

Advanced Materials and Diversified Manufacturing

Top 5 Employing Industries

27.5% of Cluster Jobs

- All Other Plastics Product Mfg.
- Iron and Steel Mills
- Machine Shops
- Analytical Laboratory Instrument Mfg.
- Book Printing

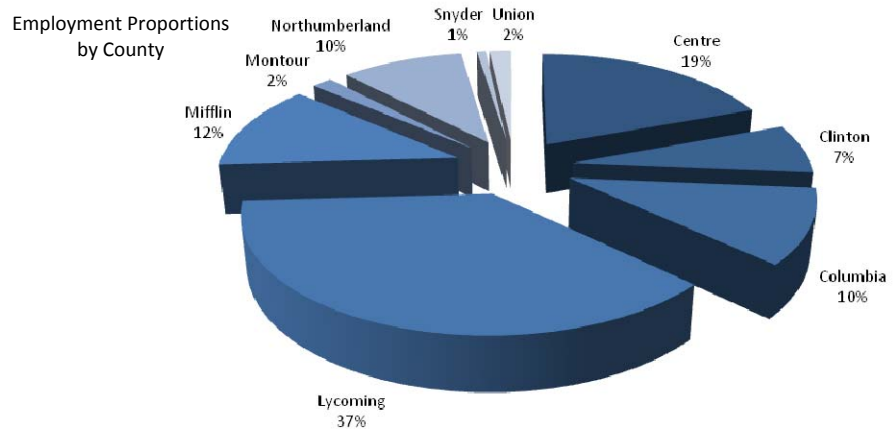
Other industries Included in the Advanced Materials & Diversified Manufacturing Cluster³

- Aircraft Engine and Engine Parts Manufacturing
- All Other Rubber Product Manufacturing
- Other Aircraft Parts and Auxiliary Equipment Manufacturing
- Other Aluminum Rolling and Drawing
- Other Commercial Printing
- Plastics Bag and Pouch Manufacturing
- Printed Circuit Assembly (Electronic Assembly) Manufacturing
- Railroad Rolling Stock Manufacturing
- Sheet Metal Work Manufacturing
- Steel Wire Drawing

- (1) Number of individual establishments or physical locations of a certain economic activity.
- (2) Location Quotient (LQ) is a statistical measure that compares the concentration of employment in a local industry cluster to the concentration of employment in the same cluster statewide or nationally. An LQ of greater than 1.0 suggests that a locale has a competitive advantage within a cluster and is producing goods or services in excess of the local consumption, thus resulting in exportation of goods or services. An LQ of less than one suggests that an industry is falling behind local demand and is importing the good or service.
- (3) Industries included in the nine-county Central Pennsylvania region. Not all industries may be present in each individual county.

Cluster Statistics

Based on the North American Industrial Classification System (NAICS)	Central Pennsylvania
Employer Units ¹	301
Number of Jobs	12,845
Net Change in Job Volume	-3,340
Percent Change in Job Volume	-20.6%
Percent of Total Region Jobs	3.6%
Current Industry Earnings	\$55,290
Estimated Cluster Payroll	\$710,200,050
State Location Quotient ²	1.04
Change in State Location Quotient	-0.07
National Location Quotient ²	1.31
Change in National Location Quotient	-0.05



Five Most Common Occupations and Median Hourly Wages

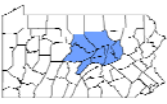
High priority occupations are shown in *italics*

<i>Team assemblers</i>	\$11.82
<i>Machinists</i>	\$17.59
<i>Printing machine operators</i>	\$16.07
<i>First-line supervisors/managers of production and operating workers</i>	\$21.31
<i>Extruding and drawing machine setters, operators, and tenders, metal and</i>	\$18.21

Competitive Industries by National LQ

Individual industries could demonstrate a high LQ due to the uniqueness of the business's primary function rather than competitiveness factors

Steel Wire Drawing	27.37
Electron Tube Manufacturing	24.82
Other Aluminum Rolling and Drawing	19.62
Electronic Resistor Manufacturing	16.03
Books Printing	9.94



Education

(excludes public education industries)

Top 5 Employing Industries

87.2% of Cluster Jobs

- Colleges, Universities, and Professional Schools
- Child Day Care Services
- School and Employee Bus Transportation
- Elementary and Secondary Schools
- Fine Arts Schools

Other industries Included in the Education Cluster³

- All Other Miscellaneous Schools and Instruction
- Apprenticeship Training
- Educational Support Services
- Exam Preparation and Tutoring
- Junior Colleges
- Libraries and Archives
- Other Technical and Trade Schools
- Professional and Management Development Training

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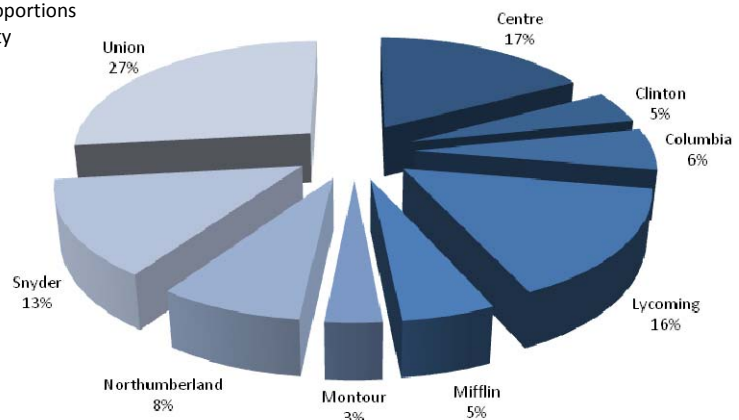
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Cluster Statistics

Based on the North American Industrial Classification System (NAICS)	Central Pennsylvania
Employer Units ¹	384
Number of Jobs	12,301
Net Change in Job Volume	1,248
Percent Change in Job Volume	11.3%
Percent of Total Region Jobs	3.47%
Current Industry Earnings	\$31,948
Estimated Cluster Payroll	\$392,992,348
State Location Quotient ²	0.67
Change in State Location Quotient	-0.30
National Location Quotient ²	0.62
Change in National Location Quotient	-0.18

Employment Proportions by County



Five Most Common Occupations and Median Hourly Wages

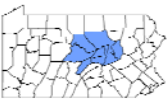
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<i>Child care workers</i>	<i>\$7.87</i>
Bus drivers, school	\$10.79
<i>Elementary school teachers, except special education</i>	<i>\$31.92</i>
<i>Teacher assistants</i>	<i>\$14.89</i>
Postsecondary teachers	\$38.01

Competitive Industries by National LQ

Individual industries could demonstrate a high LQ due to the uniqueness of the business's primary function rather than competitiveness factors

Libraries and Archives	3.81
School and Employee Bus Transportation	3.35
Apprenticeship Training	1.62
Colleges, Universities, and Professional Schools	1.44
Child Day Care Services	0.80



Energy

Top 5 Employing Industries

60.6% of Cluster Jobs

- Power and Communication Line and Related Structures Construction
- Solid Waste Collection
- Fossil Fuel Electric Power Generation
- Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals)
- Electric Power Distribution

Other industries included in the Energy Cluster³

- All Other Petroleum and Coal Products Mfg
- Anthracite Mining
- Bituminous Coal and Lignite Surface Mining
- Crude Petroleum and Natural Gas Extraction
- Current-Carrying Wiring Device Mfg
- Heating Equipment (except Warm Air Furnaces) Mfg
- Natural Gas Distribution
- Petroleum Bulk Stations and Terminals
- Pipeline Transportation of Natural Gas
- Support Activities for Oil and Gas Operations

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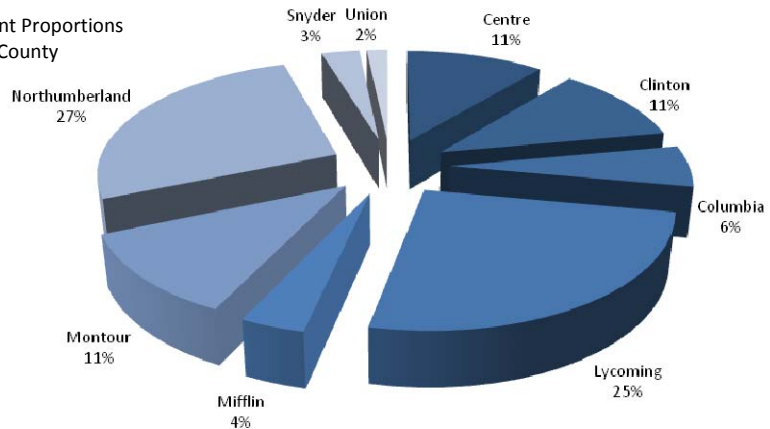
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Cluster Statistics

Based on the North American Industrial Classification System (NAICS)	Central Pennsylvania
Employer Units ¹	162
Number of Jobs	3,209
Net Change in Job Volume	377
Percent Change in Job Volume	13.3%
Percent of Total Region Jobs	0.91%
Current Industry Earnings	\$71,482
Estimated Cluster Payroll	\$229,385,738
State Location Quotient ²	0.75
Change in State Location Quotient	-0.02
National Location Quotient ²	0.68
Change in National Location Quotient	-0.01

Employment Proportions by County



Five Most Common Occupations and Median Hourly Wages

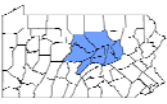
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<i>Truck drivers, heavy and tractor-trailer</i>	\$18.52
<i>Electrical power-line installers and repairers</i>	\$27.94
<i>Operating engineers and other construction equipment operators</i>	\$16.55
Power plant operators	\$27.03
<i>Construction laborers</i>	\$13.94

Competitive Industries by National LQ

Individual industries could demonstrate a high LQ due to the uniqueness of the business's primary function rather than competitiveness factors

Anthracite Mining	26.55
Coal and Other Mineral and Ore Merchant Wholesalers	5.30
All Other Petroleum and Coal Products Manufacturing	4.27
Heating Equipment (except Warm Air Furnaces) Manufacturing	3.83
Pipeline Transportation of Natural Gas	2.64



Health Care

Top 5 Employing Industries

66.3% of Cluster Jobs

- General Medical and Surgical Hospitals
- Nursing Care Facilities
- Offices of Physicians (except Mental Health Specialists)
- Home Health Care Services
- Continuing Care Retirement Communities

Other industries included in the Health Care Cluster³

- All Other Outpatient Care Centers
- Ambulance Services
- Direct Health and Medical Insurance Carriers
- Homes for the Elderly
- Offices of All Other Miscellaneous Health Practitioners
- Offices of Chiropractors
- Offices of Dentists
- Offices of Mental Health Practitioners (except Physicians)
- Offices of Optometrists
- Offices of Physical, Occupational and Speech Therapists, and Audiologists
- Other Residential Care Facilities
- Outpatient Mental Health and Substance Abuse Centers
- Psychiatric and Substance Abuse Hospitals
- Residential Mental Health and Substance Abuse Facilities
- Residential Mental Retardation Facilities

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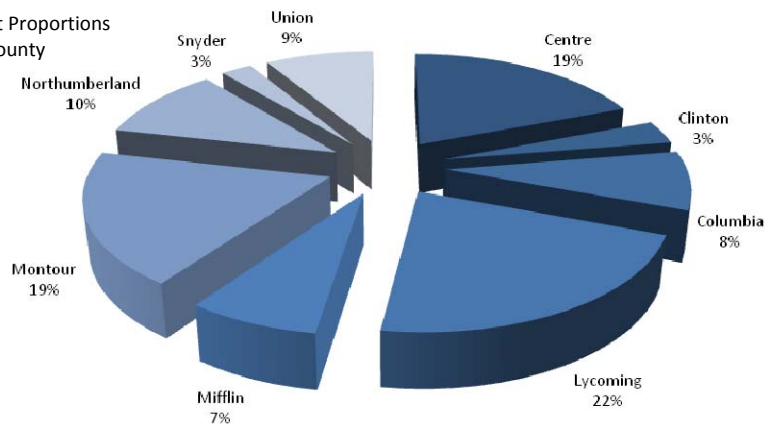
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Cluster Statistics

Based on the North American Industrial Classification System (NAICS)	Central Pennsylvania
Employer Units ¹	1,131
Number of Jobs	33,792
Net Change in Job Volume	2,305
Percent Change in Job Volume	7.3%
Percent of Total Region Jobs	9.54%
Current Industry Earnings	\$54,896
Estimated Cluster Payroll	\$1,855,045,632
State Location Quotient ²	0.80
Change in State Location Quotient	0.00
National Location Quotient ²	1.04
Change in National Location Quotient	-0.03

Employment Proportions by County



Five Most Common Occupations and Median Hourly Wages

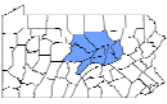
High priority occupations are shown in *italics*

<i>Registered nurses</i>	\$27.31
<i>Nursing aides, orderlies, and attendants</i>	\$12.14
<i>Home health aides</i>	\$8.95
<i>Licensed practical and licensed vocational nurses</i>	\$17.44
Physicians and surgeons	\$69.56

Competitive Industries by National LQ

Individual industries could demonstrate a high LQ due to the uniqueness of the business's primary function rather than competitiveness factors

All Other Outpatient Care Centers	8.06
Continuing Care Retirement Communities	2.23
Residential Mental Retardation Facilities	1.53
Ambulance Services	1.52
Offices of Mental Health Practitioners (except Physicians)	1.46



Lumber, Wood, & Paper

Top 5 Employing Industries

57.9% of Cluster Jobs

- Wood Kitchen Cabinet and Countertop Manufacturing
- Sanitary Paper Product Manufacturing
- Sawmills
- Paper Industry Machinery Manufacturing
- Logging

Other industries included in the Lumber, Wood, & Paper Cluster³

- All Other Converted Paper Product Mfg.
- All Other Miscellaneous Wood Product Mfg.
- Coated and Laminated Paper Mfg.
- Corrugated and Solid Fiber Box Mfg.
- Cut Stock, Resawing Lumber, and Planing
- Lumber, Plywood, Millwork, and Wood Panel Merchant Wholesalers
- Nonupholstered Wood Household Furniture Mfg.
- Other Millwork (including Flooring)
- Paper (except Newsprint) Mills
- Support Activities for Forestry
- Truss Mfg.
- Wood Container and Pallet Mfg.
- Wood Office Furniture Mfg.
- Wood Preservation
- Wood Window and Door Mfg.

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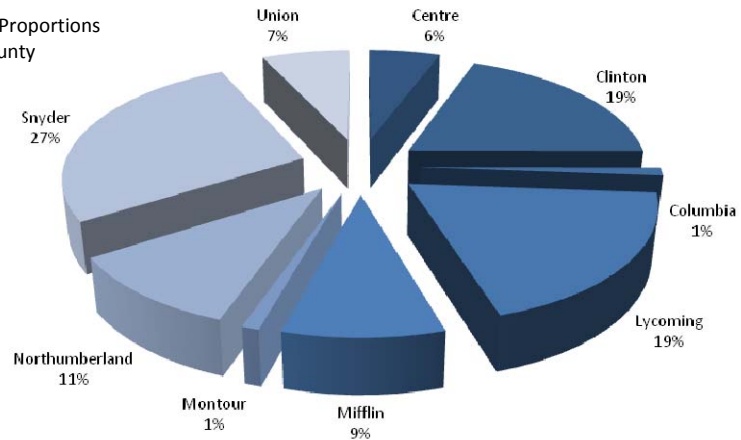
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Cluster Statistics

Based on the North American Industrial Classification System (NAICS)	Central Pennsylvania
Employer Units ¹	203
Number of Jobs	8,427
Net Change in Job Volume	-2,573
Percent Change in Job Volume	-23.4%
Percent of Total Region Jobs	2.38%
Current Industry Earnings	\$51,179
Estimated Cluster Payroll	\$431,285,433
State Location Quotient ²	2.78
Change in State Location Quotient	-0.16
National Location Quotient ²	3.52
Change in National Location Quotient	0.07

Employment Proportions by County



Five Most Common Occupations and Median Hourly Wages

High priority occupations are shown in *italics*

<i>Cabinetmakers and bench carpenters</i>	\$15.10
<i>Team assemblers</i>	\$11.82
<i>Paper goods machine setters, operators, and tenders</i>	\$15.48
<i>Carpenters</i>	\$16.02
<i>Woodworking machine setters, operators, and tenders, except sawing</i>	\$13.32

Competitive Industries by National LQ

Individual industries could demonstrate a high LQ due to the uniqueness of the business's primary function rather than competitiveness factors

Sanitary Paper Product Manufacturing	24.06
Paper Industry Machinery Manufacturing	21.55
Wood Kitchen Cabinet and Countertop Manufacturing	7.75
Cut Stock, Resawing Lumber, and Planing	6.13
Wood Office Furniture Manufacturing	5.87