



# Pennsylvania's Industry Clusters

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### Introduction

Since 2004, Pennsylvania has defined industry clusters to serve as the basis for data-driven workforce development policies in the commonwealth. A cluster includes industries closely linked by common products, labor pools, technologies, supplier chains and training needs. They take on strategic importance for long-term economic planning as changes that benefit one group member will also impact other members of the cluster.

Industry clusters are comprised of specific six-digit North American Industry Classification System, or NAICS, codes. They are mutually exclusive, so that no two clusters contain the same NAICS code.

Along with total employment and average wages, the strength of a cluster is often evaluated using a location quotient, or LQ, which compares a cluster's share of local employment with its share of national employment. An LQ greater than one indicates that the cluster has, on average, more employees locally than typically expected implying a possible competitive advantage.

### Uses of Clusters

In addition to general economic and workforce development analysis, two initiatives that have included industry clusters as a foundational element - Industry Partnerships (IPs) and High Priority Occupations (HPOs) – are described briefly below.

#### **Industry Partnership (IPs)**

Industry clusters have served as the foundation for the creation of IPs – employer/worker consortiums that bring together companies with similar products, markets and human resource needs. The intent – through intelligent and prudent investments – is for Pennsylvania to develop the human capital necessary for greater productivity, enlightened human resource practices and innovation, thereby helping these industries survive and grow. Most importantly, by bringing together employers committed to developing their workforce, these partnerships foster a deep and thorough understanding of employers' industries.

#### **High Priority Occupations (HPO)**

In addition to defining industry clusters, the commonwealth also identifies High Priority Occupations (HPOs) that are important to the success and growth of the economy, and takes steps to ensure that Pennsylvanians possess the skills required to fill them. HPOs are those occupations that are in demand locally by employers, pay a family-sustaining wage and have higher skill requirements. Combining statistical data with regional input allows for a complete picture of the actual workforce needs of the state. Today, HPOs guide the allocation of many federal training dollars, including Workforce Innovation and Opportunity Act funds through individual training accounts. An HPO methodology document providing more details on this process is available.

## Looking at the Data

The table below provides summary statistics for each industry cluster. Spotlight reports for each of the 12 industry clusters are available on the CWIA website. Included for each cluster is:

- A definition of the cluster including examples of industries that comprise it
- Employer units, employment, average annual wages and national LQ
- A map of county employment concentration
- Top employers throughout the state
- Top industries based on employment
- A graph of national LQ for each of the 22 WDAs
- The educational requirements for the workforce that constitutes the cluster
- A chart of occupations with significant employment

**Table: Summary Statistics for PA's Industry Clusters (2023)**

Cluster (or sub-cluster) Name	2023 Annual Average		
	Employment	National LQ	Wages
Advanced Manufacturing (AM)	430,909	1.01	\$71,863
AM - Chemicals, Rubber & Plastics (AM - CRP)	80,293	1.23	\$71,707
AM - Electronics (AM - E)	59,355	0.76	\$78,981
AM - Metals (AM - M)	127,697	1.46	\$76,901
AM - Vehicles & Vehicle Equipment (AM - VVE)	163,564	0.83	\$65,422
Agriculture & Food Production (AFP)	195,182	0.89	\$56,217
Bio-Medical (BM)	95,934	1.23	\$138,386
Building & Construction (BC)	385,258	0.91	\$72,628
Business Services (BSV)	753,576	0.98	\$111,294
BSV - Media, Advertising & Marketing (BSV - MAM)	115,676	0.97	\$129,290
BSV - Operational Services (BSV - OPER)	231,496	0.94	\$68,947
BSV - Professional & Consulting Services (BSV - P&C)	406,404	1.01	\$130,293
Education (ED)	558,060	1.02	\$62,464
Energy (ENGY)	122,186	1.05	\$94,029
Health Care (HC)	1,120,662	1.23	\$68,054
Hospitality, Leisure & Entertainment (HLE)	604,130	0.85	\$28,356
Logistics & Transportation (LT)	298,372	1.13	\$61,296
Real Estate, Finance & Insurance (REFI)	314,066	0.94	\$110,673
Wood, Wood Products & Publishing (WWP)	88,885	1.21	\$65,542

Note: BLS introduces, changes and updates NAICS industry codes and titles every 5 years to reflect the changing economy. The latest update was done in 2022. This publication reflects those changes but also keeps historical codes so that clusters can be viewed over time.

The following pages list the specific NAICS codes that are included in each cluster. Advanced Manufacturing and Business Services have sub-cluster breakouts noted within each page.

# Advanced Manufacturing

## NAICS Industries Included in Cluster

Sub-clusters are notated where applicable; (C) signifies Chemicals, Rubber & Plastics, (E) is Electronics, (M) is Metals, and (V) is Vehicles & Vehicle Equipment.

324191	Petroleum Lubricating Oil & Grease Mfg (C)	33142	Copper Rolling, Drawing, Extruding & Alloying (M)
32511	Petrochemical Mfg (C)	331491	Nonferrous Metal, Except Cu & Al, Shaping (M) Secondary
32512	Industrial Gas Mfg (C)	331492	Processing Of Other Nonferrous (M)
32513	Synthetic Dye & Pigment Mfg (C)	331511	Iron Foundries (M)
32518	Other Basic Inorganic Chemical Mfg (C)	331512	Steel Investment Foundries (M)
325191	Gum & Wood Chemical Mfg (C)	331513	Steel Foundries, Except Investment (M)
325192	Cyclic Crude & Intermediate Mfg (C)	331521	Aluminum Die-Casting Foundries (M)
325194	Cyclic Crude, Interm. & Gum & Wood Chemical Mfg (C)	331522	Nonferrous Die-Casting (M)
325211	Plastics Material & Resin Mfg (C)	331523	Nonferrous Metal Die-Casting Foundries (M)
325212	Synthetic Rubber Mfg (C)	331524	Aluminum Foundries, Except Die-Casting (M)
32522	Artificial & Synthetic Fibers & Filaments Mfg (C)	331525	Copper Foundries (Except Die-Casting) (M)
32551	Paint & Coating Mfg (C)	331528	Other Nonferrous Foundries Ex. Die-Cast (M)
32552	Adhesive Mfg (C)	331529	Other Nonferrous Metal Foundries (except Die-Casting) (M)
325611	Soap & Other Detergent Mfg (C)	332111	Iron & Steel Forging (M)
325612	Polish & Other Sanitation Good Mfg (C)	332112	Nonferrous Forging (M)
325613	Surface Active Agent Mfg (C)	332114	Custom Roll Forming (M)
32562	Toilet Preparation Mfg (C)	332115	Crown & Closure Mfg (M)
32591	Printing Ink Mfg (C)	332116	Metal Stamping (M)
32592	Explosives Mfg (C)	332117	Powder Metallurgy Part Mfg (M)
325991	Custom Compounding Of Purchased Resins (C)	332119	Metal Crown, Closure & Other Metal Stamping (M)
325992	Photographic Film & Chemical Mfg (C)	332211	Nonprecious Cutlery & Flatware (M)
325998	Other Miscellaneous Chemical Product Mfg (C)	332212	Hand & Edge Tool Mfg (M)
326111	Plastics Bag Mfg (C)	332213	Saw Blade & Handsaw Mfg (M)
326112	Plastics Packaging Film & Sheet Mfg (C)	332214	Kitchen Utensil, Pot & Pan Mfg (M)
326113	Nonpackaging Plastics Film & Sheet Mfg (C)	332215	Metal Kitchen Cookware & Flatware Mfg (M)
326121	Unlaminated Plastics Profile Shape Mfg (C)	332216	Saw Blade & Handtool Mfg (M)
326122	Plastics Pipe & Pipe Fitting Mfg (C)	332313	Plate Work Mfg (M)
32613	Laminated Plastics Plate, Sheet & Shapes (C)	332322	Sheet Metal Work Mfg (M)
32614	Polystyrene Foam Product Mfg (C)	33241	Power Boiler & Heat Exchanger Mfg (M)
32615	Urethane & Other Foam Product Mfg (C)	33242	Metal Tank, Heavy Gauge, Mfg (M)
32616	Plastics Bottle Mfg (C)	332431	Metal Can Mfg (M)
326191	Plastics Plumbing Fixture Mfg (C)	332439	Other Metal Container Mfg (M)
326192	Resilient Floor Covering Mfg (C)	33251	Hardware Mfg (M)
326199	All Other Plastics Product Mfg (C)	332611	Spring (Heavy Gauge) Mfg (M)
326211	Tire Mfg, Except Retreading (C)	332612	Spring (Light Gauge) Mfg (M)
326212	Tire Retreading (C)	332613	Spring Mfg (M)
32622	Rubber & Plastics Hose & Belting Mfg (C)	332618	Other Fabricated Wire Product Mfg (M)
326291	Rubber Product Mfg For Mechanical Use (C)	33271	Machine Shops (M)
326299	All Other Rubber Product Mfg (C)	332721	Precision Turned Product Mfg (M)
33111	Iron & Steel Mills & Ferroalloy Mfg (M)	332722	Bolt, Nut, Screw, Rivet & Washer Mfg (M)
33121	Iron, Steel Pipe & Tube From Purchase Steel (M)	332811	Metal Heat Treating (M)
331221	Rolled Steel Shape Mfg (M)	332812	Metal Coating & Nonprecious Engraving (M) Electroplating,
331222	Steel Wire Drawing (M)	332813	Anodizing & Coloring Metal (M)
331311	Alumina Refining (M)	332911	Industrial Valve Mfg (M)
331312	Primary Aluminum Production (M)	332912	Fluid Power Valve & Hose Fitting Mfg (M)
331313	Alumina Refining & Primary Aluminum Production (M)	332913	Plumbing Fixture Fitting & Trim Mfg (M)
331314	Secondary Smelting & Alloying Of Aluminum (M)	332919	Other Metal Valve & Pipe Fitting Mfg (M)
331315	Aluminum Sheet, Plate & Foil Mfg (M)	332991	Ball & Roller Bearing Mfg (M)
331316	Aluminum Extruded Product Mfg (M)	332992	Small Arms Ammunition Mfg (M)
331318	Other Aluminum Rolling, Drawing & Extruding (M)	332993	Ammunition, Except Small Arms, Mfg (M)
331319	Other Aluminum Rolling & Drawing (M)	332994	Small Arms Mfg (M)
33141	Nonferrous Metal Smelting & Refining (M)	332995	Other Ordnance & Accessories Mfg (M)



## NAICS Industries Included in Cluster

332996	Fabricated Pipe & Pipe Fitting Mfg (M)	335932	Noncurrent-Carrying Wiring Device Mfg (E)
332997	Industrial Pattern Mfg (M)	335991	Carbon & Graphite Product Mfg (E)
332998	Metal Sanitary Ware Mfg (M)	33611	Automobile & Light Duty Motor Vehicle Mfg (V)
332999	All Other Miscellaneous Fabricated Metal Product Mfg (M)	33612	Heavy Duty Truck Mfg (V)
33322	Plastics & Rubber Industry Machinery (C)	336211	Motor Vehicle Body Mfg (V)
333242	Semiconductor Machinery Mfg (E)	336212	Truck Trailer Mfg (V)
333248	All Other Industrial Machinery Mfg (C)	336213	Motor Home Mfg (V)
333249	Other Industrial Machinery Mfg (C)	336214	Travel Trailer & Camper Mfg (V)
333295	Semiconductor Machinery Mfg (E)	33631	Motor Vehicle Gasoline Engine & Parts Mfg (V)
333316	Photographic & Photocopying Equipment Mfg (E)	33632	Motor Vehicle Electrical & Electronic Equipment Mfg (V)
333511	Industrial Mold Mfg (C)	33633	Motor Vehicle Steering & Suspension Parts (V)
333512	Metal Cutting Machine Tool Mfg (M)	33634	Motor Vehicle Brake System Mfg (V)
333513	Metal Forming Machine Tool Mfg (M)	33635	Motor Vehicle Power Train Components Mfg (V)
333514	Special Tool, Die, Jig & Fixture Mfg (M)	33636	Motor Vehicle Seating & Interior Trim Mfg (V)
333515	Cutting Tool & Machine Tool Accessory Mfg (M)	33637	Motor Vehicle Metal Stamping (V)
333516	Rolling Mill Machinery & Equipment (M)	33639	Other Motor Vehicle Parts Mfg (V)
333517	Machine Tool Mfg (M)	336411	Aircraft Mfg (V)
333518	Other Metalworking Machinery Mfg (M)	336412	Aircraft Engine & Engine Parts Mfg (V)
333519	Rolling Mill & Other Metalworking Machinery Mfg (M)	336413	Other Aircraft Parts & Equipment (V)
333618	Other Engine Equipment Mfg (V)	336414	Guided Missile & Space Vehicle Mfg (V)
333923	Overhead Cranes, Hoists & Monorail Systems (M)	336415	Space Vehicle Propulsion Units & Parts Mfg (V)
333924	Industrial Truck, Trailer & Stacker Mfg (M)	336419	Other Guided Missile & Space Vehicle Parts (V)
333992	Welding & Soldering Equipment Mfg (M)	33651	Railroad Rolling Stock Mfg (V)
333994	Industrial Process Furnaces & Ovens (M)	336611	Ship Building & Repairing (V)
334111	Electronic Computer Mfg (E)	336612	Boat Building (V)
334112	Computer Storage Device Mfg (E)	336991	Motorcycle, Bicycle & Parts Mfg (V)
334113	Computer Terminal Mfg (E)	336992	Military Armored Vehicles & Tank Parts Mfg (V)
334118	Computer Terminal & Other Computer Peripheral Equip. Mfg (E)	336999	All Other Transportation Equipment Mfg (V)
334119	Other Computer Peripheral Equipment (E)	42311	Motor Vehicle Merchant Wholesalers (V)
33421	Telephone Apparatus Mfg (E)	42312	New Motor Vehicle Parts Merchant Wholesalers (V)
33422	Broadcast & Wireless Comm. Equip (E)	42313	Tire & Tube Merchant Wholesalers (C)
33431	Audio & Video Equipment Mfg (E)	42314	Used Motor Vehicle Parts Merchant Wholesalers (V)
334411	Electron Tube Mfg (E)	42341	Photographic Equip. Merchant Wholesalers (E)
334412	Bare Printed Circuit Board Mfg (E)	42351	Metal Merchant Wholesalers (M)
334413	Semiconductors & Related Device Mfg (E)	42361	Elec. Equip. & Wiring Merchant Wholesalers (E)
334414	Electronic Capacitor Mfg (E)	42362	Electric Appliance Merchant Wholesalers (E)
334415	Electronic Resistor Mfg (E)	42369	Other Electronic Parts Merchant Wholesalers (E)
334416	Electronic Coils, Transformers & Inductors (E)	42383	Industrial Machinery Merchant Wholesalers (M)
334417	Electronic Connector Mfg (E)	42461	Plastics Materials Merchant Wholesalers (C)
334418	Printed Circuit Assembly Mfg (E)	42469	Other Chemicals Merchant Wholesalers (C)
334419	Other Electronic Component Mfg (E)	44111	New Car Dealers (V)
334511	Search, Detection & Navigation Instruments (E)	44112	Used Car Dealers (V)
334513	Industrial Process Variable Instruments (E)	44121	Recreational Vehicle Dealers (V)
334514	Totalizing Fluid Meters & Counting Devices (E)	44122	Motorcycle, Boat & Other Vehicle Dealers (V)
334516	Analytical Laboratory Instrument Mfg (E)	44131	Automotive Parts & Accessories Stores (V)
334517	Irradiation Apparatus Mfg (E)	44132	Tire Dealers (C)
334518	Watch, Clock & Part Mfg (E)	44133	Automotive Parts & Accessories Retailers (V)
334519	Other Measuring & Controlling Device Mfg (E)	44134	Tire Dealers (C)
33461	Mfg & Reproducing Magnetic & Optical Media (E)	44311	Appliance, TV & Other Electronics Stores (E)
33511	Electric Lamp Bulb & Part Mfg (E)	44312	Computer & Software Stores (E)
335121	Residential Electric Lighting Fixture Mfg (E)	44313	Camera & Photographic Supplies Stores (E)
335122	Nonresidential Electric Lighting Fixture Mfg (E)	44314	Electronics & Appliance Stores (E)
335129	Other Lighting Equipment Mfg (E)	44921	Electronics & Appliance Retailers (E)
335131	Residential Electric Lighting Fixture Mfg (E)	811111	General Automotive Repair (V)
335132	Comm, Indust, & Institut. Electric Lighting Fixture Mfg (E)	811112	Automotive Exhaust System Repair (V)
335139	Electric Lamp Bulb & Other Lighting Equipment Mfg (E)	811113	Automotive Transmission Repair (V)
33521	Small Electrical Appliance Mfg (E)	811114	Specialized Automotive Repair (V)
33522	Major Appliance Mfg (E)	811118	Other Automotive Mechanical & Elec. Repair (V)
335313	Switchgear & Switchboard Apparatus Mfg (E)	811121	Automotive Body & Interior Repair (V)
335314	Relay & Industrial Control Mfg (E)	811122	Automotive Glass Replacement Shops (V)
335921	Fiber Optic Cable Mfg (E)	81119	Other Automotive Repair & Maintenance (V)
335929	Other Communication & Energy Wire Mfg (E)		

# Agriculture and Food Production

## NAICS Industries Included in Cluster

11111	Soybean Farming	115112	Soil Preparation, Planting & Cultivating
11112	Oilseed, Except Soybean, Farming	115113	Crop Harvesting, Primarily By Machine
11113	Dry Pea & Bean Farming	115114	Other Postharvest Crop Activities
11114	Wheat Farming	115115	Farm Labor Contractors & Crew Leaders
11115	Corn Farming	115116	Farm Management Services
11116	Rice Farming	11521	Support Activities For Animal Production
111191	Oilseed & Grain Combination Farming	311111	Dog & Cat Food Mfg
111199	All Other Grain Farming	311119	Other Animal Food Mfg
111211	Potato Farming	311211	Flour Milling
111219	Other Vegetable & Melon Farming	311212	Rice Milling
11131	Orange Groves	311213	Malt Mfg
11132	Citrus, Except Orange, Groves	311221	Wet Corn Milling
111331	Apple Orchards	311222	Soybean Processing
111332	Grape Vineyards	311223	Other Oilseed Processing
111333	Strawberry Farming	311224	Soybean & Other Oilseed Processing
111334	Berry, Except Strawberry, Farming	311225	Fats & Oils Refining & Blending
111335	Tree Nut Farming	31123	Breakfast Cereal Mfg
111336	Fruit & Tree Nut Combination Farming	311311	Sugarcane Mills
111339	Other Noncitrus Fruit Farming	311312	Cane Sugar Refining
111411	Mushroom Production	311313	Beet Sugar Mfg
111419	Other Food Crops Grown Under Cover	311314	Sugarcane mills
111421	Nursery & Tree Production	31132	Confectionery Mfg, Cacao Beans
111422	Floriculture Production	31133	Purchased Chocolate Confectionery Mfg
11191	Tobacco Farming	31134	Nonchocolate Confectionery Mfg
11193	Sugarcane Farming	311351	Chocolate & Confectionery Mfg from Cacao Beans
11194	Hay Farming	311352	Confectionery Mfg from Purchased Chocolate
111991	Sugar Beet Farming	311411	Frozen Fruit & Vegetable Mfg
111992	Peanut Farming	311412	Frozen Specialty Food Mfg
111998	All Other Miscellaneous Crop Farming	311421	Fruit & Vegetable Canning
112111	Beef Cattle Ranching & Farming	311422	Specialty Canning
112112	Cattle Feedlots	311423	Dried & Dehydrated Food Mfg
11212	Dairy Cattle & Milk Production	311511	Fluid Milk Mfg
11221	Hog & Pig Farming	311512	Creamery Butter Mfg
11231	Chicken Egg Production	311513	Cheese Mfg
11232	Broilers & Meat Type Chicken Production	311514	Dry, Condensed & Evaporated Dairy Products
11233	Turkey Production	31152	Ice Cream & Frozen Dessert Mfg
11234	Poultry Hatcheries	311611	Animal, Except Poultry, Slaughtering
11239	Other Poultry Production	311612	Meat Processed From Carcasses
11241	Sheep Farming	311613	Rendering & Meat Byproduct Processing
11242	Goat Farming	311615	Poultry Processing
112511	Finfish Farming & Fish Hatcheries	31171	Seafood Product Preparation & Packaging
112512	Shellfish Farming	311811	Retail Bakeries
112519	Other Aquaculture	311812	Commercial Bakeries
11291	Apiculture	311813	Frozen Cakes & Other Pastries Mfg
11292	Horses & Other Equine Production	311821	Cookie & Cracker Mfg
11293	Fur-Bearing Animal & Rabbit Production	311822	Mixes & Dough Made From Purchased Flour
11299	All Other Animal Production	311823	Dry Pasta Mfg
114111	Finfish Fishing	311824	Dry Pasta & Flour Mixes Mfg from Purchased Flour
114112	Shellfish Fishing	31183	Tortilla Mfg
114119	Other Marine Fishing	311911	Roasted Nuts & Peanut Butter Mfg

## NAICS Industries Included in Cluster

311919	Other Snack Food Mfg	42441	General Line Grocery Merchant Wholesalers
31192	Coffee & Tea Mfg	42442	Packaged Frozen Food Merchant Wholesalers
31193	Flavoring Syrup & Concentrate Mfg	42443	Dairy Product Merchant Wholesalers
311941	Mayonnaise, Dressing & Sauce Mfg	42444	Poultry Product Merchant Wholesalers
311942	Spice & Extract Mfg	42445	Confectionery Merchant Wholesalers
311991	Perishable Prepared Food Mfg	42446	Fish & Seafood Merchant Wholesalers
311999	All Other Miscellaneous Food Mfg	42447	Meat & Meat Product Merchant Wholesalers
312111	Soft Drink Mfg	42448	Fruit & Vegetable Merchant Wholesalers
312112	Bottled Water Mfg	42449	Other Grocery Product Merchant Wholesalers
312113	Ice Mfg	42451	Grain & Field Bean Merchant Wholesalers
31212	Breweries	42452	Livestock Merchant Wholesalers
31213	Wineries	42459	Other Farm Product Raw Material Merch. Whls.
31214	Distilleries	42481	Beer & Ale Merchant Wholesalers
31221	Tobacco Stemming & Redrying	42482	Wine & Spirit Merchant Wholesalers
312221	Cigarette Mfg	42491	Farm Supplies Merchant Wholesalers
312229	Other Tobacco Product Mfg	42493	Nursery & Florist Merchant Wholesalers
31223	Tobacco Mfg	42494	Tobacco & Tobacco Product Merch. Whls.
325311	Nitrogenous Fertilizer Mfg	44422	Nursery, Garden & Farm Supply Stores
325312	Phosphatic Fertilizer Mfg	44424	Nursery, Garden Center, & Farm Supply Retailers
325314	Fertilizer, Mixing Only, Mfg	44521	Meat Markets
325315	Compost Mfg	44523	Fruit & Vegetable Markets
32532	Pesticide & Other Ag. Chemical Mfg.	44524	Meat Retailers
333111	Farm Machinery & Equipment Mfg	49312	Refrigerated Warehousing & Storage
333241	Food Product Machinery Mfg	49313	Farm Product Warehousing & Storage
333294	Food Product Machinery Mfg	54194	Veterinary Services
42382	Farm & Garden Equip. Merchant Wholesalers	92614	Agricultural Market & Commodity Regulation





## NAICS Industries Included in Cluster

325411	Medicinal & Botanical Manufacturing	339113	Surgical Appliance & Supplies Manufacturing
325412	Pharmaceutical Preparation Manufacturing	339114	Dental Equipment & Supplies Manufacturing
325413	In-Vitro Diagnostic Substance Manufacturing	339115	Ophthalmic Goods Manufacturing
325414	Other Biological Product Manufacturing	339116	Dental Laboratories
333314	Optical Instrument & Lens Manufacturing	54171	Physical, Engineering & Biological Research
334510	Electromedical Apparatus Manufacturing	54172	Social Science & Humanities Research
339111	Laboratory Apparatus & Furniture	621511	Medical Laboratories
339112	Surgical & Medical Instrument Manufacturing	621512	Diagnostic Imaging Centers



# Building & Construction

## NAICS Industries Included in Cluster

212311	Dimension Stone Mining & Quarrying	238991	All Other Residential Trade Contractors
212312	Crushed & Broken Limestone Mining	238992	All Other Nonresidential Trade Contractors
212313	Crushed & Broken Granite Mining	321991	Manufactured Home, Mobile Home, Mfg
212319	Other Crushed & Broken Stone Mining	321992	Prefabricated Wood Building Mfg
212321	Construction Sand & Gravel Mining	324121	Asphalt Paving Mixture & Block Mfg
236115	New Single-Family Housing Construction	324122	Asphalt Shingle & Coating Materials Mfg
236116	New Multifamily Housing Construction	32711	Pottery, Ceramics & Plumbing Fixture Mfg
236117	New Housing For-Sale Builders	32712	Clay Building Material & Refractories Mfg
236118	Residential Remodelers	327211	Flat Glass Mfg
23621	Industrial Building Construction	327212	Other Pressed & Blown Glass & Glassware
23622	Commercial Building Construction	32731	Cement Mfg
23711	Water & Sewer System Construction	32732	Ready-Mix Concrete Mfg
23721	Land Subdivision	327331	Concrete Block & Brick Mfg
23731	Highway, Street & Bridge Construction	327332	Concrete Pipe Mfg
23799	Other Heavy Construction	32739	Other Concrete Product Mfg
238111	Residential Poured Foundation Contractors	32742	Gypsum Product Mfg
238112	Nonresidential Poured Foundation Contractors	327991	Cut Stone & Stone Product Mfg
238121	Residential Structural Steel Contractors	332311	Prefabricated Metal Buildings & Components
238122	Nonresidential Structural Steel Contractors	332312	Fabricated Structural Metal Mfg
238131	Residential Framing Contractors	332321	Metal Window & Door Mfg
238132	Nonresidential Framing Contractors	332323	Ornamental & Architectural Metal Work Mfg
238141	Residential Masonry Contractors	33312	Construction Machinery Mfg
238142	Nonresidential Masonry Contractors	333411	Air Purification Equipment Mfg
238151	Residential Glass & Glazing Contractors	333412	Industrial & Commercial Fans & Blowers
238152	Nonresidential Glass & Glazing Contractors	333413	Industrial & Commercial Fan & Air Purification Equip Mfg
238161	Residential Roofing Contractors	333415	AC, Refrig., & Forced Air Heating
238162	Nonresidential Roofing Contractors	333921	Elevator & Moving Stairway Mfg
238171	Residential Siding Contractors	337212	Custom Architectural Woodwork & Millwork
238172	Nonresidential Siding Contractors	42332	Masonry Material Merchant Wholesalers
238191	Other Residential Exterior Contractors	42333	Roofing & Siding Merchant Wholesalers
238192	Other Nonresidential Exterior Contractors	42339	Other Const. Material Merchant Wholesalers
238211	Residential Electrical Contractors	42371	Hardware Merchant Wholesalers
238212	Nonresidential Electrical Contractors	42372	Plumbing Equip. Merchant Wholesalers
238221	Residential Plumbing & HVAC Contractors	42373	HVAC Equip. Merchant Wholesalers
238222	Nonresidential Plumbing & HVAC Contractors	42381	Construction Equipment Merchant Wholesalers
238291	Other Residential Equipment Contractors	42495	Paint & Supplies Merchant Wholesalers
238292	Other Nonresidential Equipment Contractors	44221	Floor Covering Stores
238311	Residential Drywall Contractors	44411	Home Centers
238312	Nonresidential Drywall Contractors	44412	Paint & Wallpaper Stores
238321	Residential Painting Contractors	44413	Hardware Stores
238322	Nonresidential Painting Contractors	44414	Hardware Retailers
238331	Residential Flooring Contractors	44418	Other Building Material Dealers
238332	Nonresidential Flooring Contractors	44419	Other Building Material Dealers
238341	Residential Tile & Terrazzo Contractors	449121	Floor Covering Retailers
238342	Nonresidential Tile & Terrazzo Contractors	45393	Manufactured, Mobile, Home Dealers
238351	Residential Finish Carpentry Contractors	45993	Manufactured/ Mobile Home Dealers
238352	Nonresidential Finish Carpentry Contractors	54131	Architectural Services
238391	Other Residential Finishing Contractors	54132	Landscape Architectural Services
238392	Other Nonresidential Finishing Contractors	54134	Drafting Services
238911	Residential Site Preparation Contractors	54135	Building Inspection Services
238912	Nonresidential Site Preparation Contractors	54141	Interior Design Services



# Business Services

## NAICS Industries Included in Cluster

Sub-clusters are notated where applicable; (M) signifies Media, Advertising & Marketing, (O) is Operational Services and (P) is Professional & Consulting Services.

42342	Office Equipment Merchant Wholesalers (O)	54111	Offices Of Lawyers (P)
42343	Computer & Software Merchant Wholesalers (O)	541199	All Other Legal Services (P)
42344	Other Commercial Equip. Merchant Wholesalers (O)	541214	Payroll Services (O)
42349	Other Professional Equip. Merchant Wholesalers (O)	54133	Engineering Services (P)
42385	Service Estab. Equip. Merchant Wholesalers (O)	54136	Geophysical Surveying & Mapping Services (P)
42399	All Other Durable Goods Merchant Wholesalers (O)	54137	Other Surveying & Mapping Services (P)
42412	Office Supplies Merchant Wholesalers (O)	54138	Testing Laboratories (P)
42511	Business To Business Electronic Markets (O)	54142	Industrial Design Services (P)
42512	Wholesale Trade Agents & Brokers (M)	54143	Graphic Design Services (M)
45321	Office Supplies & Stationery Stores (O)	54149	Other Specialized Design Services (P)
45411	Electronic Shopping & Mail-Order Houses (M)	541511	Custom Computer Programming Services (P)
45439	Other Direct Selling Establishments (M)	541512	Computer Systems Design Services (P)
45941	Office Supplies & Stationery Retailers (O)	541513	Computer Facilities Management Services (P)
511199	All Other Publishers (M)	541519	Other Computer Related Services (O)
51121	Software Publishers (M)	541611	Administrative Management Consulting Services (P)
51211	Motion Picture & Video Production (M)	541612	Human Res. Consulting Serv (P)
51212	Motion Picture & Video Distribution (M)	541613	Marketing Consulting Services (P)
512191	Teleproduction & Postproduction Services (M)	541618	Other Management Consulting Services (P)
512199	Other Motion Picture & Video Industries (M)	54162	Environmental Consulting Services (P)
51221	Record Production (M)	54169	Other Technical Consulting Services (P)
51222	Integrated Record Production & Distribution (M)	54181	Advertising Agencies (M)
51223	Music Publishers (M)	54182	Public Relations Agencies (M)
51224	Sound Recording Studios (M)	54183	Media Buying Agencies (M)
51225	Record Production & Distribution (M)	54184	Media Representatives (M)
51229	Other Sound Recording Industries (M)	54185	Outdoor Advertising (M)
513199	All Other Publishers (M)	54186	Direct Mail Advertising (M)
51321	Software Publishers (M)	54187	Advertising Material Distribution Services (M)
515111	Radio Networks (M)	54189	Other Services Related To Advertising (M)
515112	Radio Stations (M)	54191	Marketing Research & Public Opinion Polling (M)
51512	Television Broadcasting (M)	541921	Photography Studios, Portrait (M)
51521	Cable & Other Subscription Programming (M)	541922	Commercial Photography (M)
51611	Radio Broadcasting Stations (M)	54193	Translation & Interpretation Services (P)
51612	Television Broadcasting Stations (M)	54199	All Other Professional & Technical Services (P)
51621	Media Streaming Distrib. Svcs, Social Networks, & Other Media (M)	551114	Managing Offices (P)
51711	Wired & Wireless Telecommunications Carriers (O)	56111	Office Administrative Services (P)
517121	Telecommunications Resellers (O)	56121	Facilities Support Services (O)
517122	Agents for Wireless Telecommunications Services (O)	56141	Document Preparation Services (O)
51721	Wireless Telecommunications Carriers, Except Satellite (O)	561421	Telephone Answering Services (O)
51731	Wired/Wireless Telecommunications Carriers, Except Satellite (O)	561422	Telemarketing Bureaus (M)
51741	Satellite Telecommunications (O)	561492	Court Reporting & Stenotype Services (P)
51751	Cable & Other Program Distribution (O)	561499	All Other Business Support Services (O)
51781	All Other Telecommunications (O)	561611	Investigation Services (O)
51791	Other Telecommunications (O)	561612	Security Guards & Patrol Services (O)
518111	Internet Service Providers (O)	561613	Armored Car Services (O)
518112	Web Search Portals (O)	561621	Security Systems Services, Except Locksmiths (O)
51821	Data Processing, Hosting & Related Services (O)	56172	Janitorial Services (O)
51911	News Syndicates (M)	56173	Landscaping Services (O)
51913	Internet Publishing & Broadcasting & Web Search Portals (M)	56191	Packaging & Labeling Services (O)
51919	All Other Information Services (M)	56192	Convention & Trade Show Organizers (M)
51929	Web Search Portals & All Other Info Services (M)	56199	All Other Support Services (O)
532112	Passenger Car Leasing (O)	81121	Electronic & Precision Equipment Repair & Maintenance (O)
532412	Other Heavy Machinery Rental & Leasing (O)	81131	Commercial Machinery Repair & Maintenance (O)
53242	Office Equipment Rental & Leasing (O)	81391	Business Associations (P)
53249	Other Machinery Rental & Leasing (O)	81392	Professional Organizations (P)
53311	Lessors Of Nonfinancial Intangible Assets (O)	81393	Labor Unions & Similar Labor Organizations (P)



## NAICS Industries Included in Cluster

48541	School & Employee Bus Transportation	611513	Apprenticeship Training
51912	Libraries & Archives	611519	Other Technical & Trade Schools
51921	Libraries & Archives	61161	Fine Arts Schools
61111	Elementary & Secondary Schools	61163	Language Schools
61121	Junior Colleges	611691	Exam Preparation & Tutoring
61131	Colleges & Universities	611692	Automobile Driving Schools
61141	Business & Secretarial Schools	611699	Miscellaneous Schools & Instruction
61142	Computer Training	61171	Educational Support Services
61143	Management Training	62441	Child Day Care Services
611511	Cosmetology & Barber Schools	92311	Administration Of Education Programs
611512	Flight Training		



Energy

## NAICS Industries Included in Cluster

211111	Crude Petroleum & Natural Gas Extraction	333131	Mining Machinery & Equipment Mfg
211112	Natural Gas Liquid Extraction	333132	Oil & Gas Field Machinery & Equipment
21112	Crude Petroleum Extraction	333414	Heating Equipment, Except Warm Air Furnaces
21113	Natural Gas Extraction	333611	Turbine & Turbine Generator Set Units Mfg
212111	Bituminous Coal & Lignite Surface Mining	333911	Pump & Pumping Equipment Mfg
212112	Bituminous Coal Underground Mining	333914	Measuring, Dispensing, & Other Pumping Equipment Mfg
212113	Anthracite Mining	333995	Fluid Power Cylinder & Actuator Mfg
212114	Surface Coal Mining	334512	Automatic Environmental Control Mfg
212115	Underground Coal Mining	334515	Electric & Signal Test Instruments
213111	Drilling Oil & Gas Wells	335311	Electric Power & Specialty Transformer Mfg
213112	Support Activities For Oil & Gas Operations	335312	Motor & Generator Mfg
213113	Support Activities For Coal Mining	33591	Battery Mfg
221111	Hydroelectric Power Generation	335931	Current-Carrying Wiring Device Mfg
221112	Fossil Fuel Electric Power Generation	335999	Miscellaneous Electrical Equipment Mfg
221113	Nuclear Electric Power Generation	42352	Coal & Other Mineral Merchant Wholesalers
221114	Solar Electric Power Generation	42393	Recyclable Material Merchant Wholesalers
221115	Wind Electric Power Generation	42471	Petroleum Bulk Stations & Terminals
221116	Geothermal Electric Power Generation	42472	Other Petroleum Merchant Wholesalers
221117	Biomass Electric Power Generation	45431	Fuel Dealers
221118	Other Electric Power Generation	45721	Fuel Dealers
221119	Other Electric Power Generation	48611	Pipeline Transportation Of Crude Oil
221121	Electric Bulk Power Transmission & Control	48621	Pipeline Transportation Of Natural Gas
221122	Electric Power Distribution	48691	Refined Petroleum Product Pipeline Transport.
22121	Natural Gas Distribution	562111	Solid Waste Collection
22131	Water Supply & Irrigation Systems	562119	Other Waste Collection
22132	Sewage Treatment Facilities	562213	Solid Waste Combustors & Incinerators
22133	Steam & Air-Conditioning Supply	562219	Other Nonhazardous Waste Disposal
23712	Oil & Gas Pipeline Construction	562991	Septic Tank & Related Services
23713	Power & Communication System Construction	562998	Miscellaneous Waste Management Services
32411	Petroleum Refineries	813312	Environment & Conservation Organizations
324199	All Other Petroleum & Coal Products Mfg	92411	Air, Water & Waste Program Administration
325193	Ethyl Alcohol Mfg	92613	Utility Regulation & Administration
325199	All Other Basic Organic Chemical Mfg		





## NAICS Industries Included in Cluster

42345	Medical Equipment Merchant Wholesalers	621492	Kidney Dialysis Centers
42346	Ophthalmic Goods Merchant Wholesalers	621493	Freestanding Emergency Medical Centers
42421	Druggists' Goods Merchant Wholesalers	621498	All Other Outpatient Care Centers
44613	Optical Goods Stores	62161	Home Health Care Services
44619	Other Health & Personal Care Stores	62191	Ambulance Services
45613	Optical Goods Retailers	621991	Blood & Organ Banks
456191	Food/Health Supplement Retailers	621999	Miscellaneous Ambulatory Health Care Services
456199	All Other Health & Personal Care Retailers	62211	General Medical & Surgical Hospitals
524113	Direct Life Insurance Carriers	62221	Psychiatric & Substance Abuse Hospitals
524114	Direct Health & Medical Insurance Carriers	62231	Other Hospitals
52512	Health & Welfare Funds	62311	Nursing Care Facilities (Skilled)
532283	Home Health Equipment Rental	62321	Residential Intellectual & Developmental Disability Facilities
532291	Home Health Equipment Rental (Old code)	62322	Residential Mental & Substance Abuse Care
621111	Offices Of Physicians, Except Mental Health	623311	Continuing Care Retirement Communities
621112	Offices Of Mental Health Physicians	623312	Assisted Living Facilities for the Elderly
62121	Offices Of Dentists	62399	Other Residential Care Facilities
62131	Offices Of Chiropractors	62411	Child & Youth Services
62132	Offices Of Optometrists	62412	Services For The Elderly & Disabled
62133	Offices Of Mental Health Practitioners	62419	Other Individual & Family Services
62134	Offices Of Specialty Therapists	624221	Temporary Shelters
621391	Offices Of Podiatrists	62423	Emergency & Other Relief Services
621399	Offices Of Miscellaneous Health Practitioners	813212	Voluntary Health Organizations
62141	Family Planning Centers	92312	Administration Of Public Health Programs
62142	Outpatient Mental Health Centers	92314	Administration Of Veterans' Affairs
621491	HMO Medical Centers		



# Hospitality, Leisure & Entertainment

## NAICS Industries Included in Cluster

42391	Sporting Goods Merchant Wholesalers	71141	Agents & Managers For Public Figures
42392	Toy & Hobby Goods Merchant Wholesalers	71151	Independent Artists, Writers & Performers
42431	Piece Goods Merchant Wholesalers	71211	Museums
45111	Sporting Goods Stores	71212	Historical Sites
45112	Hobby, Toy & Game Stores	71213	Zoos & Botanical Gardens
45113	Sewing, Needlework & Piece Goods Stores	71219	Nature Parks & Other Similar Institutions
45114	Musical Instrument & Supplies Stores	71311	Amusement & Theme Parks
45322	Gift, Novelty & Souvenir Stores	71312	Amusement Arcades
45392	Art Dealers	71321	Casinos, Except Casino Hotels
45911	Sporting Goods Retailers	71329	Other Gambling Industries
45912	Hobby, Toy, & Game Retailers	71391	Golf Courses & Country Clubs
45913	Sewing, Needlework, & Piece Goods Retailers	71392	Skiing Facilities
45914	Musical Instrument & Supplies Retailers	71393	Marinas
45942	Gift, Novelty, & Souvenir Retailers	71394	Fitness & Recreational Sports Centers
45992	Art Dealers	71395	Bowling Centers
48711	Scenic & Sightseeing Transportation, Land	71399	All Other Amusement & Recreation Industries
48721	Scenic & Sightseeing Transportation, Water	72111	Hotels & Motels, Except Casino Hotels
48799	Scenic & Sightseeing Transportation, Other	72112	Casino Hotels
512131	Motion Picture Theaters, Except Drive-Ins	721191	Bed-And-Breakfast Inns
512132	Drive-In Motion Picture Theaters	721199	All Other Traveler Accommodation
532284	Recreational Goods Rental	721211	RV Parks & Campgrounds
532292	Recreational Goods Rental (old code)	721214	Recreational & Vacation Camps
56151	Travel Agencies	72131	Rooming & Boarding Houses
56152	Tour Operators	72211	Full-Service Restaurants
561591	Convention & Visitors Bureaus	722211	Limited-Service Restaurants
561599	All Other Travel Arrangement Services	722212	Cafeterias, Grill Buffets & Buffets
61162	Sports & Recreation Instruction	722213	Snack & Nonalcoholic Beverage Bars
71111	Theater Companies & Dinner Theaters	72231	Food Service Contractors
71112	Dance Companies	72232	Caterers
71113	Musical Groups & Artists	72233	Mobile Food Services
71119	Other Performing Arts Companies	72241	Drinking Places, Alcoholic Beverages
711211	Sports Teams & Clubs	722511	Full-Service Restaurants
711212	Racetracks	722513	Limited-Service Restaurants
711219	Other Spectator Sports	722514	Cafeterias, Grill Buffets & Buffets
71131	Promoters With Facilities	722515	Snack & Nonalcoholic Beverage Bars
71132	Promoters Without Facilities		



# Logistics and Transportation

## NAICS Industries Included in Cluster

481111	Scheduled Passenger Air Transportation	48551	Charter Bus Industry
481112	Scheduled Freight Air Transportation	48599	Other Ground Passenger Transportation
481211	Nonscheduled Air Passenger Chartering	48699	All Other Pipeline Transportation
481212	Nonscheduled Air Freight Chartering	488111	Air Traffic Control
481219	Other Nonscheduled Air Transportation	488119	Other Airport Operations
482111	Line-Haul Railroads	48819	Other Support Activities For Air Transport.
482112	Short Line Railroads	48821	Support Activities For Rail Transportation
483111	Deep Sea Freight Transportation	48831	Port & Harbor Operations
483112	Deep Sea Passenger Transportation	48832	Marine Cargo Handling
483113	Coastal & Great Lakes Freight Transport.	48833	Navigational Services To Shipping
483114	Coastal & Great Lakes Passenger Transport.	48839	Other Support Activities For Water Transport.
483211	Inland Water Freight Transportation	48841	Motor Vehicle Towing
483212	Inland Water Passenger Transportation	48849	Other Support Activities For Road Transport.
48411	General Freight Trucking, Local	48851	Freight Transportation Arrangement
484121	General Freight Trucking, Long-Distance TL	488991	Packing & Crating
484122	General Freight Trucking, Long-Distance LTL	488999	All Other Support Activities For Transport.
48421	Used Household & Office Goods Moving	49211	Couriers
48422	Other Specialized Trucking, Local	49221	Local Messengers & Local Delivery
48423	Other Specialized Trucking, Long-Distance	49311	General Warehousing & Storage
485111	Mixed Mode Transit Systems	49319	Other Warehousing & Storage
485112	Commuter Rail Systems	53113	Miniwarehouses & Self-Storage Units
485113	Bus & Other Motor Vehicle Transit Systems	532111	Passenger Car Rental
485119	Other Urban Transit Systems	53212	Truck, Trailer & RV Rental & Leasing
48521	Interurban & Rural Bus Transportation	532411	Transportation Equipment Rental & Leasing
48531	Taxi Service	541614	Process & Logistics Consulting Services
48532	Limousine Service	562112	Hazardous Waste Collection

# Real Estate, Finance & Insurance

## NAICS Industries Included in Cluster

52111	Monetary Authorities - Central Bank	523999	Miscellaneous Financial Investment Activities
52211	Commercial Banking	524128	Other Direct Insurance Carriers
52212	Savings Institutions	52413	Reinsurance Carriers
52213	Credit Unions	52421	Insurance Agencies & Brokerages
52218	Savings Institutions & Other Depository Credit Intermediation	524291	Claims Adjusting
52219	Other Depository Credit Intermediation	524292	Third Party Administration Of Insurance Funds
52221	Credit Card Issuing	524298	All Other Insurance Related Activities
52222	Sales Financing	52511	Pension Funds
522291	Consumer Lending	52519	Other Insurance Funds
522292	Real Estate Credit	52591	Open-End Investment Funds
522293	International Trade Financing	52592	Trusts, Estates & Agency Accounts
522294	Secondary Market Financing	52593	Real Estate Investment Trusts
522298	All Other Nondepository Credit Intermediation	52599	Other Financial Vehicles
522299	International, Secondary Market, & All Other Nondep. Credit Intermediation	53111	Lessors of Residential Buildings
52231	Mortgage & Nonmortgage Loan Brokers	53112	Lessors of Nonresidential Buildings
52232	Financial Transaction Processing & Clearing	53119	Lessors of Other R.E. Property
52239	Other Credit Intermediation Activities	53121	Offices Of Real Estate Agents & Brokers
52311	Investment Banking & Securities Dealing	531311	Residential Property Managers
52312	Securities Brokerage	531312	Nonresidential Property Managers
52313	Commodity Contracts Dealing	53132	Offices Of Real Estate Appraisers
52314	Commodity Contracts Brokerage	53139	Other Activities Related To Real Estate
52315	Investment Banking & Securities Intermediation	541191	Title Abstract & Settlement Offices
52316	Commodity Contracts Intermediation	541211	Offices Of Certified Public Accountants
52321	Securities & Commodity Exchanges	541219	Other Accounting Services
52391	Miscellaneous Intermediation	551111	Offices Of Bank Holding Companies
52392	Portfolio Management	551112	Offices Of Other Holding Companies
52393	Investment Advice	56144	Collection Agencies
52394	Portfolio Management & Investment Advice	56145	Credit Bureaus
523991	Trust, Fiduciary & Custody Activities	561491	Repossession Services

# Wood, Wood Products & Publishing

## NAICS Industries Included in Cluster

11311	Timber Tract Operations	322299	All Other Converted Paper Product Mfg
11321	Forest Nursery & Gathering Forest Products	32311	Printing
11331	Logging	32312	Support Activities For Printing
11531	Support Activities For Forestry	33321	Sawmill & Woodworking Machinery
321113	Sawmills	333243	Sawmill, Woodworking & Paper Machinery Mfg
321114	Wood Preservation	333244	Printing Machinery & Equipment Mfg
321211	Hardwood Veneer & Plywood Mfg	333291	Paper Industry Machinery Mfg
321212	Softwood Veneer & Plywood Mfg	333293	Printing Machinery & Equipment
321213	Engineered Wood Member Mfg	33711	Wood Kitchen Cabinet & Countertop Mfg
321214	Truss Mfg	337122	Nonupholstered Wood Household Furniture Mfg
321215	Engineered Wood Member Mfg	337129	Wood TV, Radio, & Sewing Machine Housing
321219	Reconstituted Wood Product Mfg	337211	Wood Office Furniture Mfg
321911	Wood Window & Door Mfg	42331	Lumber & Wood Merchant Wholesalers
321912	Cut Stock, Resawing Lumber & Planing	42411	Printing & Writing Paper Merch. Whls.
321918	Other Millwork, Including Flooring	42413	Industrial Paper Merchant Wholesalers
32192	Wood Container & Pallet Mfg	42492	Book & Periodical Merchant Wholesalers
321999	All Other Miscellaneous Wood Product Mfg	451211	Book Stores
32211	Pulp Mills	451212	News Dealers & Newsstands
32212	Paper Mills	45921	Book Retailers & News Dealers
32213	Paperboard Mills	51111	Newspaper Publishers
322211	Corrugated & Solid Fiber Box Mfg	51112	Periodical Publishers
322212	Folding Paperboard Box Mfg	51113	Book Publishers
322213	Setup Paperboard Box Mfg	51114	Directory & Mailing List Publishers
322214	Fiber Can, Tube & Drum Mfg	511191	Greeting Card Publishers
322215	Nonfolding Food Container Mfg	51311	Newspaper Publishers
322219	Other Paperboard Container Mfg	51312	Periodical Publishers
32222	Paper Bag & Coated & Treated Paper Mfg	51313	Book Publishers
32223	Stationery Product Mfg	51314	Directory & Mailing List Publishers
322291	Sanitary Paper Product Mfg	513191	Greeting Card Publishers