

Appendix1 The Characteristics checked of each vegetable

	Head Lettuce	Cos lettuce	Celery	Carrot	Baby carrot
Weight per unit					
WU1	1, if 250-450g, 0 otherwise	1, if >200 g, 0 otherwise		1, if 100-150g, 0 otherwise	1, if 10-20g, 0 otherwise
WU2	1, if >450g, 0 otherwise	1, if 100-200g, 0 otherwise		1, if 151-200g, 0 otherwise	1, if >20g, 0 otherwise
WU3				1, if >200g, 0 otherwise	
No. culled out leave	1, if >2, 0 otherwise	1, if <3, 0 otherwise			
Length					
Length1		1 if > 52 cm., 0 otherwise	1 if, 30-35 cm., 0 otherwise	1 if, 15-18 cm., 0 otherwise	1 if, 10-12 cm., 0 otherwise
Length2		1 if, 20-25 cm., 0 otherwise	1 if, >35 cm., 0 otherwise	1 if, 18.1-20 cm., 0 otherwise	1 if, >12 cm., 0 otherwise
Length3				1 if, >20cm., 0 otherwise	
Shape		1, if normal, 0 otherwise		1 if cone shape, 0 otherwise	
Damaged				1, if	
NR	1, if non residue product, 0 otherwise	1, if non residue product, 0 otherwise		1, if non residue product, 0 otherwise	1, if non residue product, 0 otherwise
RP	1, if RP product, 0 otherwise	1, if RP product, 0 otherwise	1, if RP product, 0 otherwise	1, if RP product, 0 otherwise	1, if RP product, 0 otherwise
Imported	1, if imported product, 0 otherwise	1, if imported product, 0 otherwise	1, if imported product, 0 otherwise	1, if imported product, 0 otherwise	1, if imported product, 0 otherwise
Time	1, if summer season, 0 otherwise	1, if rainy season, 0, if summer season	1, if rainy season, 0, if summer season	1, if rainy season, 0, if summer season	1, if rainy season, 0, if summer season
D1	1, if big supper market, 0 otherwise	1, if big supper market, 0 otherwise	1, if big supper market, 0 otherwise	1, if big supper market, 0 otherwise	1, if big supper market, 0 otherwise
D2		1, if Bangkok, 0 otherwise	1, if Bangkok, 0 otherwise	1, if Bangkok, 0 otherwise	1, if Bangkok, 0 otherwise
D3	1, if supper market, 0 otherwise	1, if supper market, 0 otherwise	1, if supper market, 0 otherwise	1, if supper market, 0 otherwise	1, if supper market, 0 otherwise

The Characteristics checked of each vegetable

	Red Cabbage	Michilli	Chinese Cabbage	Sweet pepper	Common tomato
Weight per unit					
WU1	1, if 300-500g, 0 otherwise	1, if >500g. 0 otherwise	1, if >200 g, 0 otherwise	1, if >200g. 0 otherwise	1, if 150-200g, 0 otherwise
WU2	1, if >500g. 0 otherwise			1, if 150-200g., 0 otherwise	1, if >200g. 0 otherwise
No. culled out leave					
Length					
Length1		1 if >30 cm., 0 otherwise	1 if > 19 cm., 0 otherwise		
Shape				1, if normal, 0 otherwise	1, if round-flat, 0 otherwise
%Damage	0-100%				
NR	1, if non residue product, 0 otherwise		1, if non residue product, 0 otherwise	1, if non residue product, 0 otherwise	1, if non residue product, 0 otherwise
RP		1, if RP product, 0 otherwise	1, if RP product, 0 otherwise	1, if RP product, 0 otherwise	1, if RP product, 0 otherwise
Imported	1, if imported product. 0 otherwise			1, if imported product, 0 otherwise	1, if imported product, 0 otherwise
Time	1, if rainy season, 0, if summer season	1, if rainy season, 0, if summer season	1, if summer season, 0 otherwise	1, if rainy season, 0, if summer season	1, if rainy season, 0, if summer season
D1	1, if big supper market, 0 otherwise		1, if big supper market, 0 otherwise	1, if big supper market, 0 otherwise	1, if big supper market, 0 otherwise
D2	1, if Bangkok, 0 otherwise	1, if Bangkok, 0 otherwise	1, if Bangkok, 0 otherwise	1, if Bangkok, 0 otherwise	1, if Bangkok, 0 otherwise
D3	1, if supper market, 0 otherwise	1, if supper market, 0 otherwise	1, if supper market, 0 otherwise	1, if supper market, 0 otherwise	1, if supper market, 0 otherwise

	Cherry tomato	Pumpkin	Cucumber	Zucchini	Snap bean
Weight per unit					
WU1	1, if 6-10g, 0 otherwise	1, if 1000-1800g, 0 otherwise		1, if 110-160g, 0 otherwise	1, if >8g 0 otherwise
WU2	1, if >10, 0 otherwise	1, if 700-999g, 0 otherwise		1, if >160g 0 otherwise	1, if 6-8g, 0 otherwise
Width				1 if, >3.75 cm., 0 otherwise	
Length					
Length			1 if, >30 cm., 0 otherwise		1 if, >16 cm., 0 otherwise
Color					
Light			1, if 33-43, 0 otherwise		
Hue					
Chroma					1, if >25.31, 0 otherwise
Freshness				0-100	
Firmness1					1, if 1.7-2.2, 0 otherwise
Firmness2					1, if >2, 0 otherwise
NR	1, if non residue product, 0 otherwise		1, if non residue product, 0 otherwise	1, if non residue product, 0 otherwise	1, if non residue product, 0 otherwise
RP	1, if RP product, 0 otherwise	1, if RP product, 0 otherwise	1, if RP product, 0 otherwise	1, if RP product, 0 otherwise	1, if RP product, 0 otherwise
Imported	1, if imported product, 0 otherwise		1, if imported product, 0 otherwise	1, if imported product, 0 otherwise	1, if imported product, 0 otherwise
Time	1, if rainy season, 0, if summer season	1, if rainy season, 0, if summer season	1, if rainy season, 0, if summer season	1, if rainy season, 0, if summer season	1, if rainy season, 0, if summer season
D1	1, if big supper market, 0 otherwise	1, if big supper market, 0 otherwise	1, if big supper market, 0 otherwise		1, if big supper market, 0 otherwise
D2				1, if Bangkok, 0 otherwise	1, if Bangkok, 0 otherwise
D3	1, if supper market, 0 otherwise		1, if supper market, 0 otherwise		

Appendix 2

Descriptive statistic analysis of Head Lettuce

	PRICE	WEIGHT1	WEIGHT2	NUM	NR	RP	SEASON	IMPORT	FBA	SUPPER
Mean	73.59	0.13	0.07	0.76	0.50	0.23	0.34	0.03	0.21	0.89
Median	72.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
Maximum	189.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Minimum	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	44.41	0.34	0.25	0.43	0.50	0.42	0.47	0.18	0.41	0.31
Skewness	0.81	2.14	3.46	-1.25	-0.02	1.30	0.69	5.18	1.42	-2.51
Kurtosis	2.86	5.59	12.95	2.56	1.00	2.70	1.48	27.78	3.03	7.28
Jarque-Bera	13.05	124.43	727.55	31.86	19.83	34.1	20.98	3577.06	40.18	215.16
Probability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Descriptive statistic analysis of Cos Lettuce

	PRICE	WEIGHT1	WEIGHT2	SHAPE	DAMAGE	NUM	NR	RP	SEASON	IMPORT	FBA	BKK
Mean	100.91	0.19	0.08	0.71	0.40	0.26	0.73	0.44	0.60	0.06	0.38	0.48
Median	86.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00
Maximum	179.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Minimum	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	37.97	0.40	0.27	0.45	0.49	0.44	0.45	0.50	0.49	0.25	0.49	0.50
Skewness	0.41	1.54	3.15	-0.95	0.40	1.10	-1.02	0.24	-0.40	3.53	0.51	0.08
Kurtosis	2.53	3.38	10.92	1.90	1.16	2.20	2.04	1.06	1.16	13.47	1.26	1.01
Jarque-Bera	2.88	30.93	328.42	15.43	12.91	17.46	16.31	12.84	12.91	511.69	13.05	12.83
Probability	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Observations	77.00	77.00	77.00	77.00	77.00	77.00	77.00	77.00	77.00	77.00	77.00	77.00

Descriptive statistic analysis of Celery

	PRICE	FBA	BKK	SUPER	DAMAGED	IMPORT	LENGTH1	LENGTH2	RP	SEASON
Mean	77.13	0.28	0.36	0.89	8.89	0.08	0.08	0.89	0.38	0.62
Median	88.00	0.00	0.00	1.00	2.00	0.00	0.00	1.00	0.00	1.00
Maximum	127.00	1.00	1.00	1.00	80.00	1.00	1.00	1.00	1.00	1.00
Minimum	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	29.01	0.45	0.48	0.32	15.64	0.28	0.28	0.32	0.49	0.49
Skewness	-0.21	0.99	0.58	-2.42	3.00	3.05	3.05	-2.42	0.51	-0.51
Kurtosis	2.33	1.97	1.34	6.84	12.29	10.29	10.29	6.84	1.26	1.26
Jarque-Bera	1.59	12.58	10.46	96.97	310.47	229.49	229.49	96.97	10.34	10.34
Probability	0.45	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Observations	61	61	61	61	61	61	61	61	61	61

Descriptive statistic analysis of Carrot

	PRICE	WEIGHT1	WEIGHT2	WEINTH3	LENGTH1	LENGTH2	LENGTH3	SHAPE	DAMAGE	RP	SEASON	FBA	BKK	SUPER
Mean	44.68	0.26	0.27	0.34	0.32	0.28	0.19	0.64	2.82	0.18	0.53	0.18	0.28	0.91
Median	40.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00
Maximum	85.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	30.00	1.00	1.00	1.00	1.00	1.00
Minimum	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	18.77	0.44	0.45	0.48	0.47	0.45	0.39	0.48	5.56	0.38	0.50	0.39	0.45	0.29
Skewness	0.70	1.12	1.02	0.65	0.76	0.96	1.59	-0.60	3.22	1.69	-0.13	1.64	0.96	-2.77
Kurtosis	2.73	2.26	2.05	1.43	1.58	1.92	3.53	1.36	14.53	3.84	1.02	3.68	1.92	8.69
Jarque-Bera	15.04	41.84	38.23	31.38	32.51	36.41	77.89	30.99	1308.63	90.54	30.00	83.83	36.41	473.81
Probability	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Observation	180	180	180	180	180	180	180	180	180	180	180	180	180	180

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Descriptive statistic analysis of Baby Carrot

	PRICE	L1	L2	RP	SEASON	BKK	IMPORT
Mean	105.50	0.33	0.33	0.42	0.63	0.40	0.20
Median	79.50	0.00	0.00	0.00	1.00	0.00	0.00
Maximum	190.00	1.00	1.00	1.00	1.00	1.00	1.00
Minimum	50.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	48.45	0.47	0.47	0.50	0.49	0.49	0.40
Skewness	0.78	0.74	0.74	0.33	-0.53	0.43	1.52
Kurtosis	2.17	1.55	1.55	1.11	1.28	1.18	3.31
Jarque-Bera	11.24	15.43	15.43	14.38	14.61	14.45	33.37
Probability	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Observations	86	86	86	86	86	86	86

Descriptive statistic analysis of Red Cabbage

	PRICE	WEIGHT1	WEIGHT2	DAMAGE	NR	SEASON	IMPORT	FBA	BKK	SUPER
Mean	61.92	0.37	0.35	6.94	0.37	5.25	0.04	0.21	0.40	0.85
Median	50.00	0.00	0.00	2.00	0.00	5.50	0.00	0.00	0.00	1.00
Maximum	195.00	1.00	1.00	100.00	1.00	9.00	1.00	1.00	1.00	1.00
Minimum	15.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Std. Dev.	37.73	0.49	0.48	16.35	0.49	2.91	0.19	0.41	0.50	0.36
Skewness	1.62	0.56	0.65	4.19	0.56	-0.19	4.80	1.41	0.39	-1.92
Kurtosis	6.64	1.31	1.42	22.30	1.31	1.63	24.04	3.00	1.15	4.68
Jarque-Bera	51.48	8.88	9.05	959.09	8.88	4.39	1158.82	17.29	8.72	38.04
Probability	0.00	0.01	0.01	0.00	0.01	0.11	0.00	0.00	0.01	0.00
Observations	52	52	52	52	52	52	52	52	52	52

Descriptive statistic analysis Michilli

	PRICE	WU	FRESH	LENGTH	DAMAGE	NUM	NR	RP	SEASON	FBA	BKK	SUPER
Mean	33.54	0.55	81.07	0.77	0.17	0.38	0.55	0.32	0.62	0.17	0.25	0.92
Median	26.00	1.00	80.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Maximum	101.00	1.00	100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Minimum	10.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	20.20	0.50	9.18	0.43	0.38	0.49	0.50	0.47	0.49	0.38	0.44	0.28
Skewness	1.73	-0.20	-0.09	-1.26	1.79	0.48	-0.20	0.79	-0.48	1.79	1.15	-3.02
Kurtosis	5.28	1.04	3.07	2.59	4.20	1.23	1.04	1.62	1.23	4.20	2.33	10.09
Jarque-Bera	43.00	10.00	0.08	16.32	35.60	10.13	10.00	10.97	10.13	35.60	14.44	216.61
Probability	0.00	0.01	0.96	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00
Observations	60	60	60	60	60	60	60	60	60	60	60	60

Descriptive statistic analysis of Chinese Cabbage

	PRICE	WEIGHT	LENGTH	DAMAGED	NR	RP	T2	FBA	BKK	SUPER
Mean	30.37	0.32	0.55	5.80	0.59	0.28	0.29	0.18	0.39	0.95
Median	25.00	0.00	1.00	3.00	1.00	0.00	0.00	0.00	0.00	1.00
Maximum	65.00	1.00	1.00	60.00	1.00	1.00	1.00	1.00	1.00	1.00
Minimum	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	15.11	0.47	0.50	10.09	0.50	0.45	0.46	0.39	0.49	0.22
Skewness	0.73	0.79	-0.20	3.48	-0.35	0.98	0.91	1.64	0.45	-4.19
Kurtosis	2.59	1.62	1.04	15.79	1.12	1.96	1.83	3.69	1.20	18.55
Jarque-Bera	7.91	14.97	13.67	724.27	13.72	16.78	16.02	38.40	13.81	1066.16
Probability	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Observations	82	82	82	82	82	82	82	82	82	82

Descriptive statistic analysis of Sweet Pepper

	PRICE	WEIGHT1	WEIGHT2	SHAPE	RP	SEASON	BKK
Mean	70.29	0.09	0.43	0.85	0.25	0.43	0.39
Median	62.00	0.00	0.00	1.00	0.00	0.00	0.00
Maximum	120.00	1.00	1.00	1.00	1.00	1.00	1.00
Minimum	27.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	31.89	0.29	0.50	0.36	0.44	0.50	0.49
Skewness	0.26	2.81	0.30	-1.98	1.15	0.30	0.46
Kurtosis	1.59	8.90	1.09	4.92	2.33	1.09	1.21
Jarque-Bera	10.18	298.99	18.04	87.29	26.00	18.04	18.19
Probability	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Observations	108	108	108	108	108	108	108

Descriptive statistic analysis of Common Tomato

	PRICE	WEIGHT1	WEIGHT2	SHAPE	NR	RP	SEASON	IMPORT	FBA	BKK	SUPER
Mean	55.11	0.15	0.07	0.57	0.43	0.25	0.32	0.05	0.21	0.32	0.93
Median	45.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Maximum	430.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Minimum	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	56.02	0.35	0.26	0.50	0.50	0.44	0.47	0.21	0.41	0.47	0.26
Skewness	4.06	2.00	3.37	-0.27	0.27	1.15	0.79	4.29	1.42	0.79	-3.37
Kurtosis	25.26	5.01	12.33	1.07	1.07	2.31	1.63	19.42	3.02	1.63	12.33
Jarque-Bera	3997.87	143.14	942.40	28.54	28.54	40.78	31.31	2447.06	57.48	31.31	942.40
Probability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Observations	171	171	171	171	171	171	171	171	171	171	171



Descriptive statistic analysis of Cherry Tomato

	PRICE	NR	RP	SEASON	IMPORT	FBA	BKK	SUPER
Mean	64.66	0.43	0.23	0.74	0.08	0.14	0.31	0.88
Median	50.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Maximum	430.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Minimum	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	70.83	0.50	0.42	0.44	0.27	0.35	0.46	0.33
Skewness	4.63	0.28	1.30	-1.08	3.08	2.06	0.83	-2.33
Kurtosis	24.10	1.08	2.68	2.18	10.50	5.26	1.69	6.42
Jarque-Bera	3295.16	24.87	42.31	33.41	585.64	137.46	27.75	206.89
Probability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Observations	149	149	149	149	149	149	149	149

Descriptive statistic analysis of Japanese Pumpkin

	PRICE	WEIGHT1	WEIGHT2	RP	SEASON	FBA	BKK
Mean	43.33	0.48	0.24	0.43	0.48	0.43	0.67
Median	43.00	0.00	0.00	0.00	0.00	0.00	1.00
Maximum	65.00	1.00	1.00	1.00	1.00	1.00	1.00
Minimum	15.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	17.04	0.51	0.44	0.51	0.51	0.51	0.48
Skewness	0.04	0.10	1.23	0.29	0.10	0.29	-0.71
Kurtosis	1.48	1.01	2.51	1.08	1.01	1.08	1.50
Jarque-Bera	2.01	3.50	5.50	3.51	3.50	3.51	3.72
Probability	0	0	0	0	0	0	0
Observations	21	21	21	21	21	21	21

Descriptive statistic analysis of Japanese Cucumber

	PRICE	LIGHT1	LIGHT2	LENGTH	NR	SEASON	FBA	BKK
Mean	50.84	0.24	0.62	0.42	0.67	0.55	0.28	0.49
Median	36.50	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Maximum	105.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Minimum	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	32.57	0.43	0.49	0.50	0.47	0.50	0.45	0.50
Skewness	0.38	1.24	-0.49	0.32	-0.73	-0.21	1.00	0.05
Kurtosis	1.53	2.53	1.24	1.10	1.53	1.04	2.00	1.00
Jarque-Bera	8.67	20.10	12.85	12.70	13.56	12.67	15.84	12.67
Probability	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Observations	76	76	76	76	76	76	76	76

Descriptive statistic analysis of Zucchini

	PRICE	WEIGHT1	WEIGHT2	FRESHNESS	WIDTH	SEASON	IMPORT	BKK
Mean	80.28	0.36	0.36	82.30	0.52	0.72	0.11	0.43
Median	56.00	0.00	0.00	80.00	1.00	1.00	0.00	0.00
Maximum	180.00	1.00	1.00	100.00	1.00	1.00	1.00	1.00
Minimum	22.00	0.00	0.00	45.00	0.00	0.00	0.00	0.00
Std. Dev.	61.05	0.48	0.48	10.53	0.50	0.45	0.32	0.50
Skewness	0.59	0.58	0.58	-1.38	-0.10	-0.99	2.42	0.30
Kurtosis	1.62	1.34	1.34	5.67	1.01	1.97	6.84	1.09
Jarque-Bera	8.32	10.46	10.46	37.41	10.17	12.58	96.97	10.19
Probability	0.02	0.01	0.01	0.00	0.01	0.00	0.00	0.01
Observations	61	61	61	61	61	61	61	61

Descriptive statistic analysis of Snap Bean

	PRICE	WEIGHT1	WEIGHT2	LENGTH	CHROMA	HUE	FIRMI	FIRM2	RP	SEASON	FBA	BKK	SUPER
Mean	46.59	0.28	0.16	0.51	0.63	0.59	0.34	0.38	0.37	0.43	0.24	0.49	0.92
Median	39.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Maximum	87.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Minimum	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Dev.	22.52	0.45	0.36	0.50	0.48	0.49	0.48	0.49	0.48	0.50	0.43	0.50	0.27
Skewness	0.23	0.97	1.89	-0.03	-0.53	-0.36	0.67	0.50	0.55	0.27	1.20	0.05	-3.07
Kurtosis	1.59	1.95	4.57	1.00	1.28	1.13	1.45	1.25	1.30	1.07	2.43	1.00	10.42
Jarque-Bera	17.07	37.77	128.81	30.83	31.42	30.97	32.41	31.32	31.54	30.88	46.65	30.83	715.07
Probability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Observations	185	185	185	185	185	185	185	185	185	185	185	185	185

### Appendix 3

#### T-test of Chiang Mai and Bangkok total cost per kg. in summer and rainy season

##### Head Lettuce

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	130.50	201.34	BKK - CM	83.92	171.95	0.98	3.00	0.40	Summer
CM	46.58	32.94							
BKK	75.75	14.25	BKK - CM	18.73	13.44	2.79	3.00	0.07	Rainy
CM	57.02	14.45							

##### Cos Lettuce

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	49.56	27.10	BKK - CM	9.56	12.80	1.49	3.00	0.23	Summer
CM	40.00	19.81							
BKK	83.92	25.76	BKK - CM	29.28	23.93	2.45	3.00	0.09	Rainy
CM	54.64	9.44							

##### Celery

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	40.25	15.77	BKK - CM	-4.18	9.12	-0.92	3.00	0.43	Summer
CM	44.43	12.79							
BKK	47.48	3.78	BKK - CM	-18.01	10.81	-3.33	3.00	0.04	Rainy
CM	65.49	7.61							

Carrot

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	21.71	2.38	BKK - CM	0.42	1.43	0.58	3.00	0.60	Summer
CM	21.30	1.89							
BKK	28.19	4.82	BKK - CM	0.97	4.68	0.41	3.00	0.71	Rainy
CM	27.22	2.63							

Baby carrot

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	35.49	3.85	BKK - CM	1.39	4.09	0.68	3.00	0.55	Summer
CM	34.11	7.61							
BKK	55.77	9.02	BKK - CM	3.40	5.77	1.18	3.00	0.32	Rainy
CM	52.36	5.57							

Red Cabbage

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	15.04	4.03	BKK - CM	1.30	1.50	1.73	3.00	0.18	Summer
CM	13.75	5.13							
BKK	35.82	9.65	BKK - CM	-2.75	2.29	-2.40	3.00	0.10	Rainy
CM	38.57	9.38							

Michilli

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	25.85	10.91	BKK - CM	1.75	4.00	0.87	3.00	0.45	Summer
CM	24.10	7.71							
BKK	28.72	7.49	BKK - CM	5.35	5.27	2.03	3.00	0.14	Rainy
CM	23.37	5.82							

Chinese cabbage

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	20.75	5.19	BKK - CM	0.68	2.47	0.55	3.00	0.62	Summer
CM	20.07	2.92							
BKK	22.22	4.49	BKK - CM	3.62	1.35	5.36	3.00	0.01	Rainy
CM	18.61	3.18							

Sweet Pepper

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	43.83	1.11	BKK - CM	2.80	4.51	1.24	3.00	0.30	Summer
CM	41.03	4.07							
BKK	40.07	3.33	BKK - CM	0.94	1.62	1.2	3	0.33	Rainy
CM	39.13	4.70							

Common tomato

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	31.92	3.61	BKK - CM	-0.44	0.47	-1.87	3.00	0.16	Summer
CM	32.36	3.58							
BKK	40.99	9.45	BKK - CM	7.72	7.03	2.20	3.00	0.12	Rainy
CM	33.27	3.96							

Cherry Tomato

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	40.25	15.77	BKK - CM	-4.18	9.12	-0.92	3.00	0.43	Summer
CM	44.43	12.79							
BKK	40.89	3.78	BKK - CM	3.33	3.84	1.74	3.00	0.18	Rainy
CM	37.55	7.61							

Japanese pumpkin

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	19.15	3.02	BKK - CM	1.87	2.60	1.44	3.00	0.24	Summer
CM	17.28	1.81							
BKK	27.77	11.63	BKK - CM	11.77	9.80	2.40	3.00	0.10	Rainy
CM	16.00	2.10							

Cucumber

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	26.45	14.10	BKK - CM	4.33	7.32	1.18	3.00	0.32	Summer
CM	22.13	9.68							
BKK	21.72	8.74	BKK - CM	3.95	2.60	3.04	3.00	0.06	Rainy
CM	17.77	6.18							

Zucchini

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	25.77	4.96	BKK - CM	0.95	2.34	0.81	3.00	0.48	Summer
CM	24.82	5.68							
BKK	34.84	11.74	BKK - CM	10.44	13.31	1.57	3.00	0.21	Rainy
CM	24.40	4.35							

Snap bean

	Paired Samples Statistics		Paired Differences						
	Mean	Std. Deviation		Mean	Std. Deviation	t	df	Sig. (2tailed)	
BKK	23.24	3.88	BKK - CM	1.52	2.23	1.36	3.00	0.27	Summer
CM	21.72	5.59							
BKK	21.61	2.89	BKK - CM	2.76	0.54	10.27	3.00	0.00	Rainy
CM	18.85	2.40							



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## CURRICULUM VITAE

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