

Percent takeout	Reporting business name	Business type	Days open per week	Days open per year	Cust per day	Takeout customers annually	Total restaurants	Restaurants per category		
25.00%	Ithaca Beer Co.	Sit-down Restaurant	5	260	348	22,620.00	289	57.8		
0.00%	Tacos CDMX	Fast Casual Restaurant	6	312	207	0.00				
75.00%	khmer Angkor	Food Hall Stand	2	104	416	32,448.00				
50.00%	Forty Weight Coffee Roasters	Cafe/Cafeteria	7	364	144	26,208.00				
25.00%	Cup O Jo Cafe	Coffee shop	7	364	110	10,010.00				
25.00%	Hypothetical	Fast Casual Restaurant	6	312	207	16,146.00				
Sit-down Restaurant						Coffee shop				
Takeout type	Item quantity	Cost (\$)	Emissions (lb)	Mass (lb)		Takeout type	Item quantity	Cost (\$)	Emissions (lb)	Mass (lb)
Utensils packet PLA	1	0.03	0.06	0.03200000001		Utensil packet	1	0.03	0.08554856	0.03992
Napkins	6	0.01	0.02712934	0.03992						
Plastic Bag	1	0.01	0.002225069403	0.001178571429						
Ramekin	1	0.04	0.0077148	0.0036						
Annual Business Total						Annual Business Total	10,010.00	300.30	856.34	399.60
25%						25%	2,502.50	75.08	214.09	99.90
Savings 25%						Savings 25%	7,507.50	225.23	642.26	299.70
Annual Business Total						50%	5,005.00	150.15	428.17	199.80
25%										
Savings 25%						Sector total	578,578.00	17,357.34	49,496.51	23,096.83
50%						Sector savings 25%	433,933.50	13,018.01	37,122.39	17,322.63
Sector total						Sector savings 50%	289,289.00	8,678.67	24,748.26	11,548.42
Sector savings 25%										
Sector savings 50%										
5,883,462.00										
58,834.62										
63,455.89										
50,139.24										
Cafe/Cafeteria						Fast Casual Restaurant				
Takeout type	Item quantity	Cost (\$)	Emissions (lb)	Mass (lb)		Takeout type	Item quantity	Cost (\$)	Emissions (lb)	Mass (lb)

Utensils packet	1	0.03	0.08554856	0.03992	Utensil packet	1	0.03	0.08554856	0.03992
Napkins	6	0.01	0.02712934	0.01457	Napkins	6	0.01	0.02712934	0.01457
Lid stirrer	1	0.03	0.005818245	0.002715	Paper bag	1	0.02	0.1962548	0.1054
3 sugar packets	1	0.03	0.18922575	0.101625	Ramekin	1	0.04	0.0077148	0.0036
2 creamers	1	0.08	0.06738544444	0.03144444444	Ramekin	1	0.04	0.0077148	0.0036
Total	10	0.18	0.3751073394	0.1902744444	Total	10	0.14	0.3243623	0.16709
Annual Business Total	262,080.00	4,717.44	9,830.81	4,986.71	Annual Business Total	161,460.00	2,260.44	5,237.15	2,697.84
25%	65,520.00	1,179.36	2,457.70	1,246.68	25%	40,365.00	565.11	1,309.29	674.46
Savings 25%	196,560.00	3,538.08	7,373.11	3,740.03	Savings 25%	121,095.00	1,695.33	3,927.87	2,023.38
50%	131,040.00	2,358.72	4,915.41	2,493.36	50%	80,730.00	1,130.22	2,618.58	1,348.92
Sector total	15,148,224.00	272,668.03	568,221.00	288,231.99	Sector total	9,332,388.00	130,653.43	302,707.48	155,934.87
Sector savings 25%	11,361,168.00	204,501.02	426,165.75	216,173.99	Sector savings 25%	6,999,291.00	97,990.07	227,030.61	116,951.15
Sector savings 50%	7,574,112.00	136,334.02	284,110.50	144,116.00	Sector savings 50%	4,666,194.00	65,326.72	151,353.74	77,967.44
Food Hall Stand					Totals				
Takeout type	Item quantity	Cost (\$)	Emissions (lb)	Mass (lb)					
Utensils packet PLA	1	0.03	0.06	0.0320000001	Business type	Annual emissions (tons CO2e)	Annual single-use accessory quantity	Mass landfilled (tons)	
Napkins	6	0.01	0.02712934	0.01457	Sit-down Restaurant	63.5	11,766,924.00		
4 condiment packets	1	0.1	0.04286	0.02	Fast Casual Restaurant	151.4	9,332,388.00		
Straw	1	0.01	0.00270018	0.00126	Food Hall Stand	124.4	16,879,449.60		
					Cafe/Cafeteria	284.1	15,148,224.00		
					Coffee shop	24.7	578,578.00		
Total	9	0.15	0.13268952	0.0678300001	Total	648.1	53,705,563.60	347.38	
Annual Business Total	292,032.00	4,867.20	4,305.51	2,200.95					
25%	73,008.00	1,216.80	1,076.38	550.24	Scenario	Carbon savings (tons CO2e)	Landfill mass avoided (tons)	Cost savings (\$)	Average cost/restaurant



Truck EF: lb CO2/tonne*km	0.20723428		<a href="#">Trash truck weight capacity</a>							
avg weight load of refuse truck, tons	18		*assumes trash trucks were filled with only foodware accessories for 20 trips							
trucks required for 100% accessories	#REF!		*Assumes empty trucks on the way back (out of scope)							
ton*mi	2340		<a href="#">GWP truck tonne*km</a>							
ton*mi/trip	2340		*Assumes refuse trucks can carry up to 18 tons of solid waste and travel approximately 130 miles per route							
ton*mi/year	#REF!									
tonne-km/year	#REF!									
lb CO2/year	#REF!									
tons CO2/year	#REF!									
miles per gallon	2.53									
CO2 emissions per diesel gallon, lbs	22.45									
CO2 emissions per truck per route, lbs	1153.557312									
CO2 emissions per truck per route, tons	0.5767786561									
Emissions for Collection Trucks										
Annual CO2e for accessory-only trucks (lb)	23071.14625	Tipping fee/ton								

Annual CO2e for accessory-only trucks (tons)	11.53557312	96								
Item database	<a href="#">Item costs</a>	Item emissions (lb)	Mass	Material	Mass per case	Items per case	Emission factor	Source		
Lid stirrer	0.03	0.005818245	0.002715	PP	5.43	2000	2.143	<a href="https://www.webstaurantstore.com/royal-paper-stirstix-bk-stix-to-go-4-3-4-black-beverage-plug-and-stirrer-case/485STRSTXBK.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWT1DfYhxkc9ruUoU1p0dUGEU6NQLdpaYpo0BeJWYoGmBXLJUM2oio4aAj4oEALw_wcB">https://www.webstaurantstore.com/royal-paper-stirstix-bk-stix-to-go-4-3-4-black-beverage-plug-and-stirrer-case/485STRSTXBK.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWT1DfYhxkc9ruUoU1p0dUGEU6NQLdpaYpo0BeJWYoGmBXLJUM2oio4aAj4oEALw_wcB</a>		
3 sugar packets	0.03	0.18922575	0.101625	Paper	13.55	400	1.862	<a href="https://www.webstaurantstore.com/sugar-in-the-raw-5-gram-packets-case/110835.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWRRwZenlDj0yVaNu3r94qFAzd69c7uTYGtf3up3CIPdx_3TkQrk2gYaAsANEALw_wcB">https://www.webstaurantstore.com/sugar-in-the-raw-5-gram-packets-case/110835.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWRRwZenlDj0yVaNu3r94qFAzd69c7uTYGtf3up3CIPdx_3TkQrk2gYaAsANEALw_wcB</a>		
2 creamers	0.08	0.06738544444	0.03144444444	PP	5.66	180	2.143	<a href="https://www.webstaurantstore.com/nestle-coffee-mate-french-vanilla-single-serve-non-dairy-creamer-case/110CMPCVANIL.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWRIV-nriPBCuJFOGHYvJ182mOMf0hZsV3PY62FBpZdP6hG7ufJQlaAh9rEALw_wcB">https://www.webstaurantstore.com/nestle-coffee-mate-french-vanilla-single-serve-non-dairy-creamer-case/110CMPCVANIL.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWRIV-nriPBCuJFOGHYvJ182mOMf0hZsV3PY62FBpZdP6hG7ufJQlaAh9rEALw_wcB</a>		

Plastic Bag	0.01	0.0022250694030	0.001178571429	LDPE	8.25	7000	1.887937675	<a href="https://www.webstaurantstore.com/1-6-size-white-thank-you-plastic-t-shirt-bag-case/433NHT101.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWSTDizy5wFDA8OXCUcAUom2RxUNTf4cyORxoUarHym9Ehl_1DjTyOlaAkkYEALw_wcB">https://www.webstaurantstore.com/1-6-size-white-thank-you-plastic-t-shirt-bag-case/433NHT101.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWSTDizy5wFDA8OXCUcAUom2RxUNTf4cyORxoUarHym9Ehl_1DjTyOlaAkkYEALw_wcB</a>		
4 condiment packets	0.1	0.04286	0.02	PP	20	1000	2.143	<a href="https://www.webstaurantstore.com/heinz-ketchup-9-gram-portion-packets-case/125PC148.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWSue1K5slWz4UHZcqhPREY_Oa8v_m7Vrl24cytGzuM13Pac19upuJMaAkHSEALw_wcB">https://www.webstaurantstore.com/heinz-ketchup-9-gram-portion-packets-case/125PC148.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWSue1K5slWz4UHZcqhPREY_Oa8v_m7Vrl24cytGzuM13Pac19upuJMaAkHSEALw_wcB</a>		
6 Napkins	0.01	0.02712934	0.01457	Paper	29.14	2000	1.862	<a href="https://www.webstaurantstore.com/choice-15-x-17-3-ply-white-dinner-napkin-case/5003DNAP.html">https://www.webstaurantstore.com/choice-15-x-17-3-ply-white-dinner-napkin-case/5003DNAP.html</a>		
Utensil packet	0.03	0.08554856	0.03992	PP	19.96	500	2.143	<a href="https://www.webstaurantstore.com/visions-heavy-weight-black-wrapped-plastic-cutlery-pack-with-napkin-and-salt-and-pepper-packets-case/130BKFSNSPH.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWQMYHPHOLxAXywCzmrBplM9FKEIVwrYNXgkhBa55m01ouz2ESCUu3saAqVGEALw_wcB">https://www.webstaurantstore.com/visions-heavy-weight-black-wrapped-plastic-cutlery-pack-with-napkin-and-salt-and-pepper-packets-case/130BKFSNSPH.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCQiAyeWrBhDDARIsAGP1mWQMYHPHOLxAXywCzmrBplM9FKEIVwrYNXgkhBa55m01ouz2ESCUu3saAqVGEALw_wcB</a>		

Ramekin	0.04	0.0077148	0.0036	PP	9	2500	2.143	<a href="https://www.webstaurantstore.com/choice-2-oz-clear-plastic-souffle-cup-portion-cup-case/127P2C.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCCQiAyeWrBhDDARIsAGP1mWSA3fnrS62lls-tcz33DM0btjyI5EhGnkGKxq3YA1FOFcNUNWluOksaAk6nEALw_wcB">https://www.webstaurantstore.com/choice-2-oz-clear-plastic-souffle-cup-portion-cup-case/127P2C.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCCQiAyeWrBhDDARIsAGP1mWSA3fnrS62lls-tcz33DM0btjyI5EhGnkGKxq3YA1FOFcNUNWluOksaAk6nEALw_wcB</a>		
Straw	0.01	0.00270018	0.00126	PP	0.63	500	2.143	<a href="https://www.webstaurantstore.com/choice-7-3-4-jumbo-black-unwrapped-straw-box/999UJ7BK.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCCQiAyeWrBhDDARIsAGP1mWRICKxj0eAcNXd9yYkUUKwmNUpPu3-hciM35flG2dhEYMNbC04M1XgaAjBDEALw_wcB">https://www.webstaurantstore.com/choice-7-3-4-jumbo-black-unwrapped-straw-box/999UJ7BK.html?utm_source=google&amp;utm_medium=cpc&amp;utm_campaign=GoogleShopping&amp;gclid=Cj0KCCQiAyeWrBhDDARIsAGP1mWRICKxj0eAcNXd9yYkUUKwmNUpPu3-hciM35flG2dhEYMNbC04M1XgaAjBDEALw_wcB</a>		
Paper bag	0.02	0.1962548	0.1054	Paper	26.35	250	1.862	<a href="https://www.webstaurantstore.com/choice-10-x-6-3-4-x-12-natural-kraft-paper-shopping-bag-with-handles-case/433BR10712C.html">https://www.webstaurantstore.com/choice-10-x-6-3-4-x-12-natural-kraft-paper-shopping-bag-with-handles-case/433BR10712C.html</a>		
Utensil packet PLA	0.03	0.06	0.0320000001	PLA				<a href="https://www.amazon.com/100-Compostable-Utensils-Heavyweight-Flatware-Friendly/dp/B0B5R7RRV/K/ref=sr_1_5?crid=1JLPGLM4KX0IC&amp;keywords=COMPOSTABLE%2Butensils&amp;qid=1699771793&amp;srefix=compostable%2Butensils%2Caps%2C175&amp;sr=8-5&amp;th=1">https://www.amazon.com/100-Compostable-Utensils-Heavyweight-Flatware-Friendly/dp/B0B5R7RRV/K/ref=sr_1_5?crid=1JLPGLM4KX0IC&amp;keywords=COMPOSTABLE%2Butensils&amp;qid=1699771793&amp;srefix=compostable%2Butensils%2Caps%2C175&amp;sr=8-5&amp;th=1</a>		