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LAMPIRAN

Lampiran 1. Sidik Ragam Pertambahan Tinggi Tanaman.

Tests of Between-Subjects Effects					
Dependent Variable: pertambahantinggitanaman					
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	230.419 ^a	15	15.361	1.135	.353
Intercept	22838.766	1	22838.766	1686.983	.000
NPK	50.707	3	16.902	1.248	.303
Kompos	66.692	3	22.231	1.642	.192
NPK * Kompos	113.021	9	12.558	.928	.510
Error	649.835	48	13.538		
Total	23719.020	64			
Corrected Total	880.254	63			

a. R Squared = .262 (Adjusted R Squared = .031)

Lampiran 2. Sidik Ragam Faktor Homogen NPK dan Kompos parameter pertambahan tinggi tanaman

NPK

Homogeneous Subsets

pertambahantinggitanaman

Duncan^{a,b}

NPK	N	Subset 1
N0	16	17.7750
N2	16	18.3875
N1	16	19.2750
N3	16	20.1250
Sig.		.105

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 13.538.

a. Uses Harmonic Mean
Sample Size = 16.000.

b. Alpha = .05.

Kompos

Homogeneous Subsets

pertambahantinggitanaman

Duncan^{a,b}

Kompos	N	Subset 1
K1	16	17.9875
K0	16	18.2125
K2	16	18.7750
K3	16	20.5875
Sig.		.073

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 13.538.

a. Uses Harmonic Mean
Sample Size = 16.000.

b. Alpha = .05.

Lampiran 3. Sidik Ragam Pertambahan Jumlah Daun

Tests of Between-Subjects Effects					
Dependent Variable: pertambahanjumlahdaun					
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	11.437 ^a	15	.762	1.181	.318
Intercept	945.562	1	945.562	1464.097	.000
NPK	3.313	3	1.104	1.710	.178
Kompos	3.312	3	1.104	1.710	.178
NPK * Kompos	4.812	9	.535	.828	.594
Error	31.000	48	.646		
Total	988.000	64			
Corrected Total	42.437	63			

a. R Squared = .270 (Adjusted R Squared = .041)

Lampiran 4. Sidik Ragam Faktor Homogen NPK dan Kompos Pertambahan Jumlah Daun.

NPK

Homogeneous Subsets

pertambahanjumlahdaun
Duncan^{a,b}

NPK	N	Subset	
		1	2
N0	16	3.5625	
N2	16	3.7500	3.7500
N1	16	3.8750	3.8750
N3	16		4.1875
Sig.		.306	.152

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .646.
a. Uses Harmonic Mean Sample Size = 16.000.
b. Alpha = .05.

Kompos

Homogeneous Subsets

pertambahanjumlahdaun
Duncan^{a,b}

Kompos	N	Subset	
		1	2
K0	16	3.5000	
K2	16	3.8125	3.8125
K1	16	3.9375	3.9375
K3	16		4.1250
Sig.		.152	.306

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .646.
a. Uses Harmonic Mean Sample Size = 16.000.
b. Alpha = .05.

Lampiran 5. Sidik Ragam Pertambahan Diameter Batang

Tests of Between-Subjects Effects

Dependent Variable: pertambahanDiameterBatang

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	23.736 ^a	15	1.582	.998	.473
Intercept	5842.691	1	5842.691	3684.183	.000
NPK	1.940	3	.647	.408	.748
Kompos	3.634	3	1.211	.764	.520
NPK * Kompos	18.161	9	2.018	1.272	.276
Error	76.123	48	1.586		
Total	5942.550	64			
Corrected Total	99.859	63			

a. R Squared = .238 (Adjusted R Squared = -.001)

Lampiran 6. Sidik Ragam Faktor Homogen NPK dan Kompos Pertambahan Diameter Batang

NPK

Homogeneous Subsets

pertambahanDiameterBatang
Duncan^{a,b}

NPK	N	Subset
		1
N0	16	9.3813
N2	16	9.4750
N1	16	9.5187
N3	16	9.8438
Sig.		.352

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 1.586.
a. Uses Harmonic Mean Sample Size = 16.000.
b. Alpha = .05.

Kompos

Homogeneous Subsets

pertambahanDiameterBatang
Duncan^{a,b}

Kompos	N	Subset
		1
K2	16	9.3125
K0	16	9.4250
K1	16	9.5375
K3	16	9.9438
Sig.		.203

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 1.586.
a. Uses Harmonic Mean Sample Size = 16.000.
b. Alpha = .05.

Lampiran 7. Sidik Ragam Panjang akar

Tests of Between-Subjects Effects

Dependent Variable: PanjangAkar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1448.324 ^a	15	96.555	1.459	.159
Intercept	145513.639	1	145513.639	2199.235	.000
NPK	158.784	3	52.928	.800	.500
Kompos	72.144	3	24.048	.363	.780
NPK * Kompos	1217.395	9	135.266	2.044	.054
Error	3175.947	48	66.166		
Total	150137.910	64			
Corrected Total	4624.271	63			

a. R Squared = .313 (Adjusted R Squared = .099)

Lampiran 8. Sidik Ragam Faktor Homogen NPK dan Kompos Panjang Akar.

NPK			Kompos		
Homogeneous Subsets			Homogeneous Subsets		
PanjangAkar			PanjangAkar		
Duncan ^{a,b}			Duncan ^{a,b}		
NPK	N	Subset	Kompos	N	Subset
N0	16	45.6625	K0	16	46.8438
N1	16	46.8500	K1	16	46.9000
N2	16	48.3750	K2	16	47.5250
N3	16	49.8438	K3	16	49.4625
Sig.		.192	Sig.		.415

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 66,166.
a. Uses Harmonic Mean Sample Size = 16,000.
b. Alpha = .05.

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 66,166.
a. Uses Harmonic Mean Sample Size = 16,000.
b. Alpha = .05.

Lampiran 9. Sidik Ragam Berat Segar Tajuk.

Tests of Between-Subjects Effects

Dependent Variable: BeratSegarTajuk

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2522.329 ^a	15	168.155	1.108	.375
Intercept	104805.969	1	104805.969	690.418	.000
NPK	322.719	3	107.573	.709	.552
Kompos	836.708	3	278.903	1.837	.153
NPK * Kompos	1362.901	9	151.433	.998	.455
Error	7286.432	48	151.801		
Total	114614.730	64			
Corrected Total	9808.761	63			

a. R Squared = .257 (Adjusted R Squared = .025)

Lampiran 10. Sidik Ragam Faktor Homogen NPK dan Kompos Berat Segar Tajuk

NPK			Kompos		
Homogeneous Subsets			Homogeneous Subsets		
BeratSegarTajuk			BeratSegarTajuk		
Duncan ^{a,b}			Duncan ^{a,b}		
NPK	N	Subset 1	Kompos	N	Subset 1 2
N0	16	37.7812	K0	16	36.0562
N2	16	39.1375	K1	16	39.5937 39.5937
N3	16	41.2250	K2	16	40.1000 40.1000
N1	16	43.7250	K3	16	46.1187
Sig.		.221	Sig.		.388 .164
Means for groups in homogeneous subsets are displayed. Based on observed means. The error term is Mean Square(Error) = 151,801.			Means for groups in homogeneous subsets are displayed. Based on observed means. The error term is Mean Square(Error) = 151,801.		
a. Uses Harmonic Mean Sample Size = 16,000.			a. Uses Harmonic Mean Sample Size = 16,000.		
b. Alpha = .05.			b. Alpha = .05.		

Lampiran 11. Sidik Ragam Berat Segar Akar.

Tests of Between-Subjects Effects					
Dependent Variable: BeratSegarAkar					
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	419.984 ^a	15	27.999	.876	.593
Intercept	19258.501	1	19258.501	602.623	.000
NPK	26.952	3	8.984	.281	.839
Kompos	37.226	3	12.409	.388	.762
NPK * Kompos	355.807	9	39.534	1.237	.296
Error	1533.975	48	31.958		
Total	21212.460	64			
Corrected Total	1953.959	63			
a. R Squared = .215 (Adjusted R Squared = -.030)					

Lampiran 12. Sidik Ragam Faktor Homogen NPK dan Kompos Berat Segar Akar

NPK			Kompos		
Homogeneous Subsets			Homogeneous Subsets		
BeratSegarAkar			BeratSegarAkar		
Duncan ^{a,b}			Duncan ^{a,b}		
NPK	N	Subset 1	Kompos	N	Subset 1
N2	16	16.7250	K2	16	16.4125
N0	16	16.8625	K1	16	16.7813
N3	16	17.4250	K3	16	18.0312
N1	16	18.3750	K0	16	18.1625
Sig.		.459	Sig.		.433
Means for groups in homogeneous subsets are displayed. Based on observed means. The error term is Mean Square(Error) = 31,958.			Means for groups in homogeneous subsets are displayed. Based on observed means. The error term is Mean Square(Error) = 31,958.		
a. Uses Harmonic Mean Sample Size = 16,000.			a. Uses Harmonic Mean Sample Size = 16,000.		
b. Alpha = .05.			b. Alpha = .05.		

Lampiran 13. Sidik Ragam Volume Akar

Tests of Between-Subjects Effects

Dependent Variable: VolumeAkar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	409.938 ^a	15	27.329	.700	.771
Intercept	23793.062	1	23793.062	609.753	.000
NPK	24.188	3	8.063	.207	.891
Kompos	41.188	3	13.729	.352	.788
NPK * Kompos	344.562	9	38.285	.981	.468
Error	1873.000	48	39.021		
Total	26076.000	64			
Corrected Total	2282.938	63			

a. R Squared = .180 (Adjusted R Squared = -.077)

Lampiran 14. Sidik Ragam Faktor Homogen NPK dan Kompos Volume Akar

NPK

Homogeneous Subsets

VolumeAkar

Duncan^{a,b}

NPK	N	Subset 1
N0	16	18.5000
N2	16	18.8750
N3	16	19.7500
N1	16	20.0000
Sig.		.543

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 39.021.

a. Uses Harmonic Mean
Sample Size = 16,000.
b. Alpha = .05.

Kompos

Homogeneous Subsets

VolumeAkar

Duncan^{a,b}

Kompos	N	Subset 1
K2	16	18.1250
K1	16	19.0000
K0	16	19.7500
K3	16	20.2500
Sig.		.389

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 39.021.

a. Uses Harmonic Mean
Sample Size = 16,000.
b. Alpha = .05.

Lampiran 15. Sidik Ragam Berat Kering Tajuk

Tests of Between-Subjects Effects

Dependent Variable: BeratKeringTajuk

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	390.411 ^a	15	26.027	1.005	.466
Intercept	11374.222	1	11374.222	439.296	.000
NPK	33.312	3	11.104	.429	.733
Kompos	65.554	3	21.851	.844	.477
NPK * Kompos	291.545	9	32.394	1.251	.288
Error	1242.814	48	25.892		
Total	13007.447	64			
Corrected Total	1633.225	63			

a. R Squared = .239 (Adjusted R Squared = .001)

Lampiran 16. Sidik Ragam Faktor Homogen NPK dan Kompos Berat Kering Tajuk

NPK

Homogeneous Subsets

BeratKeringTajuk
Duncan^{a,b}

NPK	N	Subset 1
N0	16	12.2813
N2	16	13.0425
N3	16	13.9975
N1	16	14.0037
Sig.		.391

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 25,892.
a. Uses Harmonic Mean Sample Size = 16,000.
b. Alpha = .05.

Kompos

Homogeneous Subsets

BeratKeringTajuk
Duncan^{a,b}

Kompos	N	Subset 1
K0	16	11.8769
K2	16	12.9188
K1	16	14.0788
K3	16	14.4506
Sig.		.199

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 25,892.
a. Uses Harmonic Mean Sample Size = 16,000.
b. Alpha = .05.

Lampiran 17. Sidik Ragam Berat Kering Akar

Tests of Between-Subjects Effects

Dependent Variable: BeratKeringAkar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	48.446 ^a	15	3.230	.895	.574
Intercept	1103.568	1	1103.568	305.874	.000
NPK	10.378	3	3.459	.959	.420
Kompos	3.791	3	1.264	.350	.789
NPK * Kompos	34.277	9	3.809	1.056	.412
Error	173.180	48	3.608		
Total	1325.195	64			
Corrected Total	221.626	63			

a. R Squared = .219 (Adjusted R Squared = -.026)

Lampiran 18. Sidik Ragam Faktor Homogen NPK dan Kompos Berat Kering Akar

NPK

Homogeneous Subsets

BeratKeringAkar
Duncan^{a,b}

NPK	N	Subset 1
N0	16	3.7281
N2	16	3.9625
N3	16	4.1106
N1	16	4.8088
Sig.		.149

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 3,608.
a. Uses Harmonic Mean Sample Size = 16,000.
b. Alpha = .05.

Kompos

Homogeneous Subsets

BeratKeringAkar
Duncan^{a,b}

Kompos	N	Subset 1
K0	16	3.8644
K2	16	3.9600
K1	16	4.3669
K3	16	4.4188
Sig.		.460

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 3,608.
a. Uses Harmonic Mean Sample Size = 16,000.
b. Alpha = .05.

Lampiran 19. Tabel Kombinasi

Dosis NPK	Dosis kompos			
	K0	K1	K2	K3
N0	N0K0	N0K1	N0K2	N0K3
N1	N1K0	N1K1	N1K2	N1K3
N2	N2K0	N2K1	N2K2	N2K3
N3	N3K0	N3K1	N3K2	N3K3

Keterangan :

Faktor 1 yaitu dosis pupuk NPK (N) terdiri dari 4 aras yaitu:

N0 : Sebagai kontrol

N1 : NPK dengan dosis 5 g/polybag

N2 : NPK dengan dosis 7,5 g/polybag

N3 : NPK dengan dosis 10 g/polybag

Faktor 2 yaitu Kompos Limbah Pasar (K) terdiri dari 4 aras yaitu :

K0 : Sebagai kontrol

K1 : Kompos dengan dosis 100 g/polybag

K2 : Kompos dengan dosis 250 g/polybag

K3 : Kompos dengan dosis 300 g/polybag

Lampiran 20. *Layout Penelitian*

N0K1 U3	N0K2 U1	N0K0 U2	N0K3 U4	N1K0 U1	N1K1 U3	N1K2 U4	N1K3 U2
N2K0 U1	N2K1 U2	N2K2 U4	N2K3 U3	N3K0 U3	N3K1 U1	N3K2 U4	N3K3 U2
N0K0 U4	N0K1 U1	N0K2 U2	N0K3 U3	N1K0 U4	N1K1 U1	N1K2 U3	N1K3 U4
N2K0 U4	N2K1 U1	N2K2 U3	N2K3 U2	N3K0 U1	N3K1 U2	N3K2 U1	N3K3 U4
N0K0 U1	N0K1 U4	N0K2 U3	N0K3 U2	N1K0 U3	N1K1 U4	N1K2 U1	N1K3 U3
N2K0 U2	N2K1 U4	N2K2 U1	N2K3 U4	N3K0 U4	N3K1 U3	N3K2 U2	N3K3 U1
N0K0 U3	N0K1 U2	N0K2 U4	N0K3 U1	N1K0 U2	N1K1 U2	N1K2 U2	N1K3 U1
N2K0 U3	N2K1 U3	N2K2 U2	N2K3 U1	N3K0 U2	N3K1 U4	N3K2 U3	N3K3 U3

Lampiran 21. Hasil analisis laboratorium kandungan hara kompos limbah pasar

 UPT LABORATORIUM					
LAPORAN HASIL UJI					
Nomor Kode Laboratorium : LS.09.03.26/858 Jenis Sampel : Tanah Nama Pemohon : Nawan Bukhori Situmorang Asal Sampel : Instiper Tgl diterima : 09-03-2026 Tgl Pengujian : 16-03-2026 s/d 26-05-2026 Jumlah Sampel : 1 sampel 2 Ulangan Jenis Analisis : Nitrogen Total, P ₂ O ₅ , K ₂ O Total, C Organik, pH					
No	Parameter Uji	Satuan	Kode Sampel		Metode Uji
			Ulangan 1	Ulangan 2	
1	Nitrogen	%	1,6592	1,6960	KJdal
2	P ₂ O ₅	%	2,0573	2,2422	Eks HNO ₃ +HClO ₄
3	K ₂ O Total	%	1,0524	1,1777	Walkey&Black
4	C Organik	%	23,4212	25,7219	Walkey&Black
5	pH		8,1	8,1	pH meter

Catatan:
 1. Hasil Uji hanya berlaku untuk contoh yang diuji
 2. Laporan Hasil Uji ini tidak boleh digandakan tanpa izin Kepala UPT Laboratorium Instiper Yogyakarta kecuali secara lengkap

Yogyakarta, 26 Mei 2026
 Ka UPT Laboratorium

 Galang Indra Jaya, S.P.,M.Sc

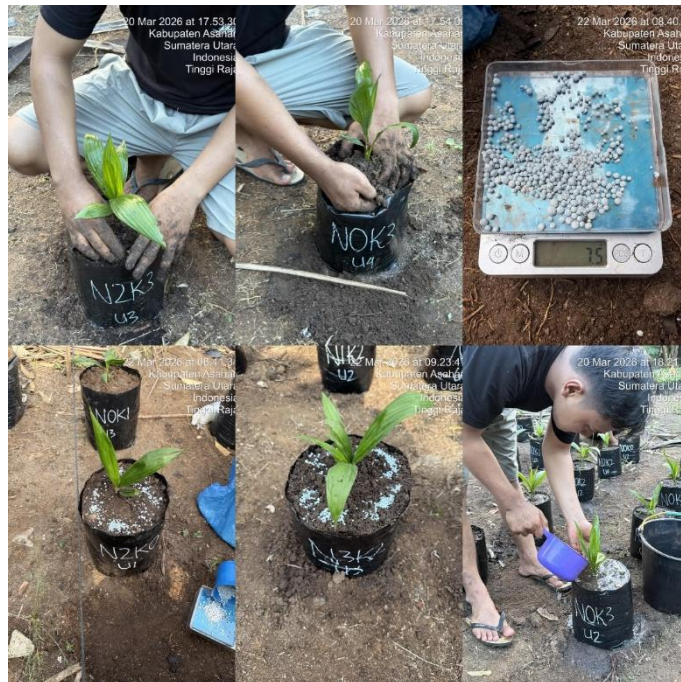
Lampiran 22. Pembuatan Kompos Limbah Pasar



Lampiran 23. Pengisian polybag dan aplikasi kompos limbah pasar



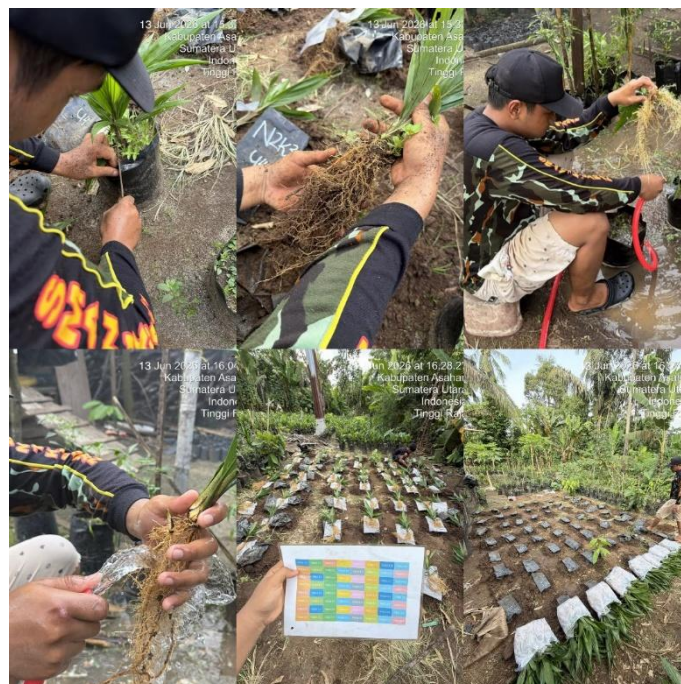
Lampiran 24. Pemindahan bibit kelapa sawit dan aplikasi pupuk NPK16:16:16



Lampiran 25. Pengamatan parameter tinggi tanaman, jumlah daun, diameter batang



Lampiran 26. Pemanenan kelapa sawit setelah 3 bulan pengamatan



Lampiran 27. Pengukuran parameter berat segar, berat kering dan volume akar



Lampiran 28. Analisis pH dan Tekstur Tanah

