Association between socio demographic profile and design parameters

1. Age groups

Age group Vs. Preferred Signage

Count

		Preferred Signage						Total
		Biowaste Diversion Bin	Biowaste Recycling Bin	Biowaste Environmental Bin	Biowaste Recovery Bin	Without signage	Others	
Age Groups	Youth	24	38	94	15	3	0	174
	Adult	15	41	73	23	2	1	155
	Senior	5	29	16	3	2	0	55
Total		44	108	183	41	7	1	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	28.758[a]	10	.001
Likelihood Ratio	27.324	10	.002
Linear-by-Linear Association	.609	1	.435
N of Valid Cases	384		

a. 6 cells (33.3%) have expected count less than 5. The minimum expected count is .14.

Age group vs. Preferred Capacity

Count

		Preferred Capacity			Total
		Small Drum(30-35 kgs,10 inch diameter)	Medium Drum(80-100 kgs,15 inch diameter)	Large Drum(200 kgs,23 inch diameter)	
Age Groups	Youth	57	78	39	174
	Adult	38	87	30	155
	Senior	14	20	21	55
Total		109	185	90	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	12.471[a]	4	.014
Likelihood Ratio	11.764	4	.019
Linear-by-Linear Association	3.677	1	.055

N of Valid Cases	384		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 12.89.

Age group vs. Composting Engagement

Count

		Composting Engagement		Total
		Yes	No	
Age Groups	Senior	30	25	55
	Adult	60	95	155
	Youth	53	121	174
Total		143	241	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	10.613[a]	2	.005
Likelihood Ratio	10.434	2	.005
Linear-by-Linear Association	10.092	1	.001
N of Valid Cases	384		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 20.48.

2. Sex

Sex vs. Preferred Aeration

Count

		Preferred Aeration		Total
		Natural Aeration (with holes)	Mechanical Aeration (without holes but with fan)	
Sex	Female	126	87	213
	Male	79	92	171
Total		205	179	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	6.398[a]	1	.011		
Continuity Correction[b]	5.888	1	.015		
Likelihood Ratio	6.409	1	.011		
Fisher's Exact Test				.013	.008
Linear-by-Linear Association	6.381	1	.012		
N of Valid Cases	384				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 79.71.

b. Computed only for a 2x2 table

Sex vs. Preferred Odor Filter

Count

		Preferred Odor Filter		Total
		Natural (Compost)	Synthetic (Activated Carbon)	
Sex	Female	110	103	213
	Male	71	100	171
Total		181	203	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	3.901[a]	1	.048		
Continuity Correction[b]	3.505	1	.061		
Likelihood Ratio	3.911	1	.048		
Fisher's Exact Test				.051	.030
Linear-by-Linear Association	3.890	1	.049		
N of Valid Cases	384				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 80.60.

b. Computed only for a 2x2 table

3. Marital Status

Marital Status vs Preferred Signage

Count

		Preferred Signage						Total
		Biowaste Diversion Bin	Biowaste Recycling Bin	Biowaste Environmental Bin	Biowaste Recovery Bin	Without signage	Others	
Marital Status	Widowed/separated	0	12	7	3	1	0	23
	Married	19	61	78	18	4	1	181
	Single/Never Married	25	35	98	20	2	0	180
Total		44	108	183	41	7	1	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	22.044[a]	10	.015
Likelihood Ratio	24.515	10	.006
Linear-by-Linear Association	.052	1	.820
N of Valid Cases	384		

a. 8 cells (44.4%) have expected count less than 5. The minimum expected count is .06.

Marital Status vs Composting Engagement

Count

		Composting Engagement		Total
		Yes	No	
Marital Status	Widowed/separated	11	12	23
	Married	77	104	181
	Single/Never Married	55	125	180
	Total	143	241	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	6.721[a]	2	.035
Likelihood Ratio	6.751	2	.034
Linear-by-Linear Association	6.434	1	.011
N of Valid Cases	384		

4. Educational Attainment

Educational Attainment vs Preferred Biodegradable waste scheme

Count

		Preferred Biodegradable Waste Scheme			Total
		Household level only	Barangay level only	Both household and barangay	
Education Attainment	Doctorate	0	0	3	3
	Masteral	2	2	12	16
	College	29	43	189	261
	High School	16	20	47	83
	Elementary	8	5	8	21
Total		55	70	259	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	20.941[a]	8	.007
Likelihood Ratio	19.693	8	.012
Linear-by-Linear Association	17.556	1	.000
N of Valid Cases	384		

a. 7 cells (46.7%) have expected count less than 5. The

minimum expected count is .43.

Educational Attainment vs Preferred Color

Count

		Preferred Color													Total
		Cream	Brown	Gray	Orange	Any	Green	Black	Red	Blue	Pink	Peach	White	Yellow	
Education Attainment	Doctorate	0	0	0	1	1	0	0	0	0	1	0	0	0	3
	Masteral	2	3	5	2	0	2	1	0	0	1	0	0	0	16
	College	22	66	81	42	6	19	16	1	2	0	2	1	3	261
	High School	11	22	22	11	6	5	2	1	2	0	0	1	0	83
	Elementary	3	7	3	5	0	3	0	0	0	0	0	0	0	21
Total		38	98	111	61	13	29	19	2	4	2	2	2	3	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	108.468[a]	48	.000
Likelihood Ratio	47.827	48	.480
Linear-by-Linear Association	3.661	1	.056
N of Valid Cases	384		

a. 51 cells (78.5%) have expected count less than 5. The minimum expected count is .02.

5. **No association of Religion**
6. **House ownership**

House ownership vs Composting Enggagement

Count

		Composting Engagement		Total
		Yes	No	
House Ownership	Complete ownership	97	126	223
	Rent	46	115	161
Total		143	241	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	8.913[a]	1	.003		
Continuity Correction[b]	8.286	1	.004		
Likelihood Ratio	9.043	1	.003		
Fisher's Exact Test				.004	.002
Linear-by-Linear Association	8.890	1	.003		
N of Valid Cases	384				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 59.96.

b. Computed only for a 2x2 table

7. Type of Housing

Type of Housing vs Preferred Color

Count

		Preferred Color												Total
		Cream	Brown	Gray	Orange	Any	Green	Black	Red	Blue	Pink	Peach	White	Yellow	
Type of Housing	Others	1	1	1	2	0	2	0	0	0	0	0	1	0	8
	Private Single family house	22	67	57	33	7	19	13	2	2	2	2	1	2	229
	Low Rise Apartment	10	22	43	18	6	8	6	0	2	0	0	0	0	115
	High Rise Apartment	5	8	10	8	0	0	0	0	0	0	0	0	1	32
Total		38	98	111	61	13	29	19	2	4	2	2	2	3	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	54.112[a]	36	.027
Likelihood Ratio	43.879	36	.172
Linear-by-Linear Association	3.152	1	.076
N of Valid Cases	384		

a. 36 cells (69.2%) have expected count less than 5. The
minimum expected count is .04.

Type of Housing vs Composting Engagement

Count

		Composting Engagement		Total
		Yes	No	
Type of Housing	Others	3	5	8
	Private Single family house	100	129	229
	Low Rise Apartment	32	83	115
	High Rise Apartment	8	24	32
Total		143	241	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	10.461[a]	3	.015
Likelihood Ratio	10.695	3	.013

	Value	df	Asymp. Sig.
Linear-by-Linear Association	8.516	1	.004
N of Valid Cases	384		

a. 1 cells (12.5%) have expected count less than 5. The

minimum expected count is 2.98.

8. Respondents Code

Respondents Code vs Preferred Odor filter

Count

		Preferred Odor Filter		Total
		Natural (Compost)	Synthetic (Activated Carbon)	
Respondent's Code	Son/Daughter/Grandmother /Grandfather/Siblings	73	78	151
	Mother	58	45	103
	Head of the Family	50	80	130
Total		181	203	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.494[a]	2	.024
Likelihood Ratio	7.536	2	.023
Linear-by-Linear Association	2.455	1	.117
N of Valid Cases	384		

a. 0 cells (0.0%) have expected count less than 5. The minimum

expected count is 48.55.

Respondents Code vs Preferred Signage

Count

		Preferred Signage						Total
		Biowaste Diversion Bin	Biowaste Recycling Bin	Biowaste Environmental Bin	Biowaste Recovery Bin	Without signage	Others	
Respondent's Code	Son/Daughter/Grandmother/Grandfather/Siblings	16	30	87	15	3	0	151
	Mother	8	37	40	16	1	1	103
	Head of the Family	20	41	56	10	3	0	130

	Total	44	108	183	41	7	1	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	21.661[a]	10	.017
Likelihood Ratio	21.618	10	.017
Linear-by-Linear Association	4.360	1	.037
N of Valid Cases	384		

a. 6 cells (33.3%) have expected count less than 5. The minimum expected count is .27.

9. Income

Income vs Preferred Color

Count

		Preferred Color												Total
		Cream	Brown	Gray	Orange	Any	Green	Black	Red	Blue	Pink	Peach	White	Yellow	
Monthly Income	Above P157,800	0	1	0	0	0	1	0	0	0	1	0	0	0	3
	P118,350-P157,800	1	1	0	0	0	1	0	0	0	0	0	0	0	3
	P78,900-P118,350	0	3	4	2	1	1	0	0	0	0	0	0	0	11
	P31,560-P78,900	4	11	7	5	1	4	1	0	0	0	0	0	0	33
	P15,780-P31,560	7	20	23	11	3	9	5	1	1	0	0	0	1	81
	P7,890-P15,789	18	30	30	27	5	10	9	0	3	1	1	2	1	137
	Less than P 7,890	8	32	47	16	3	3	4	1	0	0	1	0	1	116
Total		38	98	111	61	13	29	19	2	4	2	2	2	3	384

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	110.656[a]	72	.002
Likelihood Ratio	62.015	72	.793

Linear-by-Linear Association	1.030	1	.310
N of Valid Cases	384		

a. 71 cells (78.0%) have expected count less than 5. The minimum expected count is .02.