

Lampiran 1. Pengolahan Data Statistik Potensi Sianogenik Gembolo Berdasarkan Bagian Bahan dan Umur Simpan.

Between-Subjects Factors

		N
WAKTU	1.00	24
	2.00	24
	3.00	24
LOKASI	1.00	18
	2.00	18
	3.00	18
	4.00	18

Tests of Between-Subjects Effects

Dependent Variable: GEMBOLO

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.145 <sup>a</sup>	11	.013	3.955	.000
Intercept	437.685	1	437.685	131700.7	.000
WAKTU	.083	2	.041	12.425	.000
LOKASI	.029	3	.010	2.861	.044
WAKTU * LOKASI	.033	6	.006	1.679	.142
Error	.199	60	.003		
Total	438.029	72			
Corrected Total	.344	71			

a. R Squared = .420 (Adjusted R Squared = .314)

## Post Hoc Tests

### WAKTU

#### Homogeneous Subsets

##### GEMBOLO

Duncan<sup>a,b</sup>

WAKTU	N	Subset	
		1	2
1.00	24	2.4388	
2.00	24	2.4446	
3.00	24		2.5133
Sig.		.727	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .003.

a. Uses Harmonic Mean Sample Size = 24.000.

b. Alpha = .05.

### LOKASI

#### Homogeneous Subsets

##### GEMBOLO

Duncan<sup>a,b</sup>

LOKASI	N	Subset	
		1	2
2.00	18	2.4394	
1.00	18	2.4600	2.4600
3.00	18	2.4678	2.4678
4.00	18		2.4950
Sig.		.170	.090

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .003.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 2. Pengolahan Data Statistik Potensi Sianogenik Gembili Berdasarkan Bagian Bahan dan Umur Simpan.

**Between-Subjects Factors**

	N
WAKTU 1.00	24
2.00	24
3.00	24
LOKASI 1.00	18
2.00	18
3.00	18
4.00	18

**Tests of Between-Subjects Effects**

Dependent Variable: GEMBILI

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.211 <sup>a</sup>	11	.019	11.112	.000
Intercept	441.936	1	441.936	256525.5	.000
WAKTU	.043	2	.022	12.606	.000
LOKASI	.147	3	.049	28.362	.000
WAKTU * LOKASI	.021	6	.003	1.990	.081
Error	.103	60	.002		
Total	442.250	72			
Corrected Total	.314	71			

a. R Squared = .671 (Adjusted R Squared = .610)

## Post Hoc Tests

### WAKTU

#### Homogeneous Subsets

##### GEMBILI

Duncan<sup>a,b</sup>

WAKTU	N	Subset	
		1	2
1.00	24	2.4433	
2.00	24		2.4892
3.00	24		2.5000
Sig.		1.000	.370

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .002.

a. Uses Harmonic Mean Sample Size = 24.000.

b. Alpha = .05.

### LOKASI

#### Homogeneous Subsets

##### GEMBILI

Duncan<sup>a,b</sup>

LOKASI	N	Subset	
		1	2
2.00	18	2.4278	
1.00	18	2.4394	
3.00	18		2.5078
4.00	18		2.5350
Sig.		.402	.054

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .002.

a. Uses Harmonic Mean Sample Size = 18.000

b. Alpha = .05

### Lampiran 3. Pengolahan Statistik Data-data Konversi Sianogenik Metode Enzimatis dan Non Enzimatis.

## Non-linear Regression

All the derivatives will be calculated numerically.

-

Iteration	Residual SS	A	B	C
1	1546319.735	-1.0000000	-1.0000000	-1.0000000
1.1	16201.66317	-1.5069484	168.605242	8.67890971
2	16201.66317	-1.5069484	168.605242	8.67890971
2.1	16201.66317	-1.5069611	168.605350	8.67876657

Run stopped after 4 model evaluations and 2 derivative evaluations. Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SCON = 1.000E-08

#### Nonlinear Regression Summary Statistics

Dependent Variable UGM

Source	DF	Sum of Squares	Mean Square
Regression	3	1419846.25768	473282.08589
Residual	3	16201.66317	5400.55439
Uncorrected Total	6	1436047.92085	

(Corrected Total) 5 459825.56131

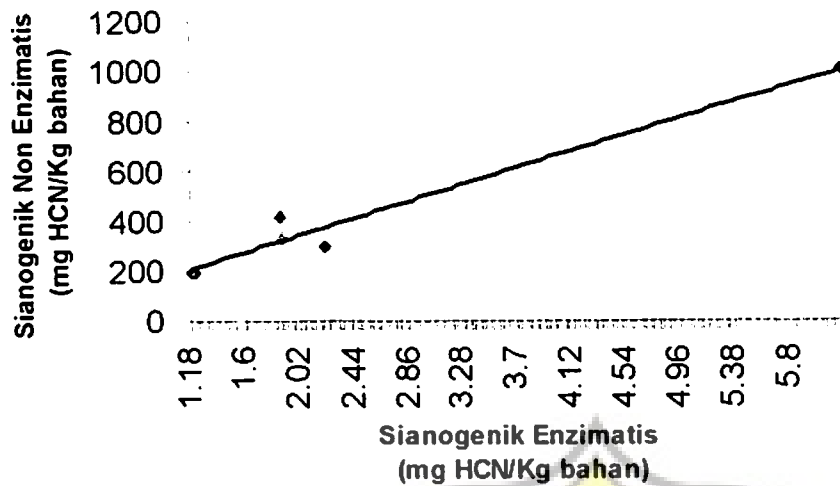
R squared = 1 - Residual SS / Corrected SS = .96477

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95% Confidence Interval	
			Lower	Upper
A	-1.506948373	18.207301154	-59.45070666	56.436809914
B	168.60524227	139.81150334	-276.3373600	613.54784452
C	8.678909708	182.03837515	-570.6484447	588.00626412

#### Asymptotic Correlation Matrix of the Parameter Estimates

	A	B	C
A	1.0000	-.9923	.9590
B	-.9923	1.0000	-.9802
C	.9590	-.9802	1.0000

Lampiran 4. Grafik Polinomial Konversi Sianogenik dan Data-data Hasil Konversi Sianogenik Enzimatis dan Non Enzimatis.



Waktu	Lokasi	UI	Pot.Sianogenik	Sianogen gembolo	pot.sianogen	Sianogen gembili
1	1	1	4.3022	706.1604	2.5962	436.2546
1	1	2	5.2027	845.0912	2.0874	354.0594
1	1	3	12.4858	823.21	2.6136	439.0518
1	1	4	13.1883	752.7	1.285	222.8483
1	1	5	3.3341	554.07	2.3557	397.4997
1	1	6	4.0591	668.24	2.2314	377.4013
1	2	1	4.8228	786.78	1.5362	264.1340
1	2	2	4.8183	786.08	1.3638	235.8199
1	2	3	2.6774	449.3	1.4878	256.1941
1	2	4	3.8231	631.25	2.5854	434.5180
1	2	5	6.1742	992.24	1.5699	269.6583
1	2	6	7.2671	648.07	2.6841	450.3756
1	3	1	1.7194	294.12	0.5635	103.2094
1	3	2	1.8195	310.47	0.2581	52.0955
1	3	3	2.174	368.1	1.358	234.8658
1	3	4	2.3907	403.15	2.2804	385.3298
1	3	5	1.3638	235.82	0.8437	149.8584
1	3	6	1.7738	303.01	1.835	312.9953
1	4	1	12.2443	543.06	1.518	261.1492
1	4	2	11.387	505.42	1.0313	180.9587
1	4	3	4.1179	677.42	0.759	135.7821
1	4	4	5.1673	839.68	1.0456	183.3250
1	4	5	1.7269	295.35	1.4706	253.3707
1	4	6	2.5962	436.25	1.3966	241.2137
2	1	1	3.2083	534.1	2.0458	347.3045
2	1	2	3.4324	569.65	1.7706	302.4870
2	1	3	2.3445	395.69	0.7335	131.5401
2	1	4	1.3638	235.82	1.0456	183.3250

2	1	5	0.5964	108.7	2.2458	379.7321
2	1	6	0.7562	135.32	1.7405	297.5713
2	2	1	3.834	632.96	1.6825	288.0913
2	2	2	5.0593	823.13	1.3252	229.4681
2	2	3	1.7301	295.87	1.6063	275.6213
2	2	4	1.8786	320.1	1.4093	243.3013
2	2	5	2.1987	372.11	2.7029	453.3928
2	2	6	2.067	350.75	1.9416	330.3619
2	3	1	3.9137	645.47	1.3309	230.4064
2	3	2	2.7423	459.71	0.4673	87.1390
2	3	3	1.0755	188.27	0.4125	77.9721
2	3	4	0.9572	168.69	0.7562	135.3164
2	3	5	1.6421	281.48	0.9454	166.7314
2	3	6	0.9024	159.6	0.7668	137.0793
2	4	1	2.2211	375.73	0.2907	57.5651
2	4	2	1.9432	330.62	0.2735	54.6797
2	4	3	1.8826	320.75	0.0923	24.2283
2	4	4	1.0456	183.33	0.2543	51.4577
2	4	5	0.2469	50.22	0.7588	135.7489
2	4	6	0.0846	22.93	0.2569	51.8941
3	1	1	1.3011	225.5	1.0129	177.9131
3	1	2	1.3011	225.5	1.7942	306.3393
3	1	3	0.8144	144.99	1.2002	208.8682
3	1	4	0.4362	81.94	0.6438	116.6023
3	1	5	0.7756	138.54	1.1551	201.4242
3	1	6	1.6825	288.09	0.831	147.7492
3	2	1	1.4706	253.37	2.1042	356.7858
3	2	2	1.1406	199.03	2.1822	369.4332
3	2	3	1.964	334.01	1.587	272.4601
3	2	4	1.493	257.05	1.9224	327.2365
3	2	5	0.9848	173.26	1.0313	180.9587
3	2	6	1.493	257.05	1.1406	199.0295
3	3	1	0.2598	52.38	0.6438	116.6023
3	3	2	0.458	85.58	0.6248	113.4352
3	3	3	0.6275	113.89	1.0044	176.5058
3	3	4	1.1618	202.53	1.299	225.1543
3	3	5	0.7933	141.49	0.2798	55.7366
3	3	6	0.276	55.1	0.6403	116.0190
3	4	1	0.1055	26.45	0.7562	135.3164
3	4	2	0.6197	112.58	0.2553	51.6256
3	4	3	0.2664	53.49	0.2748	54.8978
3	4	4	0.2855	56.69	0.2914	57.6825
3	4	5	0.2821	56.12	0.2798	55.7366
3	4	6	0.6492	117.5	0.6492	117.5023

Lampiran 5. Pengolahan Statistik Kurva Standart Potensi Sianogenik Metode Enzimatis.

**Variables Entered/Removed<sup>a</sup>**

Model	Variables Entered	Variables Removed	Method
1	KONHCN <sup>a</sup>	.	Enter

a. All requested variables entered.

b. Dependent Variable: ABSORBAN

**Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.985 <sup>a</sup>	.971	.964	8.92054E-03

a. Predictors: (Constant), KONHCN

**ANOVA<sup>b</sup>**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1.061E-02	1	1.061E-02	133.303	.000 <sup>a</sup>
	Residual	3.183E-04	4	7.958E-05		
	Total	1.093E-02	5			

a. Predictors: (Constant), KONHCN

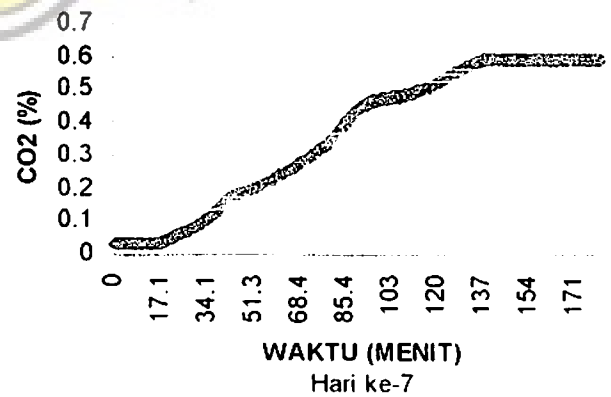
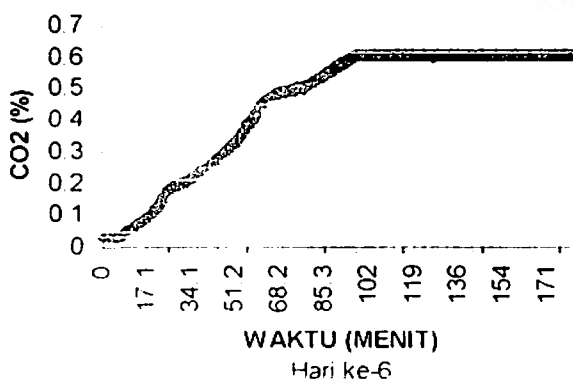
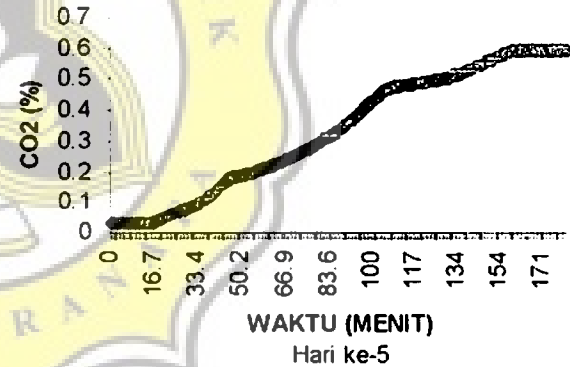
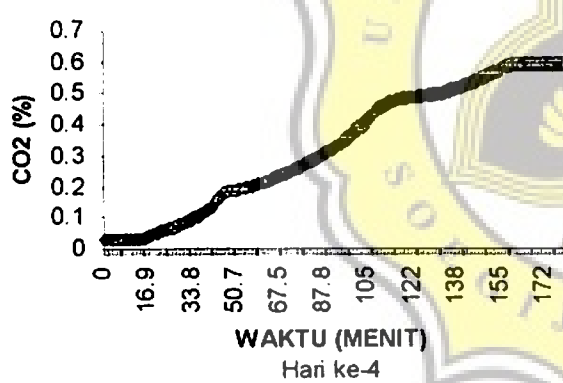
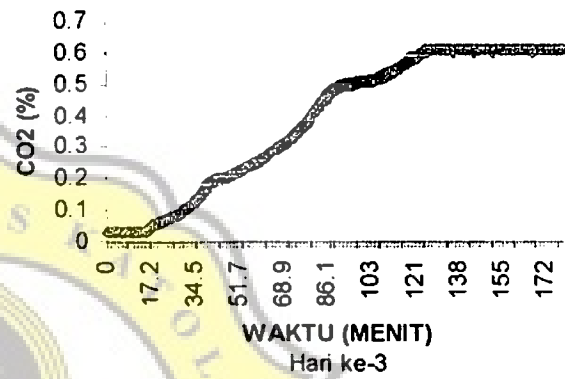
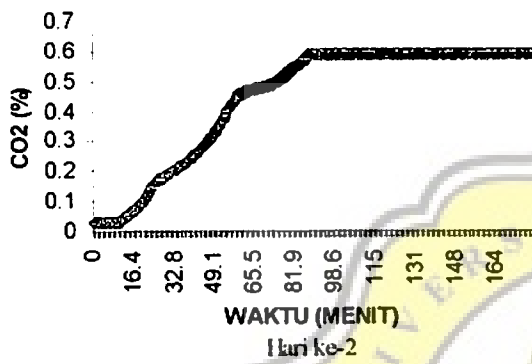
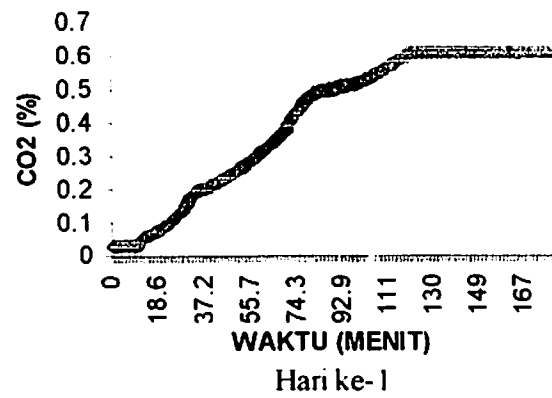
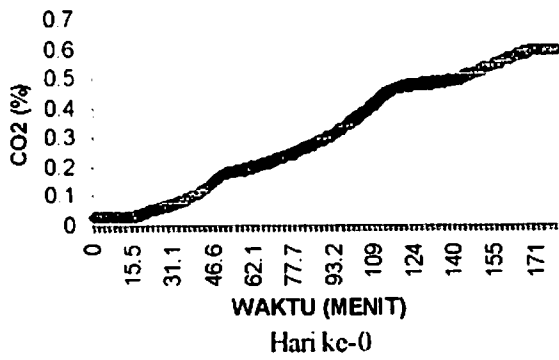
b. Dependent Variable: ABSORBAN

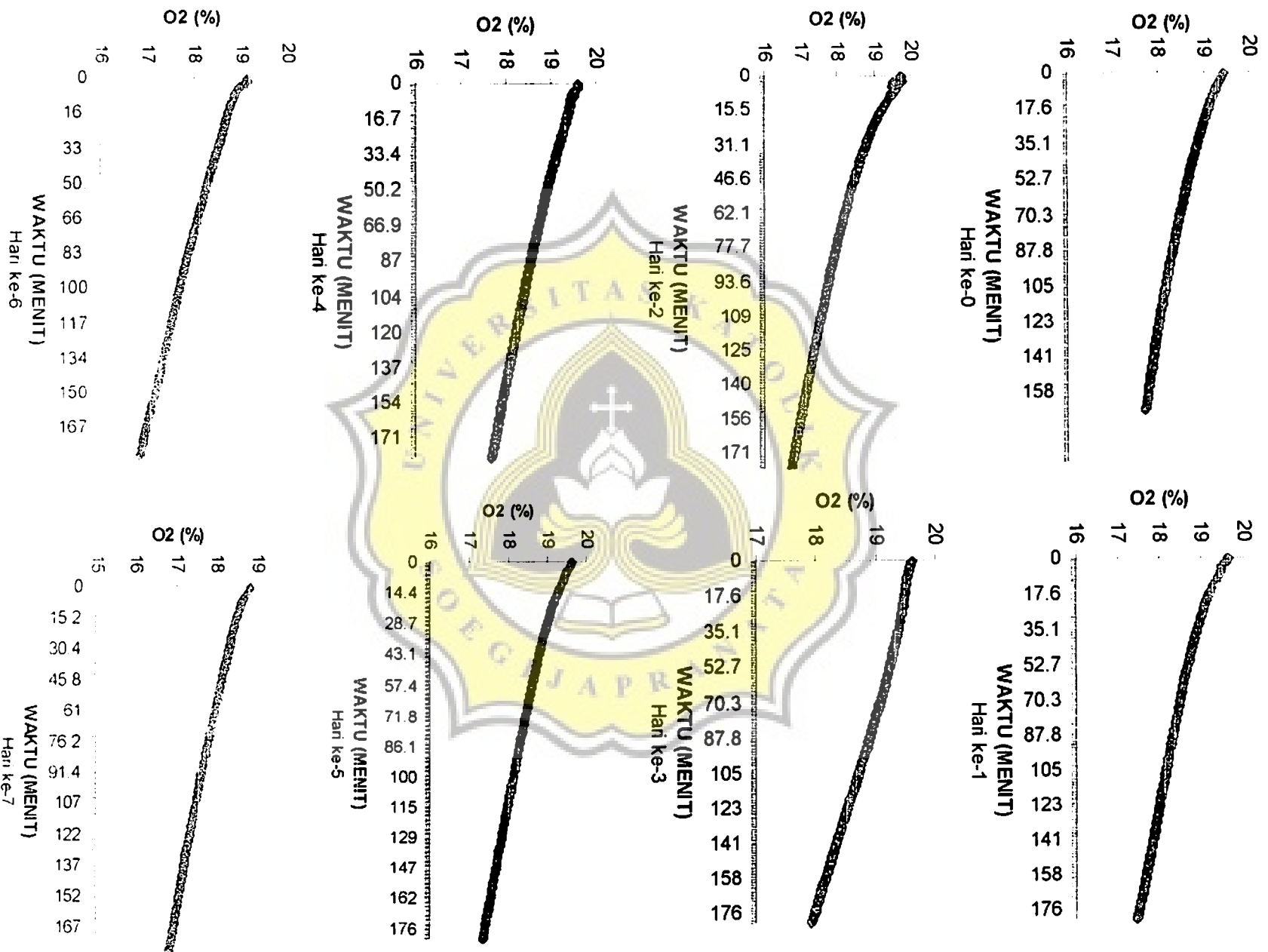
**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.143E-02	.005		2.285	.084
	KONHCN	12.254	1.061	.985	11.546	.000

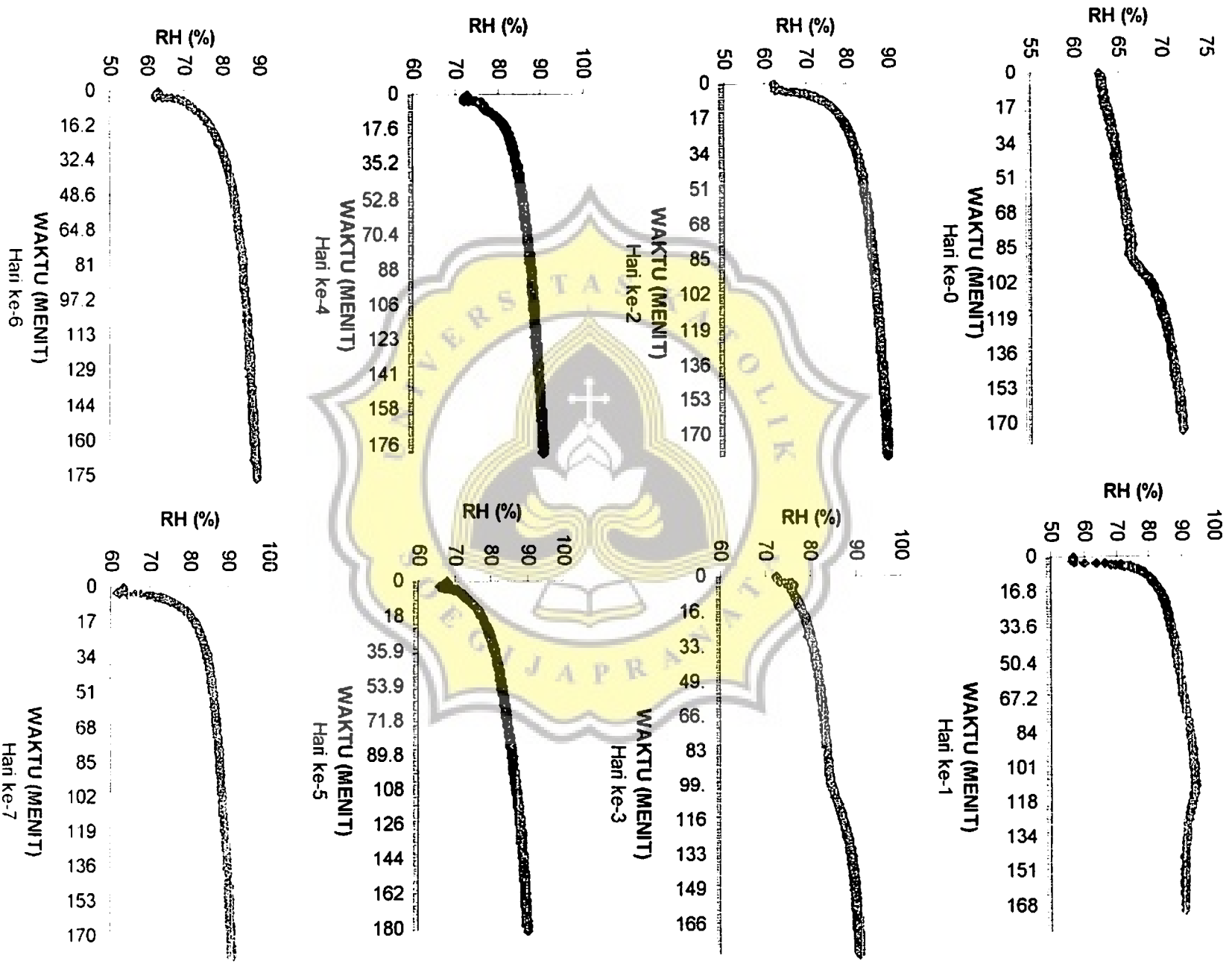
a. Dependent Variable: ABSORBAN

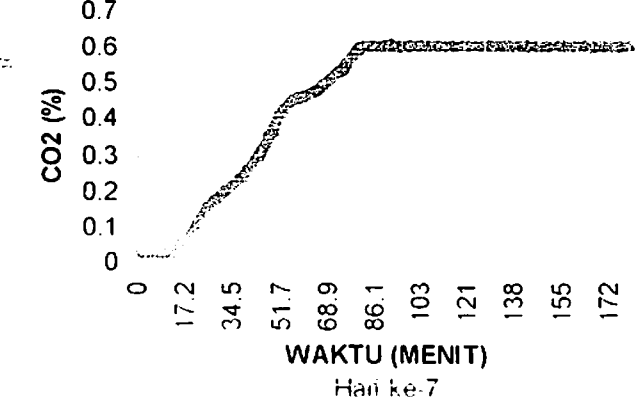
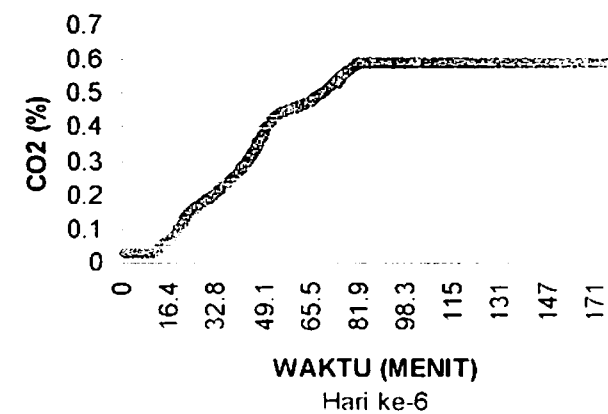
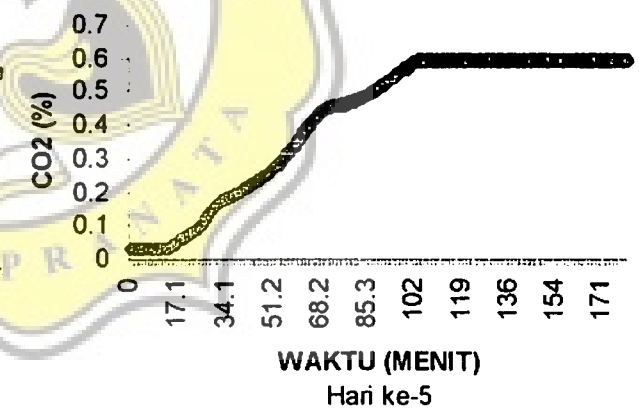
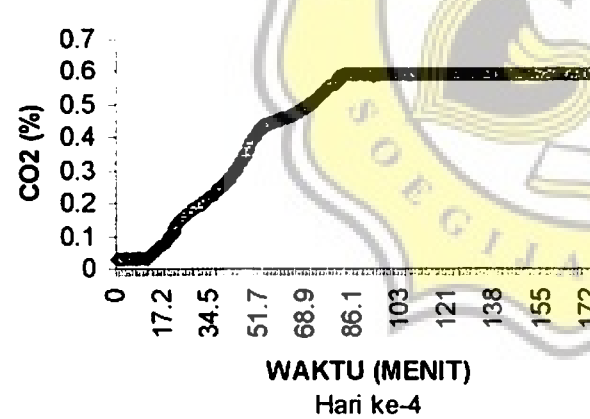
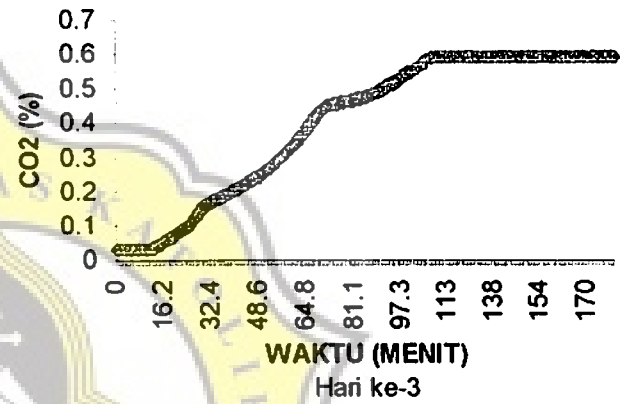
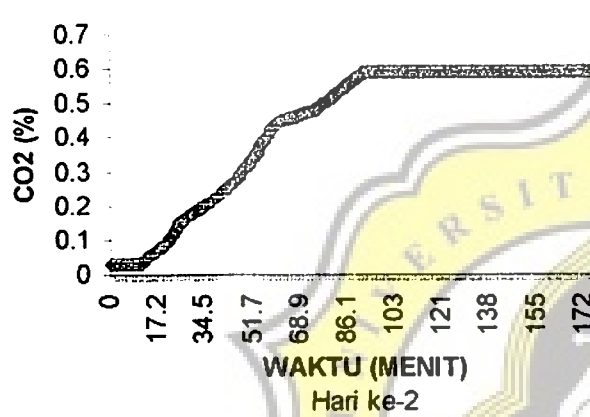
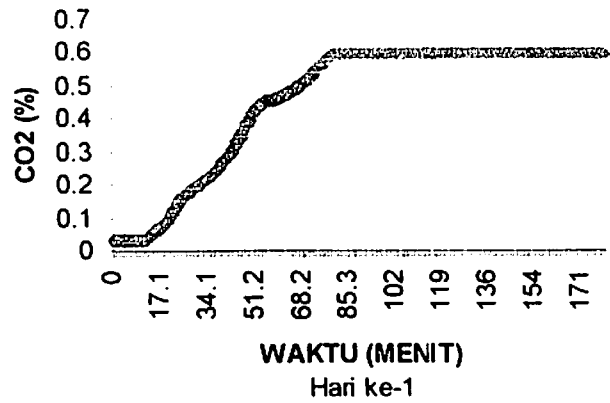
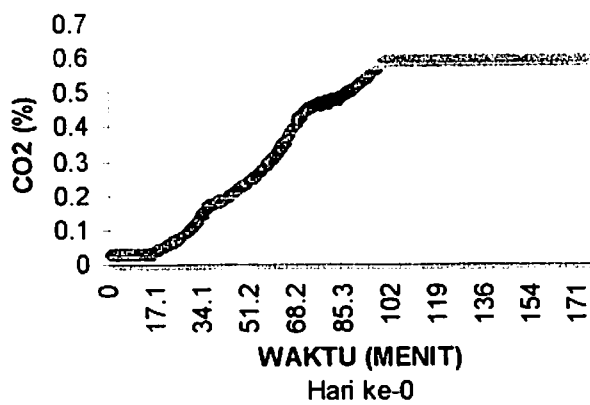


Lampiran 6. Grafik konsentrasi CO<sub>2</sub> gambili hari ke-0 sampai dengan hari ke-7.

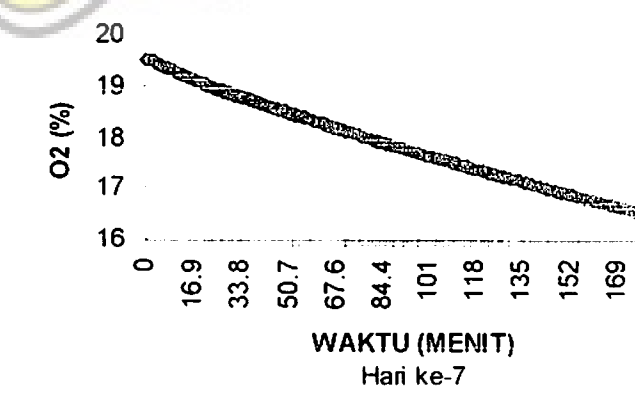
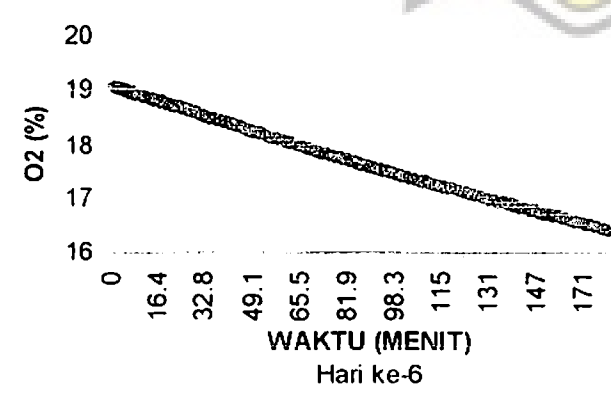
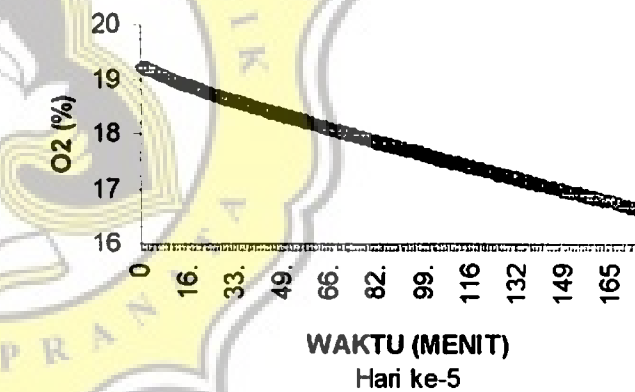
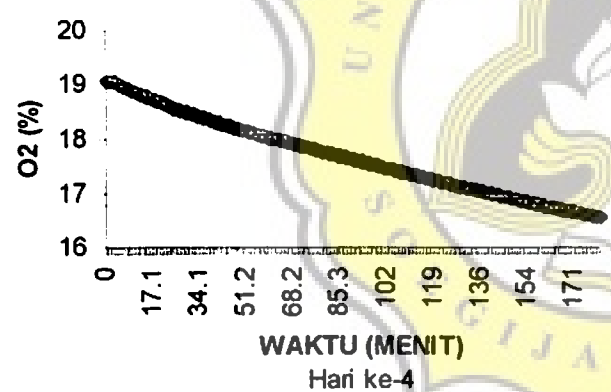
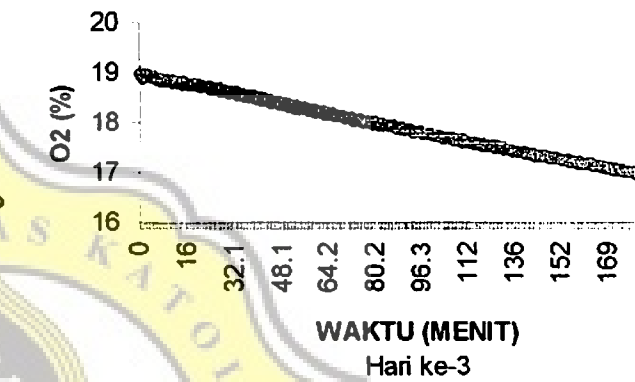
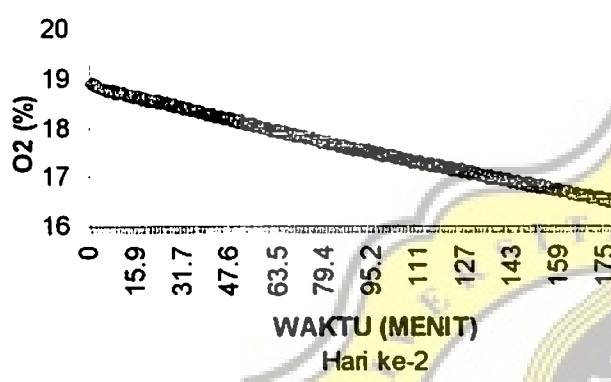
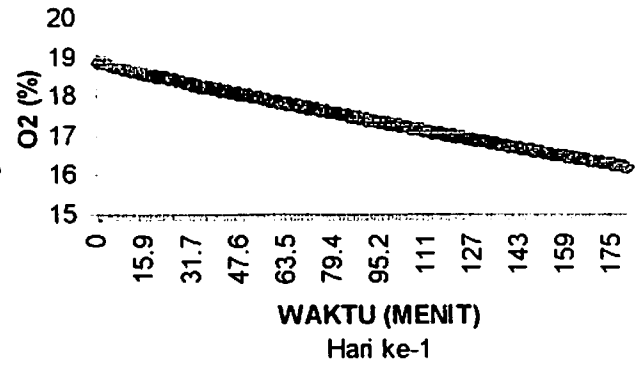
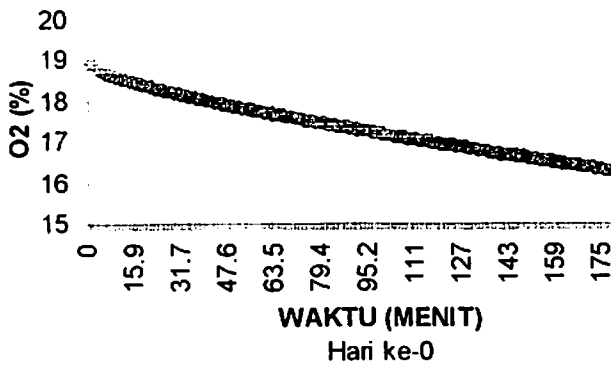
Lampiran 7. Grafik konsentrasi O<sub>2</sub> gembili hari ke-0 sampai dengan hari ke-7.

Lampiran 8. Grafik konsentrasi RH gembili hari ke-0 sampai dengan hari ke-7.

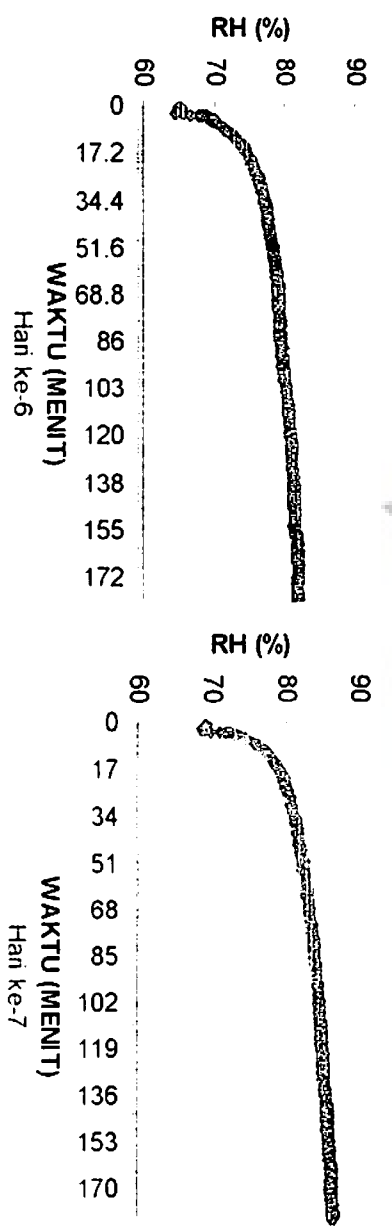
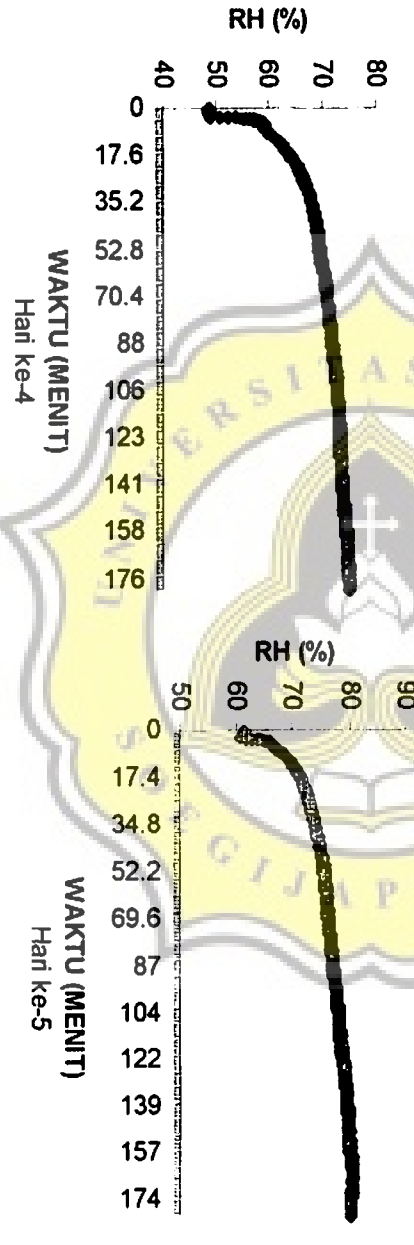
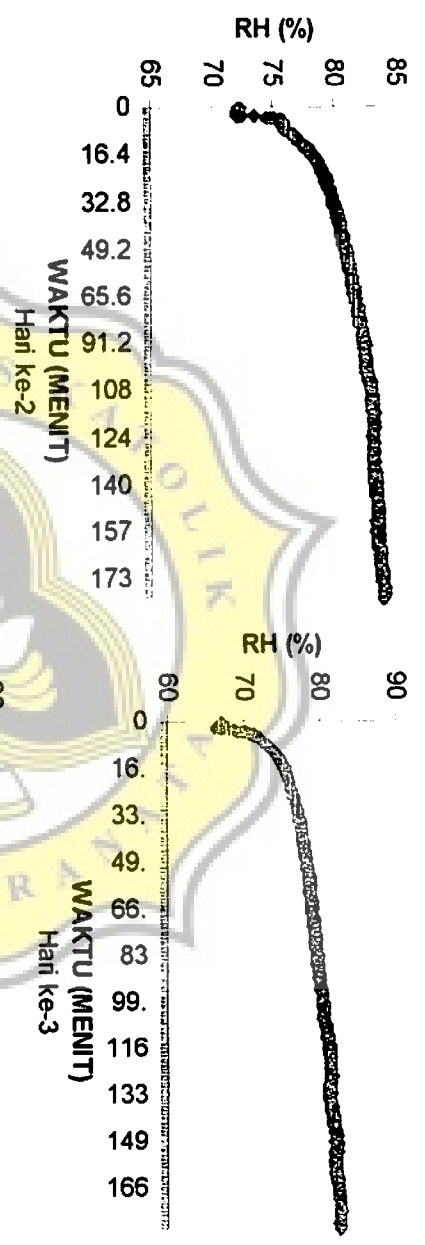
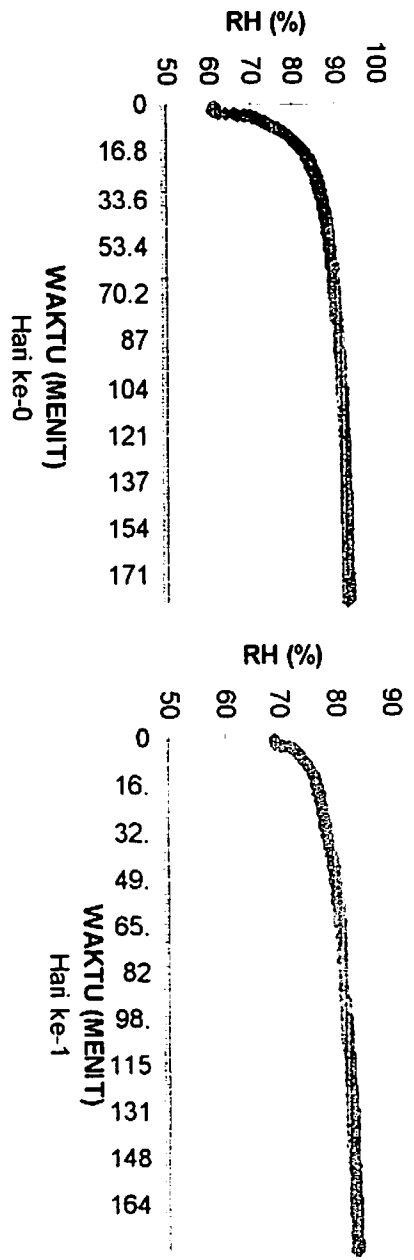


Lampiran 9. Grafik konsentrasi CO<sub>2</sub> gembolo hari ke-0 sampai dengan hari ke-7.

Lampiran 10. Grafik konsentrasi O<sub>2</sub> gembolo hari ke-0 sampai dengan hari ke-7.



Lampiran 11. Grafik konsentrasi RH gembolo hari ke-0 sampai dengan hari ke-7.

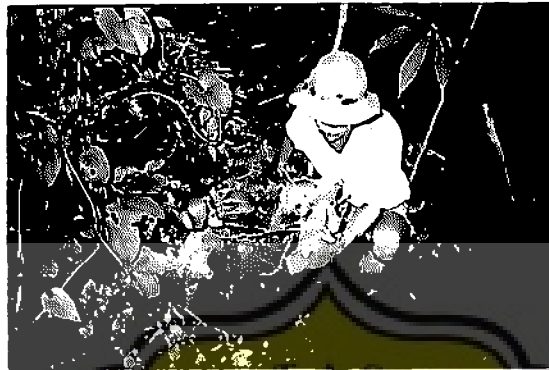


Lampiran 12. Gambar Umbi Gembili dan Gembolo.



Umbi Gembolo

Lampiran 13. Lahan Pertanian Bapak Suyoto dan Bapak Sumadi di Desa Sukorejo,  
Kecamatan Suruh, Salatiga.



Lahan Pertanian Bapak Suyoto



Lahan Pertanian Bapak Sumadi



Lampiran 14. Hasil Pengujian Sianogenik di Laboratorium Teknologi Pangan dan Hasil Pertanian, UGM Yogyakarta

**Laboratoruim Uji**  
**TEKNOLOGI PANGAN DAN HASIL PERTANIAN**  
**Universitas Gajah Mada**  
**Jl.Sosio Yustisia 1,Bulaksumur,Yogyakarta**  
**Telp.0274-549650,901311,524517;Fax.0274-549650**



**HASIL ANALISA**  
**Nomor: 425 / HA / VII / 2004**

Lab. Pengujian : KBP.FTP.UGM


Tanggal Pengujian : 21-24 Juni 2004

No	Kode Sample	Macam Analisa	Hasil Analisa (ppm)
1	Gembili Luar	HCN	415.28ppm
2	Gembili Pangkal	HCN	294.95ppm
3	Gembili Ujung	HCN	192.26ppm
4	Gembili Dalam	HCN	190.965ppm
5	Gembolo Luar	HCN	131.451ppm
6	Gembolo Pangkal	HCN	183.417ppm
7	Gembolo Ujung	HCN	997.32ppm
8	Gembolo Dalam	HCN	329.418ppm

Diperiksa oleh Penyelia

  
 Slamet Bahardjo  


Dilaporkan oleh

  
 (.....)