

Women and the Labor Force

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Background

- School
- Career
- Discussion Topic- Employment Rates/Percentages/Labor Force for Women: African American, Caucasian, Hispanic/Latino, and Asian

COVID-19, The Labor Force, and Women Background

- COVID-19 affected the work force for women in which there were some careers and jobs decreased because of the pandemic. According to the information from the U.S. Bureau of Labor Statistics, there were some careers for women that had an increase. From the years of 1970 to 2019, women were more likely to pursue higher levels of education. The labor force has increased over there years, but we are specifically going to cover the years of 2019 and 2020. The data that was gathered shows the difference of employment rates for different demographics of women for Asian, Caucasian, African American, and Hispanic/Latino women for specific occupations. In this presentation, we will look at the effects of COVID-19 and how it affected the labor force for women in the years of 2020 compared to 2019.

Labor Force/Employment Question Background- Questions

- What effects did COVID-19 have on the labor force for women in the year 2020?
- What effects did it have on women within the following groups: African American, Caucasian, Asian, and Hispanic or Latino?
- Was there an increase or decrease? What was the difference between the years 2019 and 2020 based off the statistical information from the U.S. Bureau of Labor Statistics?

Methods

- Obtained data information from the U.S. Bureau of Labor Statistics
- BLS is an independent national statistical agency that collects, processes, analyzes, and disseminates essential statistical data for the public, Congress, other federal agencies, state and local governments, business, and labor. BLS also serves as a statistical resource for the U.S. Department of Labor.
- <https://www.bls.gov>
- Pulled the PDF from the website and downloaded/opened it up in Microsoft Excel.
- Variables: COVID-19

Methods



U.S. BUREAU OF LABOR STATISTICS

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CLASSROOM ▾

BETA ▾

Women

Labor force, employment, and unemployment statistics for women. See also [Families and marital status](#)

- Database: [Retrieve historical LN data series](#)
- Annual tables: [Complete list](#)
 - [Employment by detailed occupation and sex \(PDF\) \(XLSX\)](#)
 - [Employment by detailed industry and sex \(PDF\) \(XLSX\)](#)
- Monthly and quarterly tables: [Complete list](#)
- Annual report: Highlights of Women's Earnings

Year	HTML	PDF
2020	HTML	PDF
2019	HTML	PDF

Methods

- Removing the null and NaN (not a number) data in the Excel CSV file.
- Worked with a sample size of 607.
- Variables: COVID-19.
- Downloaded the PDF from the U.S. Bureau of Labor Statistics websites, imported the information into Python, created histograms to show the data.
- Used Tableau to display visualizations of the results for Caucasian, African American, Asian, and Hispanic/Latino women.

2019

Occupation	Hispanic or ...
Null	Null
Chief executives	6.2
General and operations managers	12.5
Laborers and freight, stock, and material movers, hand	23.1
Management occupations	10.7
Management, business, and financial operations occupations	10.4
Management, professional, and related occupations	10.1
Material moving workers, all other	-
Packers and packagers, hand	41.5
Refuse and recyclable material collectors	29.7

Hispanic or Latino

2020

Career Category	
Chief executives	7.40
General and operations managers	12.40
Laborers and freight stock and material movers hand	28.00
Management business and financial operations occupations	10.90
Management occupations	10.70
Management professional and related occupations	10.40
Other material moving workers	14.30
Packers and packagers hand	32.50
Refuse and recyclable material collectors	31.40
Stockers and order fillers	22.30

This statistical information shows that chief executives increased in the year of 2020 by 1.2%. Laborers, financial operation occupations, and management occupations had an increase as well. For laborers, there was a 4.9 percent increase. The main career in these specific categories shows that there was also a decrease for packers and packagers for Hispanic women. For packers and packagers, there was a 9% decrease.

Results

2019

Occupation	White
Null	Null
Chief executives	88.8
General and operations managers	86.4
Laborers and freight, stock, and material movers, hand	72.4
Management occupations	83.6
Management, business, and financial operations occupations	82.1
Management, professional, and related occupations	79
Material moving workers, all other	-
Packers and packagers, hand	69.2
Refuse and recyclable material collectors	74

White- 2020

Career Category	
Chief executives	88.00
General and operations managers	84.40
Laborers and freight stock and material movers hand	72.20
Management business and financial operations occupations	81.70
Management occupations	83.40
Management professional and related occupations	78.70
Other material moving workers	79.00
Packers and packagers hand	63.00
Refuse and recyclable material collectors	68.90
Stockers and order fillers	70.40

For Caucasian women, the chief executive percentage went down by .8% in 2020. The percentage of Caucasian women that worked as general and operations managers movers went down by 2% in 2020. For laborers and material movers, it went down by 2%. There was also a decrease for packers and packers in 2020.

Results

Occupation	Black
Null	Null
Chief executives	4.1
General and operations managers	6.6
Laborers and freight, stock, and material movers, hand	19.8
Management occupations	7.8
Management, business, and financial operations occupations	8.4
Management, professional, and related occupations	9.6
Material moving workers, all other	-
Packers and packagers, hand	19
Refuse and recyclable material collectors	18.2

Black- 2020

Career Category	
Chief executives	4.30
General and operations managers	7.10
Laborers and freight stock and material movers hand	18.60
Management business and financial operations occupations	8.80
Management occupations	8.00
Management professional and related occupations	9.70
Other material moving workers	18.60
Packers and packagers hand	25.90
Refuse and recyclable material collectors	27.90
Stockers and order fillers	19.90

For African American women, the chief executive employment percentage went up by 2% in 2020 compared to year 2019. There was an increase for general and operations managers and management business and financial operations occupations. There was a decrease in 2020 for laborers and materials movers in the year 2020.

Results

Occupation	Asian
Null	Null
Chief executives	5.8
General and operations managers	3.5
Laborers and freight, stock, and material movers, hand	2.7
Management occupations	6.1
Management, business, and financial operations occupations	7
Management, professional, and related occupations	8.7
Material moving workers, all other	-
Packers and packagers, hand	7.7
Refuse and recyclable material collectors	3.6

Asian- 2020

Career Category	
Chief executives	5.400
General and operations managers	4.500
Laborers and freight stock and material movers hand	4.000
Management business and financial operations occupations	6.700
Management occupations	5.800
Management professional and related occupations	8.600
Other material moving workers	0.000
Packers and packagers hand	8.000
Refuse and recyclable material collectors	1.300
Stockers and order fillers	3.900

For Asian women, there was a .4% decrease in 2020 for the chief executive position. In 2020, the general and operations managers increased by 1%. There was an increase in laborers in 2020 for Asian women. There was an increase for packers and packers in 2020 as well as for management occupations.

Results

Occupation	Women
Null	Percent of total employed
Chief executives	27.6
General and operations managers	30.6
Laborers and freight, stock, and material movers, hand	21.5
Management occupations	40
Management, business, and financial operations occupations	44.1
Management, professional, and related occupations	51.8
Material moving workers, all other	-
Packers and packagers, hand	54.8
Refuse and recyclable material collectors	7.6

Women Total- 2020

Career Category	
Chief executives	29.30
General and operations managers	30.50
Laborers and freight stock and material movers hand	20.50
Management business and financial operations occupations	44.60
Management occupations	40.40
Management professional and related occupations	51.70
Other material moving workers	18.20
Packers and packagers hand	51.40
Refuse and recyclable material collectors	9.70
Stockers and order fillers	35.00

For women of all demographics, the total percentage increased in 2020 for chief executives by 1.7%. It decreased in 2020 for general and operations managers for women by .1%. There was a decrease for laborers in 2020 for women. It appears that there was an increase for management positions for women in the year 2020 for the total demographic of all races.

Results

Women Labor Force/Employment Information - Summary

- Asian women had the least amount of women employment for management, executive, and labor positions in American in 2020.
- Caucasian women had the highest percentages employed for executive, management, and financial operations occupations in 2019 and 2020.
- The employment percentage of women for 2020 was 51.7% for all groups: African American, Caucasian, Asian, and Hispanic or Latino.

Conclusion

- The percentage of women in management professional related occupations was greater than men in 2020, even with the effects of the pandemic.
- Business management positions increased by .5% in 2020.
- Chief executive, management, and business positions increased much greater than labor positions for women in 2020.
- Women laboring job positions decreased in 2020 due to the pandemic.