

LAMPIRAN 1

Perhitungan Waktu Pasteurisasi

Rumus :

$$V = \ln \frac{N_0}{N_t}$$

ket : V = Del factor

N_0 = Jumlah mikroba awal (CFU/ml)

N_t = Jumlah mikroba akhir yang diinginkan (CFU/ml)

$$t = \frac{V \text{ total}}{k}$$

ket : t = waktu pasteurisasi (mnt)

V = Del factor

k = 0,019 / menit

Hot Compartment A

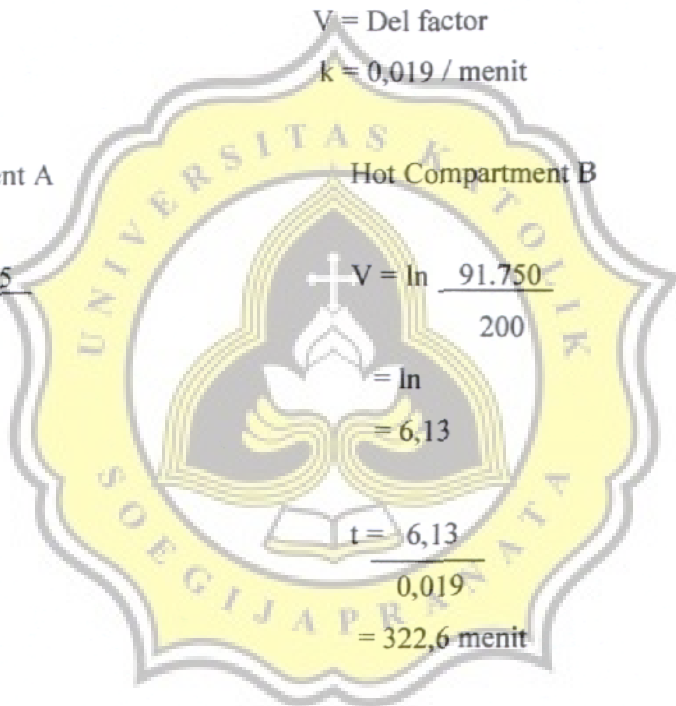
Hot Compartment B

$$\begin{aligned} V &= \ln \frac{166.125}{200} \\ &= \ln \\ &= 6,72 \end{aligned}$$

$$\begin{aligned} V &= \ln \frac{91.750}{200} \\ &= \ln \\ &= 6,13 \end{aligned}$$

$$\begin{aligned} t &= \frac{6,72}{0,019} \\ &= 353,8 \text{ menit} \end{aligned}$$

$$\begin{aligned} t &= \frac{6,13}{0,019} \\ &= 322,6 \text{ menit} \end{aligned}$$



LAMPIRAN 2

KUISIONER UJI ORGANOLEPTIK

Nama :

Umur :

Jenis Kelamin : Pria / Wanita

Tanggal :

Dihadapan Anda tersaji beberapa sampel sari buah jeruk. Silahkan berikan penilaian Anda terhadap rasa, warna, aroma, dan *overall* dari sampel tersebut, dengan mengisi kolom dibawah ini dengan menggunakan angka 1 sampai 5.

Sampel	Rasa (manis)	Rasa (asam)	Warna	Aroma	Overall
305					
427					
512					

Keterangan :

- Rasa (manis)
 - 1 = tidak manis
 - 2 = kurang manis
 - 3 = cukup manis
 - 4 = manis
 - 5 = sangat manis
- Rasa (asam)
 - 1 = tidak asam
 - 2 = kurang asam
 - 3 = cukup asam
 - 4 = asam
 - 5 = sangat asam
- Warna
 - 1 = tidak menarik
 - 2 = kurang menarik
 - 3 = cukup menarik
 - 4 = menarik
 - 5 = sangat menarik
- Aroma
 - 1 = tidak ada bau jambu
 - 2 = bau jambu kurang kuat
 - 3 = bau jambu cukup kuat
 - 4 = bau jambu kuat
 - 5 = bau jambu sangat kuat
- Overall :
 - 1 = sangat tidak baik
 - 2 = tidak baik
 - 3 = cukup
 - 4 = baik
 - 5 = sangat baik

Catatan : pengisian tiap kolom mempergunakan system rangking (tidak boleh ada nilai yang sama)

LAMPIRAN 3

DAFTAR TABULASI KUESIONER

Sampel	Skor	Rasa	Warna	Aroma	Overall
305	1	8	7	7	5
	2	8	13	10	6
	3	3	2	4	11
	4	6	3	4	2
	5	0	0	0	1
427	1	6	3	2	2
	2	16	8	8	10
	3	2	9	8	8
	4	1	4	6	5
	5	0	1	1	0
512	1	8	0	2	2
	2	3	1	3	5
	3	12	6	9	5
	4	1	4	10	10
	5	1	7	1	3

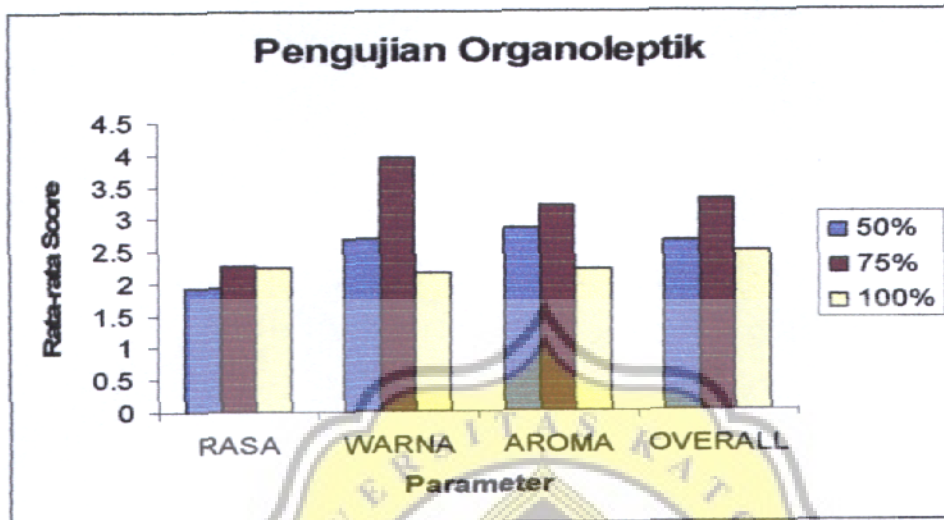
Keterangan :

305 = jus tomat dengan konsentrasi 50 %

427 = jus tomat dengan konsentrasi 75 %

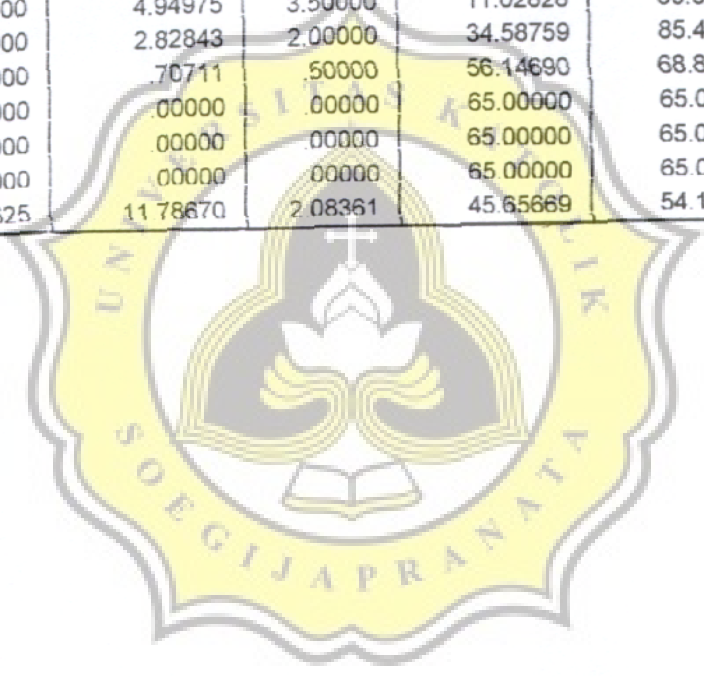
512 = jus tomat dengan konsentrasi 100 %

LAMPIRAN 4



Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
15	2	31.50000	3.53553	2.50000	-.26551	63.26551
30	2	33.50000	3.53553	2.50000	1.73449	65.26551
45	2	35.50000	3.53553	2.50000	3.73449	67.26551
60	2	38.50000	3.53553	2.50000	6.73449	70.26551
75	2	41.50000	3.53553	2.50000	9.73449	73.26551
90	2	43.50000	3.53553	2.50000	11.73449	75.26551
105	2	46.50000	3.53553	2.50000	14.73449	78.26551
120	2	49.00000	4.24264	3.00000	10.88139	87.11861
135	2	52.00000	4.24264	3.00000	13.88139	90.11861
150	2	54.00000	4.24264	3.00000	15.88139	92.11861
165	2	55.50000	4.94975	3.50000	11.02828	99.97172
180	2	60.00000	2.82843	2.00000	34.58759	85.41241
195	2	62.50000	.70711	.50000	56.14690	68.85310
210	2	65.00000	.00000	.00000	65.00000	65.00000
225	2	65.00000	.00000	.00000	65.00000	65.00000
240	2	65.00000	.00000	.00000	65.00000	65.00000
	32	49.90625	11.78670	2.08361	45.65669	54.15581



Descriptives

	Minimum	Maximum
15	29.000	34.000
30	31.000	36.000
45	33.000	38.000
60	36.000	41.000
75	39.000	44.000
90	41.000	46.000
105	44.000	49.000
120	46.000	52.000
135	49.000	55.000
150	51.000	57.000
165	52.000	59.000
180	58.000	62.000
195	62.000	63.000
210	65.000	65.000
225	65.000	65.000
240	65.000	65.000
	29.000	65.000

Test of Homogeneity of Variances

Statistic	df1	df2	Sig.
F	15	16	.000

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4132.219	15	275.481	25.259	.000
Within Groups	174.500	16	10.906		
Total	4306.719	31			

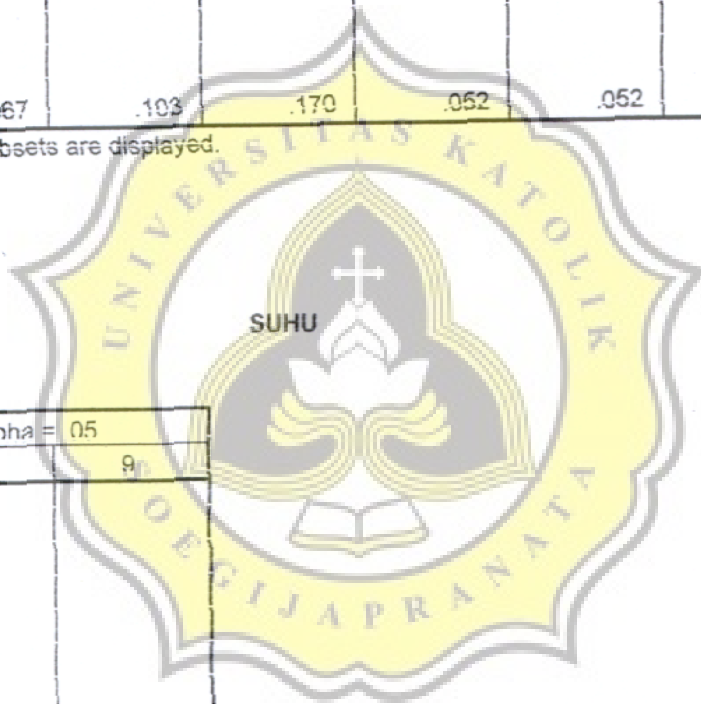
Post Hoc Tests

as HIJAU

SUHU

U	N	Subset for alpha = .05					
		1	2	3	4	5	6
15	2	31.50000					
30	2	33.50000					
45	2	35.50000	35.50000				
60	2	38.50000	38.50000	38.50000			
75	2		41.50000	41.50000	41.50000		
90	2			43.50000	43.50000		
105	2				46.50000	46.50000	
120	2				49.00000	49.00000	49.00000
135	2					52.00000	52.00000
150	2					54.00000	54.00000
165	2						55.50000
180	2						
195	2						
210	2						
225	2						
240	2						
		.067	.103	.170	.052	.052	.088

for groups in homogeneous subsets are displayed.

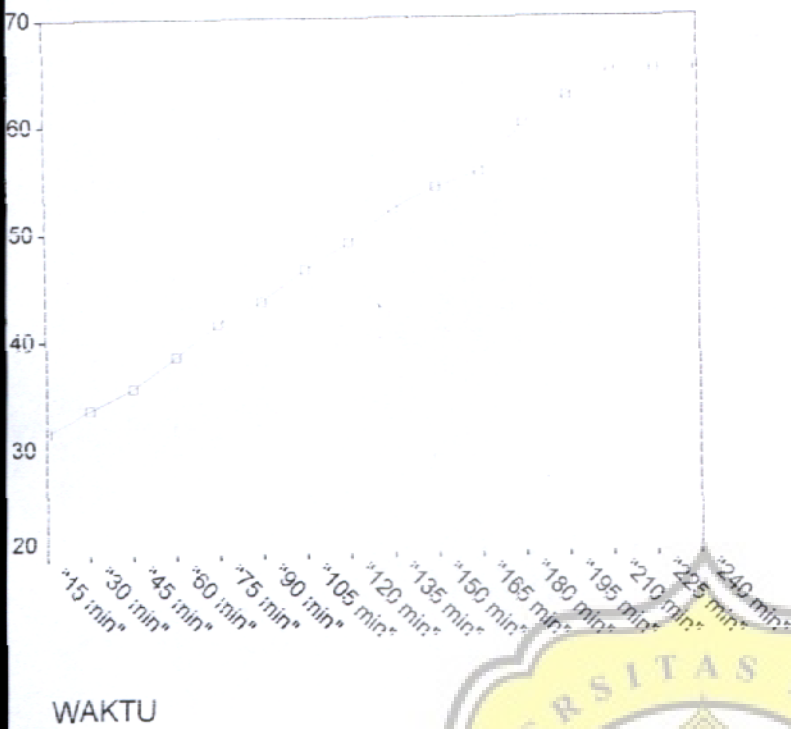


TU	Subset for alpha = .05		
	7	8	9
15			
30			
45			
60			
75			
90			
105			
120			
135			
150	54.00000		
165	55.50000	55.50000	
180	60.00000	60.00000	60.00000
195		62.50000	62.50000
210			65.00000
225			65.00000
240			65.00000
	.103	.060	.190

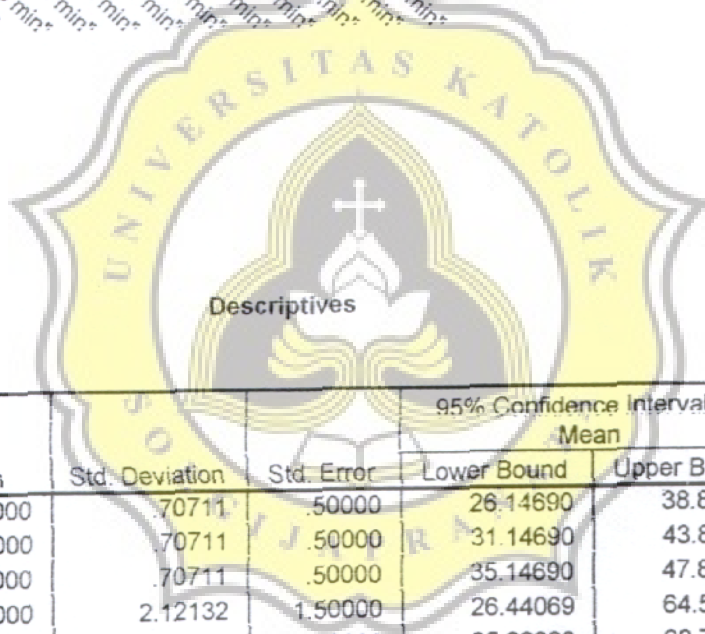
for groups in homogeneous subsets are displayed.

Uses Harmonic Mean Sample Size = 2.000.

Plots



WAKTU
Day KULKAS putih



Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
15	2	32.50000	.70711	.50000	26.14690	38.85310
30	2	37.50000	.70711	.50000	31.14690	43.85310
45	2	41.50000	.70711	.50000	35.14690	47.85310
60	2	45.50000	2.12132	1.50000	26.44069	64.55931
75	2	48.00000	1.41421	1.00000	35.29380	60.70620
90	2	51.50000	.70711	.50000	45.14690	57.85310
105	2	54.00000	1.41421	1.00000	41.29380	66.70620
120	2	56.00000	1.41421	1.00000	43.29380	68.70620
135	2	58.00000	.00000	.00000	58.00000	58.00000
150	2	60.00000	.00000	.00000	60.00000	60.00000
165	2	62.00000	1.41421	1.00000	49.29380	74.70620
180	2	65.00000	.00000	.00000	65.00000	65.00000
195	2	65.00000	.00000	.00000	65.00000	65.00000
210	2	65.00000	.00000	.00000	65.00000	65.00000
	28	52.96429	10.47212	1.97905	48.90362	57.02495

Descriptives

	Minimum	Maximum
5	32.000	33.000
30	37.000	38.000
45	41.000	42.000
60	44.000	47.000
75	47.000	49.000
90	51.000	52.000
105	53.000	55.000
120	55.000	57.000
135	58.000	58.000
150	60.000	60.000
165	61.000	63.000
180	65.000	65.000
195	65.000	65.000
210	65.000	65.000
	32.000	65.000

Test of Homogeneity of Variances

Statistic	df1	df2	Sig.
F=16	13	14	.000

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2946.464	13	226.651	218.836	.000
Within Groups	14.500	14	1.036		
Total	2960.964	27			

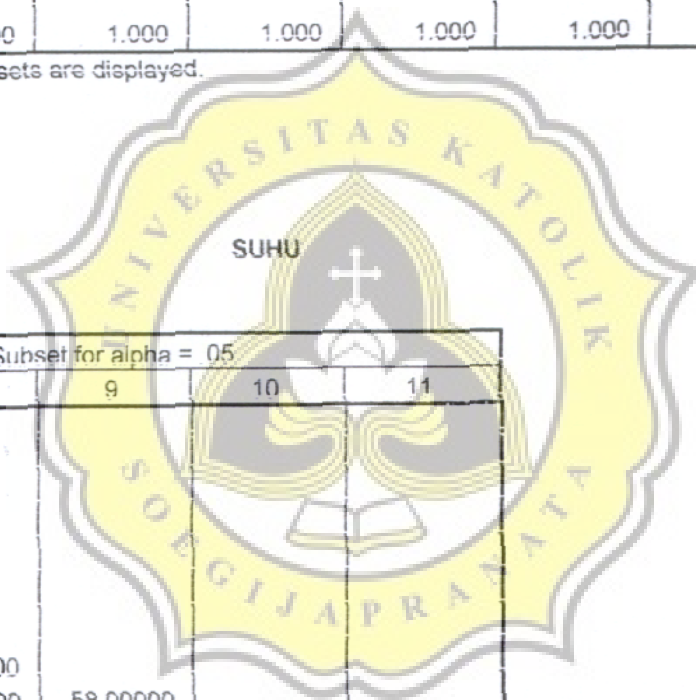
Post Hoc Tests

Homogeneous Subsets KULKAS PUTIH

SUHU

J	N	Subset for alpha = .05					
		1	2	3	4	5	6
15	2	32.50000					
30	2		37.50000				
45	2			41.50000			
60	2				45.50000		
75	2					48.00000	
90	2						51.50000
105	2						
120	2						
135	2						
150	2						
165	2						
180	2						
195	2						
210	2						
		1.000	1.000	1.000	1.000	1.000	1.000

for groups in homogeneous subsets are displayed.

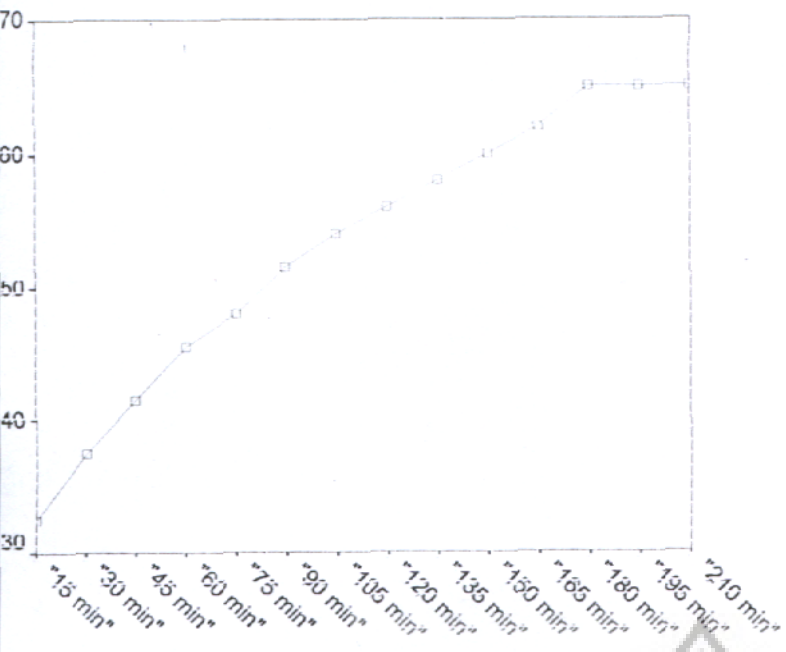


J	Subset for alpha = .05				
	7	8	9	10	11
15					
30					
45					
60					
75					
90					
105	54.00000				
120	56.00000	56.00000			
135		58.00000	58.00000		
150			60.00000	60.00000	
165				62.00000	
180					65.00000
195					65.00000
210					65.00000
	.070	.070	.070	.070	1.000

for groups in homogeneous subsets are displayed.

uses Harmonic Mean Sample Size = 2.000.

s Plots



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Descriptives

N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
				Lower Bound	Upper Bound
2	31.500	3.536	2.50000	-.26551	63.26551
2	33.500	3.536	2.50000	1.73449	65.26551
2	35.500	3.536	2.50000	3.73449	67.26551
2	38.500	3.536	2.50000	6.73449	70.26551
2	41.500	3.536	2.50000	9.73449	73.26551
2	43.500	3.536	2.50000	11.73449	75.26551
2	46.500	3.536	2.50000	14.73449	78.26551
2	49.000	4.243	3.00000	10.88139	87.11861
2	52.000	4.243	3.00000	13.88139	90.11861
2	54.000	4.243	3.00000	15.88139	92.11861
2	55.500	4.950	3.50000	11.02828	99.97172
2	60.000	2.828	2.00000	34.58759	85.41241
2	62.500	.707	.50000	56.14690	68.85310
2	65.000	.000	.00000	65.00000	65.00000
2	65.000	.000	.00000	65.00000	65.00000
2	65.000	.000	.00000	65.00000	65.00000
2	32.500	.707	.50000	26.14690	38.85310
2	37.500	.707	.50000	31.14690	43.85310
2	41.500	.707	.50000	35.14690	47.85310
2	45.500	2.121	1.50000	26.44069	64.55931
2	48.000	1.414	1.00000	35.29380	60.70620
2	51.500	.707	.50000	45.14690	57.85310
2	54.000	1.414	1.00000	41.29380	66.70620
2	56.000	1.414	1.00000	43.29380	68.70620
2	58.000	.000	.00000	58.00000	58.00000
2	60.000	.000	.00000	60.00000	60.00000
2	62.000	1.414	1.00000	49.29380	74.70620
2	65.000	.000	.00000	65.00000	65.00000
2	65.000	.000	.00000	65.00000	65.00000
2	65.000	.000	.00000	65.00000	65.00000
60	51.33333	11.20482	1.44654	48.43882	54.22785

Descriptives

	Minimum	Maximum
	29.000	34.000
	31.000	36.000
	33.000	38.000
	36.000	41.000
	39.000	44.000
	41.000	46.000
	44.000	49.000
	46.000	52.000
	49.000	55.000
	51.000	57.000
	52.000	59.000
	58.000	62.000
	62.000	63.000
	65.000	65.000
	65.000	65.000
	65.000	65.000
	32.000	33.000
	37.000	38.000
	41.000	42.000
	44.000	47.000
	47.000	49.000
	51.000	52.000
	53.000	55.000
	55.000	57.000
	58.000	58.000
	60.000	60.000
	61.000	63.000
	65.000	65.000
	65.000	65.000
	65.000	65.000
	29.000	65.000



Test of Homogeneity of Variances

Statistic	df1	df2	Sig.
F	29	30	.000

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	7218.333	29	248.908	39.509	.000
Within Groups	189.000	30	6.300		
Total	7407.333	59			

Post Hoc Tests

Homogeneous Subsets

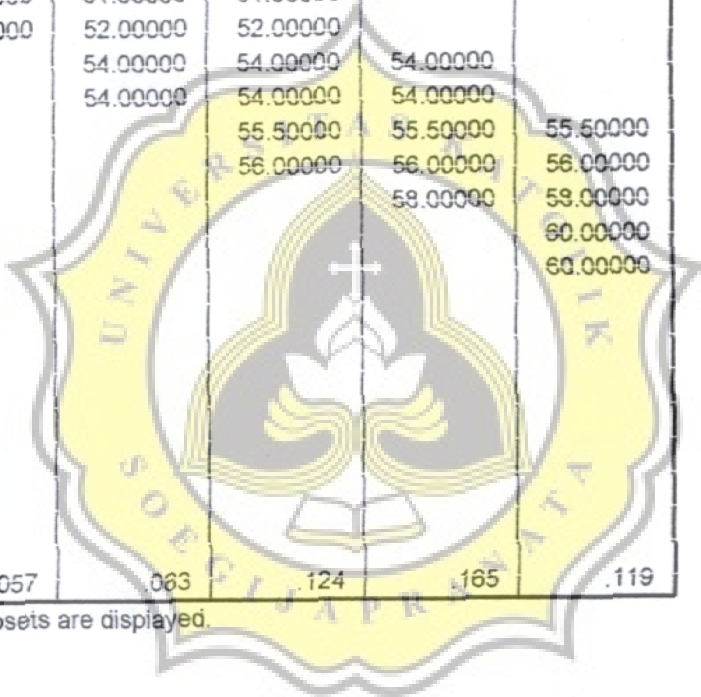
SUHU

AS W	N	Subset for alpha = .05					
		1	2	3	4	5	6
5	2	31.50000					
15	2	32.50000	32.50000				
30	2	33.50000	33.50000	33.50000			
45	2	35.50000	35.50000	35.50000			
60	2		37.50000	37.50000	37.50000		
75	2			38.50000	38.50000	38.50000	
90	2				41.50000	41.50000	41.50000
105	2					41.50000	41.50000
120	2						43.50000
135	2						45.50000
150	2						46.50000
165	2						
180	2						
195	2						
210	2						
225	2						
240	2						
255	2						
270	2						
285	2						
300	2						
		.155	.077	.077	.155	.077	.083

Means for groups in homogeneous subsets are displayed.

SUHU

Subset for alpha = .05						
AS_W	7	8	9	10	11	12
5						
15						
30						
45						
60						
75						
90	43.50000					
105	45.50000					
120	46.50000	46.50000				
135	48.00000	48.00000				
150	49.00000	49.00000	49.00000			
165		51.50000	51.50000	51.50000		
180		52.00000	52.00000	52.00000		
195			54.00000	54.00000	54.00000	
210			54.00000	54.00000	54.00000	
225			54.00000	54.00000	54.00000	
240			55.50000	55.50000	55.50000	55.50000
180			56.00000	56.00000	56.00000	56.00000
195				58.00000	58.00000	58.00000
210						60.00000
225						60.00000
240						
180						
195						
210						
	.057	.057	.063	.124	.165	.119

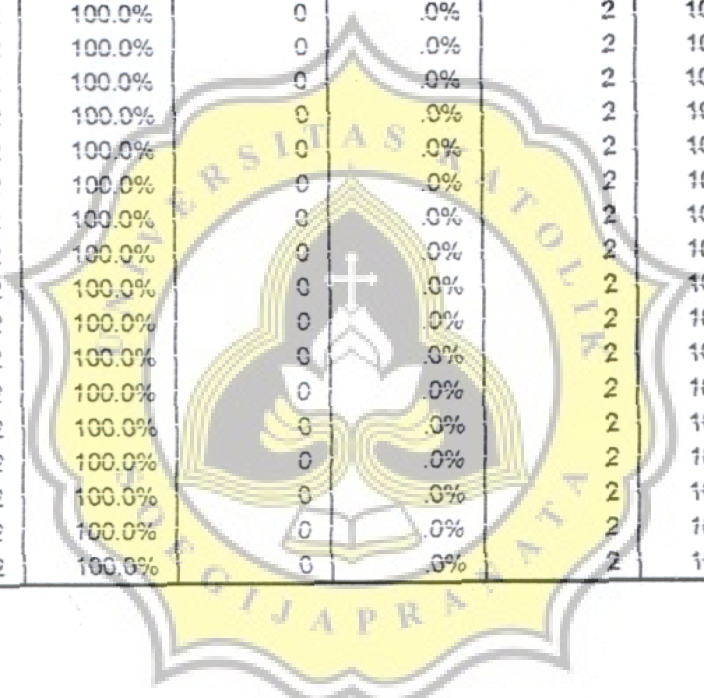


or groups in homogeneous subsets are displayed.

S_W	Subset for alpha = 05	
	13	14
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75		
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105		
120		
135		
150		
165		
180		
195		
210		
225		
240		
255		
270		
285		
300		
315		
330		
345		
360		
375		
390		
405		
420		
435		
450		
465		
480		
495		
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525		
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660		
675		
690		
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3990		
4005		
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4125		
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4995		
5010		
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5130		
5145		
5160		
5175		
5190		
5205		
5220		
5235		
5250		
5265		
5280		
5295		
5310		
5325		
5340		
5355		
5370		
5385		
5400		
5415		
5430		
5445		
5460		
5475		
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5625		
5640		
5655		
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5685		
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6150		
6165		
6180		
6195		
6210		
6225		
6240		
6255		
6270		
6285		
6300		
6315		
6330		
6345		
6360		
6375		
6390		
6405		
6420		
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6450		
6465		
6480		
6495		
6510		
6525		
6540		
6555		
6570		
6585		
6600		
6615		
6630		
6645		
6660		
6675		
6690		
6705		
6720		
6735		
6750		
6765		
6780		
6795		
6810		
6825		
6840		
6855		
6870		
6885		
6900		
6915		
6930		
6945		
6960		
6975		
6990		
7005		
7020		
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7050		
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7080		
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7245		
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7605		
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7680		
7695		
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7755		
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7785		
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7950		
7965		
7980		
7995		
8010		
8025		
8040		
8055		
8070		
8085		
8100		
8115		
8130		
8145		
8160		
8175		
8190		
8205		
8220		
8235		
8250		
8265		
8280		
8295		
8310		
8325		
8340		
8355		
8370		
8385		

Case Processing Summary

KULKAS_W	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
11.000	2	100.0%	0	.0%	2	100.0%
12.000	2	100.0%	0	.0%	2	100.0%
13.000	2	100.0%	0	.0%	2	100.0%
14.000	2	100.0%	0	.0%	2	100.0%
15.000	2	100.0%	0	.0%	2	100.0%
16.000	2	100.0%	0	.0%	2	100.0%
17.000	2	100.0%	0	.0%	2	100.0%
18.000	2	100.0%	0	.0%	2	100.0%
19.000	2	100.0%	0	.0%	2	100.0%
20.000	2	100.0%	0	.0%	2	100.0%
21.000	2	100.0%	0	.0%	2	100.0%
22.000	2	100.0%	0	.0%	2	100.0%
23.000	2	100.0%	0	.0%	2	100.0%
24.000	2	100.0%	0	.0%	2	100.0%
25.000	2	100.0%	0	.0%	2	100.0%
26.000	2	100.0%	0	.0%	2	100.0%
31.000	2	100.0%	0	.0%	2	100.0%
32.000	2	100.0%	0	.0%	2	100.0%
33.000	2	100.0%	0	.0%	2	100.0%
34.000	2	100.0%	0	.0%	2	100.0%
35.000	2	100.0%	0	.0%	2	100.0%
36.000	2	100.0%	0	.0%	2	100.0%
37.000	2	100.0%	0	.0%	2	100.0%
38.000	2	100.0%	0	.0%	2	100.0%
39.000	2	100.0%	0	.0%	2	100.0%
40.000	2	100.0%	0	.0%	2	100.0%
41.000	2	100.0%	0	.0%	2	100.0%
42.000	2	100.0%	0	.0%	2	100.0%
43.000	2	100.0%	0	.0%	2	100.0%
44.000	2	100.0%	0	.0%	2	100.0%



re

AKUA

Case Processing Summary

PERLAKUAN	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Thermobox 230	36	100.0%	0	.0%	36	100.0%
Thermobox 250	32	100.0%	0	.0%	32	100.0%

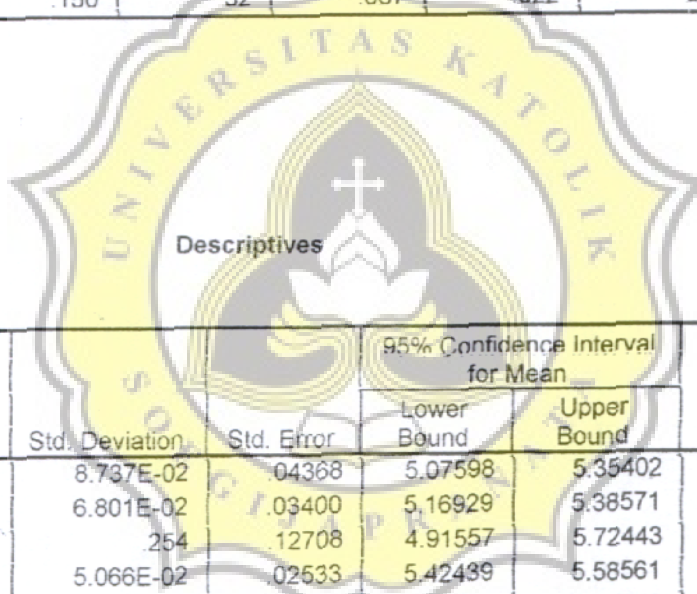
Tests of Normality

PERLAKUAN	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Thermobox 230	.154	36	.031	.912	36	.010
Thermobox 250	.150	32	.067	.922	32	.035

Liefers Significance Correction

ay

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Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
0	4	5.215	8.737E-02	.04368	5.07598	5.35402	5.090	5.280
30	4	5.278	6.801E-02	.03400	5.16929	5.38571	5.210	5.370
60	4	5.320	.254	.12708	4.91557	5.72443	5.120	5.650
90	4	5.505	5.066E-02	.02633	5.42439	5.58561	5.430	5.540
120	4	5.173	.319	.15929	4.66557	5.67943	4.790	5.440
150	4	5.057	.380	.19019	4.45222	5.66278	4.640	5.380
180	4	5.008	.461	.23030	4.27457	5.74043	4.570	5.430
210	4	5.210	.214	.10685	4.86996	5.55004	5.020	5.450
240	4	4.593	.172	.08596	4.31893	4.86607	4.380	4.760
0	4	4.958	6.946E-02	.03473	4.84697	5.06803	4.860	5.020
30	4	4.803	.267	.13332	4.37823	5.22677	4.440	5.080
60	4	4.473	.705	.35264	3.35024	5.59476	3.700	5.270
90	4	4.295	1.334	.66715	2.17182	6.41818	3.100	5.480
120	4	4.397	.107	.05344	4.22742	4.56758	4.270	4.500
150	4	4.783	.631	.31537	3.77886	5.78614	4.250	5.530
180	4	5.053	.105	.05266	4.88492	5.22008	4.910	5.160
210	4	4.385	.109	.05439	4.21190	4.55810	4.270	4.530
	68	4.91191	.53244	.06457	4.78303	5.04079	3.100	5.650

Test of Homogeneity of Variances

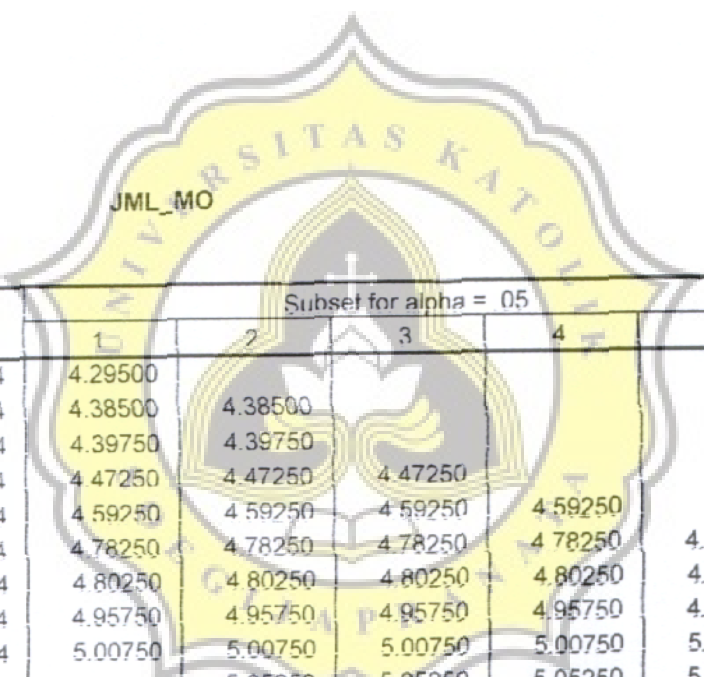
Statistic	df1	df2	Sig.
.650	16	51	.000

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.798	16	.550	2.750	.003
Within Groups	10.197	51	.200		
Total	18.994	67			

Post Hoc Tests

Homogeneous Subsets



K WA	N	Subset for alpha = .05				
		1	2	3	4	5
_90 menit	4	4.29500				
_210 menit	4	4.38500	4.38500			
_120 menit	4	4.39750	4.39750			
_60 menit	4	4.47250	4.47250	4.47250		
_240 menit	4	4.59250	4.59250	4.59250	4.59250	
_150 menit	4	4.78250	4.78250	4.78250	4.78250	4.78250
_30 menit	4	4.80250	4.80250	4.80250	4.80250	4.80250
_0 menit	4	4.95750	4.95750	4.95750	4.95750	4.95750
_180 menit	4	5.00750	5.00750	5.00750	5.00750	5.00750
_180 menit	4		5.05250	5.05250	5.05250	5.05250
_150 menit	4		5.05750	5.05750	5.05750	5.05750
_120 menit	4			5.17250	5.17250	5.17250
_210 menit	4			5.21000	5.21000	5.21000
_0 menit	4			5.21500	5.21500	5.21500
_30menit	4				5.27750	5.27750
_60 menit	4				5.32000	5.32000
_90 menit	4					5.50500
		.060	.078	.053	.059	.061

Means for groups in homogeneous subsets are displayed.

Uses Harmonic Mean Sample Size = 4.000.

Way

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
0	4	5.215	8.737E-02	.04368	5.07598	5.35402
30	4	5.278	6.801E-02	.03400	5.16929	5.38571
60	4	5.320	.254	.12708	4.91557	5.72443
90	4	5.505	5.066E-02	.02533	5.42439	5.58561
120	4	5.173	.319	.15929	4.66557	5.67943
150	4	5.057	.380	.19019	4.45222	5.66278
160	4	5.008	.461	.23030	4.27457	5.74043
110	4	5.210	.214	.10685	4.86996	5.55004
140	4	4.593	.172	.08596	4.31893	4.86607
	36	5.15083	.33448	.05575	5.03766	5.26400

Descriptives

	Minimum	Maximum
0	5.090	5.280
30	5.210	5.370
60	5.120	5.650
90	5.430	5.540
120	4.790	5.440
150	4.640	5.380
160	4.570	5.430
110	5.020	5.450
140	4.380	4.760
	4.380	5.650



Test of Homogeneity of Variances

Statistic	df1	df2	Sig.
4.448	8	27	.000

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.077	8	.260	3.811	.004
Within Groups	1.839	27	6.811E-02		
Total	3.916	35			

Loc Tests

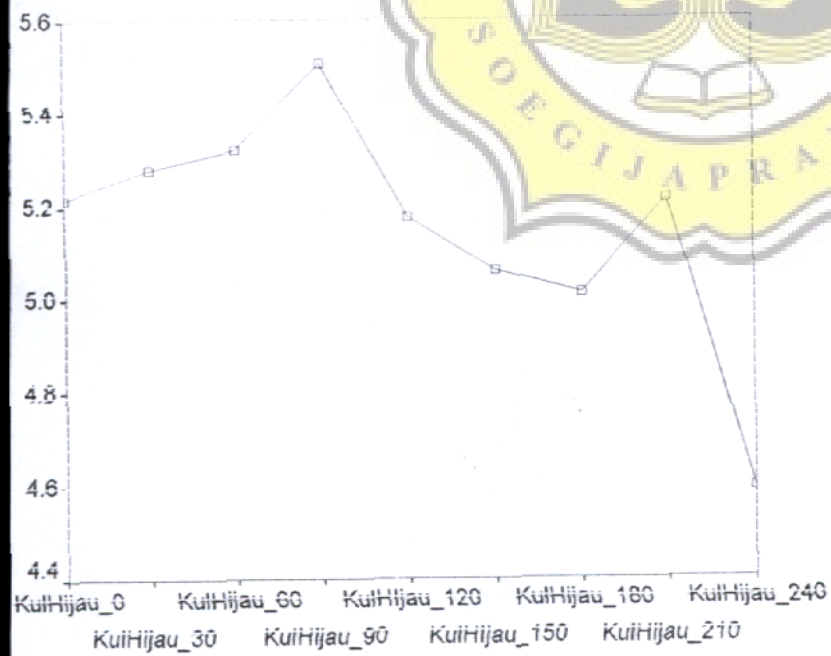
Homogeneous Subsets

JML_MO

K_WA	N	Subset for alpha = .05		
		1	2	3
240	4	4.59250		
180	4		5.00750	
150	4		5.05750	
120	4		5.17250	5.17250
210	4		5.21000	5.21000
0	4		5.21500	5.21500
30	4		5.27750	5.27750
60	4		5.32000	5.32000
90	4			5.50500
		1.000	.151	.123

for groups in homogeneous subsets are displayed.
 see Harmonic Mean Sample Size = 4.000.

Plots



PERLK_WA

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
0	4	4.9575	6.946E-02	3.473E-02	4.8470	5.0680
30	4	4.8025	.2666	.1333	4.3782	5.2268
60	4	4.4725	.7053	.3526	3.3502	5.5948
90	4	4.2700	1.3647	.6824	2.0984	6.4416
120	4	4.3975	.1069	5.344E-02	4.2274	4.5676
150	4	4.7825	.6307	.3154	3.7789	5.7861
180	4	5.0525	.1053	5.266E-02	4.8849	5.2201
210	4	4.3850	.1088	5.439E-02	4.2119	4.5581
	32	4.6400	.5965	.1054	4.4249	4.8551

	Minimum	Maximum
0	4.86	5.02
30	4.44	5.08
60	3.70	5.27
90	3.00	5.48
120	4.27	4.50
150	4.25	5.53
180	4.91	5.16
210	4.27	4.53
	3.00	5.53



Test of Homogeneity of Variances

Statistic	df1	df2	Sig.
3.505	7	24	.000

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.426	7	.347	.967	.477
Within Groups	8.604	24	.359		
Total	11.030	31			

Hoc Tests

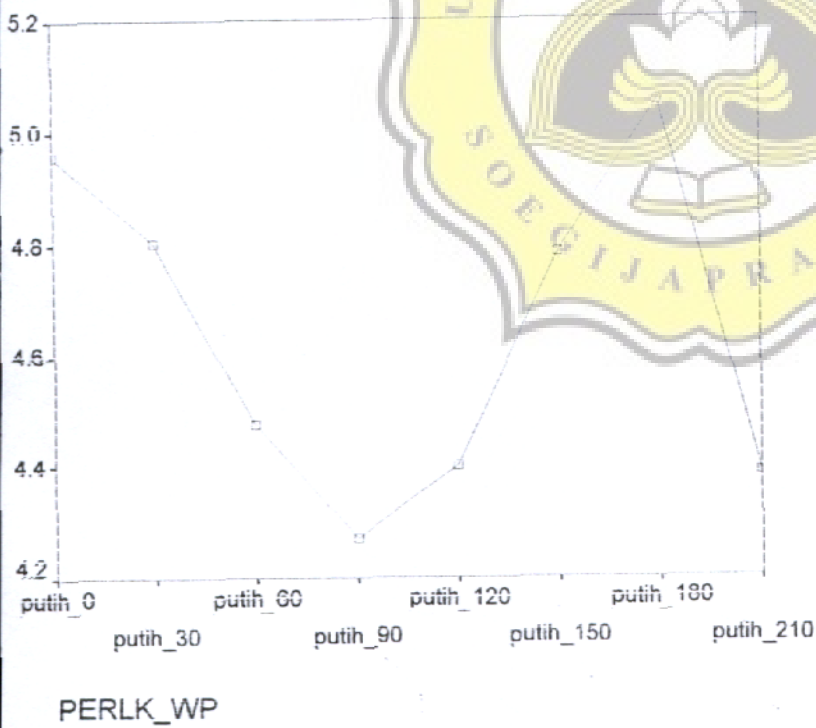
Homogeneous Subsets

JMLMOP

PERLK_WP	N	Subset for alpha = .05	
		1	
0	4	4.2700	
30	4	4.3850	
60	4	4.3975	
90	4	4.4725	
120	4	4.7825	
150	4	4.8025	
180	4	4.9575	
210	4	5.0525	
			.121

For groups in homogeneous subsets are displayed.
Uses Harmonic Mean Sample Size = 4.000.

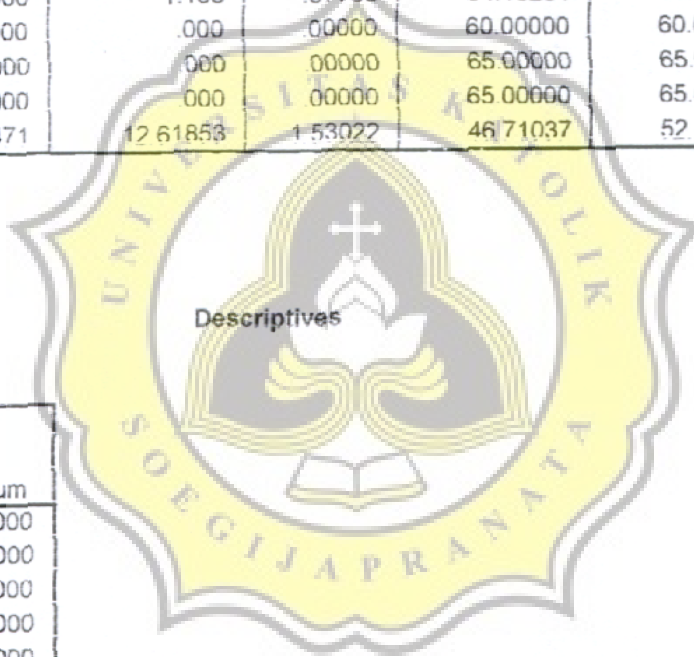
Line Plots



way

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
0	4	29.500	.577	.28868	28.58131	30.41869
30	4	33.500	2.887	1.44338	28.90653	38.09347
60	4	38.500	2.887	1.44338	33.90653	43.09347
90	4	43.500	2.887	1.44338	38.90653	48.09347
120	4	49.000	3.464	1.73205	43.48784	54.51216
150	4	54.000	3.464	1.73205	48.48784	59.51216
180	4	60.000	2.309	1.15470	56.32523	63.67477
210	4	65.000	.000	.00000	65.00000	65.00000
240	4	65.000	.000	.00000	65.00000	65.00000
0	4	29.500	.577	.28868	28.58131	30.41869
30	4	37.500	.577	.28868	36.58131	38.41869
60	4	45.500	1.732	.86603	42.74392	48.25608
90	4	49.500	2.887	1.44338	44.90653	54.09347
120	4	56.000	1.155	.57735	54.16261	57.83739
150	4	60.000	.000	.00000	60.00000	60.00000
180	4	65.000	.000	.00000	65.00000	65.00000
210	4	65.000	.000	.00000	65.00000	65.00000
	68	49.76471	12.61853	1.53022	46.71037	52.81904



Descriptives

	Minimum	Maximum
0	29.000	30.000
30	31.000	36.000
60	36.000	41.000
90	41.000	46.000
120	46.000	52.000
150	51.000	57.000
180	58.000	62.000
210	65.000	65.000
240	65.000	65.000
0	29.000	30.000
30	37.000	38.000
60	44.000	47.000
90	47.000	52.000
120	55.000	57.000
150	60.000	60.000
180	65.000	65.000
210	65.000	65.000
	29.000	65.000

Test of Homogeneity of Variances

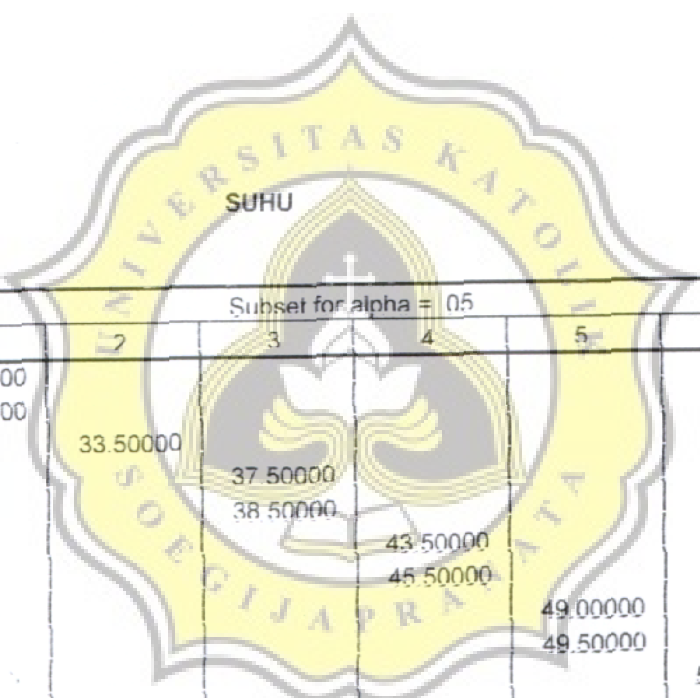
Statistic	df1	df2	Sig.
F=16	16	51	.000

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	10464.235	16	654.015	163.504	.000
Within Groups	204.000	51	4.000		
Total	10668.235	67			

Post Hoc Tests

Homogeneous Subsets



K_WA	N	Subset for alpha = .05					
		1	2	3	4	5	6
0	4	29.50000					
30	4	29.50000					
30	4		33.50000				
60	4			37.50000			
90	4			38.50000			
60	4				43.50000		
120	4				45.50000		
90	4					49.00000	
150	4					49.50000	
120	4						54.00000
180	4						56.00000
150	4						
210	4						
240	4						
180	4						
210	4						
		1.000	1.000	.483	.163	.725	.163

for groups in homogeneous subsets are displayed.

WA	Subset for alpha = 05	
	7	8
0		
0		
0		
0		
0		
20		
0		
50		
20		
80	60.00000	
50	60.00000	
210		65.00000
240		65.00000
80		65.00000
210		65.00000
	1.000	1.000

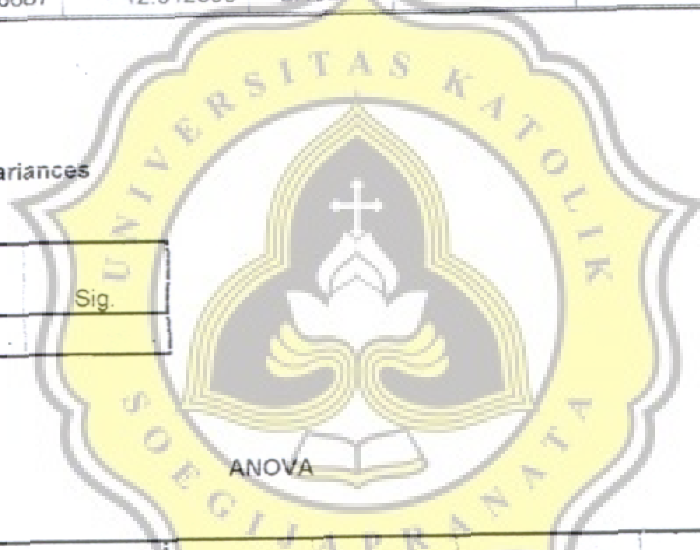
or groups in homogeneous subsets are displayed.
 es Harmonic Mean Sample Size - 4.000.

s Plots



Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
iau_0	4	29.50000	.577350	.288675	28.58131	30.41869	29.000	
iau_30	4	33.50000	2.886751	1.443376	28.90653	38.09347	31.000	
iau_60	4	38.50000	2.886751	1.443376	33.90653	43.09347	36.000	
iau_90	4	43.50000	2.886751	1.443376	38.90653	48.09347	41.000	
iau_120	4	48.00000	3.464102	1.732051	43.48784	54.51216	46.000	
iau_150	4	54.00000	3.464102	1.732051	48.48784	59.51216	51.000	
iau_180	4	60.00000	2.309401	1.154701	56.32523	63.67477	58.000	
iau_210	4	65.00000	.000000	.000000	65.00000	65.00000	65.000	
iau_240	4	65.00000	.000000	.000000	65.00000	65.00000	65.000	
	36	48.66667	12.912895	2.162149	44.29757	53.03576	29.000	



Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
	8		

			Sum of Squares	df	Mean Square	F	Sig.
Between Groups	(Combined)		5672.000	8	709.000	116.726	.000
Within Groups	Linear Term	Contrast	5606.667	1	5606.667	923.049	.000
		Deviation	65.333	7	9.333	1.537	.197
Total			164.000	27	6.074		
			5836.000	35			

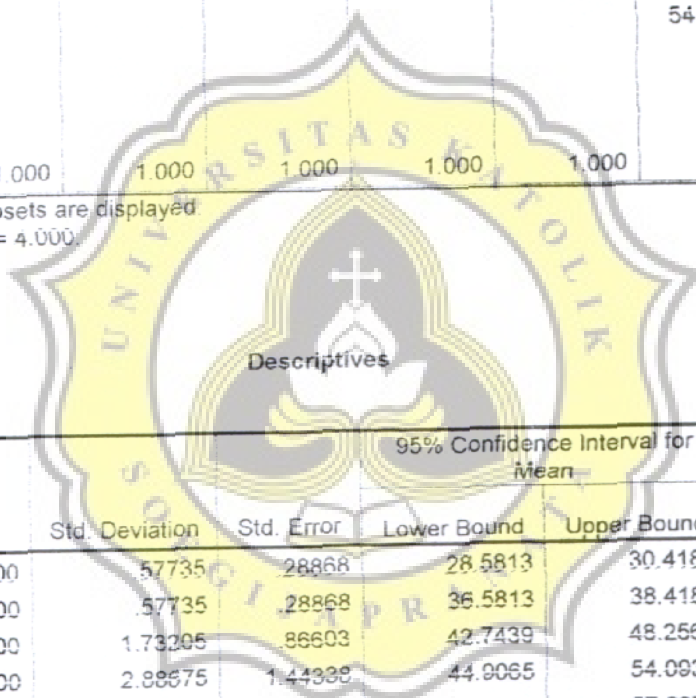
Hoc Tests

Homogeneous Subsets

SUHU

K_WA	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
jau_0	4	29.50000						
jau_30	4		33.50000					
jau_60	4			38.50000				
jau_90	4				43.50000			
jau_120	4					49.00000		
jau_150	4						54.00000	
jau_180	4							60.00000
jau_210	4							
jau_240	4							
		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed
 Harmonic Mean Sample Size = 4.000



	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
h_0	4	29.5000	.57735	.28868	28.5813	30.4187	29.00	30.00
h_30	4	37.5000	.57735	.28868	36.5813	38.4187	37.00	38.00
h_60	4	45.5000	1.73205	.86603	42.7439	48.2561	44.00	47.00
h_90	4	49.5000	2.88675	1.44338	44.9065	54.0935	47.00	52.00
h_120	4	56.0000	1.15470	.57735	54.1626	57.8374	55.00	57.00
h_150	4	60.0000	.00000	.00000	60.0000	60.0000	60.00	60.00
h_180	4	65.0000	.00000	.00000	65.0000	65.0000	65.00	65.00
h_210	4	65.0000	.00000	.00000	65.0000	65.0000	65.00	65.00
Total	32	51.0000	12.36540	2.18592	46.5418	55.4582	29.00	65.00

Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
	7		

ANOVA

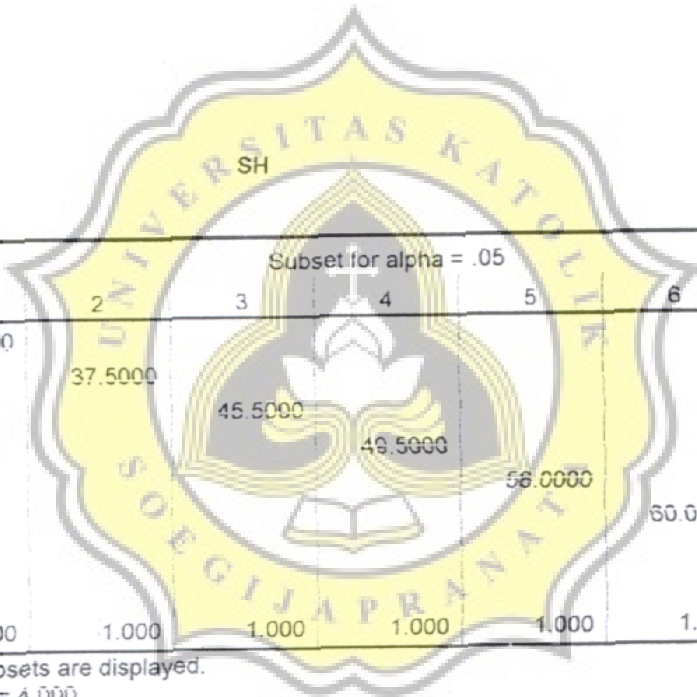
			Sum of Squares	df	Mean Square	F	Sig.
en	(Combined)		4700.000	7	671.429	402.857	.000
s	Linear Term	Contrast	4526.095	1	4526.095	2715.657	.000
		Deviation	173.905	6	28.984	17.390	.000
h Groups			40.000	24	1.667		
			4740.000	31			

Post Hoc Tests

Homogeneous Subsets

WAK	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
_0	4	29.5000						
_30	4		37.5000					
_60	4			45.5000				
_90	4				49.5000			
_120	4					56.0000		
_150	4						60.0000	
_180	4							65.0000
_210	4							65.0000
		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
 Harmonic Mean Sample Size = 4.000.



Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
EL * SKOR METE	300	98.4%	5	1.6%	305	100.0%

SAMPEL * SKOR * PARAMETE Crosstabulation

PARAMETE	SAMPEL	Count	SKOR					Total
			1.00	2.00	3.00	4.00	5.00	
1	305	Count	8	9	2	6		25
		% within SAMPEL	32.0%	36.0%	8.0%	24.0%		100%
2	427	Count	6	16	2	1		25
		% within SAMPEL	24.0%	64.0%	8.0%	4.0%		100%
3	512	Count	8	5	10	1	1	25
		% within SAMPEL	32.0%	20.0%	40.0%	4.0%	4.0%	100%
Total		Count	22	30	14	8	1	75
		% within SAMPEL	29.3%	40.0%	18.7%	10.7%	1.3%	100%
4	305	Count	6	13	2	4		25
		% within SAMPEL	24.0%	52.0%	8.0%	16.0%		100%
5	427	Count	3	8	9	4	1	25
		% within SAMPEL	12.0%	32.0%	36.0%	16.0%	4.0%	100%
6	512	Count		1	6	11	7	25
		% within SAMPEL		4.0%	24.0%	44.0%	28.0%	100%
Total		Count	9	22	17	19	8	75
		% within SAMPEL	12.0%	29.3%	22.7%	25.3%	10.7%	100%
7	305	Count	7	10	4	4		25
		% within SAMPEL	28.0%	40.0%	16.0%	16.0%		100%
8	427	Count	2	8	8	6	1	25
		% within SAMPEL	8.0%	32.0%	32.0%	24.0%	4.0%	100%
9	512	Count	2	3	9	10	1	25
		% within SAMPEL	8.0%	12.0%	36.0%	40.0%	4.0%	100%
Total		Count	11	21	21	20	2	75
		% within SAMPEL	14.7%	28.0%	28.0%	26.7%	2.7%	100%
10	305	Count	5	6	12	1	1	25
		% within SAMPEL	20.0%	24.0%	48.0%	4.0%	4.0%	100%
11	427	Count	2	10	8	5		25
		% within SAMPEL	8.0%	40.0%	32.0%	20.0%		100%
12	512	Count	2	5	5	10	3	25
		% within SAMPEL	8.0%	20.0%	20.0%	40.0%	12.0%	100%
Total		Count	9	21	25	16	4	75
		% within SAMPEL	12.0%	28.0%	33.3%	21.3%	5.3%	100%