

## Lampiran 1 data hasil penelitian

Tabel 6.1 Pengaruh konsentrasi pupuk terhadap panjang daun (cm)

ULG	Perlakuan										
	VW	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
1	6.4	3	5.3	5.5	6.1	6.4	6.7	7	7.3	7	7.2
2	6.3	4.3	5.4	5.5	6	6.3	6.8	7.1	7.9	7.1	6.6
3	6.3	4.1	5.1	5.5	6	6.3	6.9	7.1	8.3	6.8	6.5
4	6.3	4	5	5.3	6	6.3	6.5	6.9	7.9	6.9	6.1
<b>Rata2</b>	6.325	3.85	5.2	5.45	6.025	6.325	6.725	7.025	7.85	6.95	6.6

Tabel 6.2 Pengaruh konsentrasi pupuk terhadap jumlah daun (cm)

ULG	Perlakuan										
	VW	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
1	2	2	2	4	4	3	4	4	4	4	4
2	3	3	2	3	3	3	3	3	3	3	2
3	3	2	3	2	3	4	4	4	4	3	3
4	3	2	2	3	3	3	3	3	4	3	4
<b>Rata2</b>	2.75	2.25	2.25	3	3.25	3.25	3.5	3.5	3.75	3.25	3.25

Tabel 6.3 Pengaruh konsentrasi pupuk terhadap panjang akar (cm)

ULG	Perlakuan										
	VW	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
1	5.4	4	4.6	4.5	5	6.2	7	6.4	6.5	6.5	5.2
2	5.6	4.2	4.4	4.5	5.4	6.3	6	6.2	7	7	5.4
3	6.1	4.1	4.1	4.8	5.6	6	5.8	6.1	6.3	4	5.8
4	6.5	3.3	4	4.9	5.1	6.4	6	6.1	7.3	5.2	5.9
<b>Rata2</b>	5.9	3.9	4.275	4.675	5.275	6.225	6.2	6.2	6.775	5.675	5.5

Tabel 6.4 Pengaruh konsentrasi pupuk terhadap jumlah akar (cm)

ULG	Perlakuan										
	VW	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
1	2	4	4	4	5	5	3	4	5	4	4
2	3	4	3	3	4	4	5	6	4	5	4
3	4	2	3	2	3	3	4	5	5	4	5
4	3	2	2	3	3	3	3	3	5	4	4
<b>Rata2</b>	3	3	3	3	3.75	3.75	3.75	4.5	4.75	4.25	4.25

Tabel 6.5 Pengaruh konsentrasi pupuk terhadap berat basah tanaman (gram)

ULG	Perlakuan										
	vw	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
1	0.71	0.45	0.56	0.67	0.71	0.78	0.78	0.91	0.93	0.91	0.89
2	0.86	0.48	0.58	0.68	0.71	0.81	0.86	0.86	0.92	0.87	0.84
3	0.85	0.43	0.53	0.64	0.69	0.76	0.85	0.89	1.01	0.87	0.85
4	0.86	0.48	0.51	0.69	0.70	0.75	0.83	0.89	0.94	0.89	0.85
<b>Rata2</b>	0.82	0.46	0.54	0.67	0.70	0.77	0.83	0.88	0.95	0.88	0.85

Tabel 6.6 Pengaruh konsentrasi pupuk terhadap berat kering tanaman (gram)

ULG	Perlakuan										
	vw	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
1	0.41	0.15	0.24	0.33	0.41	0.49	0.46	0.61	0.64	0.57	0.59
2	0.56	0.23	0.26	0.34	0.44	0.52	0.54	0.56	0.65	0.53	0.53
3	0.55	0.15	0.24	0.3	0.42	0.46	0.53	0.6	0.73	0.53	0.54
4	0.59	0.18	0.26	0.39	0.43	0.45	0.53	0.6	0.65	0.59	0.52
<b>Rata2</b>	0.52	0.17	0.25	0.34	0.42	0.48	0.51	0.59	0.66	0.55	0.54

## Lampiran 2 foto hasil penelitian



Gambar 4.1 hasil pengamatan pada R1 (kiri) dan R2 , R3 (Kanan) (100 hari setelah tanam)



Gambar 4.2 hasil pengamatan pada R4 dan R5 (kiri), R6 dan R7 (Kanan) (100 hari setelah tanam)



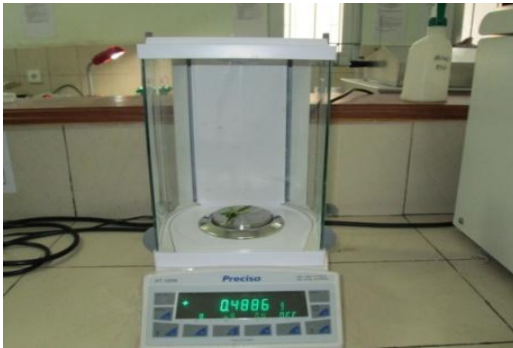
Gambar 4.3 hasil pengamatan pada R8 dan R9 (kiri), R10 dan R11 (Kanan) (100 hari setelah tanam)



Gambar media pupuk yang siap ditanam



Gambar penimbangan planlet basah



Gambar penimbangan planlet kering



Gambar pengovenan planlet kering



Gambar autoklav



Gambar botol yang telah disterilkan



Gambar penimbangan media



Gambar tutup botol anggrek



Gaambar pengadukan media



Gambar berbagai disinfektan



Gambar eksplan siap ditransplantingkan



Gambar tanaman anggrek kering

### Lampiran 3 perhitungan konversi pupuk

**Tabel 1.1 Kandungan pupuk majemuk pergram**

Unsur	Prosentase
Nitrogen	32%
Fosfor	10%
Magnesium	1%
Kalium	10%
Belerang	2%
Kalsium	5%
Besi	0.5%
Mangan	0.05%
Boron	0.02%
Seng	0.05%
Tembaga	0.05%
Molybdenum	0.005%

Kandungan unsur dalam berbagai perlakuan

Unsur	VW/R1	Kandungan unsur dalam %									
		R2	R3	R4	R5	R6	R7	R8	R9	R10	R11
Nitrogen	287	24	32	40	48	56	64	72	80	88	96
Fosfor	57,8	7.5	10	12	15	17.5	20	22.5	25	27.5	30
Magnesium	24,66	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
Kalium	275,2	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30
Belerang	33,48	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
Kalsium	149,46	3.75	5	6.2	7.5	8.75	10	11.2	12.5	13.7	15
Besi	9,33	0.37	0.5	0.6	0.75	0.875	1	1.12	1.25	1.37	1.5
Mangan	1,726	0.03	0.05	0.06	0.075	0.087	0.1	0.112	0.12	0.13	0.15
Boron	-	0.01	0.02	0.025	0.03	0.035	0.04	0.045	0.05	0.055	0.06
Seng	-	0.03	0.05	0.0625	0.075	0.087	0.1	0.11	0.125	0.137	0.15
Tembaga	-	0.03	0.05	0.0625	0.075	0.087	0.1	0.11	0.125	0.137	0.15
Molybdenum	-	0.003	0.005	0.00625	0.0075	0.0087	0.01	0.011	0.012	0.0137	0.015

**RUMUS**

R2 = Konsentrasi tiap kandungan unsur hara pupuk majemuk pergram x 0.75 gram/liter

R3= Konsentrasi tiap kandungan unsur hara pupuk majemuk pergram x 1 gram/liter

R4 = Konsentrasi tiap kandungan unsur hara pupuk majemuk pergram x 1.25 gram/liter

R5 = Konsentrasi tiap kandungan unsur hara pupuk majemuk pergram x 1.5 gram/liter

R6 = Konsentrasi tiap kandungan unsur hara pupuk majemuk pergram x 1.75 gram/liter

R7 = Konsentrasi tiap kandungan unsur hara pupuk majemuk pergram x 2 gram/liter

R8 = Konsentrasi tiap kandungan unsur hara pupuk majemuk pergram x 2.25 gram/liter

R9 = Konsentrasi tiap kandungan unsur hara pupuk majemuk pergram x 2.5 gram/liter

R10 = Konsentrasi tiap kandungan unsur hara pupuk majemuk pergram x 2.75 gram/liter

R11 = Konsentrasi tiap kandungan unsur hara pupuk majemuk pergram x 3 gram/liter

## Lampiran 4 Perhitungan statistika

### PANJANG DAUN

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower B	Upper B		
					1.00	4		
2.00	4	3.8500	.58023	.29011	2.9267	4.7733	3.00	4.30
3.00	4	5.2000	.18257	.09129	4.9095	5.4905	5.00	5.40
4.00	4	5.4500	.10000	.05000	5.2909	5.6091	5.30	5.50
5.00	4	6.0250	.05000	.02500	5.9454	6.1046	6.00	6.10
6.00	4	6.3250	.05000	.02500	6.2454	6.4046	6.30	6.40
7.00	4	6.7250	.17078	.08539	6.4532	6.9968	6.50	6.90
8.00	4	7.0250	.09574	.04787	6.8727	7.1773	6.90	7.10
9.00	4	7.8550	.09574	.04787	7.2227	7.5273	7.30	7.50
10.00	4	6.9500	.12910	.06455	6.7446	7.1554	6.80	7.10
11.00	4	6.6000	.45461	.22730	5.8766	7.3234	6.10	7.20
Total	44	6.1682	.99715	.15033	5.8650	6.4713	3.00	7.50

#### Test of Homogeneity of Variances

VAR00001

Levene Statistic	df1	df2	Sig.
3.259	10	33	.005

#### ANOVA

VAR00001

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	40.780	10	4.078	68.139	.000
Within Groups	1.975	33	.060		
Total	42.755	43			



## Uji duncan

VAR00002	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
2.00	4	3.8500						
3.00	4		5.2000					
4.00	4		5.4500					
5.00	4			6.0250				
1.00	4			6.3250	6.3250			
6.00	4			6.3250	6.3250			
11.00	4				6.6000	6.6000		
7.00	4					6.7250	6.7250	
10.00	4					6.9500	6.9500	
8.00	4						7.0250	7.0250
9.00	4							7.8550
Sig.		1.000	.158	.110	.142	.063	.110	.051

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

**JUMLAH DAUN**

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1.00	4	2.7500	.50000	.25000	1.9544	3.5456	2.00	3.00
2.00	4	2.2500	.50000	.25000	1.4544	3.0456	2.00	3.00
3.00	4	2.2500	.50000	.25000	1.4544	3.0456	2.00	3.00
4.00	4	3.0000	.81650	.40825	1.7008	4.2992	2.00	4.00
5.00	4	3.2500	.50000	.25000	2.4544	4.0456	3.00	4.00
6.00	4	3.2500	.50000	.25000	2.4544	4.0456	3.00	4.00
7.00	4	3.5000	.57735	.28868	2.5813	4.4187	3.00	4.00
8.00	4	3.5000	.57735	.28868	2.5813	4.4187	3.00	4.00
9.00	4	3.7500	.50000	.25000	2.9544	4.5456	3.00	4.00
10.00	4	3.2500	.50000	.25000	2.4544	4.0456	3.00	4.00
11.00	4	3.2500	.95743	.47871	1.7265	4.7735	2.00	4.00
Total	44	3.0909	.70935	.10694	2.8752	3.3066	2.00	4.00

**Test of Homogeneity of Variances**

VAR00001

Levene Statistic	df1	df2	Sig.
.640	10	33	.769

**ANOVA**

VAR00001

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9.636	10	.964	2.650	.017
Within Groups	12.000	33	.364		
Total	21.636	43			

**VAR00001**

Duncan<sup>a</sup>

VAR00002	N	Subset for alpha = 0.05	
		1	2
2.00	4	2.2500	
3.00	4	2.2500	
1.00	4	2.7500	2.7500
4.00	4	3.0000	3.0000
5.00	4		3.2500
6.00	4		3.2500
10.00	4		3.2500
11.00	4		3.2500
7.00	4		3.5000
8.00	4		3.5000
9.00	4		3.7500
Sig.		.117	.052

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

**PANJANG AKAR**

	N	Mean	Std. Deviation	Std. Error	95% Confidence IM		Mini mum	Maxi mum
					Lower B	Upper B		
1.00	4	5.9000	.49666	.24833	5.1097	6.6903	5.40	6.50
2.00	4	3.9000	.40825	.20412	3.2504	4.5496	3.30	4.20
3.00	4	4.2750	.27538	.13769	3.8368	4.7132	4.00	4.60
4.00	4	4.6750	.20616	.10308	4.3470	5.0030	4.50	4.90
5.00	4	5.2750	.27538	.13769	4.8368	5.7132	5.00	5.60
6.00	4	6.2250	.17078	.08539	5.9532	6.4968	6.00	6.40
7.00	4	6.2000	.54160	.27080	5.3382	7.0618	5.80	7.00
8.00	4	6.2000	.14142	.07071	5.9750	6.4250	6.10	6.40
9.00	4	6.7750	.45735	.22867	6.0473	7.5027	6.30	7.30
10.00	4	5.6750	1.35000	.67500	3.5268	7.8232	4.00	7.00
11.00	4	5.5750	.33040	.16520	5.0493	6.1007	5.20	5.90
Total	44	5.5159	.98523	.14853	5.2164	5.8154	3.30	7.30

**Test of Homogeneity of Variances**

VAR00001

Levene Statistic	df1	df2	Sig.
6.200	10	33	.000

**ANOVA**

VAR00001

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	32.466	10	3.247	11.554	.000
Within Groups	9.272	33	.281		
Total	41.739	43			

**VAR00001**

Duncan<sup>a</sup>

VAR00002	N	Subset for alpha = 0.05				
		1	2	3	4	5
2.00	4	3.9000				
3.00	4	4.2750				
4.00	4	4.6750	4.6750			
5.00	4		5.2750	5.2750		
11.00	4			5.5750	5.5750	
10.00	4			5.6750	5.6750	
1.00	4			5.9000	5.9000	
7.00	4				6.2000	6.2000
8.00	4				6.2000	6.2000
6.00	4				6.2250	6.2250
9.00	4					6.7750
Sig.		.058	.119	.137	.137	.171

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

**JUMLAH AKAR**

	N	Mean	Std. Deviation	Std. Error	95% Confidence IOM		Mini mum	Maxi mum
					Lower B	Upper B		
1	4	3.0000	.81650	.40825	1.7008	4.2992	2.00	4.00
2	4	3.0000	1.15470	.57735	1.1626	4.8374	2.00	4.00
3	4	3.0000	.81650	.40825	1.7008	4.2992	2.00	4.00
4	4	3.0000	.81650	.40825	1.7008	4.2992	2.00	4.00
5	4	3.7500	.95743	.47871	2.2265	5.2735	3.00	5.00
6	4	3.7500	.95743	.47871	2.2265	5.2735	3.00	5.00
7	4	3.7500	.95743	.47871	2.2265	5.2735	3.00	5.00
8	4	4.5000	1.29099	.64550	2.4457	6.5543	3.00	6.00
9	4	4.7500	.50000	.25000	3.9544	5.5456	4.00	5.00
10	4	4.2500	.50000	.25000	3.4544	5.0456	4.00	5.00
11	4	4.2500	.50000	.25000	3.4544	5.0456	4.00	5.00
Total	44	3.7273	.99682	.15028	3.4242	4.0303	2.00	6.00

**Test of Homogeneity of Variances**

VAR00014

Levene Statistic	df1	df2	Sig.
1.225	10	33	.312

**ANOVA**

VAR00014

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	17.227	10	1.723	2.229	.041
Within Groups	25.500	33	.773		
Total	42.727	43			

**VAR00014**

Duncan<sup>a</sup>

VAR00015	N	Subset for alpha = 0.05	
		1	2
1	4	3.0000	
2	4	3.0000	
3	4	3.0000	
4	4	3.0000	
5	4	3.7500	3.7500
6	4	3.7500	3.7500
7	4	3.7500	3.7500
10	4	4.2500	4.2500
11	4	4.2500	4.2500
8	4		4.5000
9	4		4.7500
Sig.		.094	.172

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

**BERAT BASAH TANAMAN****Descriptives**

VAR00001

	N	Mean	Std. Deviation	Std. Error	95% Confidence IM		Minimu m	Maxim um
					Lower B	Upper B		
1	4	.8200	.07348	.03674	.7031	.9369	.71	.86
2	4	.4600	.02449	.01225	.4210	.4990	.43	.48
3	4	.5450	.03109	.01555	.4955	.5945	.51	.58
4	4	.6700	.02160	.01080	.6356	.7044	.64	.69
5	4	.7025	.00957	.00479	.6873	.7177	.69	.71
6	4	.7750	.02646	.01323	.7329	.8171	.75	.81
7	4	.8300	.03559	.01780	.7734	.8866	.78	.86
8	4	.8875	.02062	.01031	.8547	.9203	.86	.91
9	4	.9500	.04082	.02041	.8850	1.0150	.92	1.01
10	4	.8850	.01915	.00957	.8545	.9155	.87	.91
11	4	.8575	.02217	.01109	.8222	.8928	.84	.89
Total	44	.7620	.15039	.02267	.7163	.8078	.43	1.01

**Test of Homogeneity of Variances**

VAR00001

Levene Statistic	df1	df2	Sig.
2.187	10	33	.045

**ANOVA**

VAR00001

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.935	10	.094	82.683	.000
Within Groups	.037	33	.001		
Total	.973	43			

VAR00001

Duncan<sup>a</sup>

VAR2	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
2	4	.4600						
3	4		.5450					
4	4			.6700				
5	4			.7025				
6	4				.7750			
1	4				.8200	.8200		
7	4					.8300		
11	4					.8575	.8575	
10	4						.8850	
8	4						.8875	
9	4							.9500
Sig.		1.000	1.000	.181	.067	.145	.243	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

**BERAT KERING TANAMAN****Descriptives**

	N	Mean	Std. Deviation	Std. Error	95% Confidence IM		Minimum	Maximum
					Lower B	Upper B		
1.0	4	.5275	.08016	.04008	.4000	.6550	.41	.59
2.0	4	.1775	.03775	.01887	.1174	.2376	.15	.23
3.0	4	.2500	.01155	.00577	.2316	.2684	.24	.26
4.0	4	.3400	.03742	.01871	.2805	.3995	.30	.39
5.0	4	.4250	.01291	.00645	.4045	.4455	.41	.44
6.0	4	.4800	.03162	.01581	.4297	.5303	.45	.52
7.0	4	.5150	.03697	.01848	.4562	.5738	.46	.54
8.0	4	.5925	.02217	.01109	.5572	.6278	.56	.61
9.0	4	.6675	.04193	.02097	.6008	.7342	.64	.73
10.0	4	.5550	.03000	.01500	.5073	.6027	.53	.59
11.0	4	.5450	.03109	.01555	.4955	.5945	.52	.59
Total	44	.4614	.14829	.02235	.4163	.5064	.15	.73

**Test of Homogeneity of Variances**

VAR00001

Levene Statistic	df1	df2	Sig.
1.755	10	33	.110

**ANOVA**

VAR00001

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.897	10	.090	61.569	.000
Within Groups	.048	33	.001		
Total	.946	43			

**VAR00001**

Duncan<sup>a</sup>

VAR2	N	Subset for alpha = 0.05							
		1	2	3	4	5	6	7	8
2.0	4	.1775							
3.0	4		.2500						
4.0	4			.3400					
5.0	4				.4250				
6.0	4					.4800			
7.0	4					.5150	.5150		
1.0	4					.5275	.5275		
11.0	4						.5450	.5450	
10.0	4						.5550	.5550	
8.0	4							.5925	
9.0	4								.6675
Sig.		1.000	1.000	1.000	1.000	.105	.185	.105	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.