

# A Profile of New York City's Industrial Workforce

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# Background

- Many cities, including New York, publicly support the industrial sector<sup>1</sup> through tax incentives, preferential land use policies or business support programs. (See “City Support for the Industrial Sector” for information on how New York City has supported the industrial sector in recent years.)
- Public officials who support these initiatives frequently cite statistics to show that the industrial sector is an important source of middle-income jobs, particularly for workers without college degrees. However, these data points are typically shown at an aggregate level, looking at the average earnings of all industrial workers regardless of sector or training, or at the share of industrial jobs across all sectors filled by non-college graduates.<sup>2</sup> This approach fails to capture the variations among the subsectors that make up New York City’s diverse industrial economy.
- In this analysis, produced at the request of Council Member Brad Lander, we use data from the American Community Survey (ACS) to compare earnings by educational attainment across industries, both within and outside the industrial sector, and break out the share of jobs by industry that are filled by noncollege graduates.

<sup>1</sup> There is no standard list of the economic sectors that make up the industrial economy. New York City currently defines the industrial sector as comprised of the construction, manufacturing, wholesale trade, transportation and warehousing subsectors. We use that definition in this analysis.

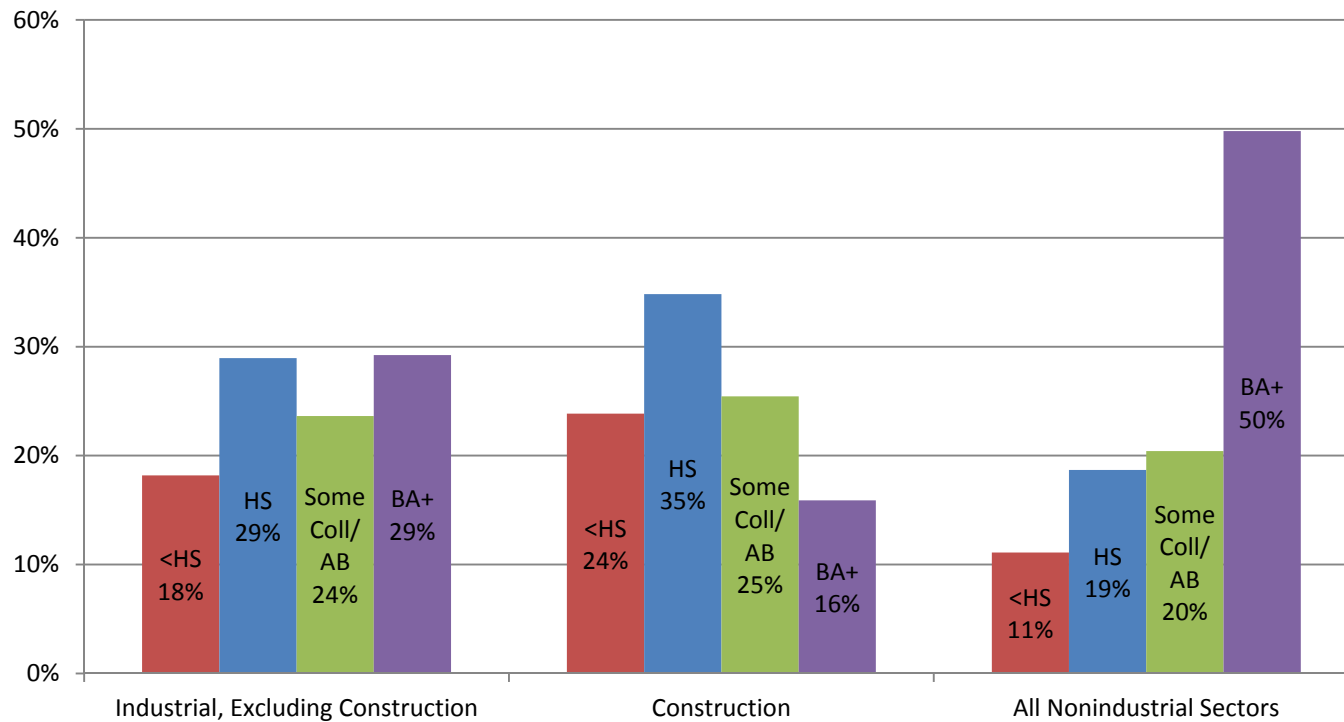
<sup>2</sup> See, for example, the figures cited on slide 2 of the New York City Economic Development Corporation's 2011 presentation “The New Industrial NYC.”

# Key Findings

- Industrial firms are more likely than businesses outside the industrial sector to employ workers without college degrees.
- Measured broadly, industrial workers in New York City earn higher wages than workers with similar levels of educational attainment in nonindustrial sectors. However, this difference is primarily attributable to the construction industry.
  - Excluding construction, the remaining industrial subsectors offer wages that are comparable to nonindustrial sectors.
- There is a trade-off between hourly wages and accessibility.
  - Many of the industrial subsectors that employ a large number of workers without college degrees, like food manufacturing or warehousing, pay wages that are comparable to nonindustrial sectors like retail or food service.

**Finding 1:** Industrial firms are more likely than businesses outside the industrial sector to employ workers without a college degree.

**Share of Total Employment by Educational Attainment,  
New York City**

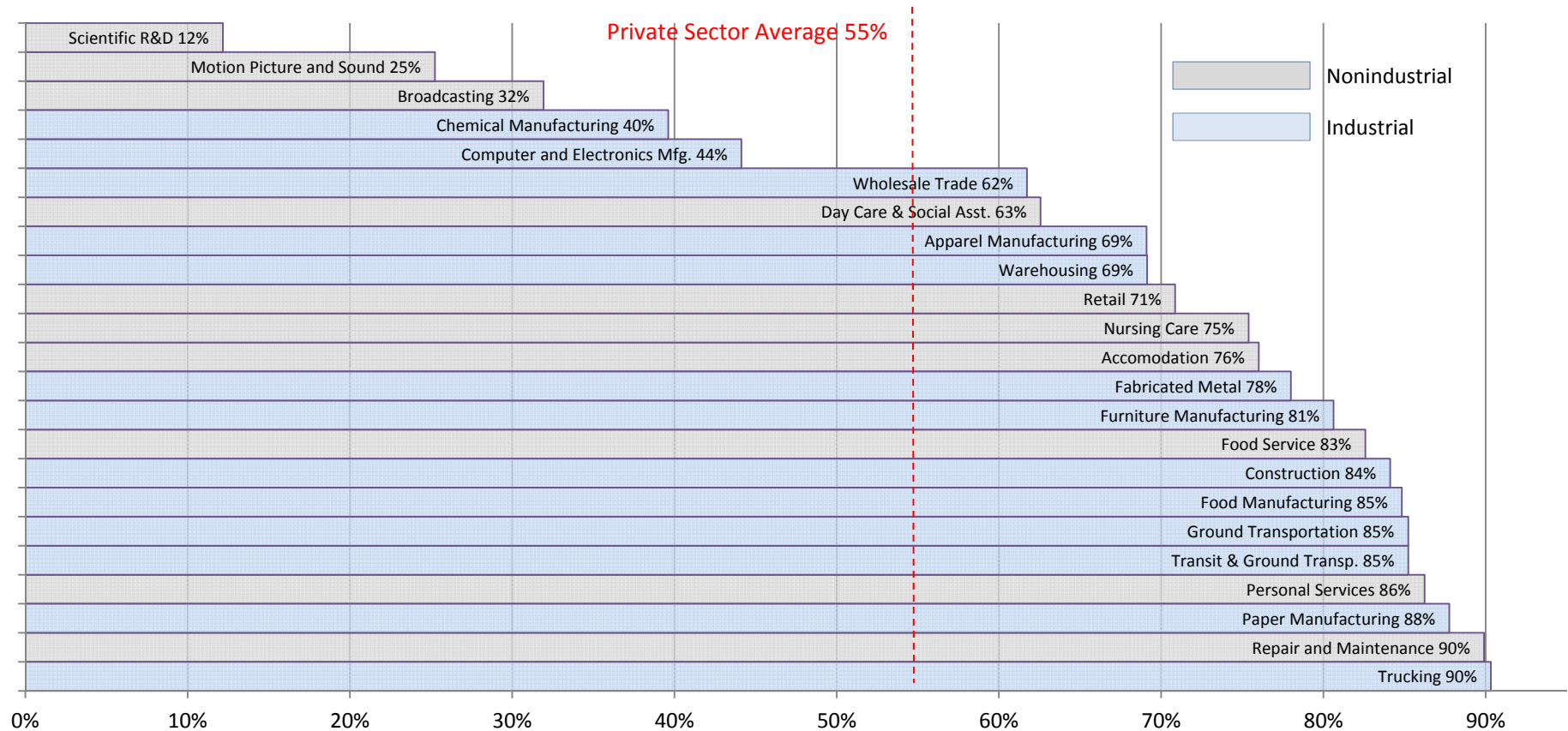


SOURCE: U.S. Census Bureau, American Community Survey Public Use Microdata Sample, 2009-2011

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## Finding 2: Firms in almost all industrial subsectors are important sources of jobs for workers without a college degree.

Share of Jobs in Selected Industries Held by Workers Without a College Degree, NYC

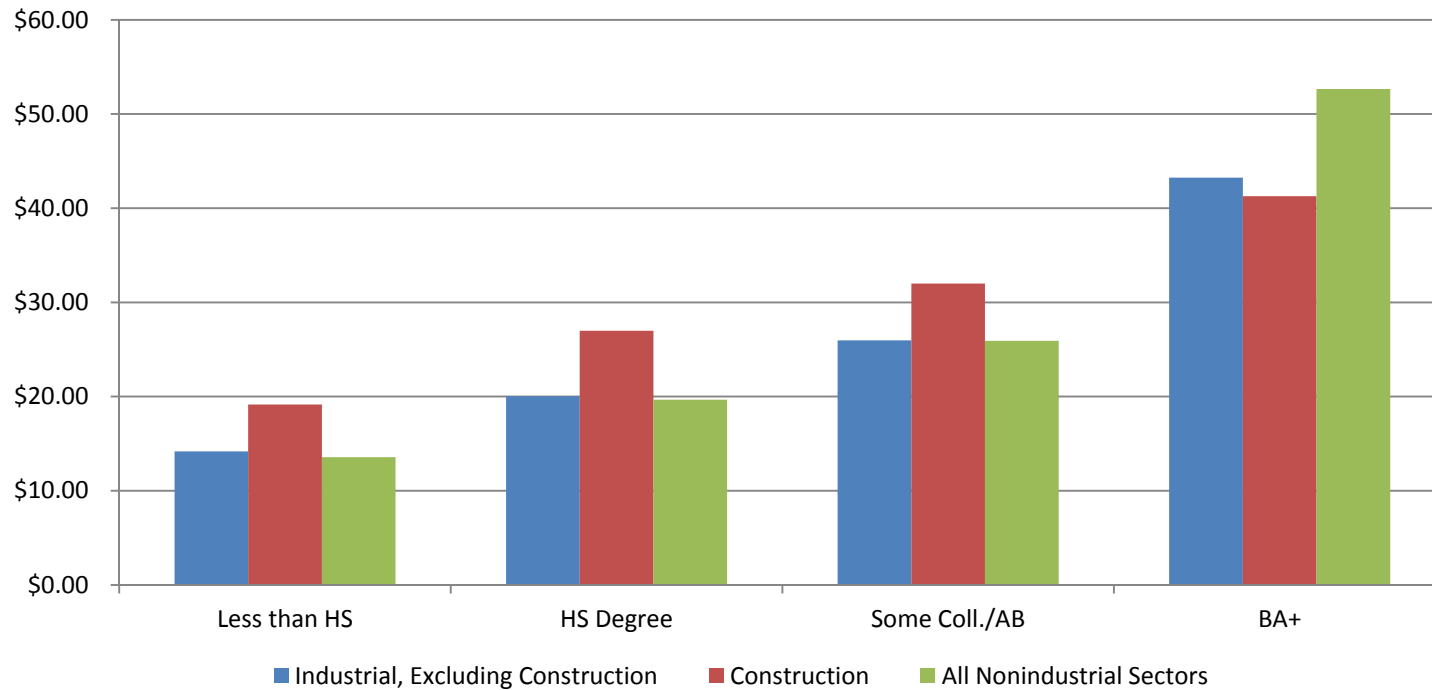


SOURCE: U.S. Census Bureau, American Community Survey Public Use Microdata Sample, 2009-2011

NOTE: This chart compares the largest industrial subsectors by employment to two groups of nonindustrial subsectors: those that employ a large share of workers without college degrees; and scientific research, motion picture and sound, and broadcasting, which city officials often seek to attract to city-owned industrial parks.

**Finding 3:** Outside of the construction sector, average wages earned by noncollege graduates in the industrial sector are comparable to wages in nonindustrial sectors.

**Estimated Average Hourly Wage by Educational Attainment and Sector, New York City**



SOURCE: US Census Bureau, American Community Survey Public Use Microdata Sample, 2009-2011

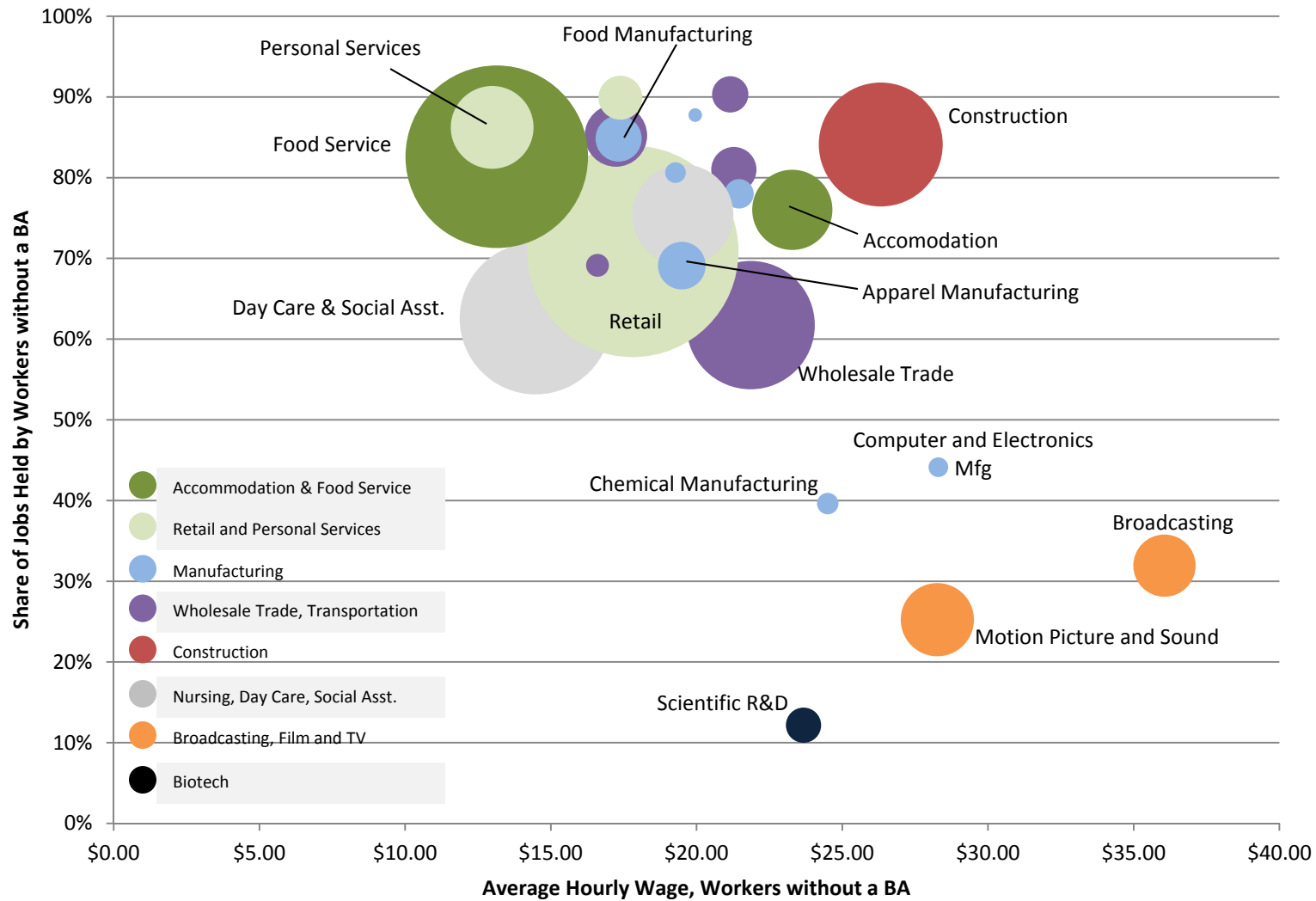
**Finding 4:** Many of the subsectors that are most accessible to workers without a college degree offer wages that are similar to jobs in nonindustrial sectors.

Sector	Workers without a College Degree		2012
	Avg. Hourly Wage	Share of Industry	Employment
Personal Services	\$12.99	86%	49,736
Food Service	\$13.15	83%	241,569
Day Care & Social Asst.	\$14.48	63%	167,222
Warehousing	\$16.60	69%	3,763
Transit & Ground Transp.	\$17.23	85%	28,318
Food Manufacturing	\$17.33	85%	15,391
Repair and Maintenance	\$17.39	90%	13,945
Retail	\$17.81	71%	323,614
Furniture Manufacturing	\$19.28	81%	3,073
Apparel Manufacturing	\$19.49	69%	16,392
Nursing and Residential Care	\$19.53	75%	74,122
Paper Manufacturing	\$19.95	88%	1,350
<b>Industrial, Excluding Construction</b>	<b>\$20.56</b>	<b>71%</b>	<b>310,833</b>
Trucking	\$21.16	90%	9,548
Support Activities for Transportation	\$21.28	81%	14,868
<b>Private Sector Average</b>	<b>\$21.30</b>	<b>55%</b>	<b>3,748,138</b>
Fabricated Metal	\$21.46	78%	6,267
Wholesale Trade	\$21.86	62%	119,425
Accommodation	\$23.28	76%	46,646
Scientific R&D	\$23.67	12%	8,980
Chemical Manufacturing	\$24.50	40%	3,333
Construction	\$26.32	84%	111,245
Motion Picture and Sound	\$28.26	25%	38,794
Computer and Electronics Mfg.	\$28.30	44%	2,795
Broadcasting	\$36.06	32%	28,103

Nonindustrial  
 Industrial

SOURCES: New York State Dept. of Labor, Quarterly Census of Employment and Wages; American Community Survey Public Use Microdata Sample 2009-2011

There is substantial variation across subsectors in total employment, hourly wages, and accessibility to workers without college degrees.



SOURCES: New York State Dept. of Labor, Quarterly Census of Employment and Wages, 2012; American Community Survey Public Use Microdata Sample 2009-2011  
 NOTE: The size of bubbles corresponds to total employment for the subsector in New York City in 2012.



# Notes on Data and Methodology

- Data in this presentation are drawn from the three-year Public Use Microdata Sample (PUMS) of the Census Bureau's 2009-2011 American Community Survey. The PUMS dataset is a sample of ACS responses gathered over a three-year period. The sample represents approximately 4 percent of the total census universe. Information on educational attainment, wages, and employment status is self-reported by ACS respondents.
- Our sample of the New York City workforce includes residents of New York, New Jersey, Connecticut, and Pennsylvania who report that they are employed in New York City.
- Wage data are normalized to average earnings per hour to allow for comparisons across industries and to control for part-time work, seasonal work, and partial year unemployment. Hourly wage rates are calculated using variables for wages earned in the past 12 months, the typical number of hours worked per week, and the number of weeks worked in the past 12 months. Wages are adjusted to 2013 dollars using the Consumer Price Index for All Urban Consumers.
- ACS industry codes are recoded to correspond with three-digit industry subsectors in the North American Industry Classification System.

# Limitations of Survey Data

- The American Community Survey is one of the richest publicly available sources of data on individual American workers. However, it is important to note that it is subject to errors and limitations commonly found in survey data:
  - Individual and household responses are weighted so that findings are representative of the total population, but it is possible that some groups are over or underrepresented in the final analysis.
  - Similarly, the use of sampling also introduces a level of imprecision to any analysis that uses survey data. The margin of error in such surveys increases as units of analysis grow smaller.
  - Survey respondents self-report data about themselves and their household members, which is not verified for accuracy.
  - Adjustments to or computation based on individual responses, such as normalizing for hours worked, add to the imprecision of the estimate.

# Industrial Subsector Profiles

# Profiles of Major Industrial Subsectors

- What are the top occupations within each subsector? What do they pay? What kind of educational background do they require?
- How does the subsector's racial and ethnic profile compare with the profile for all private sector workers in the city's economy?
- What share of workers live in New York City?

# Subsector Profiles Data and Methodology

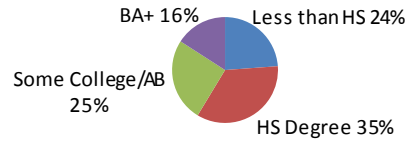
- Data on employment in New York City is from the [Quarterly Census of Employment and Wages](#) (QCEW)
- Data on the distribution of workers by educational attainment, place of residence, ethnicity, and wages as compared with the private sector average are drawn from the [ACS PUMS](#) sample used earlier in this presentation. See pages 9 and 10 for a description of this dataset.
- The list of the top occupations within each subsector is taken from the New York State Department of Labor's [Staffing Patterns dataset](#), which is an estimate of the statewide distribution of occupations across all industries in New York State. The staffing patterns data is derived from the Department of Labor's [Occupational Employment Statistics](#) (OES) survey, which collects workforce data from businesses in a four-year rolling sample.
- Median hourly wages by occupation are drawn from the most recent OES, which includes occupational wage data for New York City workers across all industries. (For example, the median hourly wage of an office clerk in a durable goods wholesaler is the same as an office clerk in truck transportation.) Wages are presented in 2013 dollars, though data was collected from 2009 through 2012. To allow for comparisons to ACS data, we converted annual wages to hourly wages by dividing by a standard 2,000 hour work year.
- Information on the share of jobs filled by college graduates and the most common level of educational attainment are drawn from the Bureau of Labor Statistics' [table of educational attainment](#) by occupation for all U.S. workers 25 and older for 2010-2011.

# Construction

## Employment

Number of Jobs (2012)	111,245
% change since 2000	-5.1%
% change since 2008	-13.5%

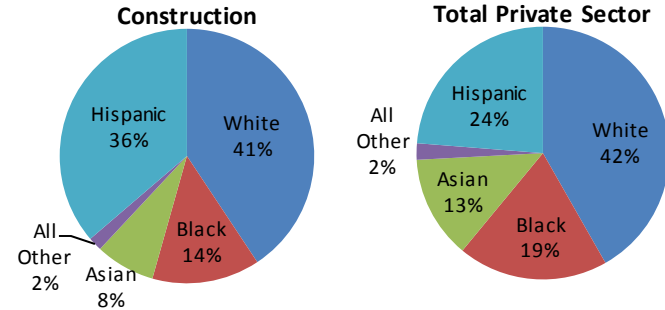
## Educational Background



## Share of Jobs Filled by NYC Residents

Construction	74%
Private Average	79%

## Ethnicity



## Wages

Category	Construction	Private Average
All Jobs	\$27.91	\$34.73
BA or Higher	\$39.86	\$49.91
Less than BA	\$25.41	\$20.56

## Top Occupations

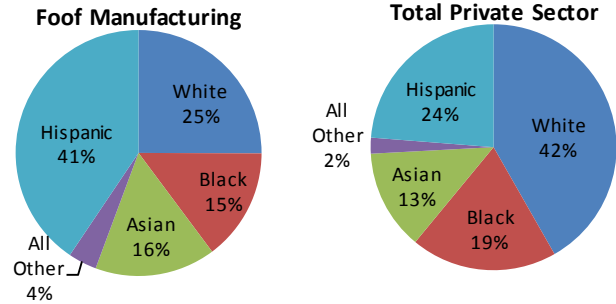
Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Carpenters	12.5%	\$30.91	7.3%	HS Degree
Construction Laborers	11.5%	\$32.35	5.6%	HS Degree
Electricians	7.8%	\$47.97	7.1%	HS Degree
Plumbers, Pipefitters, and Steamfitters	6.0%	\$34.22	4.5%	HS Degree
Supervisors of Construction Workers	5.8%	\$43.75	10.5%	HS Degree
Construction Managers	3.2%	\$58.33	29.2%	HS Degree
Painters, Construction and Maintenance	3.1%	\$25.09	7.4%	HS Degree
Office Clerks, General	2.8%	\$14.55	17.6%	HS Degree
Operating Engineers and Other Construction Equipment Operators	2.6%	\$46.65	2.8%	HS Degree
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	2.4%	\$19.13	16.8%	Some Coll/AB

# Food Manufacturing

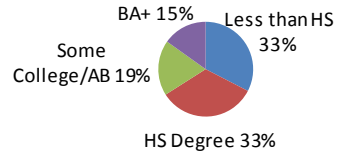
## Employment

Number of Jobs (2012)	15,391
% change since 2000	0.2%
% change since 2008	7.8%

## Ethnicity



## Educational Background



## Wages by Educational Attainment

Educational Attainment	Food Mfg. Wage	Private Average Wage
All Jobs	\$18.90	\$34.73
BA or Higher	\$29.81	\$49.91
Less than BA	\$16.73	\$20.56

## Share of Jobs Filled by NYC Residents

Food Manufacturing	89%
Private Average	79%

## Top Occupations

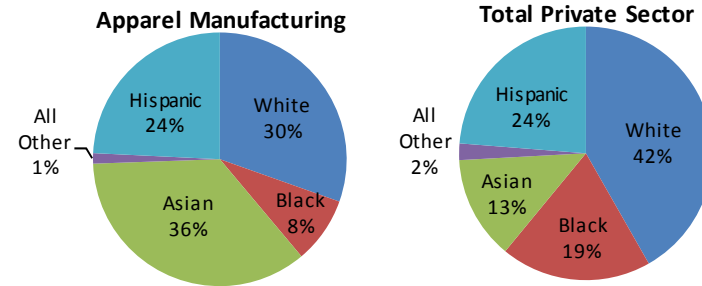
Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Bakers	8.6%	\$11.73	8.4%	HS Degree
Packaging and Filling Machine Operators and Tenders	7.6%	\$11.95	4.0%	HS Degree
Food Batchmakers	7.2%	\$9.95	5.3%	HS Degree
Packers and Packagers, Hand	5.6%	\$10.17	3.9%	Less than HS
Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	3.2%	\$9.60	9.1%	HS Degree
First-Line Supervisors of Production and Operating Workers	3.2%	\$33.25	15.1%	HS Degree
Team Assemblers	3.0%	\$11.88	5.2%	HS Degree
Cashiers	2.6%	\$9.48	10.2%	HS Degree
Food Cooking Machine Operators and Tenders	2.6%	\$11.32	5.5%	HS Degree
Industrial Truck and Tractor Operators	2.5%	\$17.95	2.4%	HS Degree

## Apparel Manufacturing

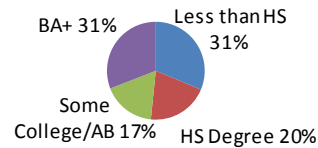
### Employment

Number of Jobs (2012)	16,392
% change since 2000	-71.3%
% change since 2008	-25.4%

### Ethnicity



### Educational Background



### Share of Jobs Filled by NYC Residents



### Wages by Educational Attainment

Attainment Level	Apparel Mfg. (\$)	Private Average (\$)
All Jobs	\$28.68	\$34.73
BA or Higher	\$47.88	\$49.91
Less than BA	\$18.82	\$20.56

### Top Occupations

Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Sewing Machine Operators	38.1%	\$11.32	4.8%	Less than HS
Fashion Designers	6.0%	\$35.88	51.1%	BA+
Sales Representatives, Wholesale and Mfg.	4.3%	\$32.44	47.1%	BA+
Fabric and Apparel Patternmakers	3.5%	\$35.78	33.0%	BA+
Packers and Packagers, Hand	3.3%	\$10.17	3.9%	Less than HS
Inspectors, Testers, Sorters, Samplers, and Weighers	2.7%	\$17.73	13.7%	HS Degree
Textile Cutting Machine Setters, Operators, and Tenders	2.6%	\$12.04	2.8%	HS Degree
First-Line Supervisors of Production and Operating Workers	2.5%	\$33.25	15.1%	HS Degree
Production, Planning, and Expediting Clerks	2.5%	\$25.96	28.7%	Some Coll/AB
Shipping, Receiving, and Traffic Clerks	2.3%	\$14.19	7.2%	HS Degree

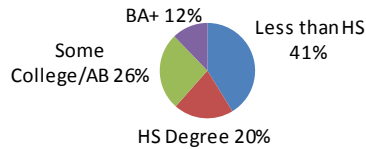


## Paper Manufacturing

### Employment

Number of Jobs (2012)	1,350
% change since 2000	-70.4%
% change since 2008	-42.6%

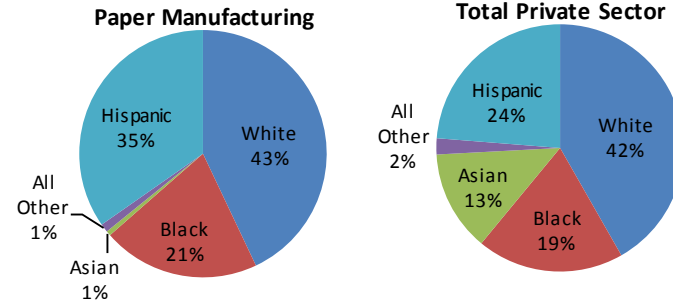
### Educational Background



### Share of Jobs Filled by NYC Residents

Paper Manufacturing	<b>80%</b>
Private Average	<b>79%</b>

### Ethnicity



### Wages by Educational Attainment

Attainment Level	Category	Wage (\$)
All Jobs	Paper Mfg.	\$21.46
	Private Average	\$34.73
BA or Higher	Paper Mfg.	\$34.97
	Private Average	\$49.91
Less than BA	Paper Mfg.	\$19.27
	Private Average	\$20.56

### Top Occupations

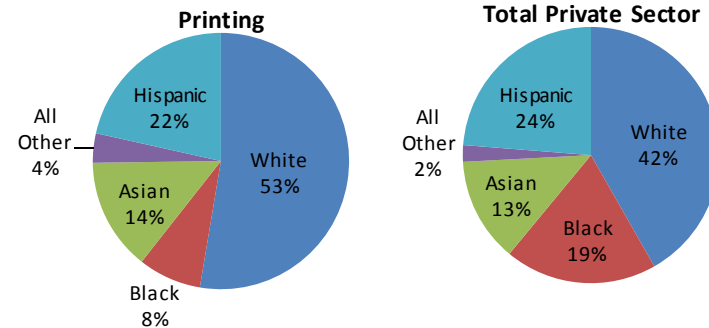
Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Paper Goods Machine Setters, Operators, and Tenders	28.3%	\$15.39	3.8%	HS Degree
Helpers--Production Workers	4.5%	\$10.90	5.3%	HS Degree
Printing Press Operators	3.9%	\$18.23	7.2%	HS Degree
First-Line Supervisors of Production and Operating Workers	3.7%	\$33.25	15.1%	HS Degree
Industrial Truck and Tractor Operators	3.5%	\$17.95	2.4%	HS Degree
Industrial Machinery Mechanics	2.8%	\$25.98	5.3%	HS Degree
Cutting and Slicing Machine Setters, Operators, and Tenders	2.6%	\$16.60	3.5%	HS Degree
Packers and Packagers, Hand	2.6%	\$10.17	3.9%	Less than HS
Sales Representatives, Wholesale and Mfg.	2.5%	\$32.44	47.1%	BA+
Team Assemblers	2.3%	\$11.88	5.2%	HS Degree

## Printing and Related Support Activities

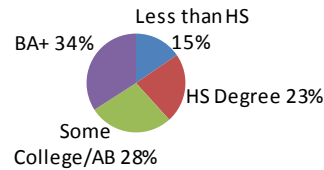
### Employment

Number of Jobs (2012)	6,818
% change since 2000	-57.1%
% change since 2008	-27.9%

### Ethnicity



### Educational Background



### Wages by Educational Attainment

Attainment	Printing	Private Average
All Jobs	\$28.48	\$34.73
BA or Higher	\$41.08	\$49.91
Less than BA	\$21.70	\$20.56

### Share of Jobs Filled by NYC Residents

Printing and Related Support Activities	71%
Private Average	79%

### Top Occupations

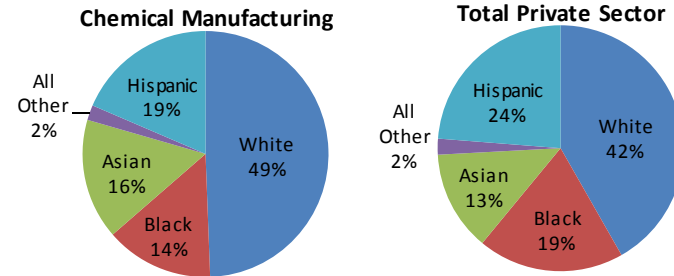
Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Printing Press Operators	22.0%	\$18.23	7.2%	HS Degree
Print Binding and Finishing Workers	9.3%	\$14.56	7.5%	HS Degree
Sales Representatives, Wholesale and Mfg.	5.4%	\$32.44	47.1%	BA+
Prepress Technician and Workers	4.6%	\$24.74	16.8%	HS Degree
Customer Service Representatives	4.6%	\$18.46	22.0%	Some Coll/AB
Helpers--Production Workers	3.7%	\$10.90	5.3%	HS Degree
First-Line Supervisors of Production and Operating Workers	3.5%	\$33.25	15.1%	HS Degree
Graphic Designers	3.2%	\$31.03	51.1%	BA+
Packers and Packagers, Hand	2.6%	\$10.17	3.9%	Less than HS
Shipping, Receiving, and Traffic Clerks	2.6%	\$14.19	7.2%	HS Degree

# Chemical Manufacturing

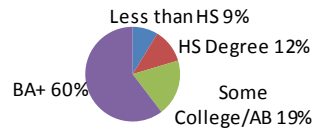
## Employment

Number of Jobs (2012)	3,333
% change since 2000	-44.8%
% change since 2008	-8.2%

## Ethnicity



## Educational Background



## Share of Jobs Filled by NYC Residents



## Wages by Educational Attainment

Attainment Level	Chemical Mfg.	Private Average
All Jobs	\$45.43	\$34.73
BA or Higher	\$58.15	\$49.91
Less than BA	\$23.66	\$20.56

## Top Occupations

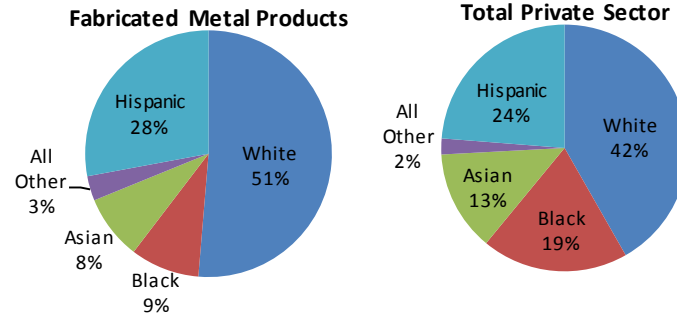
Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Mixing and Blending Machine Setters, Operators, and Tenders	15.8%	\$15.15	5.2%	HS Degree
Packaging and Filling Machine Operators and Tenders	8.0%	\$11.95	4.0%	HS Degree
Inspectors, Testers, Sorters, Samplers, and Weighers	4.7%	\$17.73	13.7%	HS Degree
Chemists	3.7%	\$39.92	92.6%	BA+
First-Line Supervisors of Production and Operating Workers	3.3%	\$33.25	15.1%	HS Degree
Laborers and Freight, Stock, & Material Movers	2.9%	\$13.58	5.2%	HS Degree
Chemical Equipment Operators and Tenders	2.7%	\$12.98	14.1%	HS Degree
Packers and Packagers, Hand	2.6%	\$10.17	3.9%	Less than HS
Industrial Machinery Mechanics	2.5%	\$25.98	5.3%	HS Degree
Chemical Technicians	2.3%	\$23.91	32.4%	HS Degree

## Fabricated Metal Product Manufacturing

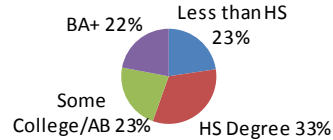
### Employment

Number of Jobs (2012)	6,267
% change since 2000	-38.2%
% change since 2008	-16.6%

### Ethnicity



### Educational Background



### Share of Jobs Filled by NYC Residents

Fabricated Metal Product Manufacturing	79%
Private Average	79%

### Wages by Educational Attainment

Attainment Level	Category	Wage (\$)
All Jobs	Fab. Metal Mfg.	\$24.64
	Private Average	\$34.73
BA or Higher	Fab. Metal Mfg.	\$36.03
	Private Average	\$49.91
Less than BA	Fab. Metal Mfg.	\$20.72
	Private Average	\$20.56

### Top Occupations

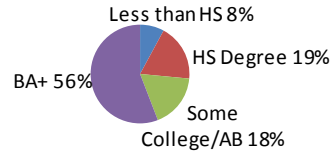
Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Machinists	8.7%	\$20.34	3.6%	HS Degree
Team Assemblers	7.1%	\$11.88	5.2%	HS Degree
Welders, Cutters, Solderers, and Brazers	5.2%	\$17.95	2.3%	HS Degree
Computer-Controlled Machine Tool Operators, Metal and Plastic	4.1%	\$14.37	6.3%	HS Degree
First-Line Supervisors of Production and Operating Workers	4.0%	\$33.25	15.1%	HS Degree
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	3.5%	\$14.81	2.9%	HS Degree
Inspectors, Testers, Sorters, Samplers, and Weighers	3.0%	\$17.73	13.7%	HS Degree
Structural Metal Fabricators and Fitters	2.9%	\$18.06	6.2%	HS Degree
Sales Representatives, Wholesale and Mfg.	2.8%	\$32.44	47.1%	BA+
Sheet Metal Workers	2.7%	\$29.20	4.1%	HS Degree

# Computer and Electronic Manufacturing

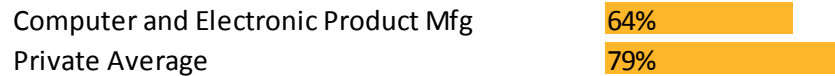
## Employment

Number of Jobs (2012)	2,795
% change since 2000	-41.7%
% change since 2008	-15.3%

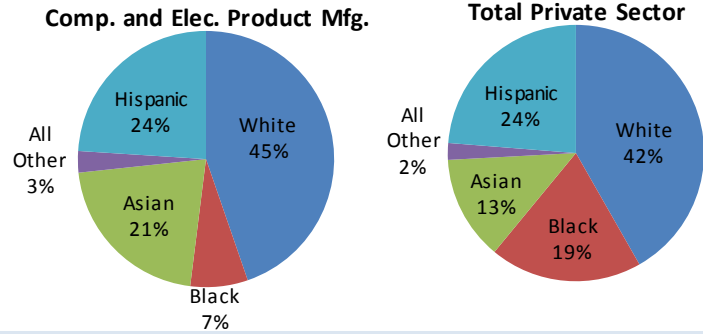
## Educational Background



## Share of Jobs Filled by NYC Residents



## Ethnicity



## Wages by Educational Attainment

Attainment	Comp. & Elec.	Private Average
All Jobs	\$39.63	\$34.73
BA or Higher	\$48.30	\$49.91
Less than BA	\$27.33	\$20.56

## Top Occupations

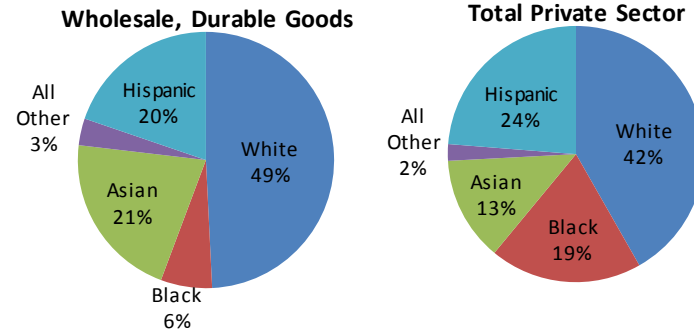
Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Electrical and Electronic Equipment Assemblers	11.9%	\$12.47	5.7%	HS Degree
Electrical and Electronic Engineering Technicians	5.3%	\$33.40	17.2%	Some Coll/AB
Team Assemblers	5.2%	\$11.88	5.2%	HS Degree
Software Developers, Systems Software	4.8%	\$46.30	82.5%	BA+
Electrical Engineers	4.6%	\$47.23	77.8%	BA+
Computer Hardware Engineers	3.8%	\$50.38	71.3%	BA+
Inspectors, Testers, Sorters, Samplers, and Weighers	2.8%	\$17.73	13.7%	HS Degree
Accountants and Auditors	2.7%	\$41.84	76.2%	BA+
Industrial Engineers	2.4%	\$43.43	68.5%	BA+
Architectural and Engineering Managers	2.3%	\$67.19	83.1%	BA+

## Merchant Wholesalers, Durable Goods

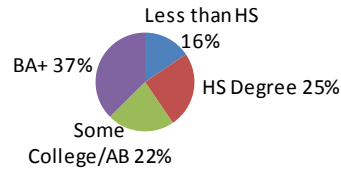
### Employment

Number of Jobs (2012)	49,745
% change since 2000	-22.4%
% change since 2008	-9.0%

### Ethnicity



### Educational Background



### Share of Jobs Filled by NYC Residents

Merchant Wholesalers, Durable Goods	72%
Private Average	79%

### Wages by Educational Attainment

Attainment	Wholesale	Private Average
All Jobs	\$30.50	\$34.73
BA or Higher	\$44.56	\$49.91
Less than BA	\$21.64	\$20.56

### Top Occupations

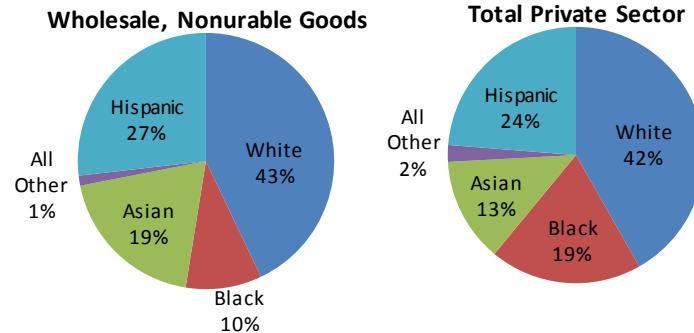
Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Sales Representatives, Wholesale and Mfg.	19.6%	\$32.44	47.1%	BA+
Laborers and Freight, Stock, & Material Movers	5.3%	\$13.58	5.2%	HS Degree
Customer Service Representatives	4.2%	\$18.46	22.0%	Some Coll/AB
Shipping, Receiving, and Traffic Clerks	4.1%	\$14.19	7.2%	HS Degree
Bookkeeping, Accounting, and Auditing Clerks	3.9%	\$21.48	15.0%	Some Coll/AB
Office Clerks, General	3.8%	\$14.55	17.6%	HS Degree
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	2.9%	\$19.13	16.8%	Some Coll/AB
Stock Clerks and Order Fillers	2.8%	\$10.11	8.5%	HS Degree
Light Truck or Delivery Services Drivers	2.7%	\$16.99	5.0%	HS Degree
General and Operations Managers	2.4%	\$76.34	48.7%	BA+

## Merchant Wholesalers, Nondurable Goods

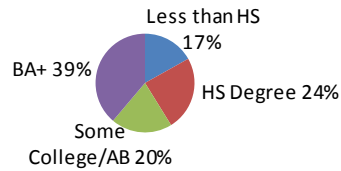
### Employment

Number of Jobs (2012)	69,680
% change since 2000	-8.5%
% change since 2008	-2.3%

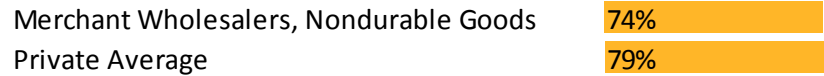
### Ethnicity



### Educational Background



### Share of Jobs Filled by NYC Residents



### Wages by Educational Attainment

Attainment	Wholesale	Private Average
All Jobs	\$30.55	\$34.73
BA or Higher	\$44.95	\$49.91
Less than BA	\$20.79	\$20.56

### Top Occupations

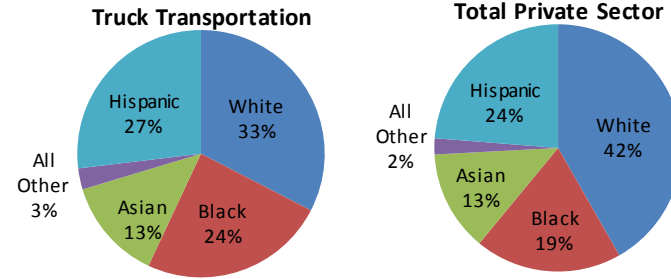
Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Sales Representatives, Wholesale and Mfg.	19.2%	\$32.44	47.1%	BA+
Laborers and Freight, Stock, & Material Movers	7.1%	\$13.58	5.2%	HS Degree
Heavy and Tractor-Trailer Truck Drivers	4.4%	\$22.74	5.0%	HS Degree
Packers and Packers, Hand	4.3%	\$10.17	3.9%	Less than HS
Shipping, Receiving, and Traffic Clerks	4.1%	\$14.19	7.2%	HS Degree
Office Clerks, General	3.9%	\$14.55	17.6%	HS Degree
Stock Clerks and Order Fillers	3.7%	\$10.11	8.5%	HS Degree
Driver/Sales Workers	3.7%	\$11.83	5.0%	HS Degree
Fashion Designers	3.1%	\$35.88	51.1%	BA+
Light Truck or Delivery Services Drivers	3.1%	\$16.99	5.0%	HS Degree

## Truck Transportation

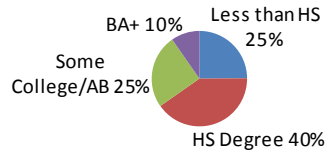
### Employment

Number of Jobs (2012)	9,548
% change since 2000	-5.2%
% change since 2008	4.5%

### Ethnicity



### Educational Background



### Share of Jobs Filled by NYC Residents

Truck Transportation	81%
Private Average	79%

### Wages by Educational Attainment

Attainment	Trucking	Private Average
All Jobs	\$21.18	\$34.73
BA or Higher	\$27.60	\$49.91
Less than BA	\$20.43	\$20.56

### Top Occupations

Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Heavy and Tractor-Trailer Truck Drivers	55.0%	\$22.74	5.0%	HS Degree
Laborers and Freight, Stock, & Material Movers	12.1%	\$13.58	5.2%	HS Degree
Bus and Truck Mechanics and Diesel Engine	3.4%	\$30.09	2.7%	HS Degree
Dispatchers, ex. Police, Fire, and Ambulance	2.8%	\$19.41	11.0%	HS Degree
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	2.7%	\$19.13	16.8%	Some Coll/AB
First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	2.5%	\$36.46	17.0%	HS Degree
Light Truck or Delivery Services Drivers	2.5%	\$16.99	5.0%	HS Degree
Bookkeeping, Accounting, and Auditing Clerks	2.0%	\$21.48	15.0%	Some Coll/AB
Office Clerks, General	1.8%	\$14.55	17.6%	HS Degree
Packers and Packagers, Hand	1.3%	\$10.17	3.9%	Less than HS

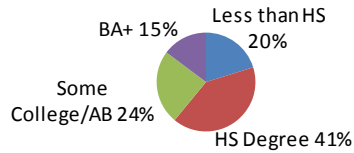


## Transit and Ground Passenger Transport

### Employment

Number of Jobs (2012)	28,318
% change since 2000	20.4%
% change since 2008	2.2%

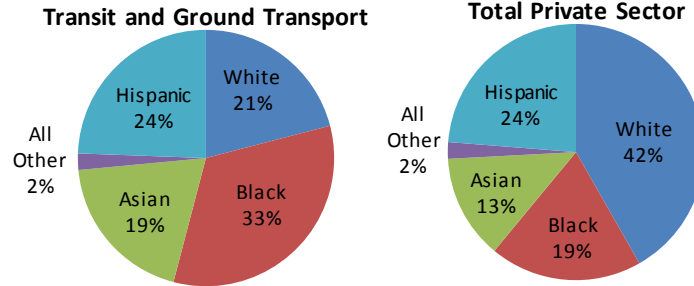
### Educational Background



### Share of Jobs Filled by NYC Residents

Transit and Ground Passenger Transport	<b>83%</b>
Private Average	<b>79%</b>

### Ethnicity



### Wages by Educational Attainment

All Jobs	Transit	<b>\$16.93</b>
	Private Average	<b>\$34.73</b>
BA or Higher	Transit	<b>\$18.43</b>
	Private Average	<b>\$49.91</b>
Less than BA	Transit	<b>\$16.64</b>
	Private Average	<b>\$20.56</b>

### Top Occupations

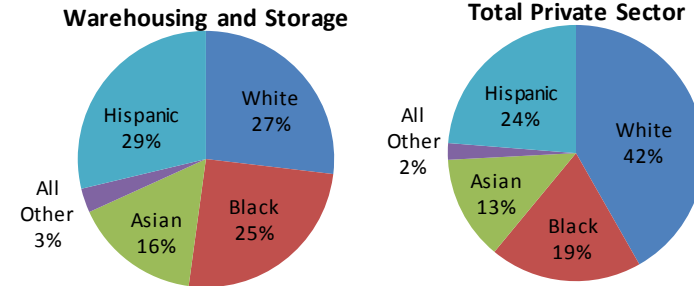
Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Bus Drivers, School or Special Client	47.8%	\$19.66	7.4%	HS Degree
Taxi Drivers and Chauffeurs	12.7%	\$14.52	15.4%	HS Degree
Bus Drivers, Transit and Intercity	10.7%	\$28.35	7.4%	HS Degree
Childcare Workers	8.4%	\$13.12	13.4%	HS Degree
Dispatchers, ex. Police, Fire, and Ambulance	3.0%	\$19.41	11.0%	HS Degree
Bus and Truck Mechanics and Diesel Engine Specialists	2.9%	\$30.09	2.7%	HS Degree
Cleaners of Vehicles and Equipment	1.8%	\$24.31	3.6%	HS Degree
First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	1.6%	\$36.46	17.0%	HS Degree

## Warehousing and Storage

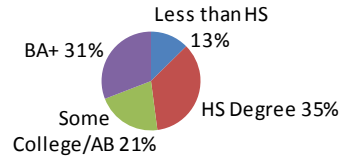
### Employment

Number of Jobs (2012)	3,763
% change since 2000	-1.0%
% change since 2008	3.3%

### Ethnicity



### Educational Background



### Share of Jobs Filled by NYC Residents

Warehousing and Storage	90%
Private Average	79%

### Wages by Educational Attainment

Attainment Level	Category	Wage (\$)
All Jobs	Warehousing	\$22.76
	Private Average	\$34.73
BA or Higher	Warehousing	\$36.83
	Private Average	\$49.91
Less than BA	Warehousing	\$16.03
	Private Average	\$20.56

### Top Occupations

Occupation	Share of Sector Employment, NYS	Median Hourly Wage Across All Sectors, NYC	Share with a BA or Higher, Nationwide	Most Frequent Level of Educ. Attainment, Nationwide
Laborers and Freight, Stock, & Material Movers	26.4%	\$13.58	5.2%	HS Degree
Packers and Packagers, Hand	14.0%	\$10.17	3.9%	Less than HS
Stock Clerks and Order Fillers	6.5%	\$10.11	8.5%	HS Degree
Dispatchers, ex. Police, Fire, and Ambulance	5.8%	\$17.95	2.4%	HS Degree
Heavy and Tractor-Trailer Truck Drivers	4.6%	\$22.74	5.0%	HS Degree
Shipping, Receiving, and Traffic Clerks	3.3%	\$14.19	7.2%	HS Degree
First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	2.6%	\$27.90	17.0%	HS Degree
Office Clerks, General	1.9%	\$14.55	17.6%	HS Degree
Maintenance and Repair Workers, General	1.7%	\$20.87	6.6%	HS Degree
Packaging and Filling Machine Operators and Tenders	1.6%	\$11.95	4.0%	HS Degree