Perpustakaan Unika

LAMPIRAN 1

Standar Nasional Indonesia (SNI 01-3710-1995)

Tabel Syarat Mutu Buah Kering

NO.	KRITERIA UJI	SATUAN	PERSYARATAN
1.	Keadaan :		
1.1.	Penampakan	-	Normal
1.2.	Bau	-	Normal
1.3.	Rasa	-	Normal
2.	Air	% b/b	Maks. 31
3.	Bahan tambahan makanan :		
3.1.	Pemanis buatan (sakarin, siklamat)	-	Negatif
3.2.	Pewarna	sesuai SNI 01-0222-1987	
3.3.	Pengawet	sesuai SNI 01-0222-1987	
4.	Cemaran logam :		
4.1.	Timbal (Pb)	mg/kg	Maks. 2,0
4.2.	Tembaga (Cu)	mg/kg	Maks. 5,0
4.3.	Seng (Zn)	mg/kg	Maks. 40,0
4.4.	Timah (Sn)	mg/kg	Maks. 40,0/251**
4.5.	Raksa (Hg)	mg/kg	Maks. 0,03
5.	Cemaran Arsen (As)	mg/kg	Maks. 1,0
6.	Cemaran mikrobia :		
6.1.	E. coli	APM/g	< 3

** Khusus untuk produk yang dikemas dalam kaleng

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LAMPIRAN 2

LEMBAR KUISIONER

Dihadapan saudara terdapat 12 jenis manisan nanas. Saudara diminta memberi penilaian berdasarkan tingkat kesukaan saudara dengan range nilai yang telah tersedia. Atas kerja sama saudara, saya ucapkan terima kasih.

Kriteria	235	248	255	305	332	375
Warna						
Aroma						
Rasa						
Tekstur						
Overall						

Kriteria	418	422	455	536	542	599
Warna						
Aroma						
Rasa						
Tekstur						
Overall						

Range Nilai :

1 : Tidak Suka

2 : Agak Suka

3 : Suka

4 : Sangat Suka

5 : Sangat Suka Sekali

GOD BLESS YOU

Perpustakaan Unika

LAMPIRAN 3

Nonlinear Regression Analysis

[DataSet1] H:\laju pengeringan\laju 0 jam 1cm.sav

Iteration History[b]

Iteration Number[a]	Residual Sum of Squares	Parameter	
		a	b
1.0	21999.411	1.000	-.010
1.1	18214.956	75.063	-3.142
2.0	18214.956	75.063	-3.142
2.1	6.0E+020	68.343	1.231
2.2	18166.411	71.499	-2.907
3.0	18166.411	71.499	-2.907
3.1	18020.748	69.050	-2.029
4.0	18020.748	69.050	-2.029
4.1	6272.050	69.007	-.192
5.0	6272.050	69.007	-.192
5.1	188962.55	64.739	.096
5.2	4688.099	69.803	-.160
6.0	4688.099	69.803	-.160
6.1	2022.195	71.571	-.112
7.0	2022.195	71.571	-.112
7.1	663.288	73.858	-.048
8.0	663.288	73.858	-.048
8.1	348.708	76.496	-.067
9.0	348.708	76.496	-.067
9.1	348.012	76.049	-.067
10.0	348.012	76.049	-.067
10.1	348.012	76.051	-.067
11.0	348.012	76.051	-.067
11.1	348.012	76.051	-.067

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 24 model evaluations and 11 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1.00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	76.051	5.194	63.768	88.334
b	-.067	.010	-.091	-.042

Correlations of Parameter Estimates

	a	b
a	1.000	-.725
b	-.725	1.000

ANOVA[a]

Source	Sum of Squares	df	Mean Squares
Regression	22440.535	2	11220.267
Residual	348.012	7	49.716
Uncorrected Total	22788.547	9	
Corrected Total	2914.126	8	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = .881.

Perpustakaan Unika

Nonlinear Regression Analysis

[DataSet2] H:\laju pengeringan\laju 0jam, 2cm.sav

Iteration History [b]

Iteration Number [a]	Residual Sum of Squares	Parameter	
		a	b
1.0	30218.395	1.000	-.010
1.1	25236.307	83.422	-3.082
2.0	25236.307	83.422	-3.082
2.1	6.2E+019	77.811	.921
2.2	25189.113	80.090	-2.804
3.0	25189.113	80.090	-2.804
3.1	25003.387	78.382	-1.989
4.0	25003.387	78.382	-1.989
4.1	15828.937	78.531	-.330
5.0	15828.937	78.531	-.330
5.1	3.5E+011	66.273	.450
5.2	12908.356	79.010	-.254
6.0	12908.356	79.010	-.254
6.1	6708.188	80.130	-.153
7.0	6708.188	80.130	-.153
7.1	417.588	82.951	-.058
8.0	417.588	82.951	-.058
8.1	387.460	86.106	-.064
9.0	387.460	86.106	-.064
9.1	387.241	85.868	-.064
10.0	387.241	85.868	-.064
10.1	387.239	85.893	-.064
11.0	387.239	85.893	-.064
11.1	387.239	85.891	-.064
12.0	387.239	85.891	-.064
12.1	387.239	85.891	-.064

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 26 model evaluations and 12 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1.00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	85.891	4.616	75.449	96.333
b	-.064	.007	-.080	-.048

Correlations of Parameter Estimates

	a	b
a	1.000	-.719
b	-.719	1.000

ANOVA[a]

Source	Sum of Squares	df	Mean Squares
Regression	30823.496	2	15411.748
Residual	387.239	9	43.027
Uncorrected Total	31210.735	11	
Corrected Total	4912.315	10	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = .921.

Perpustakaan Unika

Nonlinear Regression Analysis

[DataSet3] H:\laju pengeringan\laju 0jam, 3cm.sav

Iteration History[b]

Iteration Number[a]	Residual Sum of Squares	Parameter	
		a	b
1.0	30108.558	1.000	-.010
1.1	24689.086	84.901	-3.269
2.0	24689.086	84.901	-3.269
2.1	2.3E+022	80.225	1.187
2.2	24651.099	81.792	-2.938
3.0	24651.099	81.792	-2.938
3.1	24467.274	80.599	-2.034
4.0	24467.274	80.599	-2.034
4.1	9873.742	80.869	-.211
5.0	9873.742	80.869	-.211
5.1	1468035.7	73.078	.136
5.2	7596.282	81.623	-.175
6.0	7596.282	81.623	-.175
6.1	3512.680	83.287	-.121
7.0	3512.680	83.287	-.121
7.1	426.590	86.134	-.055
8.0	426.590	86.134	-.055
8.1	286.370	87.343	-.065
9.0	286.370	87.343	-.065
9.1	286.228	87.101	-.065
10.0	286.228	87.101	-.065
10.1	286.228	87.106	-.065
11.0	286.228	87.106	-.065
11.1	286.228	87.105	-.065

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 24 model evaluations and 11 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1.00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	87.105	4.296	77.199	97.012
b	-.065	.007	-.081	-.049

Correlations of Parameter Estimates

	a	b
a	1.000	-.723
b	-.723	1.000

ANOVA[a]

Source	Sum of Squares	df	Mean Squares
Regression	30784.433	2	15392.217
Residual	286.228	8	35.778
Uncorrected Total	31070.661	10	
Corrected Total	4185.399	9	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = .932.

Perpustakaan Unika

Nonlinear Regression Analysis

[DataSet6] H:\laju pengeringan\laju 12jam, 1cm.sav

Iteration History [b]

Iteration Number [a]	Residual Sum of Squares	Parameter	
		a	b
1.0	22517.282	1.000	-.010
1.1	18837.272	68.489	-2.142
2.0	18837.272	68.489	-2.142
2.1	1.6E+022	67.658	1.067
2.2	18728.859	68.242	-1.821
3.0	18728.859	68.242	-1.821
3.1	18110.538	68.239	-1.178
4.0	18110.538	68.239	-1.178
4.1	1287072.8	68.765	.120
4.2	17842.382	68.315	-1.048
5.0	17842.382	68.315	-1.048
5.1	16942.253	68.474	-.778
6.0	16942.253	68.474	-.778
6.1	9713.219	68.756	-.240
7.0	9713.219	68.756	-.240
7.1	487.999	70.114	-.069
8.0	487.999	70.114	-.069
8.1	163.911	69.178	-.049
9.0	163.911	69.178	-.049
9.1	152.503	69.993	-.053
10.0	152.503	69.993	-.053
10.1	152.484	69.911	-.052
11.0	152.484	69.911	-.052
11.1	152.484	69.916	-.053
12.0	152.484	69.916	-.053
12.1	152.484	69.915	-.053

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 26 model evaluations and 12 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1.00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	69.915	2.805	63.571	76.260
b	-.053	.005	-.063	-.042

Correlations of Parameter Estimates

	a	b
a	1.000	-.740
b	-.740	1.000

ANOVA[a]

Source	Sum of Squares	df	Mean Squares
Regression	23242.993	2	11621.497
Residual	152.484	9	16.943
Uncorrected Total	23395.478	11	
Corrected Total	2547.655	10	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = .940.

Perpustakaan Unika

Nonlinear Regression Analysis

[DataSet7] H:\laju pengeringan\laju 12jam, 2cm.sav

Iteration History [b]

Iteration Number [a]	Residual Sum of Squares	Parameter	
		a	b
1.0	27390.169	1.000	-.010
1.1	23633.375	70.557	-1.806
2.0	23633.375	70.557	-1.806
2.1	2.5E+026	69.317	1.189
2.2	23424.862	70.322	-1.506
3.0	23424.862	70.322	-1.506
3.1	22272.367	70.311	-.906
4.0	22272.367	70.311	-.906
4.1	8.3E+010	70.686	.372
4.2	21774.259	70.383	-.786
5.0	21774.259	70.383	-.786
5.1	20092.883	70.523	-.546
6.0	20092.883	70.523	-.546
6.1	13738.928	70.883	-.241
7.0	13738.928	70.883	-.241
7.1	1878.123	72.074	-.075
8.0	1878.123	72.074	-.075
8.1	547.042	68.676	-.030
9.0	547.042	68.676	-.030
9.1	201.718	71.545	-.043
10.0	201.718	71.545	-.043
10.1	201.078	71.371	-.043
11.0	201.078	71.371	-.043
11.1	201.078	71.361	-.043
12.0	201.078	71.361	-.043
12.1	201.078	71.362	-.043
13.0	201.078	71.362	-.043
13.1	201.078	71.362	-.043

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 28 model evaluations and 13 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1.00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	71.362	2.903	64.892	77.831
b	-.043	.004	-.052	-.033

Correlations of Parameter Estimates

	a	b
a	1.000	-.754
b	-.754	1.000

ANOVA[a]

Source	Sum of Squares	df	Mean Squares
Regression	28200.384	2	14100.192
Residual	201.078	10	20.108
Uncorrected Total	28401.461	12	
Corrected Total	2585.426	11	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = .922.

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Nonlinear Regression Analysis

[DataSet8] H:\laju pengeringan\laju 12jam, 3cm.sav

Iteration History[b]

Iteration Number[a]	Residual Sum of Squares	Parameter	
		a	b
1.0	18940.619	1.000	-.010
1.1	14858.121	66.950	-2.529
2.0	14858.121	66.950	-2.529
2.1	6.2E+018	69.296	.966
2.2	14795.346	68.007	-2.179
3.0	14795.346	68.007	-2.179
3.1	14398.363	68.827	-1.450
4.0	14398.363	68.827	-1.450
4.1	26282.495	69.701	.022
4.2	14216.542	68.940	-1.302
5.0	14216.542	68.940	-1.302
5.1	13615.169	69.149	-1.006
6.0	13615.169	69.149	-1.006
6.1	9466.244	69.520	-.397
7.0	9466.244	69.520	-.397
7.1	4848.430	70.747	-.018
8.0	4848.430	70.747	-.018
8.1	359.286	67.906	-.051
9.0	359.286	67.906	-.051
9.1	139.274	70.456	-.067
10.0	139.274	70.456	-.067
10.1	137.307	70.870	-.069
11.0	137.307	70.870	-.069
11.1	137.305	70.889	-.069
12.0	137.305	70.889	-.069
12.1	137.305	70.889	-.069

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 26 model evaluations and 12 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1.00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	70.889	3.006	63.958	77.820
b	-.069	.006	-.083	-.055

Correlations of Parameter Estimates

	a	b
a	1.000	-.716
b	-.716	1.000

ANOVA[a]

Source	Sum of Squares	df	Mean Squares
Regression	19567.388	2	9783.694
Residual	137.305	8	17.163
Uncorrected Total	19704.693	10	
Corrected Total	2647.793	9	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = .948.

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Nonlinear Regression Analysis

[DataSet10] H:\laju pengeringan\laju 24jam, 1cm.sav

Iteration History[b]

Iteration Number [a]	Residual Sum of Squares	Parameter	
		a	b
1.0	18159,483	1,000	-,010
1.1	14525,418	68,882	-2,854
2.0	14525,418	68,882	-2,854
2.1	1.9E+023	66,113	1,614
2.2	14478,387	67,357	-2,407
3.0	14478,387	67,357	-2,407
3.1	14066,601	66,771	-1,436
4.0	14066,601	66,771	-1,436
4.1	9.8E+009	67,148	,516
4.2	13828,828	66,829	-1,240
5.0	13828,828	66,829	-1,240
5.1	12871,193	66,956	-,844
6.0	12871,193	66,956	-,844
6.1	5124,926	67,251	-,212
7.0	5124,926	67,251	-,212
7.1	212,731	69,335	-,072
8.0	212,731	69,335	-,072
8.1	161,364	69,482	-,063
9.0	161,364	69,482	-,063
9.1	160,903	69,733	-,064
10.0	160,903	69,733	-,064
10.1	160,901	69,707	-,064
11.0	160,901	69,707	-,064
11.1	160,901	69,709	-,064
12.0	160,901	69,709	-,064
12.1	160,901	69,708	-,064

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 26 model evaluations and 12 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1,00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	69,708	3,888	60,195	79,222
b	-,064	,009	-,087	-,042

Correlations of Parameter Estimates

	a	b
a	1,000	-,734
b	-,734	1,000

ANOVA[a]

Source	Sum of Squares	df	Mean Squares
Regression	18692,337	2	9346,169
Residual	160,901	6	26,817
Uncorrected Total	18853,238	8	
Corrected Total	1728,711	7	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = ,907.

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Nonlinear Regression Analysis

[DataSet11] H:\laju pengeringan\laju 24jam, 2cm.sav

Iteration History[b]

Iteration Number[a]	Residual Sum of Squares	Parameter	
		a	b
1.0	21940,283	1,000	-,010
1.1	17971,826	70,313	-2,487
2.0	17971,826	70,313	-2,487
2.1	4.2E+018	69,535	,859
2.2	17911,439	69,966	-2,152
3.0	17911,439	69,966	-2,152
3.1	17557,407	69,919	-1,480
4.0	17557,407	69,919	-1,480
4.1	3537,602	70,461	-,134
5.0	3537,602	70,461	-,134
5.1	6817,080	67,479	-,008
5.2	268,994	72,679	-,072
6.0	268,994	72,679	-,072
6.1	137,437	72,670	-,061
7.0	137,437	72,670	-,061
7.1	135,582	73,038	-,062
8.0	135,582	73,038	-,062
8.1	135,579	73,006	-,062
9.0	135,579	73,006	-,062
9.1	135,579	73,008	-,062
10.0	135,579	73,008	-,062
10.1	135,579	73,008	-,062

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 22 model evaluations and 10 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1,00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	73,008	2,719	66,856	79,159
b	-,062	,005	-,073	-,051

Correlations of Parameter Estimates

	a	b
a	1,000	-,722
b	-,722	1,000

ANOVA[a]

Source	Sum of Squares	df	Mean Squares
Regression	22658,421	2	11329,210
Residual	135,579	9	15,064
Uncorrected Total	22794,000	11	
Corrected Total	3213,199	10	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = ,958.

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Nonlinear Regression Analysis

[DataSet12] H:\laju pengeringan\laju 24jam, 3cm.sav

Iteration History[b]

Iteration Number[a]	Residual Sum of Squares	Parameter	
		a	b
1.0	21804,135	1,000	-,010
1.1	17643,715	68,295	-2,267
2.0	17643,715	68,295	-2,267
2.1	3.0E+017	70,521	,719
2.2	17559,017	69,151	-1,968
3.0	17559,017	69,151	-1,968
3.1	17106,457	69,975	-1,354
4.0	17106,457	69,975	-1,354
4.1	2305,325	70,968	-,115
5.0	2305,325	70,968	-,115
5.1	1249,181	70,037	-,036
6.0	1249,181	70,037	-,036
6.1	67,900	71,595	-,057
7.0	67,900	71,595	-,057
7.1	41,756	72,601	-,062
8.0	41,756	72,601	-,062
8.1	41,732	72,639	-,063
9.0	41,732	72,639	-,063
9.1	41,732	72,639	-,063

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 19 model evaluations and 9 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1,00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	72,639	1,411	69,495	75,783
b	-,063	,002	-,068	-,057

Correlations of Parameter Estimates

	a	b
a	1,000	-,715
b	-,715	1,000

ANOVA[a]

Source	Sum of Squares	df	Mean Squares
Regression	22639,633	2	11319,817
Residual	41,732	10	4,173
Uncorrected Total	22681,365	12	
Corrected Total	3474,965	11	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = ,988.

Perpustakaan Unika

Nonlinear Regression Analysis

[DataSet1] C:\DONNA\laju pengeringan\laju 72jam,1cm.sav

Iteration History[b]

Iteration Number[a]	Residual Sum of Squares	Parameter	
		a	b
1.0	13851,852	1,000	-,010
1.1	10441,379	62,956	-2,997
2.0	10441,379	62,956	-2,997
2.1	3.7E+017	63,287	1,148
2.2	10418,001	63,169	-2,582
3.0	10418,001	63,169	-2,582
3.1	10239,904	63,352	-1,751
4.0	10239,904	63,352	-1,751
4.1	134,224	63,819	-,089
5.0	134,224	63,819	-,089
5.1	71,283	64,974	-,078
6.0	71,283	64,974	-,078
6.1	70,901	65,120	-,079
7.0	70,901	65,120	-,079
7.1	70,901	65,109	-,079
8.0	70,901	65,109	-,079
8.1	70,901	65,110	-,079

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 17 model evaluations and 8 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1,00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	65,110	2,654	58,616	71,603
b	-,079	,007	-,097	-,061

Correlations of Parameter Estimates

	a	b
a	1,000	-,711
b	-,711	1,000

ANOVA[a]

Source	Sum of Squares	df	Mean Squares
Regression	14378,822	2	7189,411
Residual	70,901	6	11,817
Uncorrected Total	14449,723	8	
Corrected Total	1755,902	7	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = ,960.

Perpustakaan Unika

Nonlinear Regression Analysis

[DataSet14] H:\laju pengeringan\laju 72jam, 2cm.sav

Iteration History[b]

Iteration Number[a]	Residual Sum of Squares	Parameter	
		a	b
1.0	17742,542	1,000	-,010
1.1	14103,251	68,250	-2,837
2.0	14103,251	68,250	-2,837
2.1	9.7E+022	66,030	1,591
2.2	14057,577	67,052	-2,395
3.0	14057,577	67,052	-2,395
3.1	13667,118	66,615	-1,460
4.0	13667,118	66,615	-1,460
4.1	6.4E+008	67,008	,417
4.2	13450,272	66,673	-1,272
5.0	13450,272	66,673	-1,272
5.1	12613,195	66,798	-,892
6.0	12613,195	66,798	-,892
6.1	4954,956	67,063	-,215
7.0	4954,956	67,063	-,215
7.1	211,225	69,109	-,078
8.0	211,225	69,109	-,078
8.1	101,569	68,990	-,063
9.0	101,569	68,990	-,063
9.1	100,033	69,360	-,065
10.0	100,033	69,360	-,065
10.1	100,029	69,324	-,065
11.0	100,029	69,324	-,065
11.1	100,029	69,326	-,065
12.0	100,029	69,326	-,065
12.1	100,029	69,326	-,065

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 26 model evaluations and 12 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1,00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	69,326	3,071	61,811	76,841
b	-,065	,007	-,083	-,047

Correlations of Parameter Estimates

	a	b
a	1,000	-,733
b	-,733	1,000

ANOVA[a]

Source	Sum of Squares	df	Mean Squares
Regression	18328,971	2	9164,485
Residual	100,029	6	16,672
Uncorrected Total	18429,000	8	
Corrected Total	1660,701	7	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = ,940.

Perpustakaan Unika

Nonlinear Regression Analysis

[DataSet3] C:\DONNA\laju pengeringan\laju 72jam, 3cm.sav

Iteration History [b]

Iteration Number [a]	Residual Sum of Squares	Parameter	
		a	b
1.0	20903,052	1,000	-,010
1.1	17331,811	70,433	-2,581
2.0	17331,811	70,433	-2,581
2.1	7.8E+023	66,655	1,457
2.2	17266,959	68,838	-2,217
3.0	17266,959	68,838	-2,217
3.1	16840,652	67,912	-1,409
4.0	16840,652	67,912	-1,409
4.1	9390421.1	68,101	,223
4.2	16628,817	67,950	-1,246
5.0	16628,817	67,950	-1,246
5.1	15867,910	68,047	-,915
6.0	15867,910	68,047	-,915
6.1	8471,377	68,262	-,253
7.0	8471,377	68,262	-,253
7.1	557,920	69,855	-,077
8.0	557,920	69,855	-,077
8.1	191,954	70,377	-,053
9.0	191,954	70,377	-,053
9.1	176,436	71,346	-,058
10.0	176,436	71,346	-,058
10.1	176,395	71,214	-,058
11.0	176,395	71,214	-,058
11.1	176,394	71,223	-,058
12.0	176,394	71,223	-,058
12.1	176,394	71,222	-,058
13.0	176,394	71,222	-,058
13.1	176,394	71,223	-,058

Derivatives are calculated numerically.

a. Major iteration number is displayed to the left of the decimal, and minor iteration number is to the right of the decimal.

b. Run stopped after 28 model evaluations and 13 derivative evaluations because the relative reduction between successive residual sums of squares is at most SSCON = 1,00E-008.

Parameter Estimates

Parameter	Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
a	71,223	3,623	62,654	79,791
b	-,058	,007	-,075	-,040

Correlations of Parameter Estimates

	a	b
a	1,000	-,740
b	-,740	1,000

ANOVA [a]

Source	Sum of Squares	df	Mean Squares
Regression	21509,035	2	10754,517
Residual	176,394	7	25,199
Uncorrected Total	21685,429	9	
Corrected Total	2035,931	8	

Dependent variable: y

a. R squared = 1 - (Residual Sum of Squares) / (Corrected Sum of Squares) = ,913.

Perpustakaan Unika

LAMPIRAN 4

Uji Normalitas Manisan Nanas Kering

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perendaman	Statistic	df	Sig.	Statistic	df	Sig.
Kadar_Air	0 jam	,173	9	,200*	,949	9	,677
	12 jam	,166	9	,200*	,964	9	,843
	24 jam	,196	9	,200*	,902	9	,263
	72 jam	,149	9	,200*	,960	9	,803
Kadar_Abu	0 jam	,208	9	,200*	,878	9	,151
	12 jam	,209	9	,200*	,853	9	,081
	24 jam	,175	9	,200*	,911	9	,320
	72 jam	,212	9	,200*	,884	9	,174
Vitamin_C	0 jam	,300	9	,019	,846	9	,067
	12 jam	,259	9	,083	,845	9	,065
	24 jam	,222	9	,200*	,838	9	,055
	72 jam	,191	9	,200*	,917	9	,365
Kadar_Sukrosa	0 jam	,147	9	,200*	,983	9	,979
	12 jam	,152	9	,200*	,948	9	,664
	24 jam	,179	9	,200*	,926	9	,441
	72 jam	,150	9	,200*	,937	9	,549
Hardness	0 jam	,188	9	,200*	,895	9	,224
	12 jam	,184	9	,200*	,895	9	,224
	24 jam	,227	9	,199	,905	9	,285
	72 jam	,223	9	,200*	,910	9	,318
Chewiness	0 jam	,275	9	,049	,837	9	,054
	12 jam	,184	9	,200*	,901	9	,260
	24 jam	,182	9	,200*	,898	9	,238
	72 jam	,190	9	,200*	,894	9	,218

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

a. Lilliefors Significance Correction

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Ketebalan	Statistic	df	Sig.	Statistic	df	Sig.
Kadar_Air	1 cm	,144	12	,200*	,971	12	,925
	2 cm	,248	12	,041	,885	12	,102
	3 cm	,119	12	,200*	,962	12	,815
Kadar_Abu	1 cm	,219	12	,115	,881	12	,090
	2 cm	,232	12	,075	,837	12	,025
	3 cm	,239	12	,057	,825	12	,018
Vitamin_C	1 cm	,233	12	,072	,887	12	,109
	2 cm	,201	12	,193	,905	12	,181
	3 cm	,221	12	,109	,901	12	,164
Kadar_Sukrosa	1 cm	,112	12	,200*	,983	12	,992
	2 cm	,144	12	,200*	,969	12	,897
	3 cm	,176	12	,200*	,945	12	,562
Hardness	1 cm	,245	12	,045	,881	12	,090
	2 cm	,187	12	,200*	,939	12	,484
	3 cm	,236	12	,063	,805	12	,011
Chewiness	1 cm	,242	12	,051	,723	12	,001
	2 cm	,186	12	,200*	,892	12	,126
	3 cm	,208	12	,159	,873	12	,071

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

a. Lilliefors Significance Correction

Perpustakaan Unika

LAMPIRAN 5

Uji Diskriptif Two Way

* Kadar Air Manisan Nanas Kering

Descriptive Statistics

Dependent Variable: Kadar_Air

Perendaman	Ketebalan	Mean	Std. Deviation	N
0 jam	1 cm	19.4767	.37608	3
	2 cm	19.9533	.44298	3
	3 cm	20.1933	.38175	3
	Total	19.8744	.46974	9
12 jam	1 cm	20.1467	.44298	3
	2 cm	20.1967	.87460	3
	3 cm	20.2933	1.01894	3
	Total	20.2122	.70994	9
24 jam	1 cm	20.2400	.68242	3
	2 cm	20.4833	.90473	3
	3 cm	20.7300	1.02825	3
	Total	20.4844	.79398	9
72 jam	1 cm	20.6300	.38743	3
	2 cm	20.7733	.14503	3
	3 cm	20.9200	.44000	3
	Total	20.7744	.32704	9
Total	1 cm	20.1233	.60106	12
	2 cm	20.3517	.65609	12
	3 cm	20.5342	.73571	12
	Total	20.3364	.66932	36

* Kadar Abu Manisan Nanas Kering

Descriptive Statistics

Dependent Variable: Kadar_Abu

Perendaman	Ketebalan	Mean	Std. Deviation	N
0 jam	1 cm	5.5000	.20000	3
	2 cm	4.7667	.41633	3
	3 cm	3.2000	.17321	3
	Total	4.4889	1.04695	9
12 jam	1 cm	3.4000	.10000	3
	2 cm	1.7667	.28868	3
	3 cm	.9333	.11547	3
	Total	2.0333	1.09886	9
24 jam	1 cm	2.8667	.11547	3
	2 cm	2.4000	.17321	3
	3 cm	1.7000	.10000	3
	Total	2.3222	.52148	9
72 jam	1 cm	1.8000	.10000	3
	2 cm	1.2000	.17321	3
	3 cm	1.2667	.05774	3
	Total	1.4222	.30322	9
Total	1 cm	3.3917	1.41129	12
	2 cm	2.5333	1.43801	12
	3 cm	1.7750	.91067	12
	Total	2.5667	1.40895	36

Perpustakaan Unika

* Kadar Vitamin C Manisan Nanas Kering

Descriptive Statistics

Dependent Variable: Vitamin_C

Perendaman	Ketebalan	Mean	Std. Deviation	N
0 jam	1 cm	22.9567	1.01614	3
	2 cm	21.7833	2.03227	3
	3 cm	24.4233	.50807	3
	Total	23.0544	1.63321	9
12 jam	1 cm	17.6700	1.02191	3
	2 cm	17.6700	1.02191	3
	3 cm	21.1967	1.01614	3
	Total	18.8456	1.97221	9
24 jam	1 cm	15.9067	1.01614	3
	2 cm	18.2600	1.02191	3
	3 cm	16.4933	1.01614	3
	Total	16.8867	1.37941	9
72 jam	1 cm	14.1467	1.01614	3
	2 cm	15.9067	1.01614	3
	3 cm	17.6700	1.02191	3
	Total	15.9078	1.76209	9
Total	1 cm	17.6700	3.55093	12
	2 cm	18.4050	2.50727	12
	3 cm	19.9458	3.34216	12
	Total	18.6736	3.22090	36

* Kadar Sukrosa Manisan Nanas Kering

Descriptive Statistics

Dependent Variable: Kadar_Sukrosa

Perendaman	Ketebalan	Mean	Std. Deviation	N
0 jam	1 cm	79.7867	19.12820	3
	2 cm	68.4900	8.52741	3
	3 cm	44.2133	14.66490	3
	Total	64.1633	20.27856	9
12 jam	1 cm	98.3667	22.02644	3
	2 cm	93.9500	24.34611	3
	3 cm	90.6533	6.77809	3
	Total	94.3233	17.09368	9
24 jam	1 cm	89.3567	10.30756	3
	2 cm	67.1933	21.34690	3
	3 cm	75.1767	13.35552	3
	Total	77.2422	16.72061	9
72 jam	1 cm	85.6933	11.64546	3
	2 cm	56.4200	21.71946	3
	3 cm	43.6433	7.72118	3
	Total	61.9189	22.69997	9
Total	1 cm	88.3008	15.75669	12
	2 cm	71.5133	22.28493	12
	3 cm	63.4217	23.19411	12
	Total	74.4119	22.66307	36

Perpustakaan Unika

* *Hardness* Manisan Nanas Kering

Descriptive Statistics

Dependent Variable: Hardness

Perendaman	Ketebalan	Mean	Std. Deviation	N
0 jam	1 cm	3.8708	1.96574	3
	2 cm	9.0035	2.68193	3
	3 cm	9.5499	2.87233	3
	Total	7.4747	3.49123	9
12 jam	1 cm	1.2043	.93636	3
	2 cm	4.0036	2.08254	3
	3 cm	4.2510	.50785	3
	Total	3.1530	1.87495	9
24 jam	1 cm	2.7789	2.43510	3
	2 cm	4.8486	1.35807	3
	3 cm	3.8974	1.46955	3
	Total	3.8416	1.81339	9
72 jam	1 cm	1.7175	.41976	3
	2 cm	4.5121	2.07393	3
	3 cm	3.4062	1.03795	3
	Total	3.2119	1.69538	9
Total	1 cm	2.3929	1.76584	12
	2 cm	5.5920	2.74675	12
	3 cm	5.2761	2.97918	12
	Total	4.4203	2.87606	36

* *Chewiness* Manisan Nanas Kering

Descriptive Statistics

Dependent Variable: Chewiness

Perendaman	Ketebalan	Mean	Std. Deviation	N
0 jam	1 cm	.9213	.46163	3
	2 cm	1.9107	2.00819	3
	3 cm	2.3183	1.17230	3
	Total	1.7168	1.33869	9
12 jam	1 cm	.3234	.54201	3
	2 cm	.3037	.39084	3
	3 cm	.7143	.40126	3
	Total	.4471	.43832	9
24 jam	1 cm	1.5182	1.86891	3
	2 cm	1.4887	1.25500	3
	3 cm	.7415	.88941	3
	Total	1.2494	1.26888	9
72 jam	1 cm	.2283	.14703	3
	2 cm	1.5308	.72642	3
	3 cm	.7753	.66789	3
	Total	.8448	.75477	9
Total	1 cm	.7478	1.01191	12
	2 cm	1.3085	1.24094	12
	3 cm	1.1373	1.00585	12
	Total	1.0645	1.08645	36

Perpustakaan Unika

LAMPIRAN 6

Uji Post Hoc Two Way Anova :

* Kadar Air Manisan Nanas Kering

Kadar_Air

Duncan[a,b]

Perendaman	N	Subset 1	Subset 2
0 jam	9	19.8744	
12 jam	9	20.2122	20.2122
24 jam	9	20.4844	20.4844
72 jam	9		20.7744
Sig.		.074	.098

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .432.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Kadar_Air

Duncan[a,b]

Ketebalan	N	Subset 1
1 cm	12	20.1233
2 cm	12	20.3517
3 cm	12	20.5342
Sig.		.160

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .432.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

* Kadar Abu Manisan Nanas Kering

Perpustakaan Unika

Kadar_Abu

Duncan[a,b]

Perendaman	N	Subset 1	2	3	4
72 jam	9	1.4222			
12 jam	9		2.0333		
24 jam	9			2.3222	
0 jam	9				4.4889
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .037.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

* Kadar Vitamin C Manisan Nanas Kering

Vitamin_C

Duncan[a,b]

Perendaman	N	Subset 1	2	3
72 jam	9	15.9078		
24 jam	9	16.8867		
12 jam	9		18.8456	
0 jam	9			23.0544
Sig.		.073	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 1.230.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Vitamin_C

Duncan[a,b]

Ketebalan	N	Subset 1	2
1 cm	12	17.6700	
2 cm	12	18.4050	
3 cm	12		19.9458
Sig.		.118	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 1.230.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

* Kadar Sukrosa Manisan Nanas Kering

Perpustakaan Unika

Kadar_Sukrosa

Duncan[a,b]

Perendaman	N	Subset 1	Subset 2
72 jam	9	61.9189	
0 jam	9	64.1633	
24 jam	9	77.2422	
12 jam	9		94.3233
Sig.		.070	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 265.398.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Kadar_Sukrosa

Duncan[a,b]

Ketebalan	N	Subset 1	Subset 2
3 cm	12	63.4217	
2 cm	12	71.5133	
1 cm	12		88.3008
Sig.		.236	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 265.398.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

* *Hardness* Manisan Nanas Kering

Hardness

Duncan[a,b]

Perendaman	N	Subset 1	Subset 2
12 jam	9	3.1530	
72 jam	9	3.2119	
24 jam	9	3.8416	
0 jam	9		7.4747
Sig.		.460	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 3.356.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Perpustakaan Unika

Hardness

Duncan[a,b]

Ketebalan	N	Subset 1	Subset 2
1 cm	12	2.3929	
3 cm	12		5.2761
2 cm	12		5.5920
Sig.		1.000	.677

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 3.356.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

- ***Chewiness* Manisan Nanas Kering**

Chewiness

Duncan[a,b]

Perendaman	N	Subset 1	Subset 2
12 jam	9	.4471	
72 jam	9	.8448	.8448
24 jam	9	1.2494	1.2494
0 jam	9		1.7168
Sig.		.136	.106

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 1.090.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Perpustakaan Unika

Chewiness

Duncan[a,b]

Ketebalan	N	Subset 1
1 cm	12	.7478
3 cm	12	1.1373
2 cm	12	1.3085
Sig.		.226

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 1.090.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

Perpustakaan Unika

LAMPIRAN 7

Berikut adalah waktu, suhu dalam dan suhu luar STD juga RH di dalam STD yang dicatat dari pengukuran dengan alat thermohigrometer selama penimbangan sampel guna menentukan laju pengeringan manisan nanas.

Pengambilan Ke-	Waktu Pengambilan	Suhu Dalam STD	Suhu Luar STD	RH
0	pukul 14.45 WIB	28.4 ºC	25.6 ºC	68 %
2	pukul 09.15 WIB	30 ºC	29.5 ºC	71 %
4	pukul 11.15 WIB	51.5 ºC	29.2 ºC	60 %
6	pukul 09.15 WIB	38.4 ºC	25.7 ºC	75 %
8	pukul 11.15 WIB	47.8 ºC	28 ºC	64 %
10	pukul 13.15 WIB	66.4 ºC	30.4 ºC	54 %
12	pukul 09.30 WIB	31 ºC	29.2 ºC	66 %
14	pukul 11.30 WIB	63 ºC	31.5 ºC	53 %
16	pukul 12.00 WIB	65.4 ºC	31.2 ºC	58 %
18	pukul 10.15 WIB	59.1 ºC	29.4 ºC	57 %
20	pukul 12.15 WIB	85 ºC	32 ºC	45 %
22	pukul 14.15 WIB	110 ºC	33.2 ºC	55 %