

Lampiran 1. Hasil uji Mann Whitney-U (Nonparametrik) variasi Penggunaan Acetobacter xylinum pada Media Fermentasi

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
MEAN(BERAT,2)	54	.1973	4.237E-02	.13	.30
MEAN(TEBAL,2)	54	2.3287	1.3010	.44	7.08
MEAN(KADARAIR,2)	54	3.8676	1.1816	2.10	6.30
MEAN(TENSIL,2)	54	1015.6167	482.7920	59.50	2515.00
MEAN(ELONGASI,2)	54	30.2971	11.9489	6.87	75.46
SMEAN(WVTR)	54	.1444	4.181E-02	.03	.31
MIKRO	54	10.0000	4.1208	5.00	15.00

Kruskal-Wallis Test

Ranks

	MIKRO	N	Mean Rank
MEAN(BERAT,2)	5.00	18	24.42
	10.00	18	23.33
	15.00	18	34.75
	Total	54	
MEAN(TEBAL,2)	5.00	18	25.11
	10.00	18	24.39
	15.00	18	33.00
	Total	54	
MEAN(KADARAIR,2)	5.00	18	23.83
	10.00	18	24.39
	15.00	18	34.28
	Total	54	
MEAN(TENSIL,2)	5.00	18	32.56
	10.00	18	23.94
	15.00	18	26.00
	Total	54	
MEAN(ELONGASI,2)	5.00	18	24.72
	10.00	18	29.00
	15.00	18	28.78
	Total	54	
SMEAN(WVTR)	5.00	18	26.89
	10.00	18	26.72
	15.00	18	28.89
	Total	54	

Test Statistics<sup>a,b</sup>

	MEAN(BERAT,2)	MEAN(TEBAL,2)	MEAN(KADARAIR,2)	MEAN(TENSIL,2)	MEAN(ELONGASI,2)	SMEAN(WVTR)
Chi-Square	5.814	3.319	5.031	2.943	.844	.301
df	2	2	2	2	2	2
Asymp. Sig.	.055	.190	.081	.230	.656	.860

a. Kruskal Wallis Test

b. Grouping Variable: MIKRO

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
BER_1	36	.1854	3.135E-02	.13	.30
TBL_1	36	2.0029	.7847	.44	3.95
KA_1	36	3.6090	1.1456	2.20	6.30
TENS_1	36	1036.5382	413.2770	255.00	2291.00
ELONGA_1	36	29.1630	10.1704	6.87	53.84
MIKRO	36	7.5000	2.5355	5.00	10.00

## Mann-Whitney Test

### Ranks

	MIKRO	N	Mean Rank	Sum of Ranks
BER_1	5.00	18	19.03	342.50
	10.00	18	17.97	323.50
	Total	36		
TBL_1	5.00	18	18.81	338.50
	10.00	18	18.19	327.50
	Total	36		
KA_1	5.00	18	18.14	326.50
	10.00	18	18.86	339.50
	Total	36		
TENS_1	5.00	18	21.53	387.50
	10.00	18	15.47	278.50
	Total	36		
ELONGA_1	5.00	18	17.08	307.50
	10.00	18	19.92	358.50
	Total	36		

### Test Statistics<sup>b</sup>

	BER_1	TBL_1	KA_1	TENS_1	ELONGA_1
Mann-Whitney U	152.500	156.500	155.500	107.500	136.500
Wilcoxon W	323.500	327.500	326.500	278.500	307.500
Z	-.302	-.174	-.206	-1.725	-.807
Asymp. Sig. (2-tailed)	.763	.862	.837	.085	.420
Exact Sig. [2*(1-tailed Sig.)]	.767 <sup>a</sup>	.864 <sup>a</sup>	.839 <sup>a</sup>	.085 <sup>a</sup>	.424 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: MIKRO

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
BERAT_1	36	.2035	4.862E-02	.13	.30
TBL_1	36	2.4931	1.4665	.44	7.08
KA_1	36	4.0083	1.1786	2.10	6.30
TENSI_1	36	952.4882	487.2219	59.50	2515.00
ELO_1	36	31.5278	12.2296	13.76	75.46
MIKRO	36	12.5000	2.5355	10.00	15.00

## Mann-Whitney Test

### Ranks

	MIKRO	N	Mean Rank	Sum of Ranks
BERAT_1	10.00	18	14.86	267.50
	15.00	18	22.14	398.50
	Total	36		
TBL_1	10.00	18	15.69	282.50
	15.00	18	21.31	383.50
	Total	36		
KA_1	10.00	18	15.03	270.50
	15.00	18	21.97	395.50
	Total	36		
TENSI_1	10.00	18	17.97	323.50
	15.00	18	19.03	342.50
	Total	36		
ELO_1	10.00	18	18.58	334.50
	15.00	18	18.42	331.50
	Total	36		

### Test Statistics<sup>b</sup>

	BERAT_1	TBL_1	KA_1	TENSI_1	ELO_1
Mann-Whitney U	96.500	111.500	99.500	152.500	160.500
Wilcoxon W	267.500	282.500	270.500	323.500	331.500
Z	-2.077	-1.598	-1.979	-.301	-.047
Asymp. Sig. (2-tailed)	.038	.110	.048	.764	.962
Exact Sig. [2*(1-tailed Sig.)]	.037 <sup>a</sup>	.111 <sup>a</sup>	.047 <sup>a</sup>	.767 <sup>a</sup>	.963 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: MIKRO

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
BRT_1	36	.2031	4.325E-02	.13	.30
TBL_1	36	2.4901	1.4818	.66	7.08
KA_1	36	3.9854	1.1931	2.10	6.30
TENSI_1	36	1057.8236	539.7772	59.50	2515.00
ELO_1	36	30.2005	13.2860	6.87	75.46
MIKRO	36	10.0000	5.0709	5.00	15.00

## Mann-Whitney Test

### Ranks

	MIKRO	N	Mean Rank	Sum of Ranks
BRT_1	5.00	18	14.89	268.00
	15.00	18	22.11	398.00
	Total	36		
TBL_1	5.00	18	15.81	284.50
	15.00	18	21.19	381.50
	Total	36		
KA_1	5.00	18	15.19	273.50
	15.00	18	21.81	392.50
	Total	36		
TENSI_1	5.00	18	20.53	369.50
	15.00	18	16.47	296.50
	Total	36		
ELO_1	5.00	18	17.14	308.50
	15.00	18	19.86	357.50
	Total	36		

### Test Statistics<sup>b</sup>

	BRT_1	TBL_1	KA_1	TENSI_1	ELO_1
Mann-Whitney U	97.000	113.500	102.500	125.500	137.500
Wilcoxon W	268.000	284.500	273.500	296.500	308.500
Z	-2.064	-1.535	-1.884	-1.155	-.775
Asymp. Sig. (2-tailed)	.039	.125	.060	.248	.438
Exact Sig. [2*(1-tailed Sig.)]	.040 <sup>a</sup>	.126 <sup>a</sup>	.059 <sup>a</sup>	.252 <sup>a</sup>	.443 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: MIKRO

Lampiran 2. Hasil uji Mann Whitney-U (Nonparametrik) variasi Penggunaan Gula pada Media Fermentasi

**NPar Tests**

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
MEAN(BERAT,2)	54	.1973	4.237E-02	.13	.30
MEAN(TEBAL,2)	54	2.3287	1.3010	.44	7.08
MEAN(KADARAIR,2)	54	3.8676	1.1816	2.10	6.30
MEAN(TENSIL,2)	54	1015.6167	482.7920	59.50	2515.00
MEAN(ELONGASI,2)	54	30.2971	11.9489	6.87	75.46
SMEAN(WVTR)	54	.1444	4.181E-02	.03	.31
GULA	54	3.0000	.8242	2.00	4.00

**Kruskal-Wallis Test**

**Ranks**

	GULA	N	Mean Rank
MEAN(BERAT,2)	2.00	18	27.03
	3.00	18	27.69
	4.00	18	27.78
	Total	54	
MEAN(TEBAL,2)	2.00	18	23.58
	3.00	18	29.44
	4.00	18	29.47
	Total	54	
MEAN(KADARAIR,2)	2.00	18	31.03
	3.00	18	25.72
	4.00	18	25.75
	Total	54	
MEAN(TENSIL,2)	2.00	18	33.64
	3.00	18	24.08
	4.00	18	24.78
	Total	54	
MEAN(ELONGASI,2)	2.00	18	31.44
	3.00	18	20.56
	4.00	18	30.50
	Total	54	
SMEAN(WVTR)	2.00	18	26.92
	3.00	18	26.78
	4.00	18	28.81
	Total	54	

**Test Statistics<sup>a,b</sup>**

	MEAN(BERAT,2)	MEAN(TEBAL,2)	MEAN(KADARAIR,2)	MEAN(TENSIL,2)	MEAN(ELONGASI,2)	SMEAN(WVTR)
Chi-Square	.025	1.674	1.360	4.130	5.295	.265
df	2	2	2	2	2	2
Asymp. Sig.	.988	.433	.507	.127	.071	.876

a. Kruskal Wallis Test

b. Grouping Variable: GULA

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
BRT_1	36	.1954	4.167E-02	.13	.30
TBL_1	36	2.3213	1.2809	.66	7.08
KA_1	36	3.9465	1.2535	2.10	6.30
TENSI_1	36	1052.5632	417.5513	255.00	2291.00
ELO_1	36	28.9026	10.5784	6.87	52.27
GULA	36	2.5000	.5071	2.00	3.00

## Mann-Whitney Test

### Ranks

	GULA	N	Mean Rank	Sum of Ranks
BRT_1	2.00	18	18.14	326.50
	3.00	18	18.86	339.50
	Total	36		
TBL_1	2.00	18	17.11	308.00
	3.00	18	19.89	358.00
	Total	36		
KA_1	2.00	18	20.03	360.50
	3.00	18	16.97	305.50
	Total	36		
TENSI_1	2.00	18	22.00	396.00
	3.00	18	15.00	270.00
	Total	36		
ELO_1	2.00	18	22.14	398.50
	3.00	18	14.86	267.50
	Total	36		

### Test Statistics<sup>b</sup>

	BRT_1	TBL_1	KA_1	TENSI_1	ELO_1
Mann-Whitney U	155.500	137.000	134.500	99.000	96.500
Wilcoxon W	326.500	308.000	305.500	270.000	267.500
Z	-.206	-.791	-.871	-1.993	-2.073
Asymp. Sig. (2-tailed)	.837	.429	.384	.046	.038
Exact Sig. [2*(1-tailed Sig.)]	.839 <sup>a</sup>	.443 <sup>a</sup>	.389 <sup>a</sup>	.047 <sup>a</sup>	.037 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: GULA

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
BRT_1	36	.2010	4.630E-02	.13	.30
TBL_1	36	2.4617	1.4202	.44	7.08
KA_1	36	3.7229	1.0824	2.20	6.30
TENSI_1	36	934.9250	472.1382	59.50	2515.00
ELO_1	36	29.5106	11.4104	13.76	75.46
GULA	36	3.5000	.5071	3.00	4.00

## Mann-Whitney Test

### Ranks

	GULA	N	Mean Rank	Sum of Ranks
BRT_1	3.00	18	18.33	330.00
	4.00	18	18.67	336.00
	Total	36		
TBL_1	3.00	18	19.06	343.00
	4.00	18	17.94	323.00
	Total	36		
KA_1	3.00	18	18.25	328.50
	4.00	18	18.75	337.50
	Total	36		
TENSI_1	3.00	18	18.58	334.50
	4.00	18	18.42	331.50
	Total	36		
ELO_1	3.00	18	15.19	273.50
	4.00	18	21.81	392.50
	Total	36		

### Test Statistics<sup>b</sup>

	BRT_1	TBL_1	KA_1	TENSI_1	ELO_1
Mann-Whitney U	159.000	152.000	157.500	160.500	102.500
Wilcoxon W	330.000	323.000	328.500	331.500	273.500
Z	-.095	-.316	-.143	-.047	-1.883
Asymp. Sig. (2-tailed)	.924	.752	.887	.962	.060
Exact Sig. [2*(1-tailed Sig.)]	.938 <sup>a</sup>	.767 <sup>a</sup>	.888 <sup>a</sup>	.963 <sup>a</sup>	.059 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: GULA

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
BRT_1	36	.1956	3.918E-02	.13	.30
TBL_1	36	2.2031	1.1973	.44	6.81
KA_1	36	3.9333	1.2054	2.10	6.30
TENSI_1	36	1059.3618	546.4349	59.50	2515.00
ELO_1	36	32.4781	13.5196	6.87	75.46
GULA	36	3.0000	1.0142	2.00	4.00

## Mann-Whitney Test

### Ranks

	GULA	N	Mean Rank	Sum of Ranks
BRT_1	2.00	18	18.39	331.00
	4.00	18	18.61	335.00
	Total	36		
TBL_1	2.00	18	15.97	287.50
	4.00	18	21.03	378.50
	Total	36		
KA_1	2.00	18	20.50	369.00
	4.00	18	16.50	297.00
	Total	36		
TENSI_1	2.00	18	21.14	380.50
	4.00	18	15.86	285.50
	Total	36		
ELO_1	2.00	18	18.81	338.50
	4.00	18	18.19	327.50
	Total	36		

### Test Statistics<sup>b</sup>

	BRT 1	TBL 1	KA 1	TENSI 1	ELO 1
Mann-Whitney U	160.000	116.500	126.000	114.500	156.500
Wilcoxon W	331.000	287.500	297.000	285.500	327.500
Z	-.064	-1.440	-1.140	-1.503	-.174
Asymp. Sig. (2-tailed)	.949	.150	.254	.133	.862
Exact Sig. [2*(1-tailed Sig.)]	.963 <sup>a</sup>	.152 <sup>a</sup>	.265 <sup>a</sup>	.134 <sup>a</sup>	.864 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: GULA



### LAMPIRAN 3. Hasil Uji Two Way Anova Tebal Nata de coco

#### Tests of Between-Subjects Effects

Dependent Variable: MEAN(TEBAL,2)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	37.806 <sup>a</sup>	8	4.726	3.213	.006
Intercept	1743.476	1	1743.476	1185.507	.000
MIKRO	28.325	2	14.163	9.630	.000
GULA	2.616	2	1.308	.890	.418
MIKRO * GULA	6.864	4	1.716	1.167	.338
Error	66.180	45	1.471		
Total	1847.462	54			
Corrected Total	103.986	53			

a. R Squared = .364 (Adjusted R Squared = .250)

#### Post Hoc Tests MIKRO Homogeneous Subsets

MEAN(TEBAL,2)

Duncan<sup>a,b</sup>

MIKRO	N	Subset	
		1	2
5.00	18	4.8211	
10.00	18	5.6322	
15.00	18		6.5931
Sig.		.051	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 1.471.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

## LAMPIRAN 4. Hasil Uji Two Way Anova Berat Nata de coco

### Tests of Between-Subjects Effects

Dependent Variable: MEAN(BERAT,2)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	11349.209 <sup>a</sup>	8	1418.651	2.286	.038
Intercept	920932.433	1	920932.433	1484.252	.000
MIKRO	9080.633	2	4540.317	7.318	.002
GULA	1637.719	2	818.859	1.320	.277
MIKRO * GULA	630.857	4	157.714	.254	.906
Error	27921.112	45	620.469		
Total	960202.754	54			
Corrected Total	39270.321	53			

a. R Squared = .289 (Adjusted R Squared = .163)

### Post Hoc Tests

#### MIKRO

#### Homogeneous Subsets

MEAN(BERAT,2)

Duncan<sup>a,b</sup>

MIKRO	N	Subset	
		1	2
5.00	18	118.6076	
10.00	18	124.5628	
15.00	18		148.6060
Sig.		.477	1.000

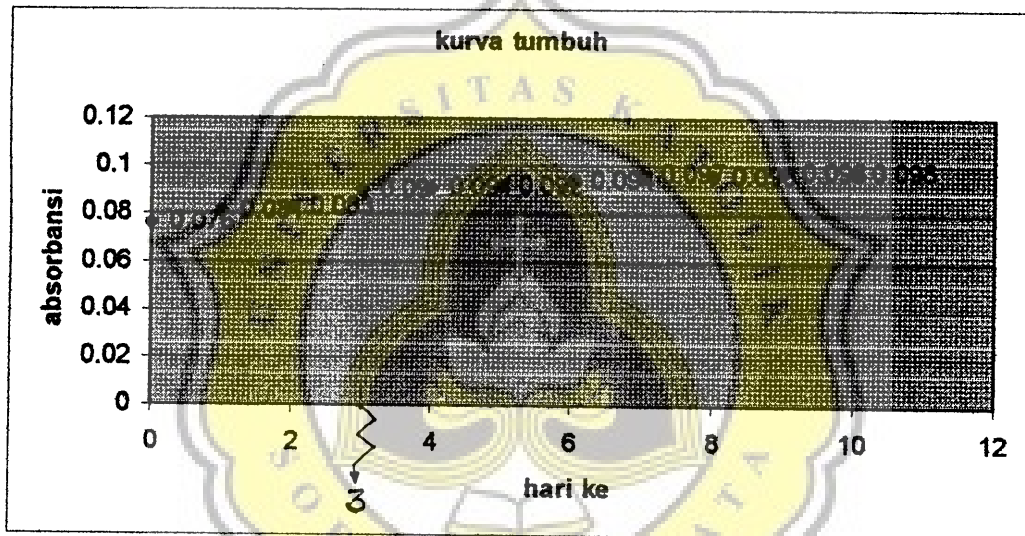
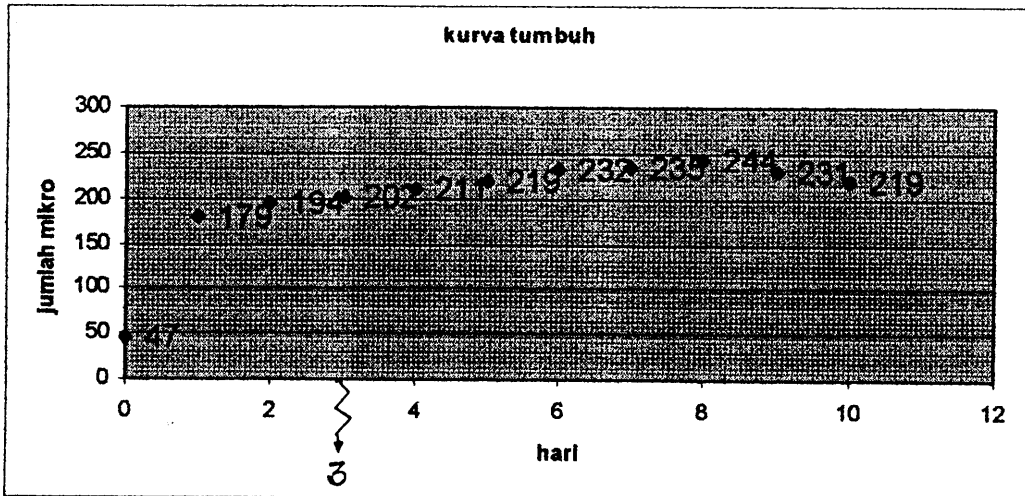
Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 620.469.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.



	wadah	ulangan	mikro	gula	tebal	berat	kadaair	elongasi	tensile	wvtr	berat
1											
2	1,00	1,00	5,00	2,00	,21	2,17	5,50	1080,80	32,42		1,14
3	1,00	2,00	5,00	2,00	,22	1,70	5,80	1076,00	32,28	,19	1,04
4	1,00	3,00	5,00	2,00							
5	1,00	1,00	5,00	3,00							
6	1,00	2,00	5,00	3,00	,19	,66	2,20	707,30	21,22	,09	,58
7	1,00	3,00	5,00	3,00							
8	1,00	1,00	5,00	4,00	,17	2,15	5,20	1231,50	36,94		1,14
9	1,00	2,00	5,00	4,00	,16	1,95	3,90	1048,00	31,44		1,10
10	1,00	3,00	5,00	4,00	,18	2,36	2,50	707,30	21,22	,15	1,17
11	1,00	1,00	10,00	2,00	,23	1,92	6,30	1703,10	51,09		1,09
12	1,00	2,00	10,00	2,00	,21	1,72	5,50	897,30	26,92	,27	1,04
13	1,00	3,00	10,00	2,00	,21	1,76	4,80	1431,10	42,93		1,05
14	1,00	1,00	10,00	3,00							
15	1,00	2,00	10,00	3,00	,18	1,19	3,50	489,60	14,29	,19	,87
16	1,00	3,00	10,00	3,00	,30	1,69	4,70	776,10	23,28		1,04
17	1,00	1,00	10,00	4,00	,18	1,81	3,70	1205,60	36,17		1,07
18	1,00	2,00	10,00	4,00	,19	1,96	4,30	1254,30	37,63		1,10
19	1,00	3,00	10,00	4,00	,17	2,15	4,00	520,00	15,62	,16	1,14
20	1,00	1,00	15,00	2,00	,24	2,55	5,60	1391,80	41,75		1,20
21	1,00	2,00	15,00	2,00	,18	1,90	5,00	1405,00	42,15		1,09
22	1,00	3,00	15,00	2,00	,15	1,98	5,30	1290,50	38,71	,09	1,10
23	1,00	1,00	15,00	3,00	,16	1,57	4,20	871,10	26,13	,18	1,00
24	1,00	2,00	15,00	3,00	,30	1,36	4,60	1035,00	31,05		,94

	kadarant	tebal_1	berat_1	kadaai_1	elonga_1	tensil_1	wvtr_1
1							,14
2	1,39	,21	2,17	5,50	1080,80	32,42	,14
3	1,40	,22	1,70	5,80	1076,00	32,28	,19
4		,20	1,67	4,68	1023,90	30,72	,14
5		,20	1,67	4,68	1023,90	30,72	,14
6	1,14	,19	,66	2,20	707,30	21,22	,09
7		,19	1,62	4,27	1015,70	30,47	,14
8	1,38	,17	2,15	5,20	1231,50	36,94	,14
9	1,32	,16	1,95	3,90	1048,00	31,44	,14
10	1,19	,18	2,36	2,50	707,30	21,22	,15
11	1,41	,23	1,92	6,30	1703,10	51,09	,14
12	1,39	,21	1,72	5,50	897,30	26,92	,27
13	1,37	,21	1,76	4,80	1431,10	42,93	,14
14		,22	1,59	4,63	898,52	26,85	,14
15	1,29	,18	1,19	3,50	489,60	14,29	,19
16	1,36	,30	1,69	4,70	776,10	23,28	,14
17	1,31	,18	1,81	3,70	1205,60	36,17	,14
18	1,34	,19	1,96	4,30	1254,30	37,63	,14
19	1,33	,17	2,15	4,00	520,00	15,62	,16
20	1,39	,24	2,55	5,60	1391,80	41,75	,14
21	1,37	,18	1,90	5,00	1405,00	42,15	,14
22	1,38	,15	1,98	5,30	1290,50	38,71	,09
23	1,34	,16	1,57	4,20	871,10	26,13	,18
24	1,36	,30	1,36	4,60	1035,00	31,05	,14



	wadah	ulangan	mikro	gula	tebal	berat	kadaair	elongasi	tensile	wvtr	berat
25	1,00	3,00	15,00	3,00	,17	1,49	3,70	1025,10	30,75		,98
26	1,00	1,00	15,00	4,00	,20	2,36	4,70	109,00	17,54	,19	1,17
27	1,00	2,00	15,00	4,00	,20	2,27	5,40	86,00	25,93		1,16
28	1,00	3,00	15,00	4,00	,30	2,66	2,80	59,50	32,81		1,21
29	2,00	1,00	5,00	2,00	,18	1,38	3,00	255,00	7,66		,94
30	2,00	2,00	5,00	2,00	,21	2,34	3,20	1447,00	43,43		1,17
31	2,00	3,00	5,00	2,00	,17	1,51	2,70	2291,00	6,87	,31	,99
32	2,00	1,00	5,00	3,00	,18	2,31	5,10				1,16
33	2,00	2,00	5,00	3,00	,13	3,91	2,30	1234,60	33,29	,11	1,32
34	2,00	3,00	5,00	3,00	,20	3,32	2,30				1,28
35	2,00	1,00	5,00	4,00	,17	1,07	2,80	943,00	28,30		,82
36	2,00	2,00	5,00	4,00	,20	,71	3,20	570,00	17,10	,07	,62
37	2,00	3,00	5,00	4,00	,20	2,76	4,10	1790,00	53,84		1,22
38	2,00	1,00	10,00	2,00							
39	2,00	2,00	10,00	2,00	,15	1,87	3,20	943,00	28,30	,03	1,08
40	2,00	3,00	10,00	2,00	,13	2,26	2,30	933,00	27,90		1,15
41	2,00	1,00	10,00	3,00	,15	2,53	2,80				1,19
42	2,00	2,00	10,00	3,00	,17	3,45	2,70	299,00	37,04	,07	1,29
43	2,00	3,00	10,00	3,00	,21	3,95	3,20				1,32
44	2,00	1,00	10,00	4,00	,20	2,25	2,50	933,00	31,64		1,15
45	2,00	2,00	10,00	4,00	,14	,44	2,20	825,00	24,76	,12	,41
46	2,00	3,00	10,00	4,00	,16	1,50	2,30				,98
47	2,00	1,00	15,00	2,00	,14	,96	2,10	825,00	24,76		,76
48	2,00	2,00	15,00	2,00	,18	1,50	3,00	458,60	13,76		,98

kabeh data

	kadarart	tebal_1	berat_1	kadaai_1	elonga_1	tensil_1	wvtr_1
25	1,31	,17	1,49	3,70	1025,10	30,75	,14
26	1,36	,20	2,36	4,70	109,00	17,54	,19
27	1,39	,20	2,27	5,40	86,00	25,93	,14
28	1,23	,30	2,66	2,80	59,50	32,81	,14
29	1,25	,18	1,38	3,00	255,00	7,66	,14
30	1,27	,21	2,34	3,20	1447,00	43,43	,14
31	1,22	,17	1,51	2,70	2291,00	6,87	,31
32	1,38	,18	2,31	5,10	1478,90	27,97	,14
33	1,16	,13	3,91	2,30	1234,60	33,29	,11
34	1,16	,20	3,32	2,30	1259,65	21,39	,14
35	1,23	,17	1,07	2,80	943,00	28,30	,14
36	1,27	,20	,71	3,20	570,00	17,10	,07
37	1,33	,20	2,76	4,10	1790,00	53,84	,14
38		,17	1,90	3,20	1059,00	31,78	,14
39	1,27	,15	1,87	3,20	943,00	28,30	,03
40	1,16	,13	2,26	2,30	933,00	27,90	,14
41	1,23	,15	2,53	2,80	777,00	31,22	,14
42	1,22	,17	3,45	2,70	299,00	37,04	,07
43	1,27	,21	3,95	3,20	747,50	30,34	,14
44	1,19	,20	2,25	2,50	933,00	31,64	,14
45	1,14	,14	,44	2,20	825,00	24,76	,12
46	1,16	,16	1,50	2,30	760,40	23,73	,14
47	1,13	,14	,96	2,10	825,00	24,76	,14
48	1,25	,18	1,50	3,00	458,60	13,76	,14

	wadah	ulangan	mikro	gula	tebal	berat	kadaair	elongasi	tensile	wvtr	berat
49	2,00	3,00	15,00	2,00	,23	5,81	3,20	1742,00	52,27	,05	1,40
50	2,00	1,00	15,00	3,00							
51	2,00	2,00	15,00	3,00	,28	7,08	6,30	1234,60	13,76	,17	1,43
52	2,00	3,00	15,00	3,00							
53	2,00	1,00	15,00	4,00							
54	2,00	2,00	15,00	4,00	,26	6,81	3,70	2515,00	75,46	,16	1,42
55	2,00	3,00	15,00	4,00	,28	3,23	5,20	1080,00	32,42		1,27
56											





	kadarart	tebal_1	berat_1	kadaai_1	elonga_1	tensil_1	wvtr_1
49	1,27	,23	5,81	3,20	1742,00	52,27	,05
50	.	,24	5,30	4,05	1487,55	38,81	,14
51	1,41	,28	7,08	6,30	1234,60	13,76	,17
52	.	,26	5,73	4,60	1642,90	43,48	,14
53	.	,26	5,73	4,60	1642,90	43,48	,14
54	1,31	,26	6,81	3,70	2515,00	75,46	,16
55	1,38	,28	3,23	5,20	1080,00	32,42	,14
56	.	.	.	.	.	.	,14

