

**Project Title:** NYC PPP Loan Distribution Data (Loans > 150K)**Group Members:**

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**Project Description/Outline:**

The topic of our analysis centers on PPP (Paycheck Protection Program) Loan distribution data provided by the SBA. As of July 2020, access to the data was made available to the public after a lawsuit was filed against the SBA by 5 major news media organizations demanding access to records, enforcing the federal freedom-of-information law. The SBA retains all records of PPP Loans as disbursed of the \$669 billion-dollar program included as part of the \$2 trillion Cares Act. The program enabled banks, upon approval of application, to collect interest on these loans given to businesses requiring the majority of it to be spent on payroll. The relatively short application to be completed for approval required the applicant to provide information on the number of employees it would be retaining payroll for, the average monthly payroll in order to determine loan amount, the business name, address, and type, as well as it's EIN which provides information of its industry affiliate.

Included within the official data provided by the SBA are additional columns for Gender, Race, and Veteran status. These were optional declarations of the application and therefore sufficient data could not be provided for thorough analysis on these categorizations of loan recipients. The additional columns included provide information on Loan Range, Lender, Approval Date, and Congressional District of each loan.

Provided within the dataset specific to NYC, as acquired from data.beta.nyc is information on NYC business loan recipients over 150K as of June 2020, coinciding with a significant decrease in sought loans. After a quick depletion of funds nearly two weeks into the programs initial opening to small businesses on April 3<sup>rd</sup>, a replenishment of \$310 billion was made on April 27<sup>th</sup>, nearly half of which was still available mid-June.

Based on research of other analysis and depictions of statistics on PPP Loan Data state-to-state and nationally, for our project we decided on the focus of our analysis to be on the economics of the loans in reference to industry, jobs retained, and five tier loan ranges for recipients of loans specific to NYC.

Because these loans are going to industry and corporations, our focus is not on whether this money went to what we're concerned as efforts we determine to be important, but rather whether the higher range loans amount went to industry enabling retainment of most jobs.

According to other analyses, 1 percent of PPP Loan borrowers got over a quarter of the total loan money. Sources also reference more loan recipients in industry supportive of remote work rather than front-line industry that were required to shutdown and/or limit business. Our research will look to see if the data aligns with this specific to NYC data.

**-Link to dataset and screenshot of metadata**

<https://data.beta.nyc/dataset/nyc-ppp-recipients-over-150k>

	LoanRange	BusinessName	Address	City	State	Zip	NAICSCode	Industry	Description	BusinessType	JobsRetain
0	a \$5-10 million	1186 BROADWAY RESTAURANT LLC	35 W 28th Street Floor 12	NEW YORK	NY	10010	721110	Accommodation and Food Services	Hotels (except Casino Hotels) and Motels	Limited Liability Company(LLC)	417.0
1	a \$5-10 million	246 SPRING STREET (NY), LLC	246 SPRING ST	NEW YORK	NY	10013	721110	Accommodation and Food Services	Hotels (except Casino Hotels) and Motels	Limited Liability Company(LLC)	326.0
2	a \$5-10 million	ABRAHAM JOSHUA HESCHEL SCHOOL	20 West End Ave	NEW YORK	NY	10023	811110	Educational Services	Elementary and Secondary Schools	Non-Profit Organization	385.0
3	a \$5-10 million	ACCESS STAFFING, LLC	360 Lexington Ave 8th Floor	NEW YORK	NY	10017	561311	Administrative and Support and Waste Management...	Employment Placement Agencies	Limited Liability Company(LLC)	500.0
4	a \$5-10 million	ACCUTY DELIVERY SYSTEMS, LLC	810 7TH AVE Suite 1110	NEW YORK	NY	10019	541511	Professional, Scientific, and Technical Services	Custom Computer Programming Services	Limited Liability Company(LLC)	293.0

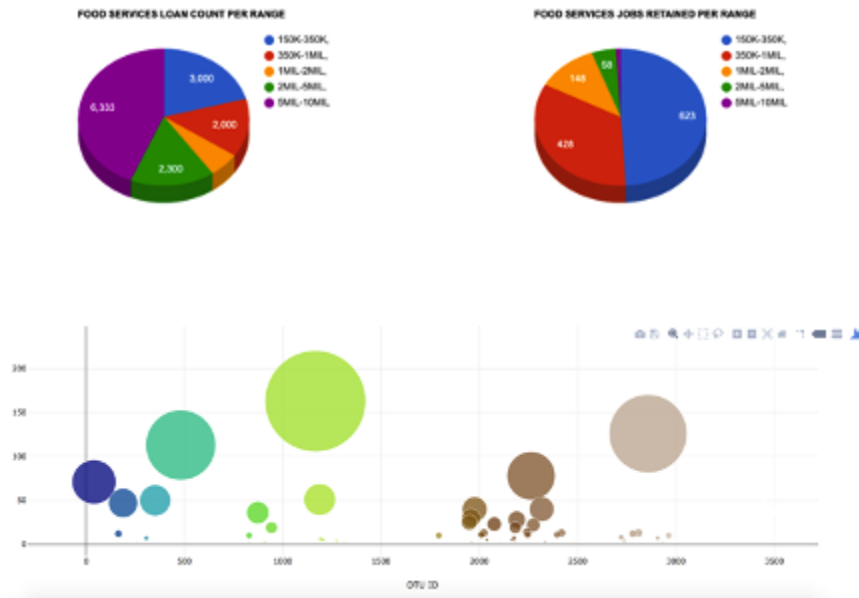
Our project will illustrate our NYC PPP loan data analysis as determined by functions applied to variables of Industry, Loan Range, and Jobs Retained.

		CountLoanRange	SumJobsRetained	PercentLoan	PercentJobs
Industry	LoanRange				
Accommodation and Food Services	a \$5-10 million	19	6230.0	0.853933	5.996958
	b \$2-5 million	87	14612.0	3.910112	14.065418
	c \$1-2 million	182	18271.0	8.179775	17.587548
	d \$350,000-1 million	690	32754.0	31.011236	31.528791
	e \$150,000-350,000	1247	32019.0	56.044944	30.821285
...	...	...	...	...	...
Wholesale Trade	a \$5-10 million	5	1694.0	0.428082	4.524452
	b \$2-5 million	40	5184.0	3.424658	13.845784
	c \$1-2 million	121	8952.0	10.359589	23.909618
	d \$350,000-1 million	384	12485.0	32.876712	33.345797

Relative visualizations accordant with our analysis in final dashboard display for *total industry* statistics:



Relative visualizations accordant with our analysis in final dashboard display for *selected industry* statistics:



Jobs Retained per selected Industry based on Loan Amount:

x-axis of loan amount, y-axis of jobs retained, marker size of jobs retained (each loan)

//hover data to include specific values

Charts made using <https://www.rapidtables.com/tools/bar-graph.html>

FILTER TABLE OPTION:

**Advanced PPP Loan Search**

By FederalPay.org

NY

ZIP Code

Industry (Supports Keywords)

Any Business Type

Company Name

Any Loan Size

Search

Clear

-Link to primary GitHub repository

[https://github.com/cspence001/nyc\\_ppp\\_loan](https://github.com/cspence001/nyc_ppp_loan)