

Number of Venues (NOTEBOOK)		MANHATTAN	Neighborhood	Number of Neighborhoods from Cluster (NOTEBOOK)	CLUSTER NUMBER	Number of Venues (CALCULATED)	Population	Area (mile2)	Density (people/mile2)	AVG Income (US\$)		1st Most Common Venue	QUANTITY		2nd Most Common Venue	QUANTITY		3rd Most Common Venue	QUANTITY		4th Most Common Venue	QUANTITY		5th Most Common Venue	QUANTITY		6th Most Common Venue	QUANTITY		7th Most Common Venue	QUANTITY		8th Most Common Venue	QUANTITY		9th Most Common Venue	QUANTITY		10th Most Common Venue	QUANTITY		
													Neighborhood	Cluster		Neighborhood	Cluster		Neighborhood	Cluster		Neighborhood	Cluster		Neighborhood	Cluster		Neighborhood	Cluster		Neighborhood	Cluster		Neighborhood	Cluster		Neighborhood	Cluster		Neighborhood	Cluster	
100	5		Chinatown	1	0	100	9660	0.12	81810.00	36900.00	Chinese Restaurant	9	29	Bakery	6	47	Cocktail Bar	5	36	American Restaurant	4	46	Dessert Shop	4	18	Noodle House	3	7	Salon / Barbershop	3	20	Optical Shop	3	4	Spa	3	23	Hotpot Restaurant	3	4		
98	36		Upper East Side	8	0	98	192660	1.63	118470.00	130300.00	Italian Restaurant	7	108	Exhibit	7	7	Coffee Shop	6	85	Bakery	5	47	Gym / Fitness Center	4	27	Yoga Studio	3	20	Juice Bar	3	11	Hotel	3	30	French Restaurant	3	28	Cosmetics Shop	3	18		
100	40		Yorkville	9	0	100					Italian Restaurant	8	108	Bar	6	45	Gym	6	29	Coffee Shop	5	85	Sushi Restaurant	4	34	Deli / Bodega	4	13	Wine Shop	3	25	Diner	3	13	Japanese Restaurant	3	24	Mexican Restaurant	3	29		
100	17		Lenox Hill	10	0	100					Italian Restaurant	7	108	Sushi Restaurant	6	34	Coffee Shop	5	85	Pizza Place	5	47	Cocktail Bar	4	36	Café	3	42	Gym	3	29	Gym / Fitness Center	3	27	Burger Joint	3	15	Playground	2	12		
98	37		Upper West Side	12	0	98	209840	1.94	107970.00	119500.00	Italian Restaurant	7	108	Bar	4	45	Café	4	42	Wine Bar	3	25	Indian Restaurant	3	17	Bakery	3	47	Pizza Place	3	47	Coffee Shop	3	85	Vegetarian / Vegan Restaurant	2	18	Mediterranean Restaurant	2	19		
100	27		Murray Hill	16	0	100	11190	0.15	73020.00	121200.00	Japanese Restaurant	4	24	American Restaurant	4	46	Gym / Fitness Center	4	27	Sandwich Place	4	22	Hotel	4	30	Coffee Shop	4	85	Italian Restaurant	3	108	Bar	3	45	Restaurant	3	10	Grocery Store	2	18		
100	4		Chelsea	17	0	100	46760	0.82	56980.00	98100.00	Coffee Shop	10	85	Art Gallery	5	21	Bakery	4	47	American Restaurant	3	46	Italian Restaurant	3	108	Ice Cream Shop	3	30	Cycle Studio	2	13	Cupcake Shop	2	5	Café	2	42	Market	2	3		
100	13		Greenwich Village	18	0	100					Italian Restaurant	12	108	Sushi Restaurant	5	34	Clothing Store	4	21	Café	4	42	American Restaurant	3	46	Gym	3	29	Boutique	3	20	Bubble Tea Shop	3	13	Indian Restaurant	3	17	Chinese Restaurant	3	29		
100	9		East Village	19	0	100	66640	0.65	102630.00	61700.00	Bar	8	45	Ice Cream Shop	5	30	Mexican Restaurant	5	29	Coffee Shop	4	85	Wine Bar	4	25	Cocktail Bar	4	36	Pizza Place	4	47	Korean Restaurant	3	7	Speakeasy	3	9	Vegetarian / Vegan Restaurant	3	18		
88	33		Tribeca	21	0	88	19780	0.46	43030.00	193900.00	Park	5	26	American Restaurant	5	46	Wine Bar	4	27	Italian Restaurant	4	108	Coffee Shop	3	85	Café	3	42	Spa	3	23	Greek Restaurant	3	13	Poke Place	2	3	Playground	2	12		
100	19		Little Italy	22	0	100	10680	0.11	99970.00	85500.00	Bakery	6	47	Café	5	42	Bubble Tea Shop	4	13	Italian Restaurant	4	108	Chinese Restaurant	4	29	Pizza Place	3	47	Sandwich Place	3	22	Cocktail Bar	3	36	Ice Cream Shop	3	30	Mediterranean Restaurant	3	19		
100	30		Soho	23	0	100	10940	0.31	35650.00	121400.00	Italian Restaurant	9	108	Clothing Store	9	21	Coffee Shop	6	85	Boutique	5	20	Bakery	3	47	Shoe Store	3	8	Café	3	42	Mediterranean Restaurant	3	19	French Restaurant	2	28	Sporting Goods Shop	2	8		
100	39		West Village	24	0	100	24620	0.42	58270.00	124200.00	Italian Restaurant	10	108	American Restaurant	6	46	New American Restaurant	5	15	Cocktail Bar	4	36	Wine Bar	4	27	Park	4	26	Jazz Club	3	6	Pizza Place	3	47	Coffee Shop	3	85	Theater	3	6		
49	21		Manhattan Valley	25	0	49					Coffee Shop	3	85	Bar	3	45	Yoga Studio	2	20	Thai Restaurant	2	23	Playground	2	12	Mexican Restaurant	2	29	Pizza Place	2	47	Ethiopian Restaurant	1	1	Café	1	42	Caribbean Restaurant	1	4		
94	12		Gramercy	27	0	94	57300	0.54	106980.00	110300.00	Bar	6	45	Italian Restaurant	5	108	Thai Restaurant	4	23	American Restaurant	4	46	Pizza Place	4	47	Bagel Shop	4	16	Coffee Shop	4	85	Diner	3	13	Mexican Restaurant	3	29	Thrift / Vintage Store	3	3		
89	2		Carnegie Hill	30	0	89	15600	0.15	107010.00	179100.00	Coffee Shop	8	85	Café	4	42	Yoga Studio	3	20	Wine Shop	3	25	Italian Restaurant	3	108	Gym / Fitness Center	3	27	Gym	3	29	French Restaurant	3	28	Pizza Place	3	47	Bookstore	3	16		
100	28		Noho	31	0	100	5610	0.09	60970.00	138900.00	Italian Restaurant	6	108	Hotel	5	30	Art Gallery	4	21	Pizza Place	4	47	Mexican Restaurant	4	29	French Restaurant	3	28	Sandwich Place	3	22	Grocery Store	3	18	Cocktail Bar	3	36	Coffee Shop	3	85		
100	32		Sutton Place	34	0	100	21830	0.17	126740.00	155000.00	Italian Restaurant	5	108	Park	4	26	Furniture / Home Store	4	14	Gym / Fitness Center	4	27	Coffee Shop	4	85	Pizza Place	4	47	Gym	3	29	Chinese Restaurant	2	29	Grocery Store	2	18	Mediterranean Restaurant	2	19		
100	35		Turtle Bay	35	0	100	19840	0.27	72230.00	126500.00	Coffee Shop	5	85	Italian Restaurant	5	108	Sushi Restaurant	4	34	Ramen Restaurant	3	8	Seafood Restaurant	3	15	Japanese Restaurant	3	24	Deli / Bodega	3	13	Park	3	26	Bar	2	45	Turkish Restaurant	2	6		
100	11		Flatiron	38	0	100	26350	0.48	54700.00	129500.00	Italian Restaurant	5	108	New American Restaurant	4	15	Japanese Restaurant	4	24	Gym	3	29	Mediterranean Restaurant	3	19	Furniture / Home Store	3	14	Cycle Studio	3	13	Spa	3	23	Gym / Fitness Center	3	27	American Restaurant	3	46		
						1916	749300	8	90179.66	118676.79																																
45	3		Central Harlem	6	1	45	112500	####	8330.00	46900.00	African Restaurant	3	3	Cosmetics Shop	2	9	French Restaurant	2	13	American Restaurant	2	20	Bar	2	10	Seafood Restaurant	2	5	Chinese Restaurant	2	7	Salon / Barbershop	1	2	Coffee Shop	1	34	Cocktail Bar	1	14		
26	29		Roosevelt Island	11	1	26	11660	0.24	48250.00	92900.00	Deli / Bodega	2	6	Plaza	1	9	Coffee Shop	1	34	Sandwich Place	1	14	Gym / Fitness Center	1	22	Gym	1	21	Dry Cleaner	1	1	Greek Restaurant	1	2	School	1	1	Outdoors & Recreation	1	1		
93	18		Lincoln Square	13	1	93					Plaza	5	9	Italian Restaurant	4	16	Performing Arts Venue	4	6	Concert Hall	4	5	Café	4	16	Theater	4	16	Indie Movie Theater	3	3	Wine Shop	3	11	Gym / Fitness Center	3	22	Bakery	3	12		
100	7		Clinton	14	1	100	30760	0.59	51910.00	85500.00	Theater	7	16	American Restaurant	5	20	Gym / Fitness Center	5	22	Coffee Shop	4	34	Cocktail Bar	4	14	Gym	4	29	Spa	3	11	Sandwich Place	3	14	Hotel	3	26	Italian Restaurant	3	16		
100	24		Midtown	15	1	100	17110	0.70	24350.00	126800.00	Hotel	6	26	Bakery	5	12	Clothing Store	5	10	Coffee Shop	5	34	Theater	4	16	Steakhouse	4	10	Bookstore	3	6	Café	3	16	Sporting Goods Shop	3	5	Sushi Restaurant	3	6		
66	1		Battery Park City	28	1	66	13390	0.22	61810.00	164700.00	Park	6	21	Hotel	5	26	Coffee Shop	4	34	Gym	4	29	Memorial Site	3	4	Shopping Mall	2	2	Food Court	2	5	Clothing Store	2	10	Gourmet Shop	1	6	Boat or Ferry	2	4		
100	10		Financial District	29	1	100	26310	0.53	49500.00	127300.00	Coffee Shop	10	34	Pizza Place	4	13	Park	4	21	Cocktail Bar	4	14	Bar	3	10	Gym	3	29	Juice Bar	3	5	Hotel	3	26	Steakhouse	3	10	Salad Place	3	6		
100	6		Civic Center	32	1	100					Spa	5	11	Gym / Fitness Center	5	22	Coffee Shop	5	34	Hotel	4	26	French Restaurant	4	13	Cocktail Bar	4	14	Yoga Studio	4	5	American Restaurant	3	20	Sushi Restaurant	3	6	Park	3	21		
62	15		Hudson Yards	39	1	62					Hotel	4	26	Italian Restaurant	4	16	Gym / Fitness Center	4	22	American Restaurant	3	20	Thai Restaurant	2	3	Boat or Ferry	2	4	N													

Number of Venues (NOTEBOOK)	Order# frequency	Number of neighborhood from cluster (NOTEBOOK)	CLUSTER NUMBER		TORONTO	Population	Area (mile2)	Density (people/mile2)	AVG Income (CAD)	1st Most Common Venue	QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY	
											Neighborhood	Cluster	2nd Most Common Venue	Neighborhood	Cluster	3rd Most Common Venue	Neighborhood	Cluster	4th Most Common Venue	Neighborhood	Cluster	5th Most Common Venue	Neighborhood	Cluster	6th Most Common Venue	Neighborhood	Cluster	7th Most Common Venue	Neighborhood	Cluster	8th Most Common Venue	Neighborhood	Cluster	9th Most Common Venue	Neighborhood	Cluster
3	18	4	0	19	Lawrence Park	29786	5.52	5396.24	148490.46	Park	1	4	Bus Line	1	1	Swim School	1	1	Dessert Shop	0	0	Escape Room	0	0	Electronics Store	0	0	Eastern European Restaurant	0	0	Dumpling Restaurant	0	0	Donut Shop	0	0
4	26	10	0	27	Rosedale					Park	2	4	Playground	1	1	Trail	1	2	Deli / Bodega	0	0	Electronics Store	0	0	Electronics Store	0	0	Eastern European Restaurant	0	0	Donut Shop	0	0	Doner Restaurant	0	0
4	12	23	0	13	Forest Hill North & West, Forest Hill Road Park	24056	4.35	5530.00	101631.00	Park	1	4	Jewelry Store	1	1	Trail	1	2	Sushi Restaurant	1	1	Yoga Studio	0	0	Department Store	0	0	Eastern European Restaurant	0	0	Dumpling Restaurant	0	0	Donut Shop	0	0
						53842	9.87	5455.20	127554.18																											
43	36	1	1	37	The Danforth West, Riverdale	66638	13.96	4773.81	79848.71	Greek Restaurant	7	12	Coffee Shop	4	155	Italian Restaurant	3	33	Restaurant	2	54	Furniture / Home Appliances & Chippy Shop	2	10	Bookstore	2	16	Ice Cream Shop	2	10	Pub	1	20	Pizza Place	1	26
19	16	2	1	17	India Bazaar, The Beaches West					Park	2	27	Sushi Restaurant	1	23	Liquor Store	1	6	Steakhous e	1	13		1	2	Pub	1	20	Restaurant	1	54	Italian Restaurant	1	33	Burrito Place	1	9
37	32	3	1	33	Studio District					Coffee Shop	3	155	Bakery	2	27	Gastropub	2	18	Brewery	2	12	Café	2	72	American Restaurant	2	22	Common Food Restaurant	1	5	Bar	1	25	Bookstore	1	16
1	9	5	1	10	Davisville North					Sandwich Place	1	19	Dog Run	1	4	Dance Studio	1	3	Hotel	1	41	Food & Drink Shop	1	2	Department Store	1	12	Breakfast Spot	1	18	Gym / Fitness Center	1	10	Park	1	27
18	21	6	1	22	North Toronto West, Lawrence Park					Coffee Shop	2	155	Clothing Store	2	20	Bagel Shop	1	4	Furniture / Home Store	1	10	Ice Cream Shop	1	10	Fast Food Restaurant	1	10	Diner	1	14	Mexican Restaurant	1	11	Park	1	27
33	8	7	1	9	Daviesville					Dessert Shop	3	12	Sandwich Place	3	19	Pizza Place	3	26	Café	2	72	Coffee Shop	2	155	Italian Restaurant	2	33	Sushi Restaurant	2	23	Gym	2	26	Park	1	27
14	33	9	1	34	Summerhill West, Rathnelly, South Hill, Forest	29756	5.30	5614.10	89788.23	Coffee Shop	2	155	Sushi Restaurant	1	23	Pub	1	20	Supermarket	1	3	Bagel Shop	1	4	Bank	1	8	Fried Chicken Joint	1	8	Restaurant	1	54	Pizza Place	1	26
48	30	11	1	31	St. James Town, Cabbagetown	11669	1.40	8335.00	61184.00	Coffee Shop	4	155	Restaurant	3	54	Café	3	72	Pizza Place	3	26	Chinese Restaurant	2	8	Italian Restaurant	2	33	Bakery	2	27	Pub	2	20	Market	2	2
75	6	12	1	6	Church and Wellesley	31340	1.36	23044.00	56366.00	Coffee Shop	7	155	Sushi Restaurant	4	23	Japanese Restaurant	4	30	Gay Bar	4	5	Restaurant	3	54	Yoga Studio	2	11	Men's Store	2	4	Café	2	72	Bubble Tea Shop	2	9
44	24	13	1	25	Regent Park, Harbourfront	25171	2.20	11457.05	57702.82	Coffee Shop	8	155	Park	3	27	Bakery	3	27	Pub	3	20	Breakfast Spot	2	18	Café	2	72	Theater	2	12	Shoe Store	1	2	Brewery	1	12
100	13	14	1	14	Garden District, Ryerson	8240	0.52	15846.00	37614.00	Clothing Store	10	20	Coffee Shop	9	155	Café	4	72	Japanese Restaurant	3	30	Bubble Tea Shop	3	9	Cosmetics Shop	3	9	Hotel	2	41	Fast Food Restaurant	2	10	Theater	2	12
85	29	15	1	30	St. James Town					Coffee Shop	6	155	Café	5	72	Cocktail Bar	4	12	Restaurant	4	54	American Restaurant	3	22	Beer Bar	3	18	Gastropub	3	18	Seafood Restaurant	2	22	Japanese Restaurant	2	30
55	0	16	1	1	Berczy Park					Coffee Shop	5	155	Bakery	2	27	Restaurant	2	54	Cheese Shop	2	7	Beer Bar	2	18	Cocktail Bar	2	12	Seafood Restaurant	2	22	Farmers Market	1	11	Breakfast Spot	1	18
68	4	17	1	4	Central Bay Street					Coffee Shop	12	155	Café	4	72	Italian Restaurant	3	33	Sandwich Place	3	19	Bubble Tea Shop	2	9	Burger Joint	2	9	Thai Restaurant	2	19	Salad Place	2	12	Japanese Restaurant	2	30
100	25	18	1	26	Richmond, Adelaide, King					Coffee Shop	8	155	Café	5	72	Restaurant	4	54	Hotel	4	41	Bar	4	25	Gym	4	26	Thai Restaurant	3	19	Clothing Store	3	20	Steakhous e	2	13
100	14	19	1	15	Harbourfront East, Union Station, Toronto Islands					Coffee Shop	13	155	Aquarium	5	5	Hotel	4	41	Café	4	72	Restaurant	3	54	Fried Chicken Joint	3	8	Scenic Lookout	3	3	Brewery	3	12	Music Venue	2	5
100	37	20	1	38	Toronto Dominion Centre, Design Exchange					Coffee Shop	14	155	Hotel	8	41	Restaurant	5	54	Café	5	72	Salad Place	3	12	Japanese Restaurant	3	30	Seafood Restaurant	3	22	American Restaurant	3	22	Deli / Bodega	2	13
100	7	21	1	8	Commerce Court, Victoria Hotel					Coffee Shop	13	155	Restaurant	7	54	Café	6	72	Hotel	6	41	Gym	4	26	American Restaurant	4	22	Seafood Restaurant	3	22	Japanese Restaurant	3	30	Deli / Bodega	3	13
74	17	26	1	18	Kensington Market, Chinatown, Grange Park	26952	2.35	11446.96	41212.00	Mexican Restaurant	4	11	Coffee Shop	4	155	Vegetarian / Vegan Restaurant	4	16	Café	4	72	Bar	4	25	Vietnames e Restaurant	3	8	Bakery	2	27	Dessert Shop	2	12	Park	2	27
16	3	27	1	7	UN tower, King and Spadina, Railway Lands, Har					Airport Lounge	2	2	Airport Service	2	2	Bar	1	25	Boutique	1	1	Sculpture Garden	1	2	Coffee Shop	1	155	Boat or Ferry	1	1	Rental Car Location	1	1	Harbor / Marina	1	1
96	31	28	1	32	Stn A PO Boxes					Coffee Shop	10	155	Italian Restaurant	4	33	Pub	3	20	Restaurant	3	54	Japanese Restaurant	3	30	Seafood Restaurant	3	22	Beer Bar	3	18	Hotel	3	41	Café	3	72
100	11	29	1	12	First Canadian Place, Underground city					Coffee Shop	10	155	Café	7	72	Hotel	6	41	Restaurant	4	54	Gym	4	26	American Restaurant	4	22	Japanese Restaurant	4	30	Deli / Bodega	3	13	Seafood Restaurant	3	22
45	19	32	1	20	Little Portugal, Trinity	32115	2.94	10923.62	69472.23	Bar	4	25	Coffee Shop	3	155	Vietnames e Restaurant	2	8	Restaurant	2	54	Café	2	72	Asian Restaurant	2	11	Men's Store	2	4	Cuban Restaurant	1	2	Brewery	1	12
23	1	33	1	2	Brooklyn, Parkdale Village, Exhibition Place	37406	3.13	11950.72	26542.60	Café	3	72	Nightclub	2	3	Coffee Shop	2	155	Breakfast Spot	2	18	Bakery	1	27	Convenience Store	1	3	Performing Arts Venue	1	3	Pet Store	1	4	Climbing Gym	1	1
25	15	34	1	16	High Park, The Junction South	36528	4.53	8063.89	70319.98	Mexican Restaurant	2	11	Café	2	72	Thai Restaurant	2	19	Bar	2	25	Arts & Crafts Store	1	2	Bookstore	1	16	Discount Store	1	3	Fast Food Restaurant	1	10	Italian Restaurant	1	33
14	22	35	1	23	Parkdale, Roncesvalles	14974	1.52	9851.00	63130.00	Gift Shop	2	5	Breakfast Spot	2	18	Dog Run	1	4	Cuban Restaurant	1	2	Dessert Shop	1	12	Bookstore	1	16	Italian Restaurant	1	33	Bar	1	25	Movie Theater	1	5
33	28	36	1	29	Runnymede, Swansea	33995	6.48	5246.37	91454.46	Café	3	72	Coffee Shop	3	155	Italian Restaurant	2	33	Pizza Place	2	26	Pub	2	20	Sushi Restaurant	2	23	Smoothie Shop	1	3	Burrito Place	1	9	Falafel Restaurant	1	2
33	23	37	1	24	Queen's Park, Ontario Provincial Government					Coffee Shop	8	155	Yoga Studio	1	11	Hobby Shop	1	2	Distribution Center	1	4	Restaurant	1	54	Music Venue	1	5	Italian Restaurant	1	33	Diner	1	14	Smoothie Shop	1	3
16	2	38	1	3	Business reply mail Processing Centre, South C...					Light Rail Station	1	2	Farmers Market	1	11	Skate Park	1	1	Brewery	1	12	Park	1	27	Gym / Fitness Center	1	10	Comic Shop	1	3	Restaurant	1	54	Garden Center	1	1
						354784	45.69	7764.96	50374.97																											
19	34	24	2	35	The Annex, North Midtown, Yorkville	30562	2.83	10803.00	71053.00	Sandwich Place	3	5	Café	3	12	Coffee Shop	2	4	Park	1	4	History Museum	1	1	Liquor Store	1	1	Burger Joint	1	1	Indian Restaurant	1	1	BBQ Joint	1	1
34	38	25	2	39	University of Toronto, Harbord					Café	5	12	Bookstore	3	3	Bakery	2	4	Bar	2	3	Sandwich Place	2	5	Japanese Restaurant	2	2	Coffee Shop	1	4	Dessert Shop	1	1	Pub	1	2
16	5																																			