

Does NYC Airbnb Rentals Revenue Influenced by Citibike Usage?

CitiBike Visits per Location (Jan - Feb 2021)

Neighbourhood	CitiBike Visits
East Village	466,140
Lower East Side	254,698
Williamsburg	208,283
Hell's Kitchen	203,123
Chelsea	203,115
Upper West Side	176,500
West Village	150,432
Midtown	121,401
Bedford-Stuyvesant	121,212
Upper East Side	115,912
Gramercy	
SoHo	

Total Revenue per Location based on Citibike Traffic

Neighbourhood	Approximate Revenue	Number of Citibike Trips
Chinatown	~10M	~80K
Gramercy	~10M	~70K
Greenwich Village	~10M	~80K
SoHo	~10M	~70K
Greenpoint	~15M	~60K
Midtown	~20M	~120K
West Village	~25M	~150K
Lower East Side	~30M	~180K
Upper East Side	~35M	~200K
Chelsea	~40M	~220K
Hell's Kitchen	~45M	~250K
East Village	~50M	~280K
Upper West Side	~55M	~300K
Bedford-Stuyvesant	~60M	~320K
Williamsburg	~65M	~350K

Average Price per Night Visit based on Citibike Traffic

Neighbourhood	Avg. Price	Avg. Number of Citibike Trips
Chinatown	~10	~100
Gramercy	~10	~100
Greenwich Village	~10	~100
SoHo	~10	~100
Greenpoint	~10	~100
Midtown	~10	~100
West Village	~10	~100
Lower East Side	~10	~100
Upper East Side	~10	~100
Chelsea	~10	~100
Hell's Kitchen	~10	~100
East Village	~10	~100
Upper West Side	~10	~100
Bedford-Stuyvesant	~10	~100
Williamsburg	~10	~100

Number of Rentals VS Number of CitiBike Trips

Neighbourhood	Number of Rentals	Number of CitiBike Trips
Chinatown	~100	~100
Gramercy	~100	~100
Greenwich Village	~100	~100
SoHo	~100	~100
Greenpoint	~100	~100
Midtown	~100	~100
West Village	~100	~100
Lower East Side	~100	~100
Upper East Side	~100	~100
Chelsea	~100	~100
Hell's Kitchen	~100	~100
East Village	~100	~100
Upper West Side	~100	~100
Bedford-Stuyvesant	~100	~100
Williamsburg	~100	~100

East Village 466,140	Hell's Kitchen 203,123	Chelsea 203,115	Upper West Side 176,500	
Lower East Side 254,698	West Village 150,432	Upper East Side 115,912		
	Midtown 121,401			
Williamsburg 208,283	Bedford-Stuyvesant 121,212	Gramercy		
		SoHo		

Neighborhood	Avg. Review Score (approx.)
SoHo	4.9
West Village	4.9
Greenwich Village	4.9
Chelsea	4.9
Midtown	4.88
Upper West Side	4.85
Gramercy	4.85
East Village	4.82
Hell's Kitchen	4.82
Upper East Side	4.82
Williamsburg	4.8
Lower East Side	4.78
Greenpoint	4.75
Chinatown	4.72
Bedford-Stuyvesant	4.6

Scatter plot showing the relationship between the number of Citibike trips (X-axis) and the number of bike rentals (Y-axis) for various New York City neighborhoods. The X-axis is labeled "Number of citibikes trips ov2M" and ranges from 0K to 250K. The Y-axis is labeled "Number of rentals" and ranges from 0K to 16K. A blue regression line indicates a positive correlation between the two variables.

Neighborhoods labeled on the plot include:

- Williamsburg (11211)
- East Village (10009, 10003)
- Harlem (10027)
- Greenpoint (11222)
- Upper West Side (10024)
- Hell's Kitchen (10036)
- West Village (10014)
- Chelsea (10011)
- Hell's Kitchen (10019)
- Williamsburg (11206)
- Chelsea (10001)
- Gramercy (10003)
- Greenwich Village (10012)

neighbourhood_cleansed	Number of clobikes trips ov2M	Approximate Revenue Total
Chinatown	80K	10M
Gramercy	60K	15M
Greenwich	80K	18M
SoHo	70K	18M
Greenpoint	50K	22M
Midtown	120K	28M
West Villa.	150K	30M
Lower Eas.	250K	32M
Upper Eas.	210K	38M
Chelsea	210K	40M
Hell's Kitc.	200K	45M
East Village	480K	50M
Upper We.	170K	65M
Bedford-S.	120K	70M
Williamsb.	210K	80M

A scatter plot showing the relationship between Average Price (x-axis) and Average Number of Citibike Trips per Month (y-axis). The x-axis ranges from 0 to 400, and the y-axis ranges from 0 to 1200. A positive linear regression line is shown, indicating that as the average price increases, the average number of trips also tends to increase. The data points are labeled with IDs, and many points are clustered at lower prices and trip counts.