

Lampiran 2. Perhitungan Kadar Lemak *Reduced-Fat Ice Cream* (RFIC)

Bahan	g	% lemak/g	% Lemak
Minyak goreng	10	1	10
Skim	11.5	0.0414	0.4761
Gula	10	0	0
<i>Corn-syrup Solid</i>	6	0	0
<i>Fat Replacers</i>	0	0	0
Emulsifier	2	0.2	0.4
Flavor & Pewarna	0.5	0	0
Air	60	0	0
Total % Lemak dalam es krim Kontrol 12 %			10.8761

Bahan	g	% lemak/g	% Lemak
Minyak goreng	4	1	4
Skim	11.5	0.0414	0.4761
Gula	10	0	0
<i>Corn-syrup Solid</i>	6	0	0
<i>Fat Replacers</i>	0	0	0
Emulsifier	2	0.2	0.4
Flavor & Pewarna	0.5	0	0
Air	60	0	0
Total % Lemak dalam es krim Kontrol 6 %			4.8761

Bahan	g	% lemak/g	% Lemak
Minyak goreng	4	1	4
Skim	11.5	0.0414	0.4761
Gula	10	0	0
<i>Corn-syrup Solid</i>	6	0	0
<i>Fat Replacers</i>	2	0.0427	0.0854
Emulsifier	2	0.2	0.4
Flavor & Pewarna	0.5	0	0
Air	60	0	0
Total % Lemak dalam RFIC + Tepung Ketan			4.9615

Bahan	g	% lemak/g	% Lemak
Minyak goreng	4	1	4
Skim	11.5	0.0414	0.4761
Gula	10	0	0
<i>Corn-syrup Solid</i>	6	0	0
<i>Fat Replacers</i>	2	0.0308	0.0616
Emulsifier	2	0.2	0.4
Flavor & Pewarna	0.5	0	0
Air	60	0	0
Total % Lemak dalam RFIC + Tepung Tapioka			4.9377

Bahan	g	% lemak/g	% Lemak
Minyak goreng	4	1	4
Skim	11.5	0.0414	0.4761
Gula	10	0	0
<i>Corn-syrup Solid</i>	6	0	0
<i>Fat Replacers</i>	2	0.0307	0.0614
Emulsifier	2	0.2	0.4
Flavor & Pewarna	0.5	0	0
Air	60	0	0
Total % Lemak dalam RFIC + Tepung Maizena			4.9375

Bahan	g	% lemak/g	% Lemak
Minyak goreng	4	1	4
Skim	11.5	0.0414	0.4761
Gula	10	0	0
<i>Corn-syrup Solid</i>	6	0	0
<i>Fat Replacers</i>	2	0.0374	0.0748
Emulsifier	2	0.2	0.4
Flavor & Pewarna	0.5	0	0
Air	60	0	0
Total % Lemak dalam RFIC + Tepung Hunkwee			4.9509

Lampiran 3. *Output Olah Data Persentase Overrun Reduced-Fat Ice Cream*

Explore PERLAKUA

Case Processing Summary

PERLAKUA	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
OVERRUN 12%	9	100.0%	0	.0%	9	100.0%
6%	9	100.0%	0	.0%	9	100.0%
Ketan	9	100.0%	0	.0%	9	100.0%
Tapioka	9	100.0%	0	.0%	9	100.0%
Maizena	9	100.0%	0	.0%	9	100.0%
Hunkwee	9	100.0%	0	.0%	9	100.0%

Tests of Normality

PERLAKUA	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
OVERRUN 12%	.152	9	.200*	.934	9	.494
6%	.164	9	.200*	.946	9	.617
Ketan	.176	9	.200*	.910	9	.371
Tapioka	.181	9	.200*	.927	9	.456
Maizena	.171	9	.200*	.922	9	.433
Hunkwee	.193	9	.200*	.960	9	.765

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

OVERRUN		Levene	df1	df2	Sig.
		Statistic			
	Based on Mean	4.798	5	48	.001
	Based on Median	3.160	5	48	.015
	Based on Median and with adjusted df	3.160	5	29.986	.021
	Based on trimmed mean	4.752	5	48	.001

PERLAKUA = 12% Stem-and-Leaf Plots

OVERRUN Stem-and-Leaf Plot for PERLAKUA= 12%

```

Frequency      Stem & Leaf
  1.00         9 . 8
  3.00        10 . 568
  2.00        11 . 14
  3.00        12 . 188
    
```

Stem width: 10.00
Each leaf: 1 case(s)

PERLAKUA = 6% Stem-and-Leaf Plots

OVERRUN Stem-and-Leaf Plot for PERLAKUA= 6%

```

Frequency      Stem & Leaf
  2.00         6 . 14
  2.00         6 . 67
  3.00         7 . 134
  2.00         7 . 57
    
```

Stem width: 10.00
Each leaf: 1 case(s)

PERLAKUA = Ketan Stem-and-Leaf Plots

OVERRUN Stem-and-Leaf Plot for
PERLAKUA= Ketan

```

Frequency      Stem & Leaf

    1.00 Extremes      (= <105)
    3.00      11 . 578
    4.00      12 . 0112
    1.00 Extremes      (>=129)
  
```

Stem width: 10.00
Each leaf: 1 case(s)

PERLAKUA = Tapioka Stem-and-Leaf Plots

OVERRUN Stem-and-Leaf Plot for
PERLAKUA= Tapioka

```

Frequency      Stem & Leaf

    1.00      10 . 3
    2.00      10 . 66
    1.00      11 . 4
    2.00      11 . 78
    1.00      12 . 4
    2.00      12 . 67
  
```

Stem width: 10.00
Each leaf: 1 case(s)

PERLAKUA = Maizena Stem-and-Leaf Plots

OVERRUN Stem-and-Leaf Plot for
PERLAKUA= Maizena

```

Frequency      Stem & Leaf

    1.00      7 . 7
    3.00      8 . 448
    2.00      9 . 15
    1.00     10 . 8
    2.00     11 . 15
  
```

Stem width: 10.00
Each leaf: 1 case(s)

PERLAKUA = Hunkwee Stem-and-Leaf Plots

OVERRUN Stem-and-Leaf Plot for
PERLAKUA= Hunkwee

```

Frequency      Stem & Leaf

    5.00      7 . 56799
    4.00      8 . 0013
  
```

Stem width: 10.00
Each leaf: 1 case(s)

Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
OVERRUN * PERLAKUA	54	100.0%	0	.0%	54	100.0%

Report

OVERRUN				
PERLAKUA	Mean	N	Std. Deviation	Range
12%	113.6711	9	10.3200	29.75
6%	70.0978	9	5.5584	15.85
Ketan	119.0100	9	6.4635	23.79
Tapioka	116.1478	9	9.0463	24.52
Maizena	95.2633	9	13.4150	37.97
Hunkwee	79.2578	9	2.4327	7.45
Total	98.9080	54	20.7925	67.69

Oneway

Descriptives

OVERRUN

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
12%	9	113.6711	10.3200	3.4400	105.7385	121.6038	98.54	128.29
6%	9	70.0978	5.5584	1.8528	65.8252	74.3703	61.29	77.14
Ketan	9	119.0100	6.4635	2.1545	114.0418	123.9782	105.19	128.98
Tapioka	9	116.1478	9.0463	3.0154	109.1942	123.1013	103.16	127.68
Maizena	9	95.2633	13.4150	4.4717	84.9516	105.5751	77.70	115.67
Hunkwee	9	79.2578	2.4327	.8109	77.3879	81.1277	75.68	83.13
Total	54	98.9080	20.7925	2.8295	93.2327	104.5832	61.29	128.98

Test of Homogeneity of Variances

OVERRUN

Levene Statistic	df1	df2	Sig.
4.798	5	48	.001

ANOVA

OVERRUN

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	19338.242	5	3867.648	51.928	.000
Within Groups	3575.121	48	74.482		
Total	22913.362	53			

Post Hoc Tests

Homogeneous Subsets

OVERRUN

Duncan^a

PERLAKUA	N	Subset for alpha = .05			
		1	2	3	4
6%	9	70.0978			
Hunkwee	9		79.2578		
Maizena	9			95.2633	
12%	9				113.6711
Tapioka	9				116.1478
Ketan	9				119.0100
Sig.		1.000	1.000	1.000	.222

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Lampiran 4. Output Olah Data Nilai Viskositas *Reduced-Fat Ice Cream* Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
VISKO * PERLAKUA	54	100.0%	0	.0%	54	100.0%

Report

VISKO

PERLAKUA	Mean	N	Std. Deviation
12%	26.0000	9	2.9155
6%	6.4778	9	.4381
Ketan	62.4444	9	2.6034
Tapioka	32.6667	9	2.0000
Maizena	16.3333	9	1.5000
Hunkwee	12.4444	9	1.6667
Total	26.0611	54	18.6701

Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
AFTER * PERLAKUA	54	100.0%	0	.0%	54	100.0%

Report

AFTER

PERLAKUA	Mean	N	Std. Deviation
12%	17.7778	9	1.1756
6%	2.5222	9	1.3507
Ketan	40.8889	9	5.3664
Tapioka	25.5556	9	1.1304
Maizena	7.6111	9	1.0541
Hunkwee	4.3333	9	1.1990
Total	16.4481	54	13.8689

Oneway

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
BEFORE	4.106	5	48	.003
AFTER	2.237	5	48	.066

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
BEFORE	Between Groups	18278.408	5	3655.682	895.360	.000
	Within Groups	195.980	48	4.083		
	Total	18474.388	53			
AFTER	Between Groups	9907.704	5	1981.541	331.811	.000
	Within Groups	286.651	48	5.972		
	Total	10194.355	53			

Post Hoc Tests Homogeneous Subsets

BEFORE

Duncan^a

PERLAKUA	N	Subset for alpha = .05					
		1	2	3	4	5	6
6%	9	6.4778					
Hunkwee	9		12.4444				
Maizena	9			16.3333			
12%	9				26.0000		
Tapioka	9					32.6667	
Ketan	9						62.4444
Sig.		1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

AFTER

Duncan^a

PERLAKUA	N	Subset for alpha = .05				
		1	2	3	4	5
6%	9	2.5222				
Hunkwee	9	4.3333				
Maizena	9		7.6111			
12%	9			17.7778		
Tapioka	9				25.5556	
Ketan	9					40.8889
Sig.		.122	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Lampiran 5. Output Olah Data Melting Rate Reduced-Fat Ice Cream

Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
MELT * PERLAKUA * MENIT	108	100.0%	0	.0%	108	100.0%

Report

MELT

PERLAKUA	MENIT	Mean	Std. Deviation	Range
12 % lemak	5 menit-1	8.67E-03	5.7735E-04	.001
	5 menit-2	1.09E-02	9.8658E-04	.002
	5 menit-3	8.17E-02	1.5275E-03	.003
	5 menit-4	.24100	1.0000E-03	.002
	5 menit-5	.11600	1.0000E-03	.002
	5 menit-6	.11267	5.7735E-04	.001
	Total		9.51E-02	8.0567E-02
6 % lemak	5 menit-1	.14500	1.2000E-02	.024
	5 menit-2	.44667	3.4239E-02	.068
	5 menit-3	.66667	3.0436E-02	.057
	5 menit-4	.96100	6.9282E-03	.012
	5 menit-5	1.64367	5.4857E-02	.096
	5 menit-6	2.20533	2.1197E-02	.042
	Total		1.01139	.73003
ketan	5 menit-1	.00000	.00000	.000
	5 menit-2	1.67E-03	2.8868E-03	.005
	5 menit-3	3.60E-02	8.0000E-03	.016
	5 menit-4	9.20E-02	3.6056E-03	.007
	5 menit-5	.17233	5.8595E-03	.011
	5 menit-6	.23533	2.0599E-02	.039
	Total		8.96E-02	9.1154E-02
tapioka	5 menit-1	.00000	.00000	.000
	5 menit-2	1.90E-02	7.0000E-03	.013
	5 menit-3	5.10E-02	5.2915E-03	.010
	5 menit-4	.14433	2.4028E-02	.048
	5 menit-5	.22900	4.0000E-03	.008
	5 menit-6	.17567	1.0214E-02	.019
	Total		.10317	8.7867E-02
maizena	5 menit-1	5.97E-02	3.5119E-03	.007
	5 menit-2	8.37E-02	4.0415E-03	.008
	5 menit-3	.23433	2.0033E-02	.040
	5 menit-4	.47367	5.5076E-03	.010
	5 menit-5	.72333	6.6583E-03	.012
	5 menit-6	.91767	2.5166E-03	.005
	Total		.41539	.33083
hunkwee	5 menit-1	2.27E-02	6.4291E-03	.012
	5 menit-2	.21567	2.7392E-02	.054
	5 menit-3	.45367	3.1723E-02	.063
	5 menit-4	.86567	3.1723E-02	.063
	5 menit-5	1.23400	1.1790E-02	.023
	5 menit-6	.90633	1.4742E-02	.028
	Total		.61633	.43440
Total	5 menit-1	3.93E-02	5.3176E-02	.157
	5 menit-2	.12959	.16489	.483
	5 menit-3	.25389	.24154	.661
	5 menit-4	.46294	.35143	.880
	5 menit-5	.68639	.59684	1.592
	5 menit-6	.75883	.74815	2.116
	Total		.38850	.50294

Lampiran 1. Formulir Kuesioner

FORMULIR KUESIONER

Nama :
Umur :
Tanggal pengujian :

Di hadapan Anda telah tersedia 6 sampel es krim, Anda diminta untuk menguji tekstur, *creaminess* dan *sandiness* serta memberikan penilaian terhadap es krim tersebut berdasarkan tingkat kesukaan anda. Terima kasih atas perhatian Anda.

Sampel	Parameter			
	Tekstur	<i>Creaminess</i>	<i>Sandiness</i>	<i>Preference</i>
426				
215				
605				
102				
198				
612				

Keterangan parameter sensoris :

Tekstur : kehalusan dan kelembutan es krim

Creaminess : kuat atau tidaknya rasa es krim berkaitan dengan lemak

Sandiness : rasa berpasir (bertepung) pada es krim

Preference : tingkat kesukaan terhadap es krim

Pemberian skor :

TEKSTUR :

1. Sangat tidak halus / lembut
2. Tidak halus / lembut
3. Halus / lembut
4. Sangat halus / lembut

CREAMINESS :

1. Sangat tidak kental
2. Tidak kental
3. Kental
4. Sangat kental

SANDINESS :

1. Sangat berpasir / bertepung
2. Berpasir / bertepung
3. Tidak berpasir / bertepung
4. Sangat tidak berpasir / bertepung

PREFERENCE OF OVERALL :

1. Sangat tidak suka
2. Tidak suka
3. Suka
4. Sangat suka

Lampiran 6. Output Olah Data Time to Melt Reduced-Fat Ice Cream Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
TTM * PERLAKUA	54	100.0%	0	.0%	54	100.0%

Report

TTM

PERLAKUA	Mean	Std. Deviation
"kontrol 12% lemak"	44.6456	.9314
kontrol 6% lemak	40.0356	1.1440
ketan	52.6344	2.6725
tapioka	49.1667	1.7518
maizena	43.7533	.7179
hunkwee	41.3633	1.0618
Total	45.2665	4.6483

NPar Tests

Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
TTM	"kontrol 12% lemak"	9	30.06
	kontrol 6% lemak	9	6.56
	ketan	9	48.61
	tapioka	9	42.39
	maizena	9	24.83
	hunkwee	9	12.56
	Total	54	

Test Statistics^{a,b}

	TTM
Chi-Square	48.842
df	5
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
TTM "kontrol 12% lemak"	9	14.00
kontrol 6% lemak	9	5.00
Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

NPar Tests Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
TTM "kontrol 12% lemak"	9	5.00
ketan	9	14.00
Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

NPar Tests Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
TTM "kontrol 12% lemak"	9	5.00
tapioka	9	14.00
Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

NPar Tests Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
TTM "kontrol 12% lemak"	9	12.06
maizena	9	6.94
Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	4.129
df	1
Asymp. Sig.	.042

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

NPar Tests Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
TTM "kontrol 12% lemak"	9	14.00
hunkwee	9	5.00
Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	12.803
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
TTM kontrol 6% lemak	9	5.00
ketan	9	14.00
Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	12.789
df	1
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
TTM kontrol 6% lemak	9	5.00
tapioka	9	14.00
Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	12.789
df	1
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
TTM kontrol 6% lemak	9	5.00
maizena	9	14.00
Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	12.789
df	1
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
TTM kontrol 6% lemak	9	6.56
hunkwee	9	12.44
Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	5.481
df	1
Asymp. Sig.	.019

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
TTM ketan	9	12.61
tapioka	9	6.39
Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	6.119
df	1
Asymp. Sig.	.013

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
TTM ketan	9	14.00
hunkwee	9	5.00
Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	12.803
df	1
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
TTM	ketan	9	14.00
	maizena	9	5.00
	Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	12.789
df	1
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
TTM	tapioka	9	14.00
	maizena	9	5.00
	Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	12.789
df	1
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
TTM	tapioka	9	14.00
	hunkwee	9	5.00
	Total	18	

Test Statistics^{a,b}

	TTM
Chi-Square	12.803
df	1
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
TTM	maizena	9	13.89
	hunkwee	9	5.11
	Total	18	

Lampiran 7. Output Olah Data Kadar Lemak *Reduced-Fat Ice Cream*

Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
LEMAK * PERLAKUA	54	100.0%	0	.0%	54	100.0%

Report

LEMAK

PERLAKUA	Mean	N	Std. Deviation
12%	11.8656	9	.2693
6%	5.4500	9	.3548
ketan	5.6244	9	.2187
tapioka	5.4900	9	.2497
maizena	5.4856	9	.1968
hunkwee	5.7144	9	.2419
Total	6.6050	54	2.3893

NPar Tests Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
LEMAK	12%	9	50.00
	6%	9	18.67
	ketan	9	26.33
	tapioka	9	19.44
	maizena	9	18.83
	hunkwee	9	31.72
	Total	54	

Test Statistics^{a,b}

	LEMAK
Chi-Square	27.047
df	5
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

NPar Tests Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
LEMAK	12%	9	14.00
	6%	9	5.00
	Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	12.803
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

**NPar Tests
Kruskal-Wallis Test**

Ranks

PERLAKUA	N	Mean Rank
LEMAK 12%	9	14.00
ketan	9	5.00
Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	12.803
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
- b. Grouping Variable: PERLAKUA

**NPar Tests
Kruskal-Wallis Test**

Ranks

PERLAKUA	N	Mean Rank
LEMAK 12%	9	14.00
tapioka	9	5.00
Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	12.803
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
- b. Grouping Variable: PERLAKUA

**NPar Tests
Kruskal-Wallis Test**

Ranks

PERLAKUA	N	Mean Rank
LEMAK 12%	9	14.00
maizena	9	5.00
Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	12.829
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
- b. Grouping Variable: PERLAKUA

**NPar Tests
Kruskal-Wallis Test**

Ranks

PERLAKUA	N	Mean Rank
LEMAK 12%	9	14.00
hunkwee	9	5.00
Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	12.816
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
- b. Grouping Variable: PERLAKUA

**NPar Tests
Kruskal-Wallis Test**

Ranks

PERLAKUA	N	Mean Rank
LEMAK 6%	9	8.00
ketan	9	11.00
Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	1.424
df	1
Asymp. Sig.	.233

- a. Kruskal Wallis Test
- b. Grouping Variable: PERLAKUA

**NPar Tests
Kruskal-Wallis Test**

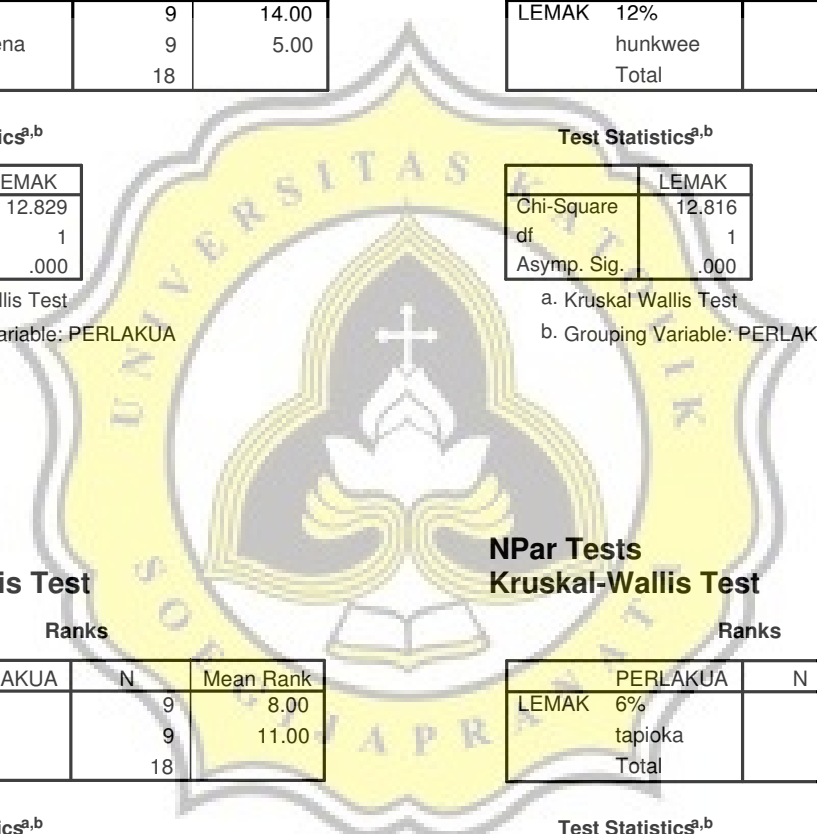
Ranks

PERLAKUA	N	Mean Rank
LEMAK 6%	9	9.00
tapioka	9	10.00
Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	.158
df	1
Asymp. Sig.	.691

- a. Kruskal Wallis Test
- b. Grouping Variable: PERLAKUA



NPar Tests Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
LEMAK	6%	9	8.78
	maizena	9	10.22
	Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	.330
df	1
Asymp. Sig.	.566

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

NPar Tests Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
LEMAK	6%	9	7.89
	hunkwee	9	11.11
	Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	1.641
df	1
Asymp. Sig.	.200

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

NPar Tests Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
LEMAK	ketan	9	10.89
	tapioka	9	8.11
	Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	1.218
df	1
Asymp. Sig.	.270

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

NPar Tests Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
LEMAK	ketan	9	10.78
	maizena	9	8.22
	Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	1.033
df	1
Asymp. Sig.	.309

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

NPar Tests Kruskal-Wallis Test

Ranks

	PERLAKUA	N	Mean Rank
LEMAK	ketan	9	8.67
	hunkwee	9	10.33
	Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	.439
df	1
Asymp. Sig.	.508

- a. Kruskal Wallis Test
b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
LEMAK tapioka	9	9.83
maizena	9	9.17
Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	.070
df	1
Asymp. Sig.	.791

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

PERLAKUA	N	Mean Rank
LEMAK tapioka	9	6.50
hunkwee	9	12.50
Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	5.714
df	1
Asymp. Sig.	.017

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA

NPar Tests
Kruskal-Wallis Test

Ranks

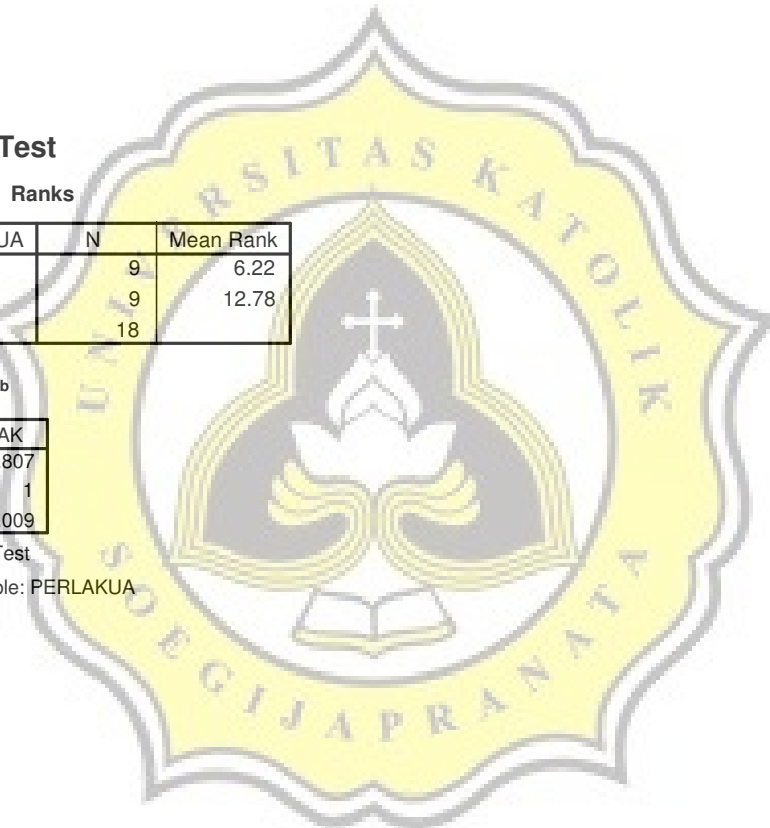
PERLAKUA	N	Mean Rank
LEMAK maizena	9	6.22
hunkwee	9	12.78
Total	18	

Test Statistics^{a,b}

	LEMAK
Chi-Square	6.807
df	1
Asymp. Sig.	.009

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA



Lampiran 8. Output Olah Data Persentase Total Solids Reduced-Fat Ice Cream

Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
TS * TREATMEN	54	100.0%	0	.0%	54	100.0%

Report

TS

TREATMEN	Mean	Std. Deviation
12%	42.1844	2.7109
6%	34.1667	.3169
ketan	37.3789	.4502
tapioka	37.2578	.7100
maizena	37.0011	.9821
hunkwee	37.0867	.9242
Total	37.5126	2.6837

NPar Tests

Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS 12%	9	50.00
6%	9	5.00
ketan	9	28.83
tapioka	9	26.11
maizena	9	27.28
hunkwee	9	27.78
Total	54	

Test Statistics^{a,b}

	TS
Chi-Square	36.965
df	5
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS 12%	9	14.00
6%	9	5.00
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS 12%	9	14.00
ketan	9	5.00
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS 12%	9	14.00
tapioka	9	5.00
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS 12%	9	14.00
maizena	9	5.00
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS 12%	9	14.00
hunkwee	9	5.00
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS 6%	9	5.00
ketan	9	14.00
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS 6%	9	5.00
tapioka	9	14.00
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS 6%	9	5.00
maizena	9	14.00
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS 6%	9	5.00
hunkwee	9	14.00
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	12.789
df	1
Asymp. Sig.	.000

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS ketan	9	10.78
tapioka	9	8.22
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	1.031
df	1
Asymp. Sig.	.310

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS ketan	9	9.67
maizena	9	9.33
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	.018
df	1
Asymp. Sig.	.895

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS ketan	9	9.39
hunkwee	9	9.61
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	.008
df	1
Asymp. Sig.	.930

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS tapioka	9	9.50
maizena	9	9.50
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	.000
df	1
Asymp. Sig.	1.000

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS tapioka	9	9.39
hunkwee	9	9.61
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	.008
df	1
Asymp. Sig.	.930

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

NPar Tests Kruskal-Wallis Test

Ranks

TREATMEN	N	Mean Rank
TS maizena	9	9.44
hunkwee	9	9.56
Total	18	

Test Statistics^{a,b}

	TS
Chi-Square	.002
df	1
Asymp. Sig.	.965

- a. Kruskal Wallis Test
b. Grouping Variable: TREATMEN

Lampiran 9. Output Olah Data Korelasi Nonparametrik *Reduced-Fat Ice Cream*

Nonparametric Correlations

			Correlations						
			LEMAK	OVERRUN	BEFORE	AFTER	TS	MR	TTM
Kendall's tau_b	LEMAK	Correlation Coefficient	1.000	.084	.064	.064	.306**	-.001	.001
		Sig. (2-tailed)	.	.370	.501	.501	.001	.988	.988
		N	54	54	54	54	54	54	54
	OVERRUN	Correlation Coefficient	.084	1.000	.660**	.643**	.303**	-.628**	.628**
		Sig. (2-tailed)	.370	.000	.000	.000	.001	.000	.000
		N	54	54	54	54	54	54	54
	BEFORE	Correlation Coefficient	.064	.660**	1.000	.826**	.295**	-.799**	.799**
		Sig. (2-tailed)	.501	.000	.	.000	.002	.000	.000
		N	54	54	54	54	54	54	54
	AFTER	Correlation Coefficient	.064	.643**	.826**	1.000	.281**	-.776**	.776**
		Sig. (2-tailed)	.501	.000	.000	.	.003	.000	.000
		N	54	54	54	54	54	54	54
	TS	Correlation Coefficient	.306**	.303**	.295**	.281**	1.000	-.254**	.254**
		Sig. (2-tailed)	.001	.001	.002	.003	.	.007	.007
		N	54	54	54	54	54	54	54
	MR	Correlation Coefficient	-.001	-.628**	-.799**	-.776**	-.254**	1.000	-1.000**
		Sig. (2-tailed)	.988	.000	.000	.000	.007	.	.000
		N	54	54	54	54	54	54	54
	TTM	Correlation Coefficient	.001	.628**	.799**	.776**	.254**	-1.000**	1.000
		Sig. (2-tailed)	.988	.000	.000	.000	.007	.000	.
		N	54	54	54	54	54	54	54

** . Correlation is significant at the .01 level (2-tailed).

Test Statistics^{a,b}

	TTM
Chi-Square	12.178
df	1
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUA



Lampiran 10. Output Olah Data Uji Sensoris *Reduced-Fat Ice Cream* (RFIC)

Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
PERLAKUA * TEKSTUR	180	100.0%	0	.0%	180	100.0%
PERLAKUA * CREAMY	180	100.0%	0	.0%	180	100.0%
PERLAKUA * SANDYNES	180	100.0%	0	.0%	180	100.0%
PERLAKUA * OVERALL	180	100.0%	0	.0%	180	100.0%

PERLAKUA * TEKSTUR Crosstabulation

			TEKSTUR				Total
			sangat tidak lembut	tidak lembut	lembut	sangat lembut	
PERLAKUA 12%	Count			3	22	5	30
	% within PERLAKUA			10.0%	73.3%	16.7%	100.0%
6%	Count	5	8	15	2	30	
	% within PERLAKUA	16.7%	26.7%	50.0%	6.7%	100.0%	
ketan	Count		3	21	6	30	
	% within PERLAKUA		10.0%	70.0%	20.0%	100.0%	
tapioka	Count	1	5	20	4	30	
	% within PERLAKUA	3.3%	16.7%	66.7%	13.3%	100.0%	
maizena	Count	4	6	18	2	30	
	% within PERLAKUA	13.3%	20.0%	60.0%	6.7%	100.0%	
hunkwee	Count	5	7	17	1	30	
	% within PERLAKUA	16.7%	23.3%	56.7%	3.3%	100.0%	
Total	Count	15	32	113	20	180	
	% within PERLAKUA	8.3%	17.8%	62.8%	11.1%	100.0%	

Skor :

Sangat tidak lembut : 1
 Tidak Lembut : 2
 Lembut : 3
 Sangat Lembut : 4

Rata – rata total skor parameter tekstur (kelembutan) :

Es krim 12 % : $((0 \times 1) + (3 \times 2) + (22 \times 3) + (5 \times 4)) / 30 = 3,07$
 Es krim 6 % : $((5 \times 1) + (8 \times 2) + (15 \times 3) + (2 \times 4)) / 30 = 2,47$
 RFIC + T. Ketan : $((0 \times 1) + (3 \times 2) + (21 \times 3) + (6 \times 4)) / 30 = 3,10$
 RFIC + T. Tapioka : $((1 \times 1) + (5 \times 2) + (20 \times 3) + (4 \times 4)) / 30 = 2,90$
 RFIC + T. Maizena : $((4 \times 1) + (6 \times 2) + (18 \times 3) + (2 \times 4)) / 30 = 2,60$
 RFIC + T. Hunkwee : $((5 \times 1) + (7 \times 2) + (17 \times 3) + (1 \times 4)) / 30 = 2,47$

PERLAKUA * CREAMY Crosstabulation

			CREAMY				Total
			sangat tidak creamy	tidak creamy	creamy	sangat creamy	
PERLAKUA 12%	Count		1	24	5	30	
	% within PERLAKUA		3.3%	80.0%	16.7%	100.0%	
6%	Count	4	10	15	1	30	
	% within PERLAKUA	13.3%	33.3%	50.0%	3.3%	100.0%	
ketan	Count	1	4	22	3	30	
	% within PERLAKUA	3.3%	13.3%	73.3%	10.0%	100.0%	
tapioka	Count	2	4	20	4	30	
	% within PERLAKUA	6.7%	13.3%	66.7%	13.3%	100.0%	
maizena	Count	3	7	17	3	30	
	% within PERLAKUA	10.0%	23.3%	56.7%	10.0%	100.0%	
hunkwee	Count	4	8	17	1	30	
	% within PERLAKUA	13.3%	26.7%	56.7%	3.3%	100.0%	
Total	Count	14	34	115	17	180	
	% within PERLAKUA	7.8%	18.9%	63.9%	9.4%	100.0%	

Skor :

Sangat Tidak Creamy : 1

Tidak Creamy : 2

Creamy : 3

Sangat Creamy : 4

Rata – rata total skor parameter *creaminess* :Es krim 12 % : $((0 \times 1) + (1 \times 2) + (24 \times 3) + (5 \times 4)) / 30 = 3,13$ Es krim 6 % : $((4 \times 1) + (10 \times 2) + (15 \times 3) + (1 \times 4)) / 30 = 2,43$ RFIC + T. Ketan : $((1 \times 1) + (4 \times 2) + (22 \times 3) + (3 \times 4)) / 30 = 2,90$ RFIC + T. Tapioka : $((2 \times 1) + (4 \times 2) + (20 \times 3) + (4 \times 4)) / 30 = 2,87$ RFIC + T. Maizena : $((3 \times 1) + (7 \times 2) + (17 \times 3) + (3 \times 4)) / 30 = 2,67$ RFIC + T. Hunkwee : $((4 \times 1) + (8 \times 2) + (17 \times 3) + (1 \times 4)) / 30 = 2,50$

PERLAKUA * SANDYNES Crosstabulation

			SANDYNES				Total
			sangat berpasir	berpasir	sedikit berpasir	tidak berpasir	
PERLAKUA 12%	Count			1	29	30	
	% within PERLAKUA			3.3%	96.7%	100.0%	
6%	Count		1	1	28	30	
	% within PERLAKUA		3.3%	3.3%	93.3%	100.0%	
ketan	Count		1	2	27	30	
	% within PERLAKUA		3.3%	6.7%	90.0%	100.0%	
tapioka	Count		1	3	26	30	
	% within PERLAKUA		3.3%	10.0%	86.7%	100.0%	
maizena	Count	1	2	4	23	30	
	% within PERLAKUA	3.3%	6.7%	13.3%	76.7%	100.0%	
hunkwee	Count	1	3	6	20	30	
	% within PERLAKUA	3.3%	10.0%	20.0%	66.7%	100.0%	
Total	Count	2	8	17	153	180	
	% within PERLAKUA	1.1%	4.4%	9.4%	85.0%	100.0%	

Skor :

Sangat Berpasir : 1

Berpasir : 2

Sedikit Berpasir : 3

Tidak Berpasir : 4

Rata – rata total skor parameter *sandiness* :

Es krim 12 % : $((0 \times 1) + (0 \times 2) + (1 \times 3) + (29 \times 4)) / 30 = 3,97$
 Es krim 6 % : $((0 \times 1) + (1 \times 2) + (1 \times 3) + (28 \times 4)) / 30 = 3,90$
 RFIC + T. Ketan : $((0 \times 1) + (1 \times 2) + (2 \times 3) + (27 \times 4)) / 30 = 3,87$
 RFIC + T. Tapioka : $((0 \times 1) + (1 \times 2) + (3 \times 3) + (26 \times 4)) / 30 = 3,83$
 RFIC + T. Maizena : $((1 \times 1) + (2 \times 2) + (4 \times 3) + (23 \times 4)) / 30 = 3,63$
 RFIC + T. Hunkwee : $((1 \times 1) + (3 \times 2) + (6 \times 3) + (20 \times 4)) / 30 = 3,50$

PERLAKUA * OVERALL Crosstabulation

			OVERALL				Total
			sangat tidak suka	tidak suka	suka	sangat suka	
PERLAKUA 12%	Count		1	27	2	30	
	% within PERLAKUA		3.3%	90.0%	6.7%	100.0%	
6%	Count	2	12	15	1	30	
	% within PERLAKUA	6.7%	40.0%	50.0%	3.3%	100.0%	
ketan	Count	1	4	24	1	30	
	% within PERLAKUA	3.3%	13.3%	80.0%	3.3%	100.0%	
tapioka	Count	1	2	25	2	30	
	% within PERLAKUA	3.3%	6.7%	83.3%	6.7%	100.0%	
maizena	Count	1	4	23	2	30	
	% within PERLAKUA	3.3%	13.3%	76.7%	6.7%	100.0%	
hunkwee	Count	2	5	22	1	30	
	% within PERLAKUA	6.7%	16.7%	73.3%	3.3%	100.0%	
Total	Count	7	28	136	9	180	
	% within PERLAKUA	3.9%	15.6%	75.6%	5.0%	100.0%	

Skor :

- Sangat Tidak Suka : 1
- Tidak Suka : 2
- Suka : 3
- Sangat Suka : 4

Rata – rata total skor parameter kesukaan terhadap keseluruhan *Reduced-Fat Ice Cream* :

Es krim 12 % : $((0 \times 1) + (1 \times 2) + (27 \times 3) + (2 \times 4)) / 30 = 3,03$
 Es krim 6 % : $((2 \times 1) + (12 \times 2) + (15 \times 3) + (1 \times 4)) / 30 = 2,50$
 RFIC + T. Ketan : $((1 \times 1) + (4 \times 2) + (24 \times 3) + (1 \times 4)) / 30 = 2,83$
 RFIC + T. Tapioka : $((1 \times 1) + (2 \times 2) + (25 \times 3) + (2 \times 4)) / 30 = 2,93$
 RFIC + T. Maizena : $((1 \times 1) + (4 \times 2) + (23 \times 3) + (2 \times 4)) / 30 = 2,87$
 RFIC + T. Hunkwee : $((2 \times 1) + (5 \times 2) + (22 \times 3) + (1 \times 4)) / 30 = 2,73$

