing and Technology Cluster

Leakage Analysis, 2013



Note: ** industry sector is not present in the region.

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Source: EMSI Class of Worker 2015.4 (QCEW, non-QCEW, self-employed and extended proprietors).

Top Occupations

Agribusiness, Food Processing and Technology Cluster

Occupations	Jobs 2014	% Change, 2009-2014	Median Hourly Earnings	Entry Level Education
Farmers, Ranchers, and Other Agricultural Managers	920	-4%	\$12.9	High school diploma or equivalent
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	158	41%	\$10.8	Less than high school
Bakers	31	-24%	\$10.2	Less than high school
Packaging and Filling Machine Operators and Tenders	25	19%	\$19.9	High school diploma or equivalent
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	24	9%	\$22.0	High school diploma or equivalent
Nonfarm Animal Caretakers	23	53%	\$8.9	Less than high school
Animal Trainers	20	11%	\$9.3	High school diploma or equivalent
Food Batchmakers	20	5%	\$14.9	High school diploma or equivalent
Heavy and Tractor-Trailer Truck Drivers	16	23%	\$18.6	Postsecondary non-degree award
Agricultural Equipment Operators	15	50%	\$16.9	Less than high school
Managers, All Other	15	15%	\$19.3	High school diploma or equivalent
Laborers and Freight, Stock, and Material Movers, Hand	14	0%	\$12.9	Less than high school
Packers and Packagers, Hand	14	0%	\$9.6	Less than high school
Farmworkers, Farm, Ranch, and Aquacultural Animals	14	40%	\$11.0	Less than high school
Bookkeeping, Accounting, and Auditing Clerks	12	-8%	\$16.1	High school diploma or equivalent

Note: SOC (Standard Occupation Classification) 5-digit occupations are included by jobs in 2014. Extended proprietors include estimates for underreported self employment, proprietorships, trusts, partnerships and cooperatives.

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Shift-Share Analysis by Top Industry Sectors

Arts, Entertainment, Recreation And Visitor Industries Cluster

Industries	Jobs 2014	National Trend, 2009-2014	Industry Trend, 2009-2014	Cumulative Expected Growth	Actual Job Growth, 2009-2014	Regional Performance, 2009-2014
		A	B	C=A+B	D	D-C
Hotels (except Casino Hotels) and Motels	1,255	75	30	105	83	-22
Independent Artists, Writers, and Performers	513	28	23	51	69	↑ 18
Golf Courses and Country Clubs	322	23	-7	16	-41	-57
Fitness and Recreational Sports Centers	211	8	7	15	80	↑ 65
All Other Amusement and Recreation Industries	153	8	22	30	26	-4
Radio Stations	92	5	-5	0	13	↑ 13
Television Broadcasting	90	7	2	9	-18	-27
Other Spectator Sports	79	4	-2	2	9	↑ 7
Bowling Centers	70	4	-7	-3	9	↑ 12
Motion Picture Theaters (except Drive-Ins)	57	6	-7	-1	-38	-37
All Other Traveler Accommodation	44	2	5	7	21	↑ 14
Radio Networks	43	2	-7	-5	11	↑ 16
RV (Recreational Vehicle) Parks and Campgrounds	42	5	7	12	-33	-45
Skiing Facilities	40	3	1	4	-4	-8
Museums	33	2	3	5	1	-4

Note: Upward arrow (↑) indicates regional competitiveness.

section 02

Top 15 Inputs by Dollars

Arts, Entertainment, Recreation And Visitor Industries Cluster

Industries	Estimated Input (\$ Millions), 2013	% In-Region	% Out of Region
Corporate, Subsidiary, and Regional Managing Offices	\$5.50	1%	99%
Sports Teams and Clubs	\$4.02	5%	95%
Television Broadcasting	\$3.99	58%	42%
Lessors of Residential Buildings and Dwellings	\$2.36	30%	70%
Lessors of Nonresidential Buildings (except Miniwarehouses)	\$2.06	39%	61%
Motion Picture and Video Production	\$1.96	5%	95%
Cable and Other Subscription Programming *	\$1.90	23%	77%
Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)	\$1.84	61%	39%
Advertising Agencies	\$1.79	4%	96%
Offices of Real Estate Agents and Brokers	\$1.77	34%	66%
Radio Stations	\$1.64	86%	14%
Independent Artists, Writers, and Performers	\$1.34	47%	53%
Offices of Lawyers	\$1.28	22%	78%
Other Activities Related to Real Estate	\$1.21	21%	79%
Internet Publishing and Broadcasting and Web Search Portals **	\$1.11	0%	100%

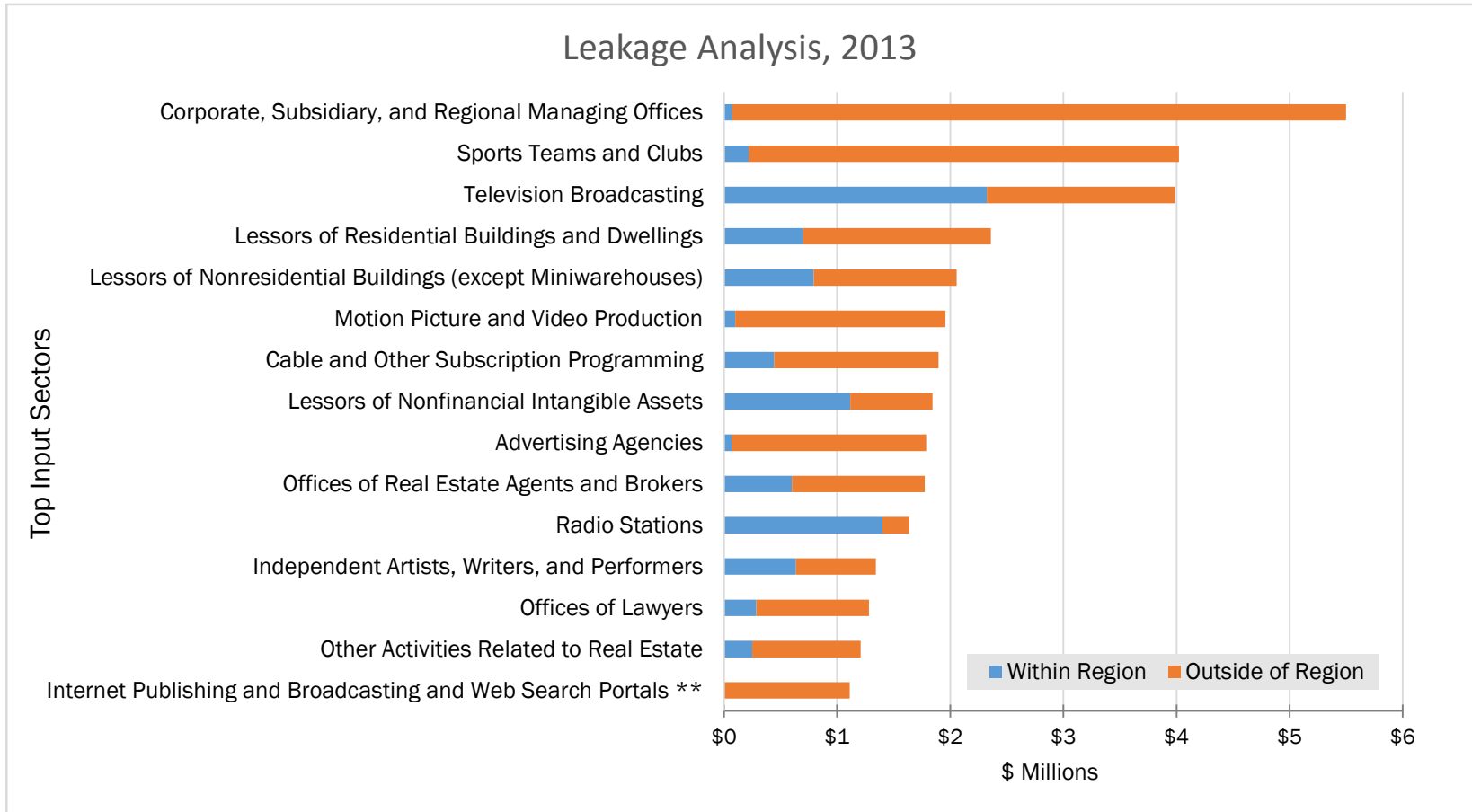
Note: * industry sector has less than 10 jobs as estimated by EMSI.

** industry sector is not present in the region.

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Top 15 Inputs by Dollars

Arts, Entertainment, Recreation And Visitor Industries Cluster



Note: ** industry sector is not present in the region.

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Top Occupations

Arts, Entertainment, Recreation And Visitor Industries Cluster

Occupations	Jobs 2014	% Change, 2009-2014	Median Hourly Earnings	Entry Level Education
Maids and Housekeeping Cleaners	370	5%	\$8.7	Less than high school
Hotel, Motel, and Resort Desk Clerks	275	4%	\$9.1	High school diploma or equivalent
Lodging Managers	172	-1%	\$11.5	High school diploma or equivalent
Musicians and Singers	152	24%	\$13.3	High school diploma or equivalent
Writers and Authors	130	20%	\$14.0	Bachelor's degree
Waiters and Waitresses	105	-6%	\$9.2	Less than high school
Fitness Trainers and Aerobics Instructors	94	40%	\$12.5	High school diploma or equivalent
Maintenance and Repair Workers, General	79	-6%	\$15.3	High school diploma or equivalent
Amusement and Recreation Attendants	75	-7%	\$9.2	Less than high school
Fine Artists, Including Painters, Sculptors, and Illustrators	75	12%	\$7.3	High school diploma or equivalent
Radio and Television Announcers	73	22%	\$13.0	Bachelor's degree
Landscaping and Groundskeeping Workers	70	-13%	\$10.3	Less than high school
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67	3%	\$11.0	Less than high school
Coaches and Scouts	64	31%	\$13.3	Bachelor's degree
Cooks, Restaurant	64	0%	\$9.5	Less than high school

Note: SOC (Standard Occupation Classification) 5-digit occupations are included by jobs in 2014. Extended proprietors include estimates for underreported self employment, proprietorships, trusts, partnerships and cooperatives.

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Shift-Share Analysis by Top Industry Sectors

Education And Knowledge Creation Cluster

Industries	Jobs 2014	National Trend, 2009-2014	Industry Trend, 2009-2014	Cumulative Expected Growth	Actual Job Growth, 2009-2014	Regional Performance, 2009-2014
		A	B	C=A+B	D	D-C
Newspaper Publishers	198	15	-71	-56	-37	↑ 19
Fine Arts Schools	83	4	3	7	14	↑ 7
Sports and Recreation Instruction	68	4	7	11	13	↑ 2
Libraries and Archives	59	2	-5	-3	25	↑ 28
Periodical Publishers	43	6	-19	-13	-47	-34
Educational Support Services	42	4	3	7	-21	-28
Cosmetology and Barber Schools	40	1	0	1	19	↑ 18
Other Technical and Trade Schools	30	2	-2	0	-2	-2
Exam Preparation and Tutoring	26	2	0	2	-5	-7
Professional and Management Development Training	20	1	0	1	1	0
Book Publishers	20	2	-5	-3	-5	-2
Colleges, Universities, and Professional Schools	19	1	1	2	-4	-6
All Other Miscellaneous Schools and Instruction	19	1	3	4	-3	-7
Apprenticeship Training	17	1	0	1	5	↑ 4
Automobile Driving Schools	16	2	-2	0	-9	-9

Note: Upward arrow (↑) indicates regional competitiveness.

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Top 15 Inputs by Dollars

Education And Knowledge Creation Cluster

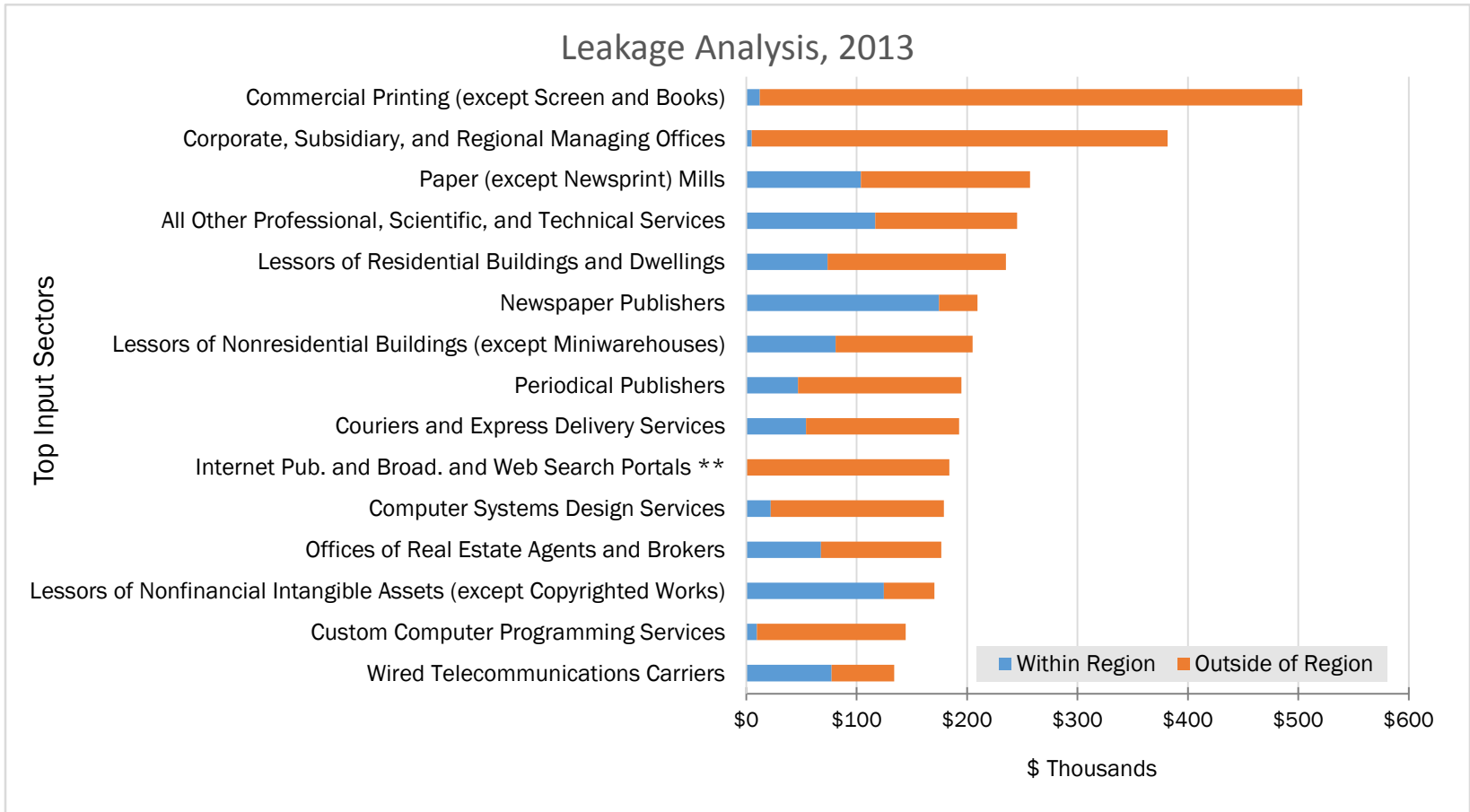
Industries	Estimated Input (\$ Millions), 2013	% In-Region	% Out of Region
Commercial Printing (except Screen and Books)	\$0.50	2%	98%
Corporate, Subsidiary, and Regional Managing Offices	\$0.38	1%	99%
Paper (except Newsprint) Mills	\$0.26	40%	60%
All Other Professional, Scientific, and Technical Services	\$0.25	48%	52%
Lessors of Residential Buildings and Dwellings	\$0.24	31%	69%
Newspaper Publishers	\$0.21	83%	17%
Lessors of Nonresidential Buildings (except Miniwarehouses)	\$0.20	39%	61%
Periodical Publishers	\$0.19	24%	76%
Couriers and Express Delivery Services	\$0.19	28%	72%
Internet Publishing and Broadcasting and Web Search Portals **	\$0.18	0%	100%
Computer Systems Design Services	\$0.18	12%	88%
Offices of Real Estate Agents and Brokers	\$0.18	38%	62%
Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)	\$0.17	73%	27%
Custom Computer Programming Services	\$0.14	7%	93%
Wired Telecommunications Carriers	\$0.13	58%	42%

Note: ** industry sector is not present in the region.

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Top 15 Inputs by Dollars

Education And Knowledge Creation Cluster



Note: ** industry sector is not present in the region.

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Top Occupations

Education And Knowledge Creation Cluster

Occupations	Jobs 2014	% Change, 2009-2014	Median Hourly Earnings	Entry Level Education
Self-Enrichment Education Teachers	107	-14%	\$12.9	High school diploma or equivalent
Teachers and Instructors, All Other	75	-16%	\$20.0	Bachelor's degree
Postsecondary Teachers	51	183%	\$27.9	Doctoral or professional degree
Advertising Sales Agents	35	-17%	\$16.8	High school diploma or equivalent
Reporters and Correspondents	28	-15%	\$13.0	Bachelor's degree
Coaches and Scouts	25	25%	\$13.3	Bachelor's degree
Office Clerks, General	23	5%	\$13.3	High school diploma or equivalent
Editors	20	-29%	\$19.0	Bachelor's degree
Customer Service Representatives	14	-7%	\$12.5	High school diploma or equivalent
Graphic Designers	14	-18%	\$14.3	Bachelor's degree
Printing Press Operators	12	-20%	\$13.1	High school diploma or equivalent
Managers, All Other	12	20%	\$19.3	High school diploma or equivalent
Writers and Authors	11	-21%	\$14.0	Bachelor's degree
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	11	10%	\$15.0	High school diploma or equivalent

Note: SOC (Standard Occupation Classification) 5-digit occupations are included by jobs in 2014. Extended proprietors include estimates for underreported self employment, proprietorships, trusts, partnerships and cooperatives. EMSI does not show sufficient jobs for Musicians and Singers.

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Shift-Share Analysis by Top Industry Sectors

Energy (Fossil And Renewable) Cluster

Industries	Jobs 2014	National Trend, 2009-2014	Industry Trend, 2009-2014	Cumulative Expected Growth	Actual Job Growth, 2009-2014	Regional Performance, 2009-2014
		A	B	C=A+B	D	D-C
Electrical Contractors and Other Wiring Installation Contractors	974	53	-37	16	154	↑ 138
Gasoline Stations with Convenience Stores	708	41	-2	39	72	↑ 33
Plumbing, Heating, and Air-Conditioning Contractors	478	33	4	37	-30	-67
Power and Communication Line and Related Structures Construction	363	11	31	42	189	↑ 147
Engineering Services	280	19	-10	9	-19	-28
Fossil Fuel Electric Power Generation	276	21	-113	-92	-57	↑ 35
Other Heavy and Civil Engineering Construction	213	7	-6	1	110	↑ 109
Electric Power Distribution	123	2	13	15	87	↑ 72
Water and Sewer Line and Related Structures Construction	84	12	-15	-3	-106	-103
Other Gasoline Stations	81	4	-4	0	19	↑ 19
Environmental Consulting Services	68	3	-1	2	25	↑ 23
Hydroelectric Power Generation	64	3	-38	-35	21	↑ 56
Fuel Dealers	62	7	-15	-8	-39	-31
Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers	56	3	1	4	3	-1
Miscellaneous Intermediation	51	4	3	7	-6	-13

Note: Upward arrow (↑) indicates regional competitiveness.

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Top 15 Inputs by Dollars

Energy (Fossil And Renewable) Cluster

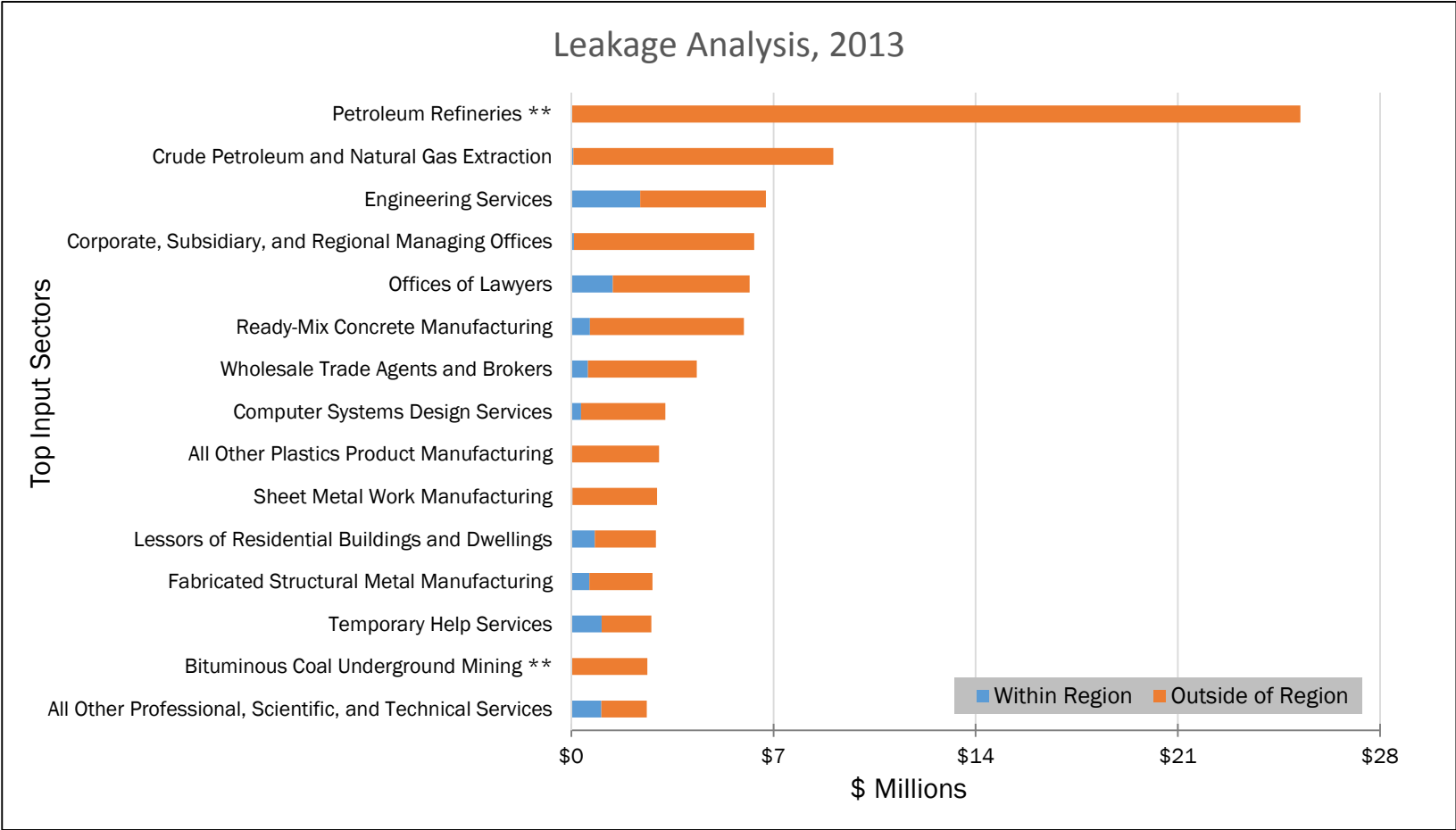
Industries	Estimated Input (\$ Millions), 2013	% In-Region	% Out of Region
Petroleum Refineries **	\$25.24	0%	100%
Crude Petroleum and Natural Gas Extraction	\$9.07	1%	99%
Engineering Services	\$6.74	35%	65%
Corporate, Subsidiary, and Regional Managing Offices	\$6.33	1%	99%
Offices of Lawyers	\$6.17	23%	77%
Ready-Mix Concrete Manufacturing	\$5.98	11%	89%
Wholesale Trade Agents and Brokers	\$4.35	13%	87%
Computer Systems Design Services	\$3.25	10%	90%
All Other Plastics Product Manufacturing *	\$3.04	0%	100%
Sheet Metal Work Manufacturing *	\$2.97	1%	99%
Lessors of Residential Buildings and Dwellings	\$2.92	28%	72%
Fabricated Structural Metal Manufacturing	\$2.81	22%	78%
Temporary Help Services	\$2.77	38%	62%
Bituminous Coal Underground Mining **	\$2.63	0%	100%
All Other Professional, Scientific, and Technical Services	\$2.61	40%	60%

Note: * industry sector has less than 10 jobs as calculated by EMSI; ** industry sector is not present in the region .

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Top 15 Inputs by Dollars

Energy (Fossil And Renewable) Cluster



Note: ** industry sector is not present in the region.

section 02

Source: EMSI Class of Worker 2015.4 (QCEW, non -QCEW, self-employed and extended proprietors).

Top Occupations

Energy (Fossil And Renewable) Cluster

Occupations	Jobs 2014	% Change, 2009-2014	Median Hourly Earnings	Entry Level Education
Cashiers	493	13%	\$9.1	Less than high school
Electrical Power-Line Installers and Repairers	405	43%	\$35.5	High school diploma or equivalent
Electricians	377	16%	\$24.2	High school diploma or equivalent
Construction Laborers	193	25%	\$14.0	Less than high school
Office Clerks, General	170	12%	\$13.3	High school diploma or equivalent
Plumbers, Pipefitters, and Steamfitters	150	-6%	\$20.4	High school diploma or equivalent
First-Line Supervisors of Construction Trades and Extraction Workers	113	6%	\$24.3	High school diploma or equivalent
General and Operations Managers	101	10%	\$33.0	Bachelor's degree
First-Line Supervisors of Retail Sales Workers	93	3%	\$12.3	High school diploma or equivalent
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	88	13%	\$15.0	High school diploma or equivalent
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	82	-8%	\$16.0	Postsecondary non-degree award
Carpenters	70	15%	\$16.1	High school diploma or equivalent
Bookkeeping, Accounting, and Auditing Clerks	68	10%	\$16.1	High school diploma or equivalent
Operating Engineers and Other Construction Equipment Operators	58	18%	\$23.2	High school diploma or equivalent
Power Plant Operators	48	-2%	\$30.5	High school diploma or equivalent

Note: SOC (Standard Occupation Classification) 5-digit occupations are included by jobs in 2014. Extended proprietors include estimates for underreported self employment, proprietorships, trusts, partnerships and cooperatives.

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Report Contributors

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Report Authors

Bo Beaulieu, PhD
Indraneel Kumar, PhD
Andrey Zhalnin, PhD



Data Analysis

Ayoung Kim
Francisco Scott



Report Design

Tyler Wright

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For more information,
please contact:

Dr. Bo Beaulieu,
PCRD Director:
ljb@purdue.edu

Or

765-494-7273

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