Lampiran 1: Gambar Alat Dan Bahan

Gambar 1 : Alat penelitian

Gambar 2 : Oven

Gambar 3: Klorofimeter

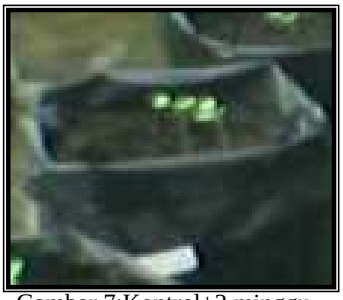
Gambar 5 : Timbangan analitik

Gambar 4 : Bahan penelitian

Lampiran 2: Gambar Hasil Pengamatan Tanaman Sawi (Brasica juncea. L) 15 Hari Setelah Tanam (HST)

Gambar 5:Kontrol+setiap hari (K_0F_1)

Gambar 6:Kontrol+1 minggu sekali (K_0F_2)



Gambar 7:Kontrol+2 minggu sekali (K_0F_3)

Gambar 8:Konsentrasi 25%+setiap hari (K_1F_1)

Gambar 9:Konsentrasi 25% +1 minggu sekali (K_1F_2)

Gambar 10:Konsentrasi 25% +2 minggu sekali (K_1F_3)

Gambar 11:Konsentrasi 50%+setiap hari (K_2F_1)

Gambar 12:Konsentrasi 50%+1 minggu sekali (K_2F_2)

Gambar 13:Konsentrasi 50%+2 minggu sekali (K_2F_3)

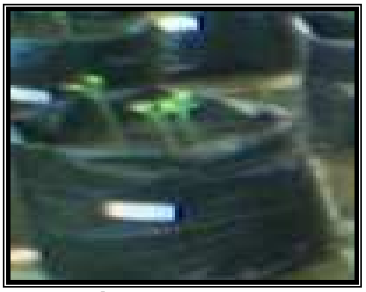
Gambar 14:Konsentrasi 75%+setiap hari (K_3F_1)

Gambar 15:Konsentrasi 75%+1 minggu sekali (K_3F_1)

Gambar 16:Konsentrasi 75%+2 minggu sekali (K_3F_1)

Gambar 17:Konsentrasi 100%+setiap hari (K_4F_1)

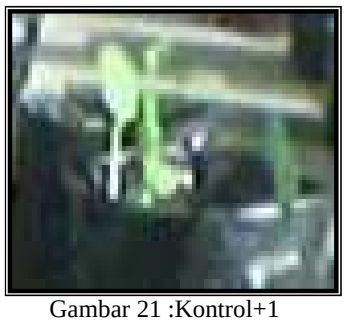
Gambar 18:Konsentrasi 100%+1 minggu sekali (K_4F_2)



Gambar 19:Konsentrasi 100%+2 minggu sekali (K_4F_3)

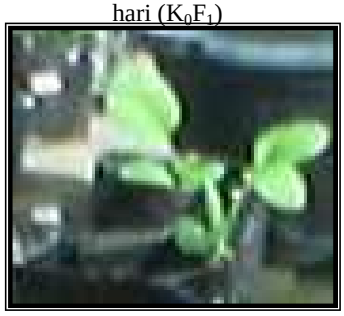
Lampiran 3: Gambar Hasil Pengamatan Tanaman Sawi (*Brassica juncea* L.) 25 Hari Setelah Tanam (HST)

Gambar 20:Kontrol+setiap hari (K_0F_1)

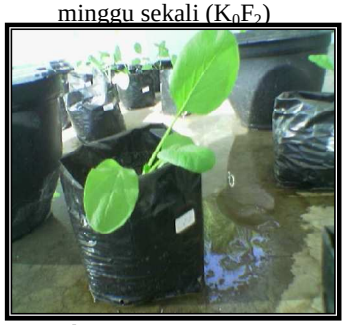


Gambar 21 :Kontrol+1 minggu sekali (K_0F_2)

Gambar 22:Kontrol+2 minggu sekali (K_0F_3)



Gambar 23 :Konsentrasi 25%+setiap hari (K_1F_1)



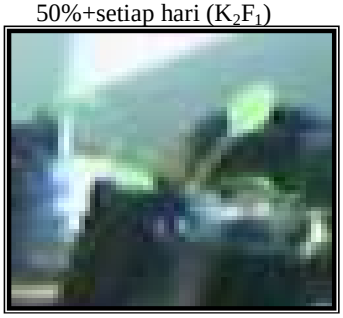
Gambar 24:Konsentrasi 25% +1 minggu sekali (K_1F_2)

Gambar 25:Konsentrasi 25% +2 minggu sekali (K_1F_3)

Gambar 26 :Konsentrasi 50%+setiap hari (K_2F_1)

Gambar 27:Konsentrasi 50%+1 minggu sekali (K_2F_2)

Gambar 28 :Konsentrasi 50%+2 minggu sekali (K_2F_3)



Gambar 29:Konsentrasi 75%+setiap hari (K_3F_1)

Gambar 30 :Konsentrasi 75%+1 minggu sekali (K_3F_1)

Gambar 31:Konsentrasi 75%+2 minggu sekali (K_3F_1)

Gambar 32 :Konsentrasi 100%+setiap hari (K_4F_1)

Gambar 33:Konsentrasi 100%+1 minggu sekali (K_4F_2)

Gambar 34 :Konsentrasi 100%+2 minggu sekali (K_4F_3)

Lampiran 4: Gambar Hasil Pengamatan Tanaman Sawi (*Brasica Juncea* L.) 50 Hari Setelah Tanam (HST)

Gambar 35:Kontrol+setiap hari (K_0F_1)

Gambar 36:Kontrol+1 minggu sekali (K_0F_2)

Gambar 37:Kontrol+2 minggu sekali (K_0F_3)

Gambar 38:Konsentrasi 25%+setiap hari (K_1F_1)

Gambar 39 :Konsentrasi 25% +1 minggu sekali (K_1F_2)

Gambar 40 :Konsentrasi 25% +2 minggu sekali (K_1F_3)

Gambar 41 :Konsentrasi 50%+setiap hari (K_2F_1)

Gambar 42 :Konsentrasi 50%+1 minggu sekali (K_2F_2)

Gambar 43:Konsentrasi 50%+2 minggu sekali (K_2F_3)

Gambar 44:Konsentrasi 75%+setiap hari (K_3F_1)

Gambar 45 :Konsentrasi 75%+1 minggu sekali (K_3F_1)

Gambar 46 :Konsentrasi 75%+2 minggu sekali (K_3F_1)

Gambar 47:Konsentrasi

Gambar 48 :Konsentrasi

Gambar 49 :Konsentrasi

Lampiran 3 Data Hasil Pengamatan Tanaman Sawi (*Brassica juncea* L.)

Tabel 1. Tinggi Tanaman Sawi (*Brassica juncea* L.) 15 HST

Frekuensi	Ulangan	Konsentrasi				
		Ko	K1	K2	K3	K4
F1	1	3.20	3.20	3.10	3.00	2.80
	2	5.20	7.00	6.00	5.00	4.20
	3	3.40	3.30	3.20	2.60	2.50
F2	1	3.20	3.50	3.20	2.80	2.90
	2	5.00	7.20	6.20	5.20	4.50
	3	3.50	3.20	2.40	2.50	2.40
F3	1	3.10	3.20	3.40	2.40	2.00
	2	5.20	7.20	6.20	5.30	4.00
	3	3.20	3.10	3.10	2.40	2.80

Tabel 2. Tinggi Tanaman Sawi (*Brassica juncea* L.) 25 HST

Frekuensi	Ulangan	Konsentrasi				
		Ko	K1	K2	K3	K4
F1	1	4.20	4.10	4.00	3.20	3.00
	2	6.00	8.20	7.00	6.00	5.20
	3	4.40	4.30	4.20	3.70	3.40
F2	1	4.10	4.20	4.00	3.20	3.00
	2	6.20	8.20	7.00	6.00	5.00
	3	4.50	4.20	3.40	3.50	3.40
F3	1	4.10	4.20	4.40	3.50	3.20
	2	6.30	8.00	7.20	6.30	6.00
	3	4.20	4.10	4.00	3.40	3.80

Tabel 3. Tinggi Tanaman Sawi (*Brassica juncea* L.) 50 HST

Frekuensi	Ulangan	Konsentrasi				
		Ko	K1	K2	K3	K4
F1	1	5.20	5.10	5.00	4.30	4.00
	2	7.00	9.40	8.00	7.20	6.40
	3	5.20	5.30	5.00	4.20	4.00
F2	1	5.10	5.20	5.10	4.20	4.00
	2	7.20	9.20	8.00	7.00	6.00
	3	5.50	5.20	4.40	4.00	4.20
F3	1	5.20	5.30	5.20	4.50	4.20
	2	7.30	9.00	8.20	7.20	7.00
	3	5.20	5.10	5.00	4.20	4.40

Tabel 4. Jumlah Daun Tanaman Sawi (*Brassica juncea* L.) 15 HST

Frekuensi	Ulangan	Konsentrasi				
		Ko	K1	K2	K3	K4
F1	1	2	4	1	2	2
	2	3	3	3	2	2
	3	2	2	1	2	1
F2	1	2	4	2	2	1
	2	3	3	3	2	1
	3	2	2	2	1	1
F3	1	1	4	1	2	2
	2	3	3	2	2	2
	3	2	2	2	2	2

Tabel 5. Jumlah Daun Tanaman Sawi (*Brassica juncea* L.) 25 HST

Frekuensi	Ulangan	Konsentrasi				
		Ko	K1	K2	K3	K4
F1	1	5	5	3	2	6
	2	3	8	6	6	5
	3	5	6	4	4	1
F2	1	5	5	2	1	6
	2	3	8	6	5	6
	3	5	5	4	4	1
F3	1	5	5	1	2	7
	2	4	8	4	5	5
	3	5	5	5	5	2

Tabel 6. Jumlah Daun Tanaman Sawi (*Brassica juncea* L.) 50 HST

Frekuensi	Ulangan	Konsentrasi				
		Ko	K1	K2	K3	K4
F1	1	4	9	8	9	7
	2	9	11	10	8	9
	3	7	6	6	7	6
F2	1	5	9	8	8	7
	2	9	11	9	9	9
	3	7	7	6	6	4
F3	1	5	7	8	7	7
	2	10	10	7	9	8
	3	7	7	5	7	4

Tabel 7. Berat Basah Tanaman Sawi (*Brassica juncea* L.) 50 HST

Frekuensi	Ulangan	Konsentrasi				
		Ko	K1	K2	K3	K4
F1	1	43.54	64.73	66.51	64.86	45.96
	2	54.12	99.83	84.53	66.05	53.04
	3	53.77	75.23	50.15	31.39	17.37
F2	1	30.53	77.92	77.69	77.57	38.69
	2	62.07	99.66	66.04	82.83	28.13
	3	52.57	72.37	51.42	30.40	23.82
F3	1	2.37	60.89	82.37	78.50	22.15
	2	58.31	88.37	87.19	39.71	40.95
	3	53.86	70.20	52.45	28.30	3.68

Tabel 8. Kadar Klorofil Tanaman Sawi (*Brassica juncea* L.) 50 HST

Frekuensi	Ulangan	Konsentrasi				
		Ko	K1	K2	K3	K4
F1	1	25.70	34.60	37.90	38.90	12.60
	2	21.90	49.80	38.90	36.80	28.60
	3	28.30	34.50	36.40	37.90	30.90
F2	1	18.30	38.60	38.50	37.80	15.90
	2	28.90	48.20	35.80	35.60	33.10
	3	27.90	36.30	35.80	35.80	32.20
F3	1	23.60	38.90	35.60	14.30	15.20
	2	21.50	38.40	36.20	36.00	24.80
	3	19.50	35.30	36.10	28.10	25.90

Tabel 9. Luas Daun Tanaman Sawi (*Brassica juncea* L.) 50 HST

Frekuensi	Ulangan	Konsentrasi				
		Ko	K1	K2	K3	K4
F1	1	362.67	484.00	345.60	312.00	277.00
	2	345.60	728.00	480.00	425.00	336.00
	3	316.00	485.14	411.00	288.00	216.69
F2	1	324.11	494.00	513.00	416.00	399.00
	2	328.00	706.00	450.00	422.40	228.00
	3	331.20	326.93	266.40	282.72	230.91
F3	1	355.20	445.00	416.00	364.00	228.00
	2	366.49	776.00	490.00	278.40	252.00
	3	393.00	370.91	304.94	181.80	48.00

Lampiran 4 Analisis Data ANNOVA dan Uji Lanjut Duncan 5%

Tabel 10. Analisis Data ANNOVA dan Uji Lanjut Duncan 5% pada Tinggi Tanaman 15 HST

1. Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
Frekuensi Penyiraman	1.00	Disiram setiap hari	15
	2.00	disiram 1 minggu sekali	15
	3.00	disiram 2 minggu sekali	15
Konsentrasi Limbah Tahu	1.00	kontrol air sumur	9
	2.00	konsentrasi 25%	9
	3.00	konsentrasi 50%	9
	4.00	konsentrasi 75%	9
	5.00	konsentrasi 100%	9

Tests of Between-Subjects Effects

Dependent Variable: tinggi tanaman 15 hst

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	85.744[a]	14	6.125	115.317	.000
Intercept	657.422	1	657.422	12378.243	.000
frekuensi	68.012	2	34.006	640.285	.000
konsentrasi	10.922	4	2.731	51.412	.000
frekuensi * konsentrasi	6.810	8	.851	16.027	.000
Error	1.593	30	.053		
Total	744.760	45			
Corrected Total	87.338	44			

a. R Squared = .982 (Adjusted R Squared = .973)

ANOVA

tinggi tanaman 15 hst

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	85.744	14	6.125	115.317	.000
Within Groups	1.593	30	.053		
Total	87.338	44			

2. Post Hoc Tests Konsentrasi Limbah Tahu Homogeneous Subsets

tinggi tanaman 15 hst

Duncan [a,b]

Konsentrasi Limbah Tahu	N	Subset 1	2	3	4
konsentrasi 100%	9	3.1222			
konsentrasi 75%	9		3.4667		
kontrol air sumur	9			3.8889	
konsentrasi 50%	9			4.0889	
konsentrasi 25%	9				4.5444
Sig.		1.000	1.000	.076	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .053.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

3. Post Hoc Tests Frekuensi Peyiraman Homogeneous Subsets

tinggi tanaman 15 hst

Duncan [a,b]

Frekuensi Penyiraman	N	Subset 1	2
disiram 2 minggu sekali	15	2.9067	
Disiram setiap hari	15	3.0000	
disiram 1 minggu sekali	15		5.5600
Sig.		.276	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .053.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

tinggi tanaman 15 hst

Duncan[a]

perlakuan kombinansi	N	Subset for alpha = .05 1	2	3	4	5	6	7
k3f3	3	2.5000						
k4f1	3	2.5667						
k4f3	3	2.5667						
k3f1	3	2.7333						
k2f3	3	2.9000	2.9000					
kof1	3		3.1667	3.1667				
k1f3	3		3.2000	3.2000				
k2f1	3		3.2333	3.2333				
k1f1	3		3.3000	3.3000				
kof3	3			3.3667				
k4f2	3				4.2333			
kof2	3					5.1333		
k3f2	3					5.1667		
k2f2	3						6.1333	
k1f2	3							7.1333
Sig.		.065	.065	.352	1.000	.861	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Tabel 11. Analisis Data ANNOVA dan Uji Lanjut Duncan 5% pada Tinggi Tanaman 25 HST

1. Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
Frekuensi Penyiraman	1.00	Disiram setiap hari	15
	2.00	disiram 1 minggu sekali	15
	3.00	disiram 2 minggu sekali	15
Konsentrasi Limbah Tahu	1.00	kontrol air sumur	9
	2.00	konsentrasi 25%	9
	3.00	konsentrasi 50%	9
	4.00	konsentrasi 75%	9
	5.00	konsentrasi 100%	9

Tests of Between-Subjects Effects

Dependent Variable: Tinggi Tanaman 25 hst

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	93.878[a]	14	6.706	134.710	.000
Intercept	1012.939	1	1012.939	20349.219	.000
frekuensi	75.406	2	37.703	757.424	.000
konsentrasi	12.698	4	3.174	63.772	.000
frekuensi * konsentrasi	5.774	8	.722	14.500	.000
Error	1.493	30	.050		
Total	1108.310	45			
Corrected Total	95.371	44			

a. R Squared = .984 (Adjusted R Squared = .977)

ANOVA

Tinggi Tanaman 25 hst

Sig.	F	Mean Square	df	Sum of Squares	
.000	134.710	6.706	14	93.878	Between Groups
		.050	*30*	*1.493*	*Within Groups*
			44	95.371	Total

2. Post Hoc Tests Konsentrasi Limbah Tahu Homogeneous Subsets

Tinggi Tanaman 25 hst

Duncan [a,b]

Konsentrasi Limbah Tahu	N	Subset 1	2	3	4
konsentrasi 100%	9	4.0000			
konsentrasi 75%	9		4.3111		
kontrol air sumur	9			4.8889	
konsentrasi 50%	9			5.0222	
konsentrasi 25%	9				5.5000
Sig.		1.000	1.000	.215	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .050.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

3. Post Hoc Tests Frekuensi Penyiraman Homogeneous Subsets

Tinggi Tanaman 25 hst

Duncan [a,b]

Frekuensi Penyiraman	N	Subset 1	2
Disiram setiap hari	15	3.7600	
disiram 2 minggu sekali	15	3.9000	
disiram 1 minggu sekali	15		6.5733
Sig.		.096	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .050.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

Tinggi Tanaman 25 hst

Duncan [a]

perlakuan kombinar	N	Subset for alpha = .05 1	2	3	4	5	6	7	8	9
k4f1	3	3.0667								
k3f1	3	3.3000	3.3000							
k3f3	3		3.5333	3.5333						
k4f3	3		3.5333	3.5333						
k2f3	3			3.8667	3.8667					
kof1	3				4.1333	4.1333				
k2f1	3				4.1333	4.1333				
k1f1	3				4.1667	4.1667				
k1f3	3				4.2000	4.2000				
kof3	3					4.3667				
k4f2	3						5.4000			
k3f2	3							6.1000		
kof2	3							6.1667		
k2f2	3								7.0667	
k1f2	3									8.1333
Sig.		.210	.236	.093	.111	.263	1.000	.717	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Tabel 12. Analisis Data ANNOVA dan Uji Lanjut Duncan 5% pada Tinggi Tanaman 50 HST

1. Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
Konsentrasi Limbah Tahu	1.00	kontrol air sumur	9
	2.00	konsentrasi 25%	9
	3.00	konsentrasi 50%	9
	4.00	konsentrasi 75%	9
	5.00	konsentrasi 100%	9
Frekuensi Penyiraman	1.00	Disiram setiap hari	15
	2.00	disiram 1 minggu sekali	15
	3.00	disiram 2 minggu sekali	15

Tests of Between-Subjects Effects

Dependent Variable: tinggi tanaman pasca panen

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	101.996(a)	14	7.285	177.214	.000
Intercept	1463.190	1	1463.190	35591.114	.000
konsentrasi	15.136	4	3.784	92.046	.000
frekuensi	81.622	2	40.811	992.697	.000
konsentrasi * frekuensi	5.238	8	.655	15.927	.000
Error	1.233	30	.041		
Total	1566.420	45			
Corrected Total	103.230	44			

a R Squared = .988 (Adjusted R Squared = .982)

ANOVA

tinggi tanaman pasca panen

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	101.996	14	7.285	177.214	.000
Within Groups	1.233	30	.041		
Total	103.230	44			

2.Post Hoc Tests Konsentrasi Limbah Tahu Homogeneous Subsets

tinggi tanaman pasca panen

Duncan [a,b]

Konsentrasi Limbah Tahu	N	Subset 1	2	3	4
konsentrasi 100%	9	4.9111			
konsentrasi 75%	9		5.2000		
kontrol air sumur	9			5.8778	
konsentrasi 50%	9			5.9889	
konsentrasi 25%	9				6.5333
Sig.		1.000	1.000	.254	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .041.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

3. Post Hoc Tests Frekuensi Penyiraman Homogeneous Subsets

tinggi tanaman pasca panen

Duncan [a,b]

Frekuensi Penyiraman	N	Subset 1	2
disiram 2 minggu sekali	15	4.7267	
Disiram setiap hari	15	4.7733	
disiram 1 minggu sekali	15		7.6067
Sig.		.533	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .041.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

tinggi tanaman pasca panen

Duncan[a]

perlakuan kombinansi	N	Subset for alpha = .05 1	2	3	4	5	6	7
k4f1	3	4.0667						
k3f3	3	4.1333						
k4f3	3	4.2000						
k3f1	3	4.3333						
k2f3	3		4.8000					
k2f1	3		5.1000	5.1000				
kof1	3			5.1667				
k1f1	3			5.2000				
k1f3	3			5.2000				
kof3	3			5.3000				
k4f2	3				6.4667			
k3f2	3					7.1333		
kof2	3					7.1667		
k2f2	3						8.0667	
k1f2	3							9.2000
Sig.		.151	.080	.291	1.000	.842	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Tabel 13. Analisis Data ANNOVA dan Uji Lanjut Duncan 5% Pada Jumlah Daun Tanaman 15 HST

1. Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
Frekuensi Penyiraman	1.00	Disiram setiap hari	15
	2.00	disiram 1 minggu sekali	15
	3.00	disiram 2 minggu sekali	15
Konsentrasi Limbah Tahu	1.00	kontrol air sumur	9
	2.00	konsentrasi 25%	9
	3.00	konsentrasi 50%	9
	4.00	konsentrasi 75%	9
	5.00	konsentrasi 100%	9

Tests of Between-Subjects Effects

Dependent Variable: jumlah daun 15 hst

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	23.111[a]	14	1.651	9.286	.000
Intercept	200.556	1	200.556	1128.125	.000
frekuensi	4.044	2	2.022	11.375	.000
konsentrasi	10.889	4	2.722	15.313	.000
frekuensi * konsentrasi	8.178	8	1.022	5.750	.000
Error	5.333	30	.178		
Total	229.000	45			
Corrected Total	28.444	44			

a. R Squared = .813 (Adjusted R Squared = .725)

ANOVA

jumlah daun 15 hst

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	23.111	14	1.651	9.286	.000
Within Groups	5.333	30	.178		
Total	28.444	44			

2. Post Hoc Tests Konsentrasi Limbah Tahu Homogeneous Subsets

jumlah daun 15 hst

Duncan [a,b]

Konsentrasi Limbah Tahu	N	Subset 1	Subset 2	Subset 3
konsentrasi 100%	9	1.5556		
konsentrasi 50%	9	1.8889	1.8889	
konsentrasi 75%	9	1.8889	1.8889	
kontrol air sumur	9		2.2222	
konsentrasi 25%	9			3.0000
Sig.		.123	.123	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .178.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

3. Post Hoc Tests Frekuensi Penyiraman Homogeneous Subsets

jumlah daun 15 hst

Duncan [a,b]

Frekuensi Penyiraman	N	Subset 1	Subset 2	Subset 3
disiram 2 minggu sekali	15	1.7333		
Disiram setiap hari	15		2.1333	
disiram 1 minggu sekali	15			2.4667
Sig.		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) = .178.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

jumlah daun 15 hst

Duncan [a]

perlakuan kombinansi	N	Subset for alpha = .05: 1	2	3	4
k2f1	3	1.3333			
k4f3	3	1.3333			
kof1	3	1.6667			
k4f1	3	1.6667			
k4f2	3	1.6667			
k2f3	3	1.6667			
k3f3	3	1.6667			
k3f1	3	2.0000	2.0000		
k3f2	3	2.0000	2.0000		
kof3	3	2.0000	2.0000		
k1f3	3	2.0000	2.0000		
k2f2	3		2.6667	2.6667	
kof2	3			3.0000	
k1f2	3			3.0000	
k1f1	3				4.0000
Sig.		.111	.092	.369	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Tabel 14. Analisis Data ANNOVA dan Uji Lanjut Duncan 5% Pada Jumlah Daun Tanaman 25 HST

1. Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
Konsentrasi Limbah Tahu	1.00	kontrol air sumur	9
	2.00	konsentrasi 25%	9
	3.00	konsentrasi 50%	9
	4.00	konsentrasi 75%	9
	5.00	konsentrasi 100%	9
Frekuensi Penyiraman	1.00	Disiram setiap hari	15
	2.00	disiram 1 minggu sekali	15
	3.00	disiram 2 minggu sekali	15

Tests of Between-Subjects Effects

Dependent Variable: jumlah daun 25 hst

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	134.578[a]	14	9.613	27.036	.000
Intercept	915.756	1	915.756	2575.563	.000
konsentrasi	31.689	4	7.922	22.281	.000
frekuensi	20.578	2	10.289	28.938	.000
konsentrasi * frekuens	82.311	8	10.289	28.938	.000
Error	10.667	30	.356		
Total	1061.000	45			
Corrected Total	145.244	44			

a. R Squared = .927 (Adjusted R Squared = .892)

ANOVA

jumlah daun 25 hst

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	134.578	14	9.613	27.036	.000
Within Groups	10.667	30	.356		
Total	145.244	44			

2. Post Hoc Tests Konsentrasi Limbah Tahu Homogeneous Subsets

jumlah daun 25 hst

Duncan [a,b]

Konsentrasi Limbah Tahu	N	Subset 1	Subset 2	Subset 3
konsentrasi 75%	9	3.7778		
konsentrasi 50%	9	3.8889	3.8889	
konsentrasi 100%	9	4.3333	4.3333	
kontrol air sumur	9		4.4444	
konsentrasi 25%	9			6.1111
Sig.		.070	.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) = .356.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

jumlah daun 25 hst

Duncan [a,b]

Frekuensi Penyiraman	N	Subset 1	Subset 2
Disiram setiap hari	15	4.0000	
disiram 2 minggu sekali	15	4.0667	
disiram 1 minggu sekali	15		5.4667
Sig.		.762	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .356.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

3. Post Hoc Tests Frekuensi Penyiraman Homogeneous Subsets

jumlah daun 25 hst

Duncan [a]

perlakuan kombinansi	N	Subset for alpha = .05 1	2	3	4	5
k4f3	3	1.3333				
k3f1	3	1.6667				
k2f1	3	2.0000				
kof2	3		3.3333			
k2f3	3		4.3333	4.3333		
k3f3	3		4.3333	4.3333		
kof1	3			5.0000		
k1f1	3			5.0000		
kof3	3			5.0000		
k2f2	3			5.3333	5.3333	
k3f2	3			5.3333	5.3333	
k4f2	3			5.3333	5.3333	
k1f3	3			5.3333	5.3333	
k4f1	3				6.3333	
k1f2	3					8.0000
Sig.		.206	.060	.088	.074	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Tabel 15. Analisis Data ANNOVA dan Uji Lanjut Duncan 5% Pada Jumlah Daun Tanaman 50 HST

1. Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
Frekuensi Penyiraman	1.00	Disiram setiap hari	15
	2.00	disiram 1 minggu sekali	15
	3.00	disiram 2 minggu sekali	15
Konsentrasi Limbah Tahu	1.00	kontrol air sumur	9
	2.00	konsentrasi 25%	9
	3.00	konsentrasi 50%	9
	4.00	konsentrasi 75%	9
	5.00	konsentrasi 100%	9

Tests of Between-Subjects Effects

Dependent Variable: jumlah daun pasca panen

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	119.911[a]	14	8.565	14.824	.000
Intercept	2538.756	1	2538.756	4394.000	.000
frekuensi	72.711	2	36.356	62.923	.000
konsentrasi	17.689	4	4.422	7.654	.000
frekuensi * konsentrasi	29.511	8	3.689	6.385	.000
Error	17.333	30	.578		
Total	2676.000	45			
Corrected Total	137.244	44			

a. R Squared = .874 (Adjusted R Squared = .815)

ANOVA

jumlah daun pasca panen

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	119.911	14	8.565	14.824	.000
Within Groups	17.333	30	.578		
Total	137.244	44			

2. Post Hoc Tests Konsentrasi Limbah Tahu Homogeneous Subsets

jumlah daun pasca panen

Duncan[a,b]

Konsentrasi Limbah Tahu	N	Subset 1	Subset 2	Subset 3
konsentrasi 100%	9	6.7778		
kontrol air sumur	9	7.0000		
konsentrasi 50%	9	7.4444	7.4444	
konsentrasi 75%	9		7.7778	
konsentrasi 25%	9			8.5556
Sig.		.088	.360	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .578.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

3. Post Hoc Tests Frekuensi Penyiraman Homogeneous Subsets

jumlah daun pasca panen

Duncan[a,b]

Frekuensi Penyiraman	N	Subset 1	Subset 2	Subset 3
disiram 2 minggu sekali	15	6.1333		
Disiram setiap hari	15		7.2000	
disiram 1 minggu sekali	15			9.2000
Sig.		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) = .578.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

Duncan[a]

perlakuan kombinans	N	Subset for alpha = .05 1	2	3	4	5	6
kof1	3	4.6667					
k4f3	3	4.6667					
k2f3	3	5.6667	5.6667				
k1f3	3		6.6667	6.6667			
k3f3	3		6.6667	6.6667			
k4f1	3		7.0000	7.0000	7.0000		
kof3	3		7.0000	7.0000	7.0000		
k2f1	3			8.0000	8.0000	8.0000	
k3f1	3			8.0000	8.0000	8.0000	
k1f1	3				8.3333	8.3333	
k2f2	3					8.6667	
k3f2	3					8.6667	
k4f2	3					8.6667	
kof2	3					9.3333	
k1f2	3						10.6667
Sig.		.138	.062	.066	.062	.070	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Tabel 16. Analisis Data ANNOVA dan Uji Lanjut Duncan 5% Pada Berat Basah Tanaman 50 HST

1. Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
Frekuensi Penyiraman	1.00	Disiram setiap hari	15
	2.00	disiram 1 minggu sekali	15
	3.00	disiram 2 minggu sekali	15
Konsentrasi Limbah Tahu	1.00	kontrol air sumur	9
	2.00	konsentrasi 25%	9
	3.00	konsentrasi 50%	9
	4.00	konsentrasi 75%	9
	5.00	konsentrasi 100%	9

Tests of Between-Subjects Effects

Dependent Variable: berat basah pasca panen

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	20254.653[a]	14	1446.761	16.216	.000
Intercept	143609.443	1	143609.443	1609.616	.000
frekuensi	3969.802	2	1984.901	22.247	.000
konsentrasi	12449.698	4	3112.425	34.885	.000
frekuensi * konsentrasi	3835.153	8	479.394	5.373	.000
Error	2676.591	30	89.220		
Total	166540.687	45			
Corrected Total	22931.244	44			

a. R Squared = .883 (Adjusted R Squared = .829)

ANOVA

berat basah pasca panen

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	20254.653	14	1446.761	16.216	.000
Within Groups	2676.591	30	89.220		
Total	22931.244	44			

2. Post Hoc Tests Konsentrasi Limbah Tahu Homogeneous Subsets

berat basah pasca panen

Duncan

Konsentrasi Limbah Tahu	N	Subset 1	2	3	4
konsentrasi 100%	9	30.4211			
kontrol air sumur	9		49.0200		
konsentrasi 75%	9		55.5122		
konsentrasi 50%	9			68.7056	
konsentrasi 25%	9				78.8000
Sig.		1.000	.155	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) = 89.220.
a Uses Harmonic Mean Sample Size = 9.000.
b Alpha = .05.

3. Post Hoc Tests Frekuensi Peyiraman Homogeneous Subsets

berat basah pasca panen

Duncan [a,b]

Frekuensi Penyiraman	N	Subset 1	2	3
disiram 2 minggu sekali	15	44.4653		
Disiram setiap hari	15		57.6213	
disiram 1 minggu sekali	15			67.3887
Sig.		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) = 89.220.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

berat basah pasca panen

Duncan[a]

perlakuan kombinan	N	Subset for alpha = .05 1	2	3	4	5	6	7	8
k4f3	3	14.9567							
k3f3	3	30.0300	30.0300						
kof1	3		35.4933	35.4933					
k4f1	3		35.6000	35.6000					
k4f2	3		40.7067	40.7067	40.7067				
k2f3	3			51.3400	51.3400	51.3400			
kof3	3				53.4000	53.4000			
kof2	3					58.1667	58.1667		
k3f2	3					62.8633	62.8633	62.8633	
k1f1	3					67.8467	67.8467	67.8467	
k1f3	3						72.6000	72.6000	
k3f1	3						73.6433	73.6433	
k2f1	3						75.5233	75.5233	
k2f2	3							79.2533	
k1f2	3								95.9533
Sig.		.060	.216	.068	.130	.063	.055	.069	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Tabel 17. Analisis Data ANNOVA dan Uji Lanjut Duncan 5% Pada Kadar Klorofil Tanaman 25 HST

1. Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
Konsentrasi Limbah Tahu	1.00	kontrol air sumur	9
	2.00	konsentrasi 25%	9
	3.00	konsentrasi 50%	9
	4.00	konsentrasi 75%	9
	5.00	konsentrasi 100%	9
Frekuensi Penyiraman	1.00	Disiram setiap hari	15
	2.00	disiram 1 minggu sekali	15
	3.00	disiram 2 minggu sekali	15

Tests of Between-Subjects Effects

Dependent Variable: kadar klorofil

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1905.959[a]	14	136.140	11.936	.000
Intercept	48794.028	1	48794.028	4278.010	.000
konsentrasi	1363.621	4	340.905	29.889	.000
frekuensi	82.014	2	41.007	3.595	.040
konsentrasi * frekuensi	460.324	8	57.541	5.045	.000
Error	342.173	30	11.406		
Total	51042.160	45			
Corrected Total	2248.132	44			

a. R Squared = .848 (Adjusted R Squared = .777)

ANOVA

kadar klorofil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1905.959	14	136.140	11.936	.000
Within Groups	342.173	30	11.406		
Total	2248.132	44			

2. Post Hoc Tests Konsentrasi Limbah Tahu Homogeneous Subsets

kadar klorofil

Duncan[a,b]

Konsentrasi Limbah Tahu	N	Subset 1	Subset 2	Subset 3
kontrol air sumur	9	23.5111		
konsentrasi 100%	9		32.0222	
konsentrasi 75%	9		33.6889	
konsentrasi 50%	9		34.9111	
konsentrasi 25%	9			40.5111
Sig.		1.000	.096	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 11.406.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

3. Post Hoc Tests Frekuensi Penyiraman Homogeneous Subsets

kadar klorofil

Duncan[a,b]

Frekuensi Penyiraman	N	Subset 1	Subset 2
disiram 2 minggu sekali	15	31.8600	
Disiram setiap hari	15	32.0933	
disiram 1 minggu sekali	15		34.8333
Sig.		.851	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 11.406.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

kadar klorofil

Duncan[a]

perlakuan kombinansi	N	Subset for alpha = .05: 1	2	3	4	5	6
kof1	3	17.8667					
kof2	3		24.1000				
kof3	3		28.5667	28.5667			
k4f3	3		29.6667	29.6667	29.6667		
k3f3	3			31.9333	31.9333	31.9333	
k4f2	3			32.1667	32.1667	32.1667	
k2f3	3			33.7667	33.7667	33.7667	
k3f2	3			34.1333	34.1333	34.1333	
k4f1	3			34.2333	34.2333	34.2333	
k2f2	3			34.9667	34.9667	34.9667	
k3f1	3			35.0000	35.0000	35.0000	
k1f3	3				35.3667	35.3667	
k2f1	3				36.0000	36.0000	
k1f1	3					37.3667	
k1f2	3						48.8000
Sig.		1.000	.065	.053	.059	.103	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Tabel 18. Analisis Data ANNOVA dan Uji Lanjut Duncan 5% Pada Luas Daun Tanaman 50 HST

1. Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
Frekuensi Penyiraman	1.00	Disiram setiap hari	15
	2.00	disiram 1 minggu sekali	15
	3.00	disiram 2 minggu sekali	15
Konsentrasi Limbah Tahu	1.00	kontrol air sumur	9
	2.00	konsentrasi 25%	9
	3.00	konsentrasi 50%	9
	4.00	konsentrasi 75%	9
	5.00	konsentrasi 100%	9

Tests of Between-Subjects Effects

Dependent Variable: luas daun

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	700124.718[a]	14	50008.908	12.752	.000
Intercept	6272828.827	1	6272828.827	1599.502	.000
frekuensi	157096.276	2	78548.138	20.029	.000
konsentrasi	415371.766	4	103842.941	26.479	.000
frekuensi * konsentrasi	127656.675	8	15957.084	4.069	.002
Error	117652.175	30	3921.739		
Total	7090605.720	45			
Corrected Total	817776.893	44			

a. R Squared = .856 (Adjusted R Squared = .789)

ANOVA

luas daun

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	700235.494	14	50016.821	13.216	.000
Within Groups	113538.405	30	3784.613		
Total	813773.899	44			

2. Post Hoc Tests Konsentrasi Limbah Tahu Homogeneous Subsets

luas daun

Duncan [a,b]

Konsentrasi Limbah Tahu	N	Subset 1	2	3	4
konsentrasi 100%	9	246.1778			
konsentrasi 75%	9		330.0356		
kontrol air sumur	9		346.9189		
konsentrasi 50%	9			408.5489	
konsentrasi 25%	9				535.1089
Sig.		1.000	.572	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) = 3921.739.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

3. Post Hoc Tests Frekuensi Penyiraman Homogeneous Subsets

luas daun

Duncan [a,b]

Frekuensi Penyiraman	N	Subset 1	2	3
disiram 2 minggu sekali	15	296.9093		
Disiram setiap hari	15		382.3720	
disiram 1 minggu sekali	15			440.7927
Sig.		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) = 3921.739.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

luas daun

Duncan[a]

perlakuan kombinansi	N	Subset for alpha = .05 1	2	3	4	5	6	7
k4f3	3	165.2000						
k3f3	3	250.8400	250.8400					
k4f2	3	272.0000	272.0000	272.0000				
k4f1	3		301.3333	301.3333	301.3333			
k2f3	3		327.4467	327.4467	327.4467	327.4467		
kof2	3		346.6967	346.6967	346.6967	346.6967		
kof3	3		346.7333	346.7333	346.7333	346.7333		
kof1	3		347.3267	347.3267	347.3267	347.3267		
k3f1	3		364.0000	364.0000	364.0000	364.0000	364.0000	
k3f2	3			375.2667	375.2667	375.2667	375.2667	
k1f3	3				394.3267	394.3267	394.3267	
k2f1	3					424.8667	424.8667	
k2f2	3						473.3333	
k1f1	3						474.3333	
k1f2	3							736.6667
Sig.		.056	.064	.091	.127	.110	.065	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

DEPARTEMEN AGAMA
UNIVERSITAS ISLAM NEGERI MALANG
FAKULTAS SAINS DAN TEKNOLOGI
Jl. Gajayana 50 Malang Telp. (0341) 551354 Fax. (0341) 572533

BUKTI KONSULTASI

Nama Mahasiswa : Febrianty Dwi Novita
Nim/Jurusan : 04520001/Biologi
Pembimbing : Evika Sandi Savitri, MP
Judul : Pengaruh Frekuensi Dan Konsentrasi Penyiraman Air Limbah Pembuatan Tahu Terhadap Pertumbuhan Tanaman Sawi (*Brassica juncea* L.).

No	Tanggal	Materi Konsultasi	Tanda Tangan
1.	12 April 2008	Pengajuan Judul Skripsi	1.
2.	17 April 2008	Revisi Proposal Skripsi	2.
3.	08 Mei 2008	Revisi Proposal Skripsi	3.
4.	17 Mei 2008	Revisi Proposal Skripsi	4.
5.	29 Mei 2008	Revisi Proposal Skripsi	5.
6.	07 Juni 2008	ACC Proposal Skripsi	6.
7.	13 Juni 2008	Seminar Proposal Skripsi	7.
8.	06 Agustus 2008	Revisi Bab I, II, dan III	8.
9.	24 September 2008	ACC Bab I, II, dan III	9.
10.	03 November 2008	Pengajuan I, II, III, IV,V	10.
11.	22 Desember 2008	Revisi Bab IV dan V	11.
12.	24 Desember 2008	Revisi Bab IV dan V	12.
13.	06 Januari 2009	ACC Keseluruhan	13.

Malang, 6 Januari 2009
Mengetahui
Ketua Jurusan Biologi
Universitas Islam Negeri (UIN) Malang

Dr.drh.Bayyinatul Muchtaromah, M. Si
NIP.150 299 505

DEPARTEMEN AGAMA
UNIVERSITAS ISLAM NEGERI MALANG
FAKULTAS SAINS DAN TEKNOLOGI
Jl. Gajayana 50 Malang Telp. (0341) 551354 Fax. (0341) 572533

BUKTI KONSULTASI

Nama Mahasiswa : Febrianty Dwi Novita
Nim/Jurusan : 04520001/Biologi
Pembimbing : Munirul Abidin, M.Ag
Judul : Pengaruh Frekuensi Dan Konsentrasi Penyiraman Air Limbah Pembuatan Tahu Terhadap Pertumbuhan Tanaman Sawi (*Brassica juncea* L.).

No	Tanggal	Materi Konsultasi	Tanda Tangan
1.	17 Oktober 2008	Pengajuan BAB I dan II	1.
2.	22 Oktober 2008	Revisi BAB I dan II	2.
3.	23 Oktober 2008	ACC BAB I dan II	3.
4.	19 November 2008	Pengajuan BAB IV	4.
5.	28 November 2008	Revisi BAB IV	5.
6.	17 Desember 2008	Revisi BAB IV	6.
7.	23 Desember 2008	ACC Keseluruhan	7.

Malang, 23 Desember 2008
Mengetahui
Ketua Jurusan Biologi
Universitas Islam Negeri (UIN) Malang

Dr.drh.Bayyinatul Muchtaromah, M. Si
NIP.150 299 505