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LAMPIRAN

Lampiran 1. Lay Out

Volume Air Kelapa	Pupuk	Ulangan 1	Ulangan 2	Ulangan 3	Ulangan 4	Ulangan 5
100ml	RP 1,0gram	V1P1U1	V1P1U2	V1P1U3	V1P1U4	V1P1U5
	Guano 3,0gram	V1P2U1	V1P2U2	V1P2U3	V1P2U4	V1P2U5
	Sp-36 0,75gram	V1P3U1	V1P3U2	V1P3U3	V1P3U4	V1P3U5
200 ml	RP 1,0gram	V2P1U1	V2P1U2	V2P1U3	V2P1U4	V2P1U5
	Guano 3,0gram	V2P2U1	V2P2U2	V2P2U3	V2P2U4	V2P2U5
	Sp-36 0,75gram	V2P3U1	V2P3U2	V2P3U3	V2P3U4	V2P3U5

300 ml	RP 1,0gram	V3P1U1	V3P1U2	V3P1U3	V3P1U4	V3P1U5
	Guano 3,0gram	V3P2U1	V3P2U2	V3P2U3	V3P2U4	V3P2U5
	Sp-36 0,75gram	V3P3U1	V3P3U1	V3P3U3	V3P3U4	V3P3U5

Keterangan:

V1=Volume100ml

V2=Volume50 ml

V3= Volume 75 ml

P1= Pupuk Rock Phosphat

P2= Pupuk Guano

P3= Pupuk SP-36

U1= Ulangan 1

U2= Ulangan 2

U3= Ulangan 3

U4= Ulangan 4

U5= Ulang

Lampiran 2. Layout Penelitian

V1P3U1	V3P1U4	V2P3U3	V2P3U2	V3P3U4
V3P2U1	V2P3U4	V3P1U2	V2P1U3	V1P3U5
V3P1U5	V1P3U3	V2P3U1	V1P3U4	V2P2U1
V2P1U2	V3P2U5	V3P1U1	V3P3U5	V2P1U4
V1P1U1	V2P2U4	V1P2U1	V1P2U4	V2P2U5
V1P2U3	V3P3U3	V2P2U2	V1P3U2	V1P2U5
V1P1U4	V2P3U5	V3P2U2	V3P3U2	V2P1U1
V3P2U4	V2P1U5	V1P1U3	V2P2U3	V3P2U3
V1P2U2	V1P1U5	V3P1U3	V3P3U1	V1P1U2

Lampiran 3: Uji Anova

Lampiran 2: Uji Anova dan Uji Post Hoc Duncan

Descriptive Statistics

Dependent Variable: TT

Volume_Air_Kelapa	Pupuk_P	Mean	Std. Deviation	N
V1	P1	17.8400	1.98192	5
	P2	17.6000	2.60768	5
	P3	17.0400	2.30933	5
	Total	17.4933	2.17008	15
V2	P1	19.0000	2.12132	5
	P2	19.0000	1.83712	5
	P3	18.4000	3.28634	5
	Total	18.8000	2.32840	15
V3	P1	20.7000	2.58844	5
	P2	21.3400	4.28112	5
	P3	19.2000	3.32791	5
	Total	20.4133	3.34319	15
Total	P1	19.1800	2.40838	15
	P2	19.3133	3.27018	15
	P3	18.2133	2.93692	15
	Total	18.9022	2.87026	45

Tests of Between-Subjects Effects

Dependent Variable: TT

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	79.134 ^a	8	9.892	1.257	.296
Intercept	16078.230	1	16078.230	2042.718	.000
Volume_Air_Kelapa	64.183	2	32.092	4.077	.025
Pupuk_P	10.811	2	5.406	.687	.510
Volume_Air_Kelapa * Pupuk_P	4.140	4	1.035	.131	.970
Error	283.356	36	7.871		
Total	16440.720	45			
Corrected Total	362.490	44			

a. R Squared = .218 (Adjusted R Squared = .045)

TT

Duncan^{a,b}

Volume_Air_Kelapa	N	Subset	
		1	2
V1	15	17.4933	
V2	15	18.8000	18.8000
V3	15		20.4133
Sig.		.210	.124

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 7.871.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

Descriptive Statistics

Dependent Variable: DB

Volume_Air_Kelapa	Pupuk_P	Mean	Std. Deviation	N
V1	P1	7.0800	.65345	5
	P2	6.7600	1.05972	5
	P3	6.1800	.73959	5
	Total	6.6733	.86476	15
V2	P1	6.8800	.47645	5
	P2	6.9000	.24495	5
	P3	6.5800	.38987	5
	Total	6.7867	.38520	15
V3	P1	6.9000	.60000	5
	P2	6.7600	.90719	5
	P3	6.8000	.71063	5
	Total	6.8200	.69714	15
Total	P1	6.9533	.54624	15
	P2	6.8067	.76014	15
	P3	6.5200	.64387	15
	Total	6.7600	.66620	45

Tests of Between-Subjects Effects

Dependent Variable: DB

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2.632 ^a	8	.329	.701	.688
Intercept	2056.392	1	2056.392	4381.517	.000
Volume_Air_Kelapa	.177	2	.089	.189	.829
Pupuk_P	1.457	2	.729	1.553	.226
Volume_Air_Kelapa * Pupuk_P	.997	4	.249	.531	.714
Error	16.896	36	.469		
Total	2075.920	45			
Corrected Total	19.528	44			

a. R Squared = .135 (Adjusted R Squared = -.057)

Descriptive Statistics

Dependent Variable: JD

Volume_Air_Kelapa	Pupuk_P	Mean	Std. Deviation	N
V1	P1	3.8000	.44721	5
	P2	3.4000	.54772	5
	P3	3.2000	.44721	5
	Total	3.4667	.51640	15

V2	P1	3.4000	.54772	5
	P2	3.2000	.44721	5
	P3	3.4000	.54772	5
	Total	3.3333	.48795	15
V3	P1	3.2000	.44721	5
	P2	3.8000	.44721	5
	P3	3.0000	.00000	5
	Total	3.3333	.48795	15
Total	P1	3.4667	.51640	15
	P2	3.4667	.51640	15
	P3	3.2000	.41404	15
	Total	3.3778	.49031	45

Tests of Between-Subjects Effects

Dependent Variable: JD

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2.978 ^a	8	.372	1.763	.117
Intercept	513.422	1	513.422	2432.000	.000
Volume_Air_Kelapa	.178	2	.089	.421	.660
Pupuk_P	.711	2	.356	1.684	.200

Volume_Air_Kelapa *	2.089	4	.522	2.474	.062
Pupuk_P					
Error	7.600	36	.211		
Total	524.000	45			
Corrected Total	10.578	44			

a. R Squared = .282 (Adjusted R Squared = .122)

Descriptive Statistics

Dependent Variable: LD

Volume_Air_Kelapa	Pupuk_P	Mean	Std. Deviation	N
V1	P1	4.7000	.57009	5
	P2	4.9400	.56391	5
	P3	4.5000	.35355	5
	Total	4.7133	.50408	15
V2	P1	4.7000	.44721	5
	P2	5.0000	.35355	5
	P3	4.8400	.50299	5
	Total	4.8467	.42572	15
V3	P1	4.6000	.65192	5
	P2	4.7000	.97468	5
	P3	4.8000	.44721	5
	Total	4.7000	.67612	15
Total	P1	4.6667	.52327	15
	P2	4.8800	.64498	15
	P3	4.7133	.43567	15
	Total	4.7533	.53708	45

Tests of Between-Subjects Effects

Dependent Variable: LD

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.008 ^a	8	.126	.388	.920
Intercept	1016.738	1	1016.738	3132.709	.000
Volume_Air_Kelapa	.197	2	.099	.304	.740
Pupuk_P	.377	2	.189	.581	.564
Volume_Air_Kelapa * Pupuk_P	.433	4	.108	.334	.853
Error	11.684	36	.325		
Total	1029.430	45			
Corrected Total	12.692	44			

a. R Squared = .079 (Adjusted R Squared = -.125)

Descriptive Statistics

Dependent Variable: BST

Volume_Air_Kelapa	Pupuk_P	Mean	Std. Deviation	N
V1	P1	2.2540	.62172	5
	P2	3.1360	1.08864	5

	P3	2.5000	.80588	5
	Total	2.6300	.88463	15
V2	P1	2.8540	.52491	5
	P2	3.3460	.33471	5
	P3	2.9280	.77076	5
	Total	3.0427	.57510	15
V3	P1	3.0220	.62488	5
	P2	3.2900	.96091	5
	P3	3.0540	.51627	5
	Total	3.1220	.68325	15
Total	P1	2.7100	.64588	15
	P2	3.2573	.80180	15
	P3	2.8273	.70120	15
	Total	2.9316	.74185	45

Tests of Between-Subjects Effects

Dependent Variable: BST

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	5.083 ^a	8	.635	1.196	.329
Intercept	386.731	1	386.731	727.684	.000
Volume_Air_Kelapa	2.093	2	1.047	1.969	.154
Pupuk_P	2.491	2	1.246	2.344	.110
Volume_Air_Kelapa * Pupuk_P	.498	4	.125	.234	.917
Error	19.132	36	.531		

Total	410.946	45		
Corrected Total	24.215	44		

a. R Squared = .210 (Adjusted R Squared = .034)

Descriptive Statistics

Dependent Variable: BKT

Volume_Air_Kelapa	Pupuk_P	Mean	Std. Deviation	N
V1	P1	.5920	.17796	5
	P2	.7860	.20169	5
	P3	.5900	.11769	5
	Total	.6560	.18353	15
V2	P1	.6880	.10450	5
	P2	.8520	.08758	5
	P3	.7200	.17804	5
	Total	.7533	.14059	15
V3	P1	.7740	.09263	5
	P2	.8540	.23437	5
	P3	.8520	.11300	5
	Total	.8267	.15258	15
Total	P1	.6847	.14332	15
	P2	.8307	.17487	15
	P3	.7207	.17006	15
	Total	.7453	.17150	45

Tests of Between-Subjects Effects

Dependent Variable: BKT

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.443 ^a	8	.055	2.343	.039
Intercept	24.998	1	24.998	1057.416	.000
Volume_Air_Kelapa	.220	2	.110	4.651	.016
Pupuk_P	.174	2	.087	3.671	.035
Volume_Air_Kelapa * Pupuk_P	.050	4	.012	.524	.718
Error	.851	36	.024		
Total	26.293	45			
Corrected Total	1.294	44			

a. R Squared = .342 (Adjusted R Squared = .196)

BKT

Duncan^{a,b}

Volume_Air_Kelapa	N	Subset	
		1	2
V1	15	.6560	
V2	15	.7533	.7533
V3	15		.8267
Sig.		.092	.200

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .024.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

BKT

Duncan^{a,b}

Pupuk_P	N	Subset	
		1	2
P1	15	.6847	
P3	15	.7207	.7207
P2	15		.8307

Sig.		.525	.058
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Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .024.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

Descriptive Statistics

Dependent Variable: BSA

Volume_Air_Kelapa	Pupuk_P	Mean	Std. Deviation	N
V1	P1	.9900	.48503	5
	P2	1.2120	.77329	5
	P3	1.1420	.45795	5
	Total	1.1147	.55424	15
V2	P1	1.4200	.68217	5
	P2	1.3360	.37179	5
	P3	1.0180	.77251	5
	Total	1.2580	.61243	15
V3	P1	1.2120	.48494	5
	P2	1.3540	.55482	5
	P3	1.5660	.65160	5
	Total	1.3773	.54692	15
Total	P1	1.2073	.54808	15
	P2	1.3007	.55006	15
	P3	1.2420	.64087	15
	Total	1.2500	.56925	45

Tests of Between-Subjects Effects

Dependent Variable: BSA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.415 ^a	8	.177	.496	.851
Intercept	70.312	1	70.312	197.084	.000
Volume_Air_Kelapa	.519	2	.259	.727	.490
Pupuk_P	.067	2	.033	.094	.911
Volume_Air_Kelapa * Pupuk_P	.829	4	.207	.581	.678
Error	12.843	36	.357		
Total	84.571	45			
Corrected Total	14.258	44			

a. R Squared = .099 (Adjusted R Squared = -.101)

Descriptive Statistics

Dependent Variable: BKA

Volume_Air_Kelapa	Pupuk_P	Mean	Std. Deviation	N
V1	P1	.4980	.29903	5
	P2	.6140	.27392	5
	P3	.5480	.18780	5
	Total	.5533	.24389	15
V2	P1	.5500	.32442	5
	P2	.6220	.20753	5
	P3	.6460	.30088	5
	Total	.6060	.26462	15
V3	P1	.6820	.16976	5
	P2	.7120	.24397	5
	P3	.5620	.22163	5
	Total	.6520	.20922	15
Total	P1	.5767	.26511	15
	P2	.6493	.22992	15
	P3	.5853	.22800	15
	Total	.6038	.23832	45

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Tests of Between-Subjects Effects

Dependent Variable: BKA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.195 ^a	8	.024	.381	.924
Intercept	16.405	1	16.405	256.309	.000
Volume_Air_Kelapa	.073	2	.037	.571	.570
Pupuk_P	.047	2	.024	.369	.694
Volume_Air_Kelapa * Pupuk_P	.075	4	.019	.291	.882
Error	2.304	36	.064		
Total	18.904	45			
Corrected Total	2.499	44			

a. R Squared = .078 (Adjusted R Squared = -.127)

Descriptive Statistics

Dependent Variable: PA

Volume_Air_Kelapa	Pupuk_P	Mean	Std. Deviation	N
V1	P1	25.4000	3.83080	5
	P2	22.6000	5.17687	5
	P3	21.8000	3.96232	5
	Total	23.2667	4.34604	15
V2	P1	21.7000	1.56525	5
	P2	26.2000	4.30987	5
	P3	23.5000	8.71780	5
	Total	23.8000	5.60230	15
V3	P1	28.4000	10.43072	5
	P2	25.3000	5.91185	5
	P3	23.9000	6.50385	5
	Total	25.8667	7.54621	15
Total	P1	25.1667	6.63504	15
	P2	24.7000	5.04551	15
	P3	23.0667	6.25890	15
	Total	24.3111	5.94987	45

Tests of Between-Subjects Effects

Dependent Variable: PA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	196.644 ^a	8	24.581	.650	.731
Intercept	26596.356	1	26596.356	703.504	.000
Volume_Air_Kelapa	56.578	2	28.289	.748	.480
Pupuk_P	36.478	2	18.239	.482	.621
Volume_Air_Kelapa * Pupuk_P	103.589	4	25.897	.685	.607
Error	1361.000	36	37.806		
Total	28154.000	45			
Corrected Total	1557.644	44			

a. R Squared = .126 (Adjusted R Squared = -.068)

Descriptive Statistics

Dependent Variable: VA

Volume_Air_Kelapa	Pupuk_P	Mean	Std. Deviation	N
V1	P1	2.8000	.83666	5
	P2	2.4000	.89443	5
	P3	2.2000	.44721	5
	Total	2.4667	.74322	15
V2	P1	2.4000	.54772	5
	P2	2.6000	.54772	5
	P3	2.2000	1.09545	5
	Total	2.4000	.73679	15
V3	P1	2.4000	.54772	5
	P2	2.6000	.54772	5
	P3	2.6000	.54772	5
	Total	2.5333	.51640	15
Total	P1	2.5333	.63994	15
	P2	2.5333	.63994	15
	P3	2.3333	.72375	15
	Total	2.4667	.66058	45

Tests of Between-Subjects Effects

Dependent Variable: VA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.600 ^a	8	.200	.409	.908
Intercept	273.800	1	273.800	560.045	.000
Volume_Air_Kelapa	.133	2	.067	.136	.873
Pupuk_P	.400	2	.200	.409	.667
Volume_Air_Kelapa * Pupuk_P	1.067	4	.267	.545	.703
Error	17.600	36	.489		
Total	293.000	45			
Corrected Total	19.200	44			

a. R Squared = .083 (Adjusted R Squared = -.120)

Lampiran 4. Kegiatan Penelitian



Gambar1. Pengayakan Tanah



Gambar2. Persiapan media tanam



Gambar3. Penanaman Bibit Kelapa Sawit



Gambar4. Penyiraman



Gambar5. Pemupukan



Gambar6. Penyiraman Air Kelapa



Gambar7. Pengukuran Tinggi Tanaman



Gambar8. Panen Bibit Kelapa Sawit



Gambar9, Penimbangan Berat Segar Tajuk dan Akar



Gambar10. Pengukuran Volume Akar



Gambar11. Pengovenan



Gambar12. Penimbangan Berat kering akar dan tajuk