

Commuting Patterns
by Major Industry
in the
Northwest Workforce
Investment Area



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INTRODUCTION

Acknowledgements

The *Commuting Patterns by Major Industry in the Northwest Workforce Investment Area* report was prepared by the Central Pennsylvania Workforce Development Corporation (CPWDC) for the Northwest Workforce Investment Area. Commuting pattern data is provided by the U.S. Department of Commerce's Bureau of Economic Analysis. The analysis presented in this report was conducted by the CPWDC on behalf of the Regional Center for Workforce Excellence as part of the Industry Cluster Research Initiative.

Disclaimer

The Central Pennsylvania Workforce Development Corporation (CPWDC) cannot guarantee the accuracy of the commuting pattern data provided by the Bureau of Economic Analysis. This report merely identifies the major industries for which individuals commute to or from the Northwest Region. The focus of this report is *not* the county of work for out-commuters or county of residence for in-commuters.

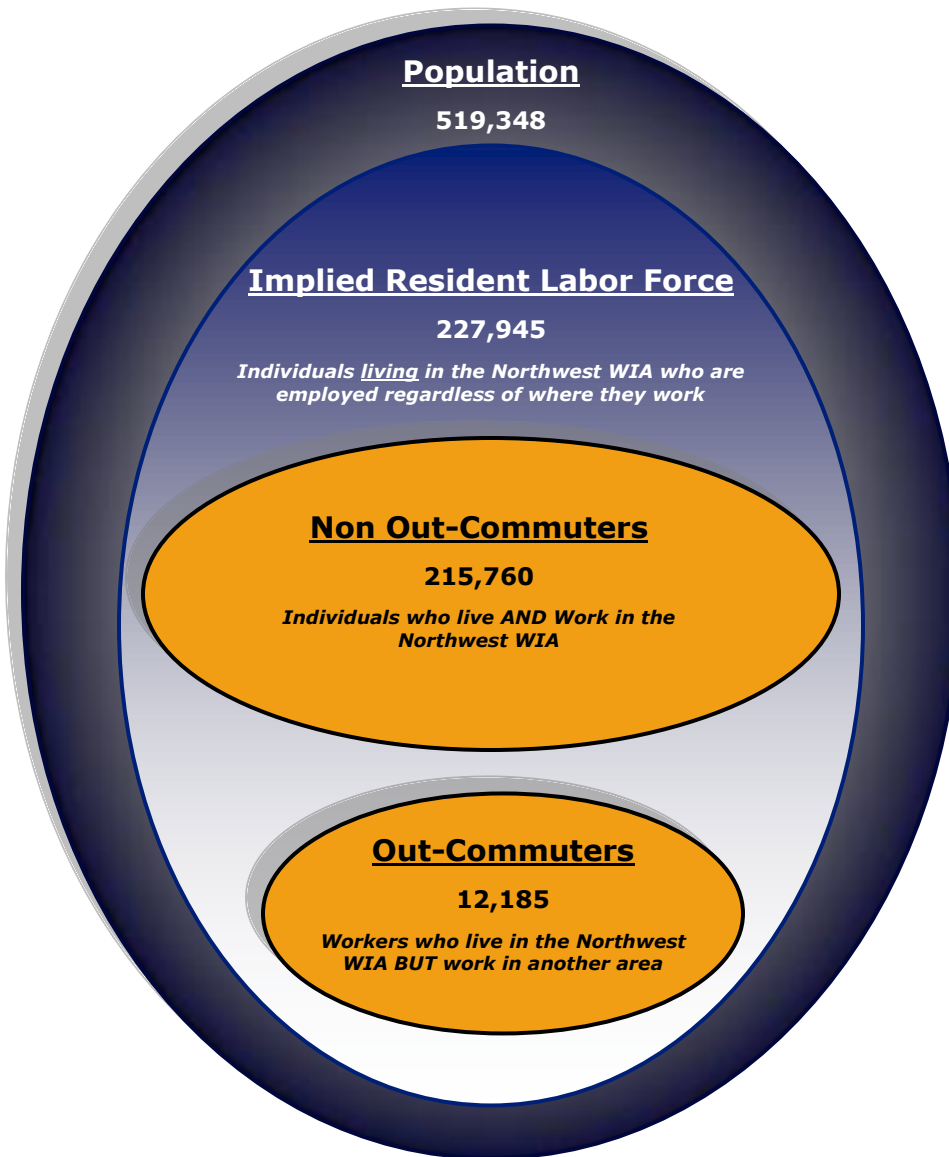
Background

- Commuting pattern data provided by the Bureau of Economic Analysis is based on the 2000 Census. Population estimates are based on the 2000 Census.
- According to the Bureau of Economic Analysis (BEA), the total number of workers commuting between counties of residence and counties of work for 2000 is equal to the sum of the number of commuters by major industry for each separate county of residence/county of work combination. Therefore, the number of commuters between place-of-work and place-of-residence counties for the year 2000 will differ from that according to the Census Bureau's website.
- **Out-commuter:** An employed individual who lives in one county but works in another county.
- **In-commuter:** An individual who works in one county but lives in another county.
- BEA identifies 11 major industries: Construction; Federal Civilian + Military; Forestry + Fishing + Ag Support + Farms + Mining; Information + Finance & Insurance + Real Estate; Manufacturing; Private Households; Self-Employed (Part) + Unpaid Family Workers; Services (Except Private Households); State & Local Government; Utilities + Transportation & Warehousing; and Wholesale Trade + Retail Trade.
- Information contained in this report is useful for **economic developers** (What types of industries are attractive to workers?), **CareerLink staff** (What industries in other areas are employing workers from the local area? What local firms are employing workers from outside areas?), and **workforce professionals** (How are workforce demands met by workers from local and outside areas?).
- Based on the number of out- and in-commuters, an area may import or export workers. A higher level of out-commuters results in a net export of workers, suggesting possibly that the area has a relatively high standard of living but not the higher paying jobs to employ its resident workforce. A higher level of in-commuters results in a net import of workers, suggesting the area has a particular competitive advantage across all industries but cannot meet its workforce demands by the labor pool living in the area alone.
- An area that has a relatively high proportion of out-commuters employed in a particular industry compared to the proportion of area residents working in that same industry suggests that the area may have a high concentration of skilled workers for that industry. An area that has a relatively high proportion of in-commuters in an industry compared to the proportion of area residents employed in that same industry suggests that the area may have a competitive advantage in that industry.

Results

The following sections identify the major industries for which individuals out-commuted from the Northwest Workforce Investment Area (WIA) and the major industries for which individuals in-commuted to the Northwest WIA. Information is presented for the region and its constituent counties (Clarion, Crawford, Erie, Forest, Venango, and Warren Counties).

NORTHWEST WIA Commuting Patterns



- About 44% of the population living in the Northwest WIA is employed in and out of the region (Implied Resident Labor Force).
 - About 95% of all employed individuals living in the Northwest WIA also work in the Northwest WIA (Non Out-Commuters).
 - The other 5% of all employed individuals living in the Northwest WIA work outside of the region (Out-Commuters).

- Overall, there are about 226,000 jobs in the Northwest WIA held by individuals living in and out of the region (Implied Workforce) (not pictured).
 - About 95% of all Northwest WIA jobs are held by Northwest WIA residents (Non Out-Commuters OR Non In-Commuters) (not pictured).
 - The remaining 5% of all Northwest WIA jobs are held by individuals who do not live in the Northwest WIA (In-Commuters) (not pictured).

NORTHWEST WIA Commuting Patterns

About 95% of the 227,945 workers who reside in the Northwest WIA also work in the Northwest WIA.

About 95% of the 226,129 jobs in the Northwest WIA are held by individuals who also reside in the Northwest WIA.

The following chart identifies the major industries in which the 215,760 individuals who reside and work in the Northwest WIA are employed:

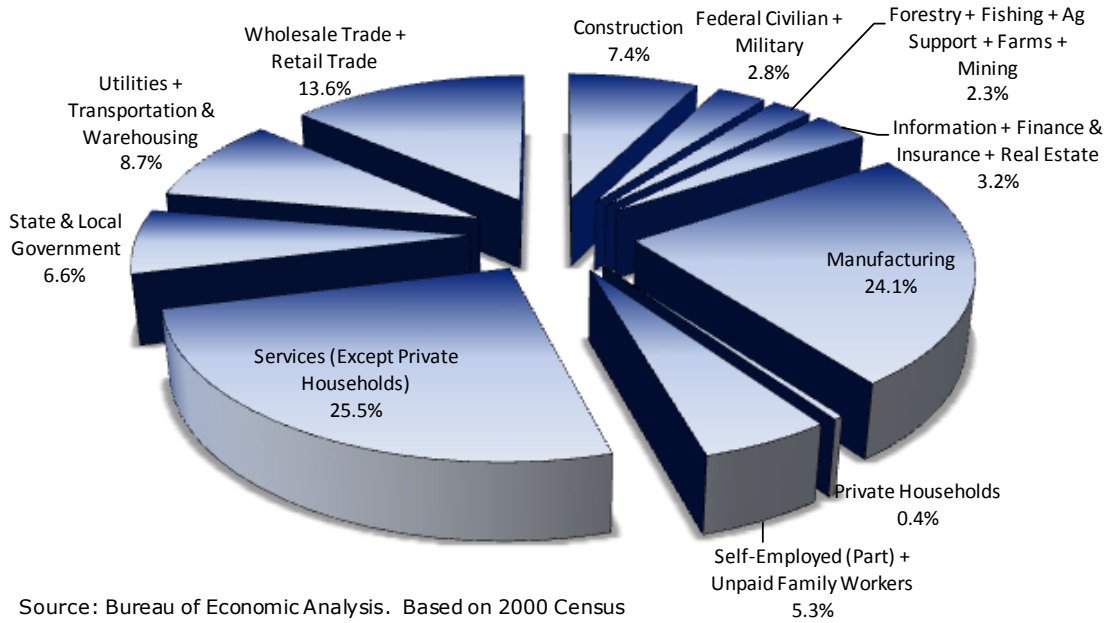
Northwest WIA	Count	Percent
Individuals Living and Working in the Northwest WIA	215,760	100.0%
Construction	6,725	3.1%
Federal Civilian + Military	3,476	1.6%
Forestry + Fishing + Ag Support + Farms + Mining	1,782	0.8%
Information + Finance & Insurance + Real Estate	12,125	5.6%
Manufacturing	49,751	23.1%
Private Households	262	0.1%
Self-Employed (Part) + Unpaid Family Workers	15,615	7.2%
Services (Except Private Households)	67,516	31.3%
State & Local Government	22,225	10.3%
Utilities + Transportation & Warehousing	5,401	2.5%
Wholesale Trade + Retail Trade	30,882	14.3%

According to the Census commuting patterns provided by BEA, there is a net export of 1,816 workers commuting from the Northwest WIA to other areas.

- ✓ 12,185 workers out-commuting from the Northwest WIA
- ✓ 10,369 workers in-commuting to the Northwest WIA

The following chart identifies the major industries in which the 12,185 out-commuters of the Northwest WIA are employed:

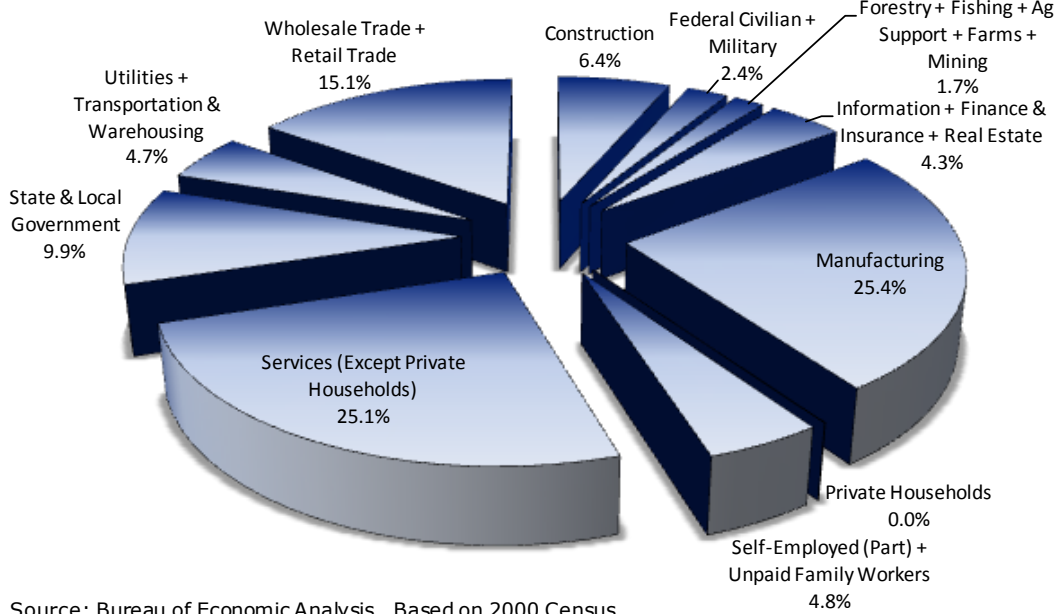
Northwest WIA Out-Commuters



Source: Bureau of Economic Analysis. Based on 2000 Census

The following chart identifies the major industries in which the 10,369 in-commuters to the Northwest WIA are employed:

Northwest WIA In-Commuters



Source: Bureau of Economic Analysis. Based on 2000 Census

Higher proportions of commuters compared to Northwest WIA resident workers are apparent in the industries of:

Out-Commuters

- Construction
- Federal Civilian + Military
- Forestry + Fishing + Ag Support + Farms + Mining
- Manufacturing
- Private Households
- Utilities + Transportation & Warehousing

In-Commuters

- Construction
- Federal Civilian + Military
- Forestry + Fishing + Ag Support + Farms + Mining
- Manufacturing
- Utilities + Transportation & Warehousing
- Wholesale Trade + Retail Trade

CLARION COUNTY Commuting Patterns



- **About 42% of the population living in Clarion County is employed in and out of the county (Implied Resident Labor Force).**
 - About 74% of all employed individuals living in Clarion County also work in Clarion County (Non Out-Commuters).
 - The other 26% of all employed individuals living in Clarion County work outside of the county (Out-Commuters).

- **Overall, there are about 16,000 jobs in Clarion County held by individuals living in and out of the county (Implied Workforce) (not pictured).**
 - About 80% of all Clarion County jobs are held by Clarion County residents (Non Out-Commuters OR Non In-Commuters) (not pictured).
 - The remaining 20% of all Clarion County jobs are held by individuals who do not live in Clarion County (In-Commuters) (not pictured).

Clarion County Commuting Patterns

About 74% of the 17,497 workers who reside in Clarion County also work in Clarion County.

About 80% of the 16,264 jobs in Clarion County are held by individuals who also reside in Clarion County.

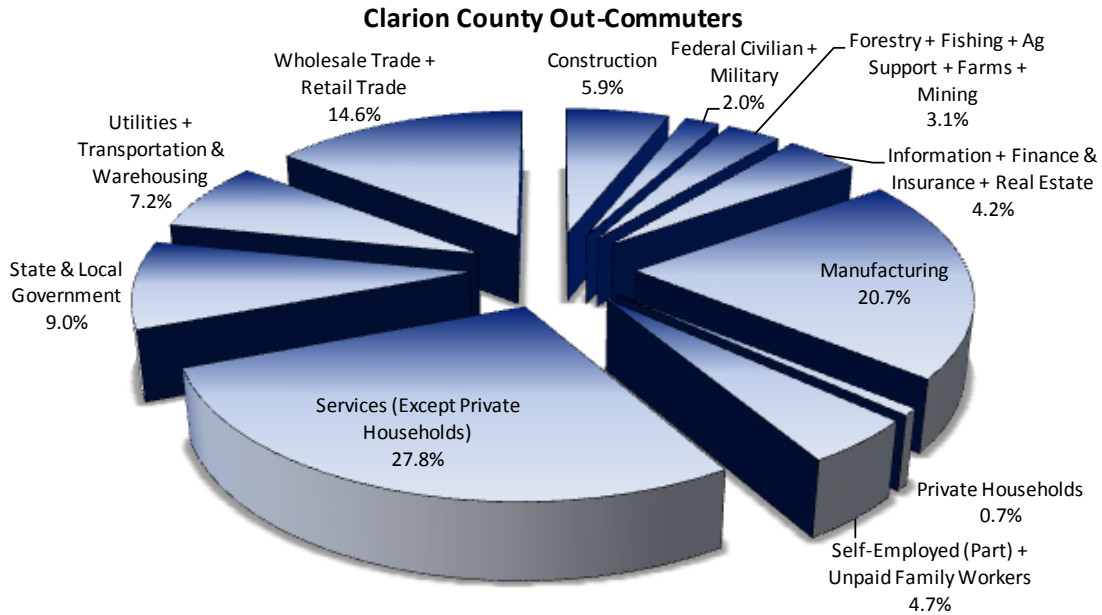
The following chart identifies the major industries in which the 13,005 individuals who reside and work in Clarion County are employed:

Clarion County	Count	Percent
Individuals Living and Working in Clarion County	13,005	100.0%
Construction	430	3.3%
Federal Civilian + Military	200	1.5%
Forestry + Fishing + Ag Support + Farms + Mining	220	1.7%
Information + Finance & Insurance + Real Estate	465	3.6%
Manufacturing	2,075	16.0%
Private Households	20	0.2%
Self-Employed (Part) + Unpaid Family Workers	1,355	10.4%
Services (Except Private Households)	3,760	28.9%
State & Local Government	2,015	15.5%
Utilities + Transportation & Warehousing	490	3.8%
Wholesale Trade + Retail Trade	1,975	15.2%

According to the Census commuting patterns, there is a net export of 1,233 workers commuting from Clarion County to other areas.

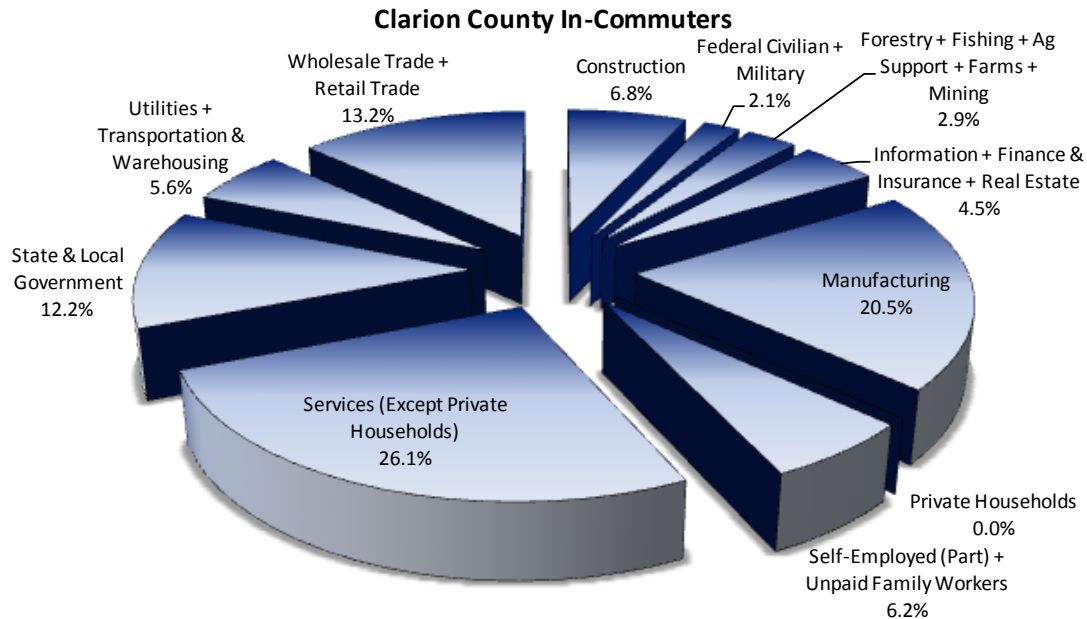
- ✓ 4,492 workers out-commuting from Clarion County
- ✓ 3,259 workers in-commuting to Clarion County

The following chart identifies the major industries in which the 4,492 out-commuters of Clarion County are employed:



Source: Bureau of Economic Analysis. Based on 2000 Census

The following chart identifies the major industries in which the 3,259 in-commuters to Clarion County are employed:



Source: Bureau of Economic Analysis. Based on 2000 Census

Higher proportions of commuters compared to Clarion County resident workers are apparent in the industries of:

Out-Commuters

- Construction
- Federal Civilian + Military
- Forestry + Fishing + Ag Support + Farms + Mining
- Information + Finance & Insurance + Real Estate
- Manufacturing
- Private Households
- Utilities + Transportation & Warehousing

In-Commuters

- Construction
- Federal Civilian + Military
- Forestry + Fishing + Ag Support + Farms + Mining
- Information + Finance & Insurance + Real Estate
- Manufacturing
- Utilities + Transportation & Warehousing

CRAWFORD COUNTY Commuting Patterns



- **About 43% of the population living in Crawford County is employed in and out of the county (Implied Resident Labor Force).**
 - About 78% of all employed individuals living in Crawford County also work in Crawford County (Non Out-Commuters).
 - The other 22% of all employed individuals living in Crawford County work outside of the county (Out-Commuters).

- **Overall, there are about 36,000 jobs in Crawford County held by individuals living in and out of the region (Implied Workforce) (not pictured).**
 - About 85% of all Crawford County jobs are held by Crawford County residents (Non Out-Commuters OR Non In-Commuters) (not pictured).
 - The remaining 15% of all Crawford County jobs are held by individuals who do not live in Crawford County (In-Commuters) (not pictured).

Crawford County Commuting Patterns

About 78% of the 38,678 workers who reside in Crawford County also work in Crawford County.

About 85% of the 35,642 jobs in Crawford County are held by individuals who also reside in Crawford County.

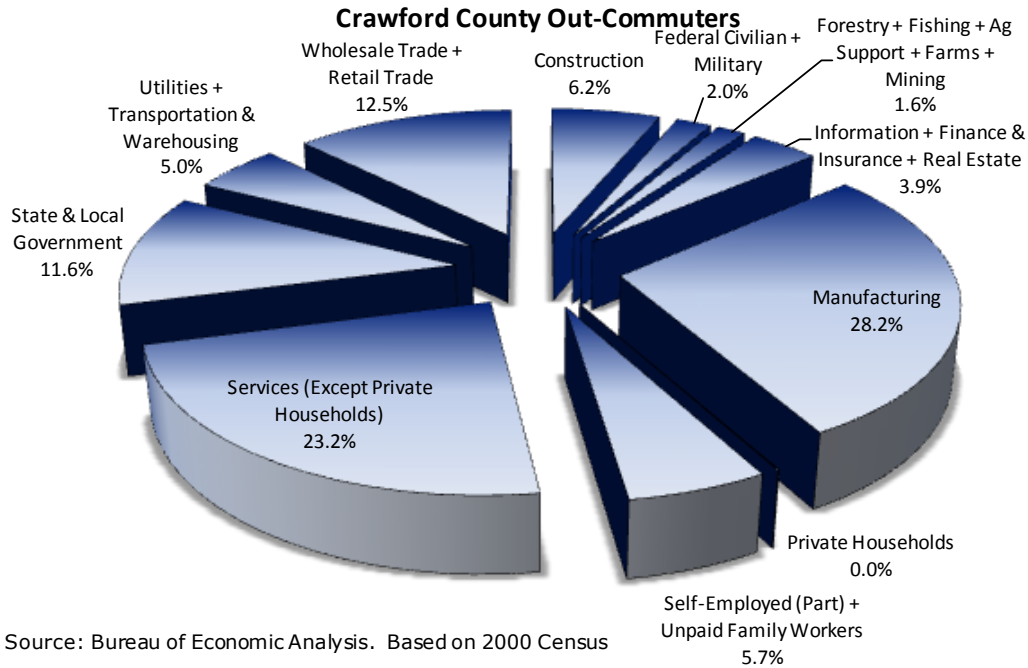
The following chart identifies the major industries in which the 30,180 individuals who reside and work in Crawford County are employed:

Crawford County	Count	Percent
Individuals Living and Working in Crawford County	30,180	100.0%
Construction	835	2.8%
Federal Civilian + Military	300	1.0%
Forestry + Fishing + Ag Support + Farms + Mining	410	1.4%
Information + Finance & Insurance + Real Estate	1,265	4.2%
Manufacturing	7,420	24.6%
Private Households	45	0.1%
Self-Employed (Part) + Unpaid Family Workers	3,430	11.4%
Services (Except Private Households)	9,155	30.3%
State & Local Government	3,060	10.1%
Utilities + Transportation & Warehousing	665	2.2%
Wholesale Trade + Retail Trade	3,595	11.9%

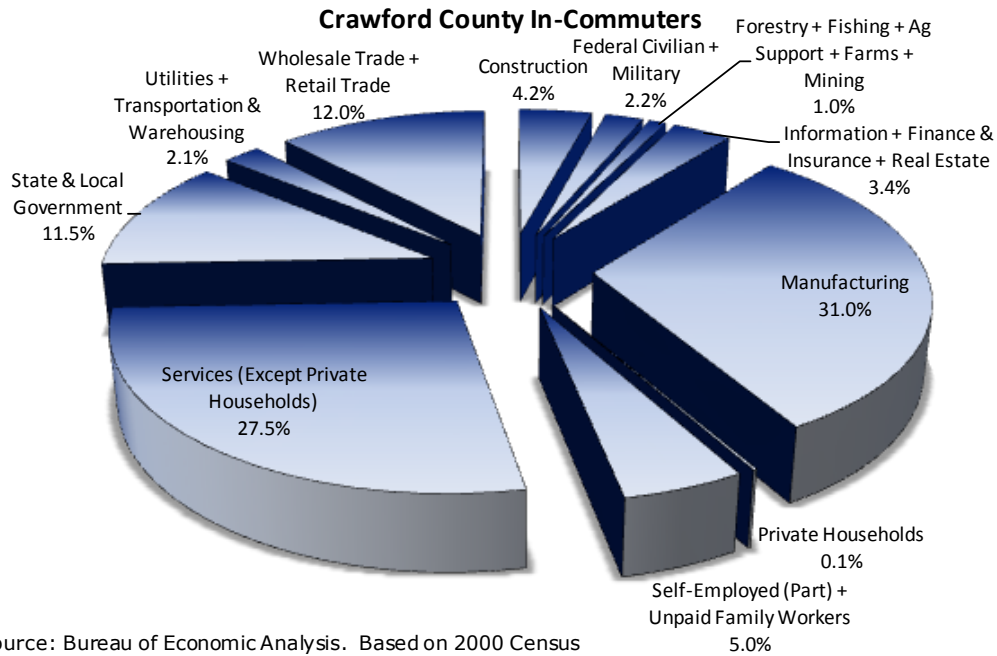
According to the Census commuting patterns, there is a net export of 3,036 workers commuting from Crawford County to other areas.

- ✓ **8,498 workers out-commuting from Crawford County**
- ✓ **5,462 workers in-commuting to Crawford County**

The following chart identifies the major industries in which the 8,498 out-commuters of Crawford County are employed:



The following chart identifies the major industries in which the 5,462 in-commuters to Crawford County are employed:



Higher proportions of commuters compared to Crawford County resident workers are apparent in the industries of:

Out-Commuters

- Construction
- Federal Civilian + Military
- Forestry + Fishing + Ag Support + Farms + Mining
- Manufacturing
- State & Local Government
- Utilities + Transportation & Warehousing
- Wholesale Trade + Retail Trade

In-Commuters

- Construction
- Federal Civilian + Military
- Manufacturing
- State & Local Government
- Wholesale Trade + Retail Trade

ERIE COUNTY Commuting Patterns



- About 45% of the population living in Erie County is employed in and out of the county (**Implied Resident Labor Force**).
 - About 97% of all employed individuals living in Erie County also work in Erie County (**Non Out-Commuters**).
 - The other 3% of all employed individuals living in Erie County work outside of the county (**Out-Commuters**).

- Overall, there are about 131,000 jobs in Erie County held by individuals living in and out of the county (**Implied Workforce**) (not pictured).
 - About 93% of all Erie County jobs are held by Erie County residents (**Non Out-Commuters** OR **Non In-Commuters**) (not pictured).
 - The remaining 7% of all Erie County jobs are held by individuals who do not live in Erie County (**In-Commuters**) (not pictured).

Erie County Commuting Patterns

About 97% of the 126,174 workers who reside in Erie County also work in Erie County.

About 93% of the 131,119 jobs in Erie County are held by workers who also reside in Erie County.

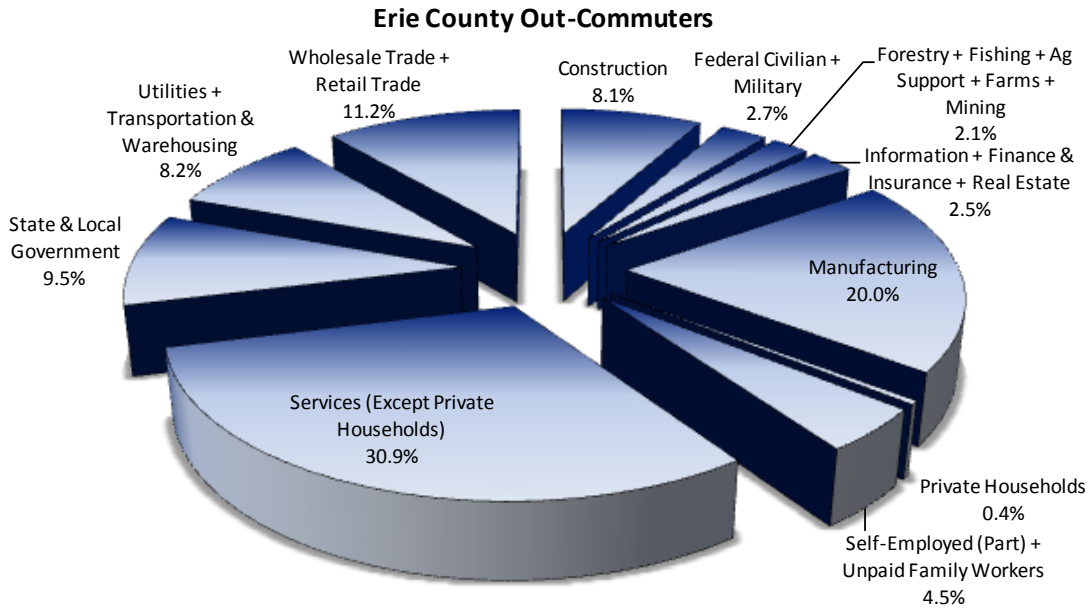
The following chart identifies the major industries in which the 122,020 individuals who reside and work in Erie County are employed:

Erie County	Count	Percent
Individuals Living and Working in Erie County	122,020	100.0%
Construction	4,040	3.3%
Federal Civilian + Military	2,060	1.7%
Forestry + Fishing + Ag Support + Farms + Mining	495	0.4%
Information + Finance & Insurance + Real Estate	8,175	6.7%
Manufacturing	28,815	23.6%
Private Households	120	0.1%
Self-Employed (Part) + Unpaid Family Workers	7,055	5.8%
Services (Except Private Households)	41,455	34.0%
State & Local Government	10,315	8.5%
Utilities + Transportation & Warehousing	2,550	2.1%
Wholesale Trade + Retail Trade	16,940	13.9%

According to the Census commuting patterns, there is a net import of 4,945 workers commuting to Erie County from other areas.

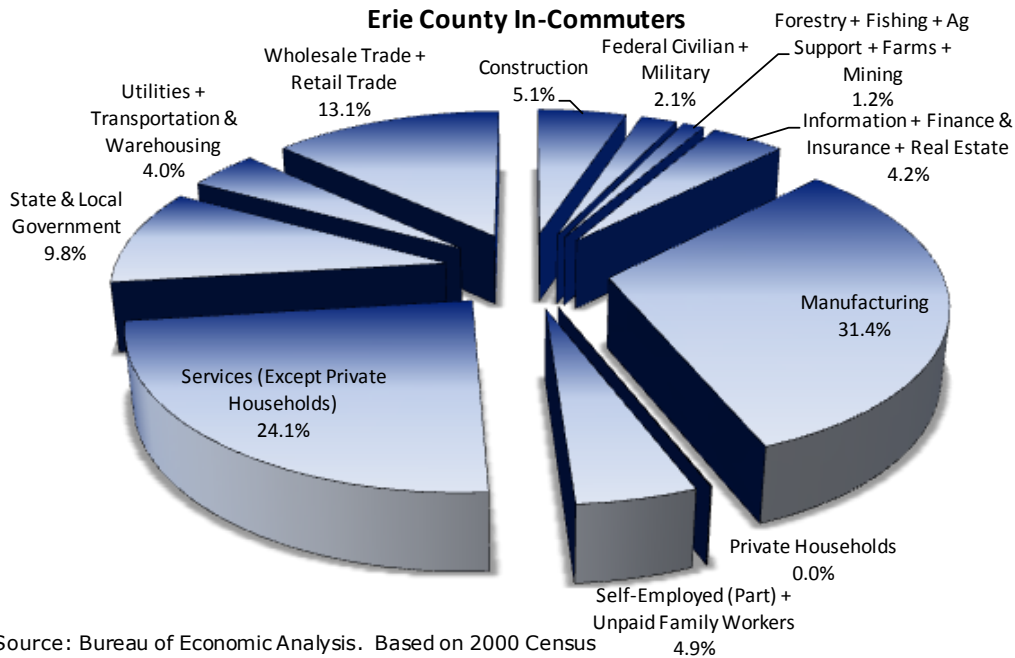
- ✓ 4,154 workers out-commuting from Erie County
- ✓ 9,099 workers in-commuting to Erie County

The following chart identifies the major industries in which the 4,154 out-commuters of Erie County are employed:



Source: Bureau of Economic Analysis. Based on 2000 Census

The following chart identifies the major industries in which the 9,099 in-commuters to Erie County are employed:



Source: Bureau of Economic Analysis. Based on 2000 Census

Higher proportions of commuters compared to Erie County resident workers are apparent in the industries of:

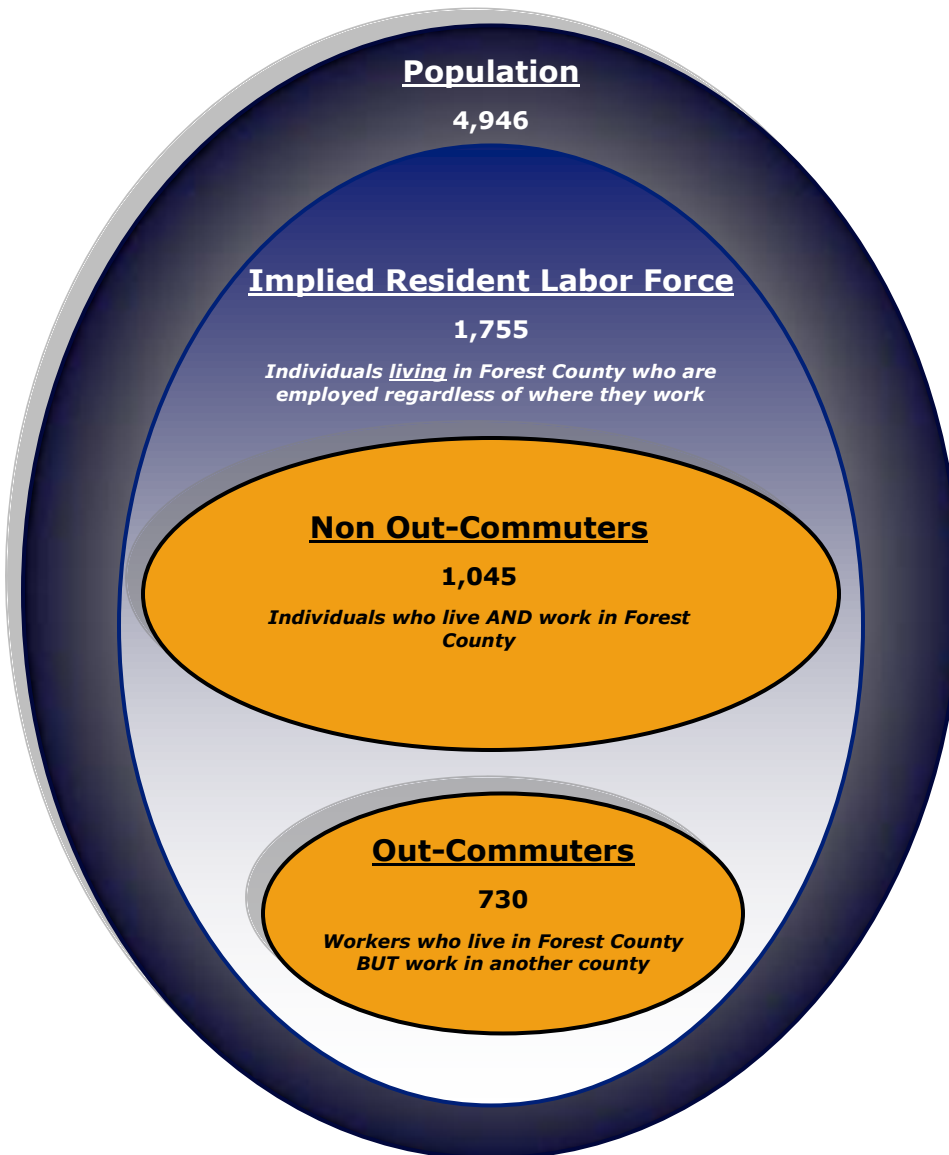
Out-Commuters

- Construction
- Federal Civilian + Military
- Forestry + Fishing + Ag Support + Farms + Mining
- Private Households
- State & Local Government
- Utilities + Transportation & Warehousing

In-Commuters

- Construction
- Federal Civilian + Military
- Forestry + Fishing + Ag Support + Farms + Mining
- Manufacturing
- State & Local Government
- Utilities + Transportation & Warehousing

FOREST COUNTY Commuting Patterns



- About 36% of the population living in Forest County is employed in and out of the county (**Implied Resident Labor Force**).
 - About 59% of all employed individuals living in Forest County also work in Forest County (**Non Out-Commuters**).
 - The other 41% of all employed individuals living in Forest County work outside of the county (**Out-Commuters**).

- Overall, there are about 2,100 jobs in Forest County held by individuals living in and out of the county (**Implied Workforce**) (not pictured).
 - About 50% of all Forest County jobs are held by Forest County residents (**Non Out-Commuters** OR **Non In-Commuters**) (not pictured).
 - The remaining 50% of all Forest County jobs are held by individuals who do not live in Forest County (**In-Commuters**) (not pictured).

Forest County Commuting Patterns

About 59% of the 1,775 workers who reside in Forest County also work in Forest County.

About 50% of the 2,070 jobs in Forest County are held by individuals who also reside in Forest County.

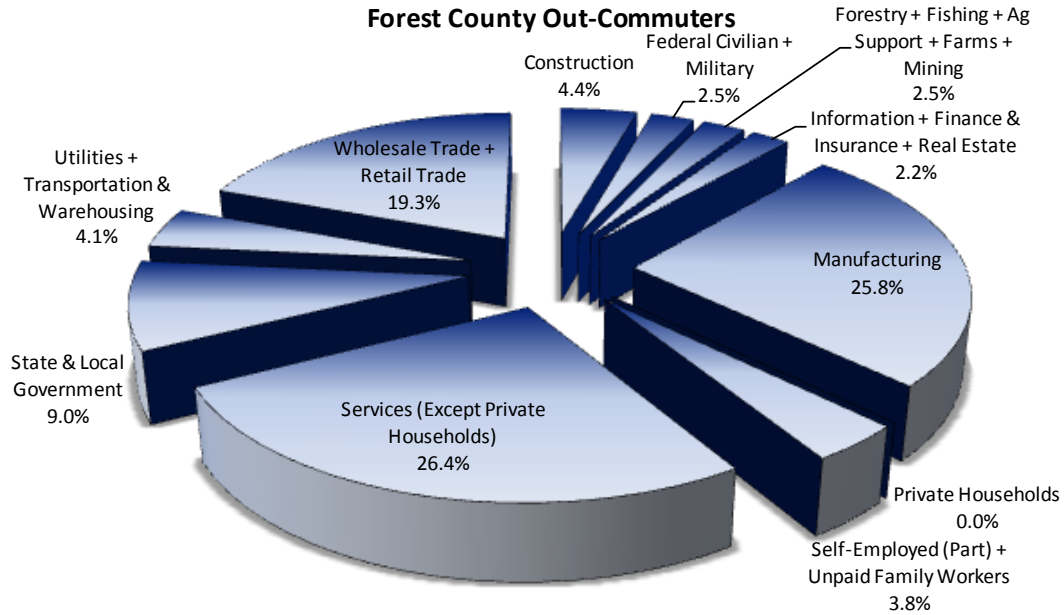
The following chart identifies the major industries in which the 1,045 individuals who reside and work in Forest County are employed:

Forest County	Count	Percent
Individuals Living and Working in Forest County	1,045	100.0%
Construction	40	3.8%
Federal Civilian + Military	55	5.3%
Forestry + Fishing + Ag Support + Farms + Mining	45	4.3%
Information + Finance & Insurance + Real Estate	30	2.9%
Manufacturing	160	15.3%
Private Households	0	0.0%
Self-Employed (Part) + Unpaid Family Workers	95	9.1%
Services (Except Private Households)	280	26.8%
State & Local Government	215	20.6%
Utilities + Transportation & Warehousing	20	1.9%
Wholesale Trade + Retail Trade	105	10.0%

According to the Census commuting patterns, there is a net import of 295 workers commuting from other areas to Forest County.

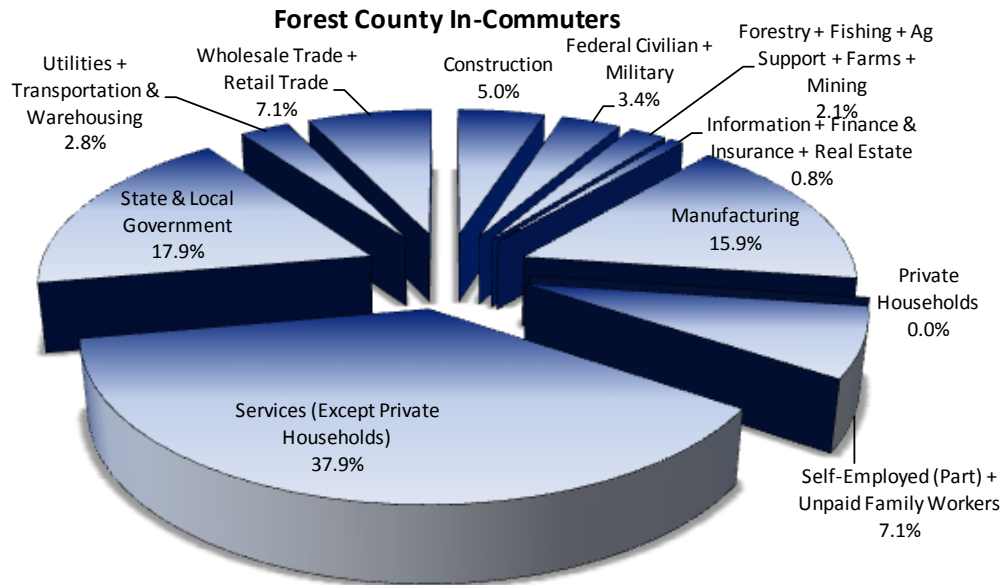
- ✓ 730 workers out-commuting from Forest County
- ✓ 1,025 workers in-commuting to Forest County

The following chart identifies the major industries in which the 730 out-commuters of Forest County are employed:



Source: Bureau of Economic Analysis. Based on 2000 Census

The following chart identifies the major industries in which the 1,025 in-commuters to Forest County are employed:



Source: Bureau of Economic Analysis. Based on 2000 Census

Higher proportions of commuters compared to Forest County resident workers are apparent in the industries of:

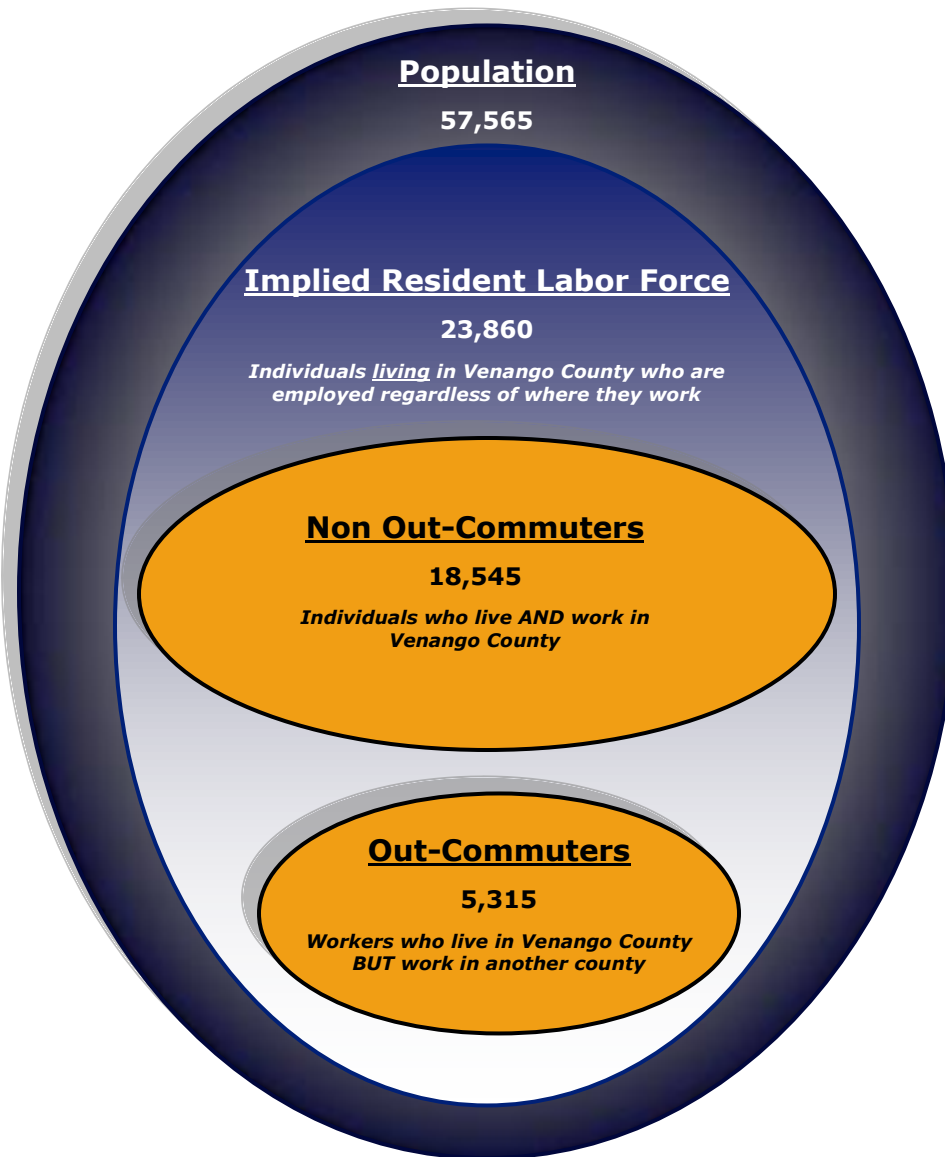
Out-Commuters

- Construction
- Manufacturing
- Utilities + Transportation & Warehousing
- Wholesale Trade + Retail Trade

In-Commuters

- Construction
- Manufacturing
- Services (Except Private Households)
- Utilities + Transportation & Warehousing

VENANGO COUNTY Commuting Patterns



- **About 41% of the population living in Venango County is employed in and out of the county (Implied Resident Labor Force).**
 - About 78% of all employed individuals living in Venango County also work in Venango County (Non Out-Commuters).
 - The other 22% of all employed individuals living in Venango County work outside of the county (Out-Commuters).

- **Overall, there are about 23,000 jobs in Venango County held by individuals living in and out of the county (Implied Workforce) (not pictured).**
 - About 81% of all Venango County jobs are held by Venango County residents (Non Out-Commuters OR Non In-Commuters) (not pictured).
 - The remaining 19% of all Venango County jobs are held by individuals who do not live in Venango County (In-Commuters) (not pictured).

Venango County Commuting Patterns

About 77% of the 23,860 workers who reside in Venango County also work in Venango County.

About 81% of the 22,786 jobs in Venango County are held by individuals who also reside in Venango County.

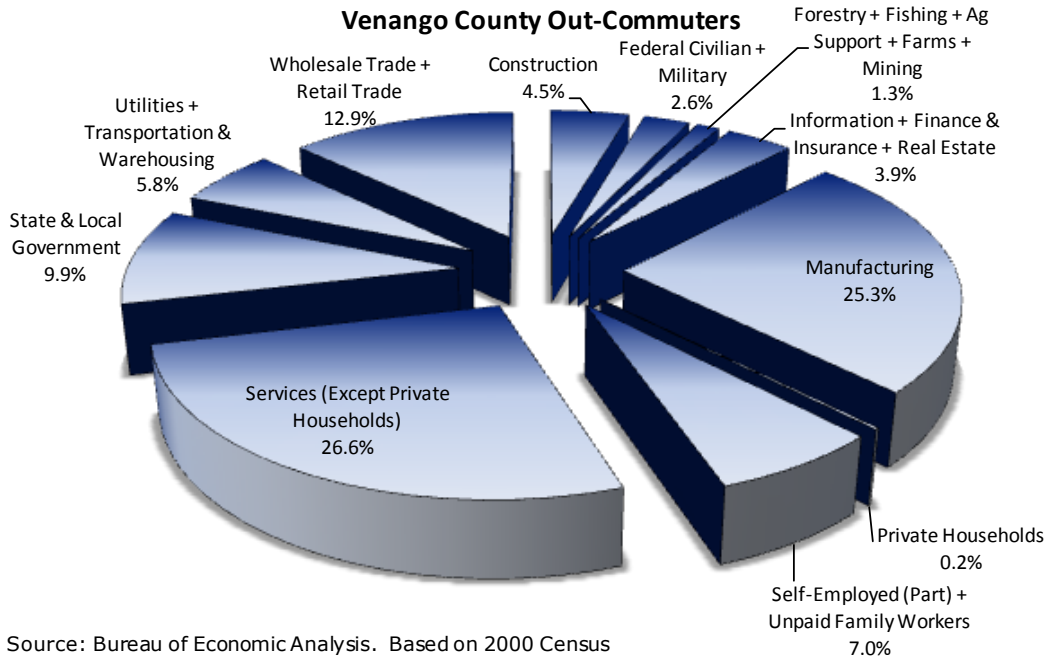
The following chart identifies the major industries in which the 18,545 individuals who reside and work in Venango County are employed:

Venango County	Count	Percent
Individuals Living and Working in Venango County	18,545	100.0%
Construction	470	2.5%
Federal Civilian + Military	280	1.5%
Forestry + Fishing + Ag Support + Farms + Mining	170	0.9%
Information + Finance & Insurance + Real Estate	910	4.9%
Manufacturing	3,295	17.8%
Private Households	20	0.1%
Self-Employed (Part) + Unpaid Family Workers	1,450	7.8%
Services (Except Private Households)	5,440	29.3%
State & Local Government	2,820	15.2%
Utilities + Transportation & Warehousing	655	3.5%
Wholesale Trade + Retail Trade	3,035	16.4%

According to the Census commuting patterns, there is a net export of 1,074 workers commuting from Venango County to other areas.

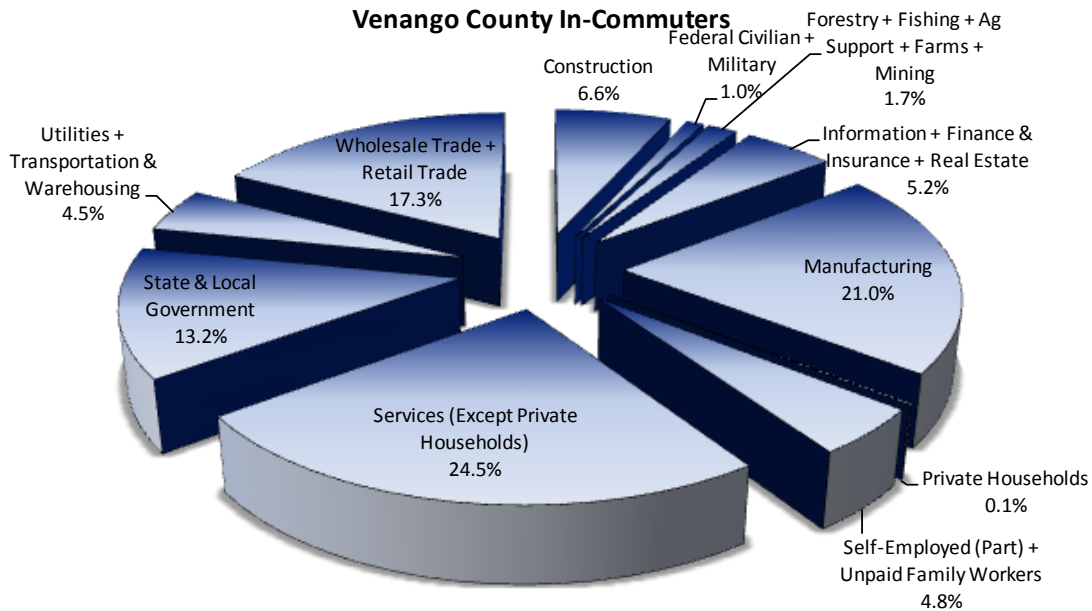
- ✓ 5,315 workers out-commuting from Venango County
- ✓ 4,241 workers in-commuting to Venango County

The following chart identifies the major industries in which the 5,315 out-commuters of Venango County are employed:



Source: Bureau of Economic Analysis. Based on 2000 Census

The following chart identifies the major industries in which the 4,241 in-commuters to Venango County are employed:



Source: Bureau of Economic Analysis. Based on 2000 Census

Higher proportions of commuters compared to Venango County resident workers are apparent in the industries of:

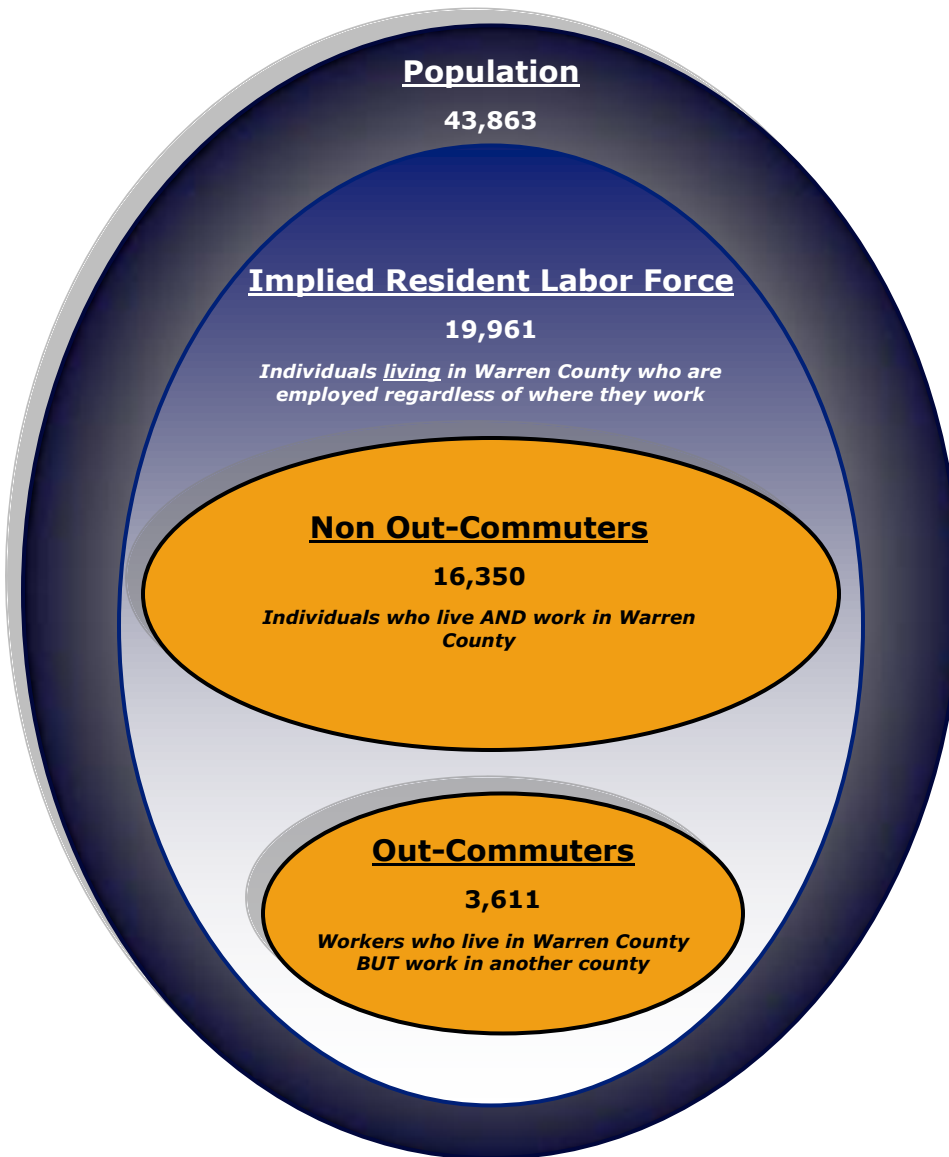
Out-Commuters

- Construction
- Federal Civilian + Military
- Forestry + Fishing + Ag Support + Farms + Mining
- Manufacturing
- Private Households
- Utilities + Transportation & Warehousing

In-Commuters

- Construction
- Forestry + Fishing + Ag Support + Farms + Mining
- Information + Finance & Insurance + Real Estate
- Manufacturing
- Utilities + Transportation & Warehousing
- Wholesale Trade + Retail Trade

WARREN COUNTY Commuting Patterns



- **About 46% of the population living in Warren County is employed in and out of the county (Implied Resident Labor Force).**
 - About 82% of all employed individuals living in Warren County also work in Warren County (Non Out-Commuters).
 - The other 18% of all employed individuals living in Warren County work outside of the county (Out-Commuters).

- **Overall, there are about 18,000 jobs in Warren County held by individuals living in and out of the county (Implied Workforce) (not pictured).**
 - About 90% of all Warren County jobs are held by Warren County residents (Non Out-Commuters OR Non In-Commuters) (not pictured).
 - The remaining 10% of all Warren County jobs are held by individuals who do not live in Warren County (In-Commuters) (not pictured).

Warren County Commuting Patterns

About 82% of the 19,961 workers who reside in Warren County also work in Warren County.

About 90% of the 18,248 jobs in Warren County are held by individuals who also reside in Warren County.

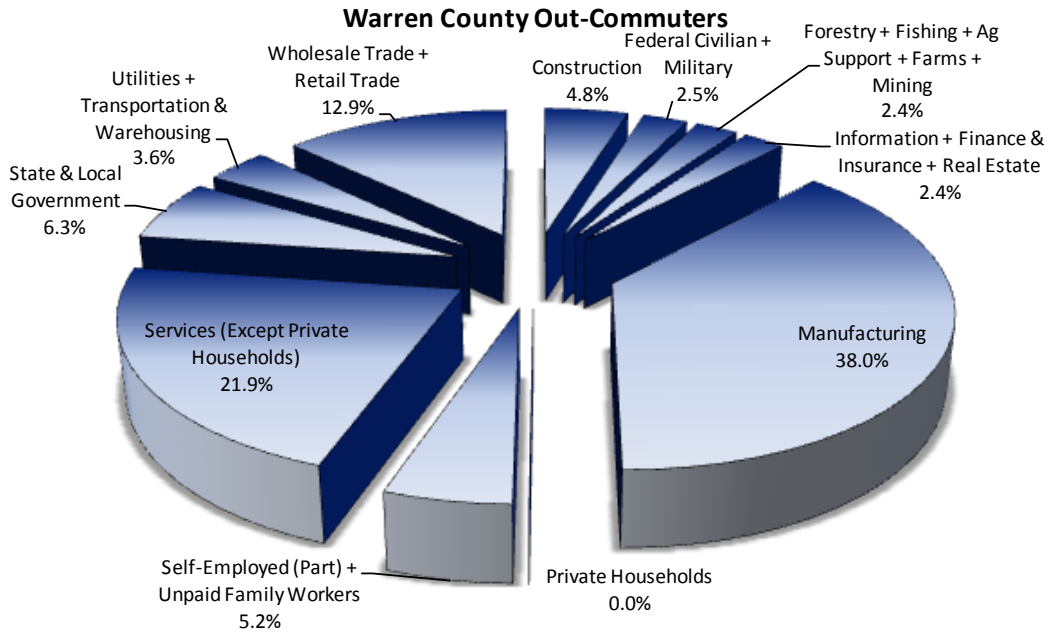
The following chart identifies the major industries in which the 16,350 individuals who reside and work in Warren County are employed:

Warren County	Count	Percent
Individuals Living and Working in Warren County	16,350	100.0%
Construction	240	1.5%
Federal Civilian + Military	305	1.9%
Forestry + Fishing + Ag Support + Farms + Mining	180	1.1%
Information + Finance & Insurance + Real Estate	740	4.5%
Manufacturing	3,865	23.6%
Private Households	45	0.3%
Self-Employed (Part) + Unpaid Family Workers	1,410	8.6%
Services (Except Private Households)	3,630	22.2%
State & Local Government	2,000	12.2%
Utilities + Transportation & Warehousing	525	3.2%
Wholesale Trade + Retail Trade	3,410	20.9%

According to the Census commuting patterns, there is a net export of 1,713 workers commuting from Warren County to other areas.

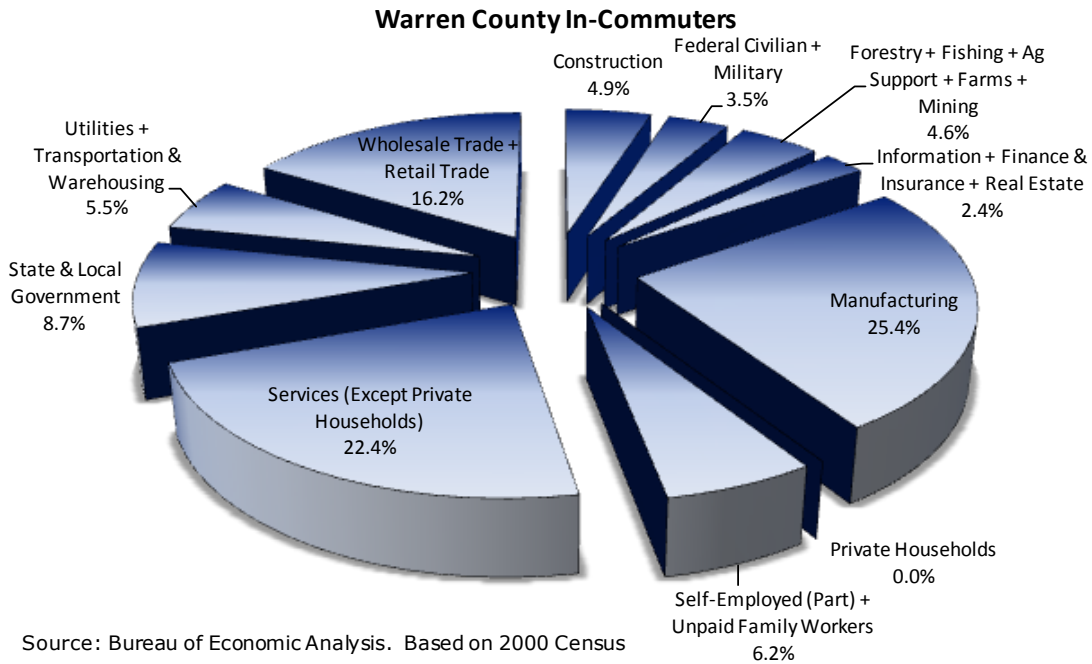
- ✓ 3,611 workers out-commuting from Warren County
- ✓ 1,898 workers in-commuting to Warren County

The following chart identifies the major industries in which the 3,611 out-commuters of Warren County are employed:



Source: Bureau of Economic Analysis. Based on 2000 Census

The following chart identifies the major industries in which the 1,898 in-commuters to Warren County are employed:



Source: Bureau of Economic Analysis. Based on 2000 Census

Higher proportions of commuters compared to Warren County resident workers are apparent in the industries of:

Out-Commuters

- Construction
- Federal Civilian + Military
- Forestry + Fishing + Ag Support + Farms + Mining
- Manufacturing
- Utilities + Transportation & Warehousing

In-Commuters

- Construction
- Federal Civilian + Military
- Forestry + Fishing + Ag Support + Farms + Mining
- Manufacturing
- Services (Except Private Households)
- Utilities + Transportation & Warehousing