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LAMPIRAN

Lampiran 1. Layout Penelitian

P2M2U1	P2M1U3	P1M2U2	P0M2U1
P2M1U1	P2M3U1	P3M1U3	P0M1U3
P2M2U2	P1M3U2	P1M3U3	P0M3U2
P1M2U3	P3M2U2	P2M3U3	P2M1U2
P1M2U1	P2M3U2	P3M2U3	P1M3U1
P0M2U2	P0M3U1	P3M3U2	P3M3U3
P0M3U3	P3M3U1	P0M1U2	P0M1U1
P2M2U3	P3M1U2	P0M2U3	P1M1U1

Lampiran 2. Hasil Pengolahan Data

Descriptive Statistics

Dependent Variable: PPT

Pupuk P	Mikoriza	Mean	Std. Deviation	N
P0	M1	20.0000	.00000	3
	M2	20.0000	.00000	3
	M3	20.0000	.00000	3
	Total	20.0000	.00000	9
P1	M1	20.0000	.00000	3
	M2	20.0000	.00000	3
	M3	20.0000	.00000	3
	Total	20.0000	.00000	9
P2	M1	20.0000	.00000	3
	M2	20.0000	.00000	3
	M3	20.3667	.63509	3
	Total	20.1222	.36667	9
P3	M1	20.4333	.75056	3
	M2	19.9333	.11547	3
	M3	22.1667	.75719	3
	Total	20.8444	1.14795	9
Total	M1	20.1083	.37528	12
	M2	19.9833	.05774	12
	M3	20.6333	1.02809	12
	Total	20.2417	.67755	36

Tests of Between-Subjects Effects

Dependent Variable: PPT

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	12.961 ^a	11	1.178	9.102	.000
Intercept	14750.102	1	14750.102	113949.290	.000
Pupuk_P	4.450	3	1.483	11.459	.000
Mikoriza	2.855	2	1.427	11.028	.000
Pupuk_P * Mikoriza	5.656	6	.943	7.283	.000
Error	3.107	24	.129		
Total	14766.170	36			
Corrected Total	16.068	35			

a. R Squared = .807 (Adjusted R Squared = .718)

PPT

Duncan^{a,b}

Interaksi	N	Subset	
		1	2
P3M2	3	19.9333	
P0M1	3	20.0000	
P0M2	3	20.0000	
P0M3	3	20.0000	
P1M1	3	20.0000	
P1M2	3	20.0000	
P1M3	3	20.0000	
P2M1	3	20.0000	
P2M2	3	20.0000	
P2M3	3	20.3667	
P3M1	3	20.4333	
P3M3	3		22.1667
Sig.		.158	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .129.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = .05.

Descriptive Statistics

Dependent Variable: PJD

Mikoriz		Mean	Std. Deviation	N
Pupuk	P			
P0	M1	5.0000	1.00000	3
	M2	5.0000	1.73205	3
	M3	4.6667	.57735	3
	Total	4.8889	1.05409	9
P1	M1	4.3333	1.15470	3
	M2	4.0000	1.00000	3
	M3	4.6667	.57735	3
	Total	4.3333	.86603	9
P2	M1	3.0000	1.00000	3
	M2	4.3333	1.52753	3
	M3	3.6667	1.52753	3
	Total	3.6667	1.32288	9
P3	M1	4.3333	.57735	3

Total	M2	5.0000	.00000	3
	M3	5.0000	.00000	3
	Total	4.7778	.44096	9
	Total	4.1667	1.11464	12
Total	M1	4.1667	1.11464	12
	M2	4.5833	1.16450	12
	M3	4.5000	.90453	12
	Total	4.4167	1.05221	36

Tests of Between-Subjects Effects

Dependent Variable: PJD

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	12.750 ^a	11	1.159	1.070	.423
Intercept	702.250	1	702.250	648.231	.000
Pupuk P	8.306	3	2.769	2.556	.079
Mikoriza	1.167	2	.583	.538	.591
Pupuk_P * Mikoriza	3.278	6	.546	.504	.799
Error	26.000	24	1.083		
Total	741.000	36			
Corrected Total	38.750	35			

a. R Squared = .329 (Adjusted R Squared = .022)

Descriptive Statistics

Dependent Variable: Panjang_Daun

Mikoriz		Std.		N
Pupuk P	a	Mean	Deviation	
P0	M1	30.5333	.75719	3
	M2	31.4667	1.27410	3
	M3	31.8333	1.19304	3
	Total	31.2778	1.11443	9
P1	M1	35.1333	2.40069	3
	M2	34.1667	1.23423	3
	M3	33.5000	1.65227	3
	Total	34.2667	1.73494	9
P2	M1	33.7000	1.37477	3
	M2	34.4667	1.27017	3
	M3	34.1333	.66583	3
	Total	34.1000	1.04762	9
P3	M1	34.7000	.81854	3

	M2	34.3667	1.18462	3
	M3	34.8667	.55076	3
	Total	34.6444	.80173	9
Total	M1	33.5167	2.26909	12
	M2	33.6167	1.67757	12
	M3	33.5833	1.50323	12
	Total	33.5722	1.79294	36

Tests of Between-Subjects Effects

Dependent Variable: Panjang_Daun

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	72.592 ^a	11	6.599	3.968	.002
Intercept	40575.388	1	40575.388	24394.021	.000
Pupuk_P	64.574	3	21.525	12.941	.000
Mikoriza	.062	2	.031	.019	.981
Pupuk_P * Mikoriza	7.956	6	1.326	.797	.581
Error	39.920	24	1.663		
Total	40687.900	36			
Corrected Total	112.512	35			

a. R Squared = .645 (Adjusted R Squared = .483)

Panjang_Daun

Duncan^{a,b}

Pupuk_P	N	Subset	
		1	2
P0	9	31.2778	
P2	9		34.1000
P1	9		34.2667
P3	9		34.6444
Sig.		1.000	.407

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1.663.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Descriptive Statistics

Dependent Variable: DB_Akhir

Pupuk_P	Mikoriz a	Mean	Std. Deviation	N
P0	M1	16.2000	1.05830	3
	M2	16.6000	.43589	3
	M3	17.4000	.96437	3
	Total	16.7333	.91652	9
P1	M1	18.5667	1.00167	3
	M2	17.7333	1.45717	3
	M3	18.6333	1.15902	3
	Total	18.3111	1.14285	9
P2	M1	19.4667	1.77858	3
	M2	18.9667	.80829	3
	M3	20.0333	.56862	3
	Total	19.4889	1.11741	9
P3	M1	20.2667	.15275	3
	M2	19.2000	.60000	3
	M3	19.8000	.79373	3
	Total	19.7556	.68394	9
Total	M1	18.6250	1.87040	12
	M2	18.1250	1.33765	12
	M3	18.9667	1.33644	12
	Total	18.5722	1.53169	36

Tests of Between-Subjects Effects

Dependent Variable: DB_Akhir

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	58.386 ^a	11	5.308	5.369	.000
Intercept	12417.388	1	12417.388	12560.437	.000
Pupuk_P	51.212	3	17.071	17.267	.000
Mikoriza	4.301	2	2.150	2.175	.135
Pupuk_P * Mikoriza	2.873	6	.479	.484	.813
Error	23.727	24	.989		
Total	12499.500	36			
Corrected Total	82.112	35			

a. R Squared = .711 (Adjusted R Squared = .579)

DB_Akhir

Duncan^{a,b}

Pupuk P	N	Subset		
		1	2	3
P0	9	16.7333		
P1	9		18.3111	
P2	9			19.4889
P3	9			19.7556
Sig.		1.000	1.000	.575

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .989.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Descriptive Statistics

Dependent Variable: Panjang_Akar

Pupuk P	Mikoriz a	Std.		N
		Mean	Deviation	
P0	M1	38.3333	2.92973	3
	M2	34.6667	3.78594	3
	M3	47.0000	8.54400	3
	Total	40.0000	7.35272	9
P1	M1	38.0000	3.46410	3
	M2	33.6667	3.21455	3
	M3	31.1833	3.38391	3
	Total	34.2833	4.16803	9
P2	M1	40.6667	8.14453	3
	M2	46.6667	4.72582	3
	M3	55.3333	4.04145	3
	Total	47.5556	8.18705	9
P3	M1	37.0000	3.60555	3
	M2	31.0000	1.73205	3
	M3	37.0000	9.64365	3
	Total	35.0000	6.02080	9
Total	M1	38.5000	4.48736	12
	M2	36.5000	6.97398	12
	M3	42.6292	11.35042	12
	Total	39.2097	8.29478	36

Tests of Between-Subjects Effects

Dependent Variable: Panjang_Akar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1720.717 ^a	11	156.429	5.462	.000
Intercept	55346.483	1	55346.483	1932.372	.000
Pupuk_P	1010.417	3	336.806	11.759	.000
Mikoriza	234.467	2	117.233	4.093	.030
Pupuk_P * Mikoriza	475.834	6	79.306	2.769	.034
Error	687.402	24	28.642		
Total	57754.603	36			
Corrected Total	2408.119	35			

a. R Squared = .715 (Adjusted R Squared = .584)

Panjang_Akar

Duncan^{a,b}

Interaksi	N	Subset		
		1	2	3
P3M2	3	31.0000		
P1M3	3	31.1833		
P1M2	3	33.6667		
P0M2	3	34.6667		
P3M1	3	37.0000	37.0000	
P3M3	3	37.0000	37.0000	
P1M1	3	38.0000	38.0000	
P0M1	3	38.3333	38.3333	
P2M1	3	40.6667	40.6667	
P2M2	3		46.6667	46.6667
P0M3	3		47.0000	47.0000
P2M3	3			55.3333
Sig.		.068	.055	.072

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 28.642.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = .05.

Descriptive Statistics

Dependent Variable: BBTJ

Pupuk P	Mikoriza	Mean	Std. Deviation	N
P0	M1	12.1467	1.88107	3
	M2	14.4267	1.42135	3
	M3	17.3567	2.11453	3
	Total	14.6433	2.76105	9
P1	M1	16.6567	2.80190	3
	M2	15.2600	2.69115	3
	M3	13.4000	1.40289	3
	Total	15.1056	2.50345	9
P2	M1	15.7100	5.39929	3
	M2	15.0767	3.36310	3
	M3	19.9833	1.17492	3
	Total	16.9233	3.97530	9
P3	M1	19.0133	4.84502	3
	M2	16.2033	6.32121	3
	M3	13.0100	3.30114	3
	Total	16.0756	5.03478	9
Total	M1	15.8817	4.27673	12
	M2	15.2417	3.38326	12
	M3	15.9375	3.53695	12
	Total	15.6869	3.65788	36

Tests of Between-Subjects Effects

Dependent Variable: BBTJ

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	181.776 ^a	11	16.525	1.384	.243
Intercept	8858.888	1	8858.888	742.036	.000
Pupuk_P	27.961	3	9.320	.781	.516
Mikoriza	3.588	2	1.794	.150	.861
Pupuk_P * Mikoriza	150.227	6	25.038	2.097	.091
Error	286.527	24	11.939		
Total	9327.192	36			
Corrected Total	468.303	35			

a. R Squared = .388 (Adjusted R Squared = .108)

Descriptive Statistics

Dependent Variable: BKTJ

Pupuk_P	Mikoriz a	Mean	Std. Deviation	N
P0	M1	3.4667	.42218	3
	M2	4.0233	.44230	3
	M3	4.8367	.87008	3
	Total	4.1089	.79923	9
P1	M1	4.6800	1.08586	3
	M2	4.2500	.66903	3
	M3	3.8533	.38553	3
	Total	4.2611	.75633	9
P2	M1	4.2633	1.84232	3
	M2	4.5400	1.03479	3
	M3	5.0167	.84477	3
	Total	4.6067	1.18472	9
P3	M1	5.6633	1.31439	3
	M2	3.6400	.62000	3
	M3	4.2467	1.09226	3
	Total	4.5167	1.27862	9
Total	M1	4.5183	1.36458	12
	M2	4.1133	.70682	12
	M3	4.4883	.86397	12
	Total	4.3733	1.00586	36

Tests of Between-Subjects Effects

Dependent Variable: BKTJ

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	12.632 ^a	11	1.148	1.210	.333
Intercept	688.538	1	688.538	725.421	.000
Pupuk_P	1.418	3	.473	.498	.687
Mikoriza	1.222	2	.611	.644	.534
Pupuk_P * Mikoriza	9.992	6	1.665	1.755	.152
Error	22.780	24	.949		
Total	723.949	36			
Corrected Total	35.411	35			

a. R Squared = .357 (Adjusted R Squared = .062)

Descriptive Statistics

Dependent Variable: BBA

Pupuk_P	Mikoriza	Mean	Std. Deviation	N
P0	M1	8.7167	3.15446	3
	M2	14.0567	.11240	3
	M3	19.1900	3.68077	3
	Total	13.9878	5.14272	9
P1	M1	19.1767	1.96716	3
	M2	12.9900	4.17601	3
	M3	12.5967	2.85353	3
	Total	14.9211	4.19269	9
P2	M1	17.7633	9.31349	3
	M2	19.5467	7.89553	3
	M3	18.2467	3.47693	3
	Total	18.5189	6.39768	9
P3	M1	17.9367	4.57821	3
	M2	12.0933	2.92276	3
	M3	16.3900	4.24972	3
	Total	15.4733	4.33191	9
Total	M1	15.8983	6.41669	12
	M2	14.6717	5.02291	12
	M3	16.6058	4.04689	12
	Total	15.7253	5.16465	36

Tests of Between-Subjects Effects

Dependent Variable: BBA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	410.185 ^a	11	37.290	1.710	.131
Intercept	8902.237	1	8902.237	408.211	.000
Pupuk_P	103.800	3	34.600	1.587	.219
Mikoriza	22.985	2	11.493	.527	.597
Pupuk_P * Mikoriza	283.400	6	47.233	2.166	.082
Error	523.390	24	21.808		
Total	9835.812	36			
Corrected Total	933.575	35			

a. R Squared = .439 (Adjusted R Squared = .182)

Descriptive Statistics

Dependent Variable: BKA

Pupuk_P	Mikoriz a	Mean	Std. Deviation	N
P0	M1	1.5833	.37072	3
	M2	3.4000	.38974	3
	M3	5.0533	.91090	3
	Total	3.3456	1.59346	9
P1	M1	5.8400	1.00015	3
	M2	3.0700	1.58880	3
	M3	3.0867	1.02026	3
	Total	3.9989	1.74589	9
P2	M1	4.0133	1.56494	3
	M2	5.0533	2.99944	3
	M3	5.1800	2.72213	3
	Total	4.7489	2.24082	9
P3	M1	4.9700	1.50463	3
	M2	3.4667	1.97677	3
	M3	4.4000	.89084	3
	Total	4.2789	1.47421	9
Total	M1	4.1017	1.95583	12
	M2	3.7475	1.86480	12
	M3	4.4300	1.60731	12
	Total	4.0931	1.78522	36

Tests of Between-Subjects Effects

Dependent Variable: BKA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	48.534 ^a	11	4.412	1.681	.139
Intercept	603.112	1	603.112	229.717	.000
Pupuk_P	9.290	3	3.097	1.180	.338
Mikoriza	2.796	2	1.398	.533	.594
Pupuk_P * Mikoriza	36.447	6	6.075	2.314	.066
Error	63.011	24	2.625		
Total	714.656	36			
Corrected Total	111.545	35			

a. R Squared = .435 (Adjusted R Squared = .176)

Descriptive Statistics

Dependent Variable: Volume_Akar

Pupuk_P	Mikoriz a	Mean	Std. Deviation	N
P0	M1	11.6667	2.88675	3
	M2	11.6667	2.88675	3
	M3	16.6667	2.88675	3
	Total	13.3333	3.53553	9
P1	M1	16.6667	2.88675	3
	M2	11.6667	2.88675	3
	M3	11.6667	2.88675	3
	Total	13.3333	3.53553	9
P2	M1	15.0000	5.00000	3
	M2	15.0000	5.00000	3
	M3	20.0000	.00000	3
	Total	16.6667	4.33013	9
P3	M1	15.0000	5.00000	3
	M2	10.0000	.00000	3
	M3	15.0000	5.00000	3
	Total	13.3333	4.33013	9
Total	M1	14.5833	3.96481	12
	M2	12.0833	3.34279	12
	M3	15.8333	4.17424	12
	Total	14.1667	4.05322	36

Tests of Between-Subjects Effects

Dependent Variable: Volume_Akar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	275.000 ^a	11	25.000	2.000	.075
Intercept	7225.000	1	7225.000	578.000	.000
Pupuk_P	75.000	3	25.000	2.000	.141
Mikoriza	87.500	2	43.750	3.500	.046
Pupuk_P * Mikoriza	112.500	6	18.750	1.500	.221
Error	300.000	24	12.500		
Total	7800.000	36			
Corrected Total	575.000	35			

a. R Squared = .478 (Adjusted R Squared = .239)

Volume_Akar

Duncan^{a,b}

Mikoriz a	N	Subset	
		1	2
M2	12	12.0833	
M1	12	14.5833	14.5833
M3	12		15.8333
Sig.		.096	.395

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 12.500.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

Descriptive Statistics

Dependent Variable: BSTN

Pupuk_P	Mikoriz a	Mean	Std. Deviation	N
P0	M1	20.8667	4.78102	3
	M2	28.4967	1.32493	3
	M3	36.7267	5.68297	3
	Total	28.6967	7.83668	9
P1	M1	35.8333	4.74283	3
	M2	28.2633	3.37198	3
	M3	26.0267	3.54480	3
	Total	30.0411	5.60512	9
P2	M1	33.4833	14.60839	3
	M2	34.6300	11.25516	3
	M3	38.2300	4.50043	3
	Total	35.4478	9.73063	9
P3	M1	36.5667	7.25075	3
	M2	28.0967	7.75003	3
	M3	29.5467	7.54159	3
	Total	31.4033	7.60056	9
Total	M1	31.6875	10.02991	12
	M2	29.8717	6.67794	12
	M3	32.6325	7.05655	12
	Total	31.3972	7.91405	36

Tests of Between-Subjects Effects

Dependent Variable: BSTN

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	925.749 ^a	11	84.159	1.595	.164
Intercept	35488.280	1	35488.280	672.562	.000
Pupuk_P	229.852	3	76.617	1.452	.253
Mikoriza	47.250	2	23.625	.448	.644
Pupuk_P * Mikoriza	648.647	6	108.108	2.049	.098
Error	1266.379	24	52.766		
Total	37680.408	36			
Corrected Total	2192.128	35			

a. R Squared = .422 (Adjusted R Squared = .158)

Descriptive Statistics

Dependent Variable: BKTN

Mikoriz		Std.		N
Pupuk_P	a	Mean	Deviation	
P0	M1	5.0667	.62517	3
	M2	7.4333	.81819	3
	M3	9.9000	.36592	3
	Total	7.4667	2.16319	9
P1	M1	10.5433	2.11001	3
	M2	7.3200	1.41778	3
	M3	6.9433	1.24130	3
	Total	8.2689	2.22199	9
P2	M1	8.2767	3.40286	3
	M2	9.6033	4.03596	3
	M3	10.2000	3.20875	3
	Total	9.3600	3.20438	9
P3	M1	10.6333	2.77479	3
	M2	7.1067	2.32951	3
	M3	8.6467	1.73096	3
	Total	8.7956	2.52489	9
Total	M1	8.6300	3.15843	12
	M2	7.8658	2.35548	12
	M3	8.9225	2.12509	12
	Total	8.4728	2.54998	36

Tests of Between-Subjects Effects

Dependent Variable: BKTN

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	100.616 ^a	11	9.147	1.729	.127
Intercept	2584.367	1	2584.367	488.507	.000
Pupuk_P	17.507	3	5.836	1.103	.367
Mikoriza	7.144	2	3.572	.675	.518
Pupuk_P * Mikoriza	75.965	6	12.661	2.393	.059
Error	126.968	24	5.290		
Total	2811.951	36			
Corrected Total	227.584	35			

a. R Squared = .442 (Adjusted R Squared = .186)

Lampiran 3. Tinggi Tanaman Bibit Kelapa Sawit umur 12 Minggu (cm).

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	35.2	35.5	36	106.7	35.6
	2	35.7	37,3	36.6	72.3	36.2
	3	36.6	37.5	38.5	112.6	37.5
P1	1	41.8	38	37	116.8	38.9
	2	43	40.1	38.1	121.2	40.4
	3	38	40	40	118	39.3
P2	1	39.2	40.5	38.8	118.5	39.5
	2	37.4	38	39.5	114.9	38.3
	3	40.1	41.5	39.9	121.5	40.5
P3	1	39.8	40	41.6	121.4	40.5
	2	39.8	38	40.7	118.5	39.5
	3	40.7	40	41.5	122.2	40.7
Jumlah		467.3	429.1	468.2	1364.6	
Rerata		38.9417	39.0091	39.0167		38.9

Lampiran 4. Daftar Sidik Ragam Tinggi Tanaman Bibit Kelapa Sawit (cm).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	12.961	1.178	9.102	0
Pupuk P	3	4.450	1.483	11.459	0
Mikoriza	2	2.855	1.427	11.028	0
Pupuk P dan Mikoriza	6	5.656	1	7.283	0
Galat	24	3.107	0		
Total	36	14.766.170			

Lampiran 5. Pertambahan Tinggi Tanaman Bibit Kelapa Sawit di Main prenursery yang dipengaruhi oleh Dosis Pupuk P.

Dosis Pupuk P g/polybag	Umur bibit (minggu)								
	4	5	6	7	8	9	10	11	12
0	20.3	21.8	23.5	25.2	26.2	28.5	30.9	33.1	35.2
2	24.3	26.1	28.5	30.2	32.5	35	37.2	39.5	41.8
4.5	22	24.1	25.8	27.9	30.1	32.3	34.5	36.7	39.2
7	21.6	23.7	25.8	27.6	29.8	32	34.3	36.7	39.8

Lampiran 6. Pertambahan Tinggi Tanaman Bibit Kelapa Sawit di Main prenursery yang dipengaruhi oleh Mikoriza.

Dosis Mikoriza g/polybag	Umur bibit (minggu)								
	4	5	6	7	8	9	10	11	12
15	19	20.3	22.1	24.2	26.7	28.9	31.1	33.4	35.7
30	27.9	29.9	31.8	32.4	33.8	36.5	38.8	41.2	43
45	19.8	21.9	24	26.1	28.2	30.5	32.9	35.4	37.4

Lampiran 7. Jumlah Daun Bibit Kelapa Sawit umur 12 Minggu (helai).

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	7	7	8	22	7.333
	2	9	9	8	26	8.667
	3	8	9	8	25	8.333
P1	1	7	8	8	23	7.667
	2	8	7	7	22	7.333
	3	8	6	8	22	7.333
P2	1	8	6	7	21	7.000
	2	7	7	7	21	7.000
	3	6	9	8	23	7.667
P3	1	7	8	8	23	7.667
	2	9	8	8	25	8.333
	3	7	8	8	23	7.667
Jumlah		91	92	93	276	
Rerata		7.5833	7.6667	7.7500		7.667

Lampiran 8. Daftar Sidik Ragam Jumlah Daun Bibit Kelapa Sawit umur 12 Minggu (helai).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	12.750	1.159	1.070	0
Pupuk P	3	8.306	2.769	2.556	0
Mikoriza	2	1.167	1	1	0
Pupuk P dan Mikoriza	6	3.278	1	1	0
Galat	24	26.000	1.083		
Total	36	741.000			

Lampiran 9. Pertambahan Jumlah Daun Bibit Kelapa Sawit di Main nursery yang dipengaruhi oleh Pupuk P.

Dosis Pupuk P g/polybag	Umur bibit (minggu)				
	4	6	8	10	12
0	3	4	6	7	7
2	4	5	6	7	7
4.5	4	5	7	8	8
7	3	4	7	7	7

Lampiran 10. Pertambahan Jumlah Daun Bibit Kelapa Sawit di Main nursery yang dipengaruhi oleh Mikoriza.

Dosis Mikoriza g/polybag	Umur bibit (minggu)				
	4	6	8	10	12
15	3	4	7	9	9
30	4	5	7	8	8
45	3	4	7	7	7

Lampiran 11. Panjang Daun Bibit Kelapa Sawit umur 12 Minggu (cm)

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	30	30	31	91	30.3
	2	30.2	32.1	31.3	93.6	31.2
	3	31.4	32.3	33.2	96.9	32.3
P1	1	35.7	32.8	31.8	100.3	33.4
	2	37.2	34.5	33.6	105.3	35.1
	3	32.5	35.2	35.1	102.8	34.3
P2	1	34	35.2	33.4	102.6	34.2
	2	32.2	33	34.3	99.5	33.2
	3	34.9	35.2	34.7	104.8	34.9
P3	1	34.5	35.1	35.5	105.1	35.0
	2	34	33	34.6	101.6	33.9
	3	35.6	35	34.5	105.1	35.0
Jumlah		402.2	403.4	403	1.208.6	
Rerata		33.5167	33.6167	33.5833		33.572

Lampiran 12. Daftar Sidik Ragam Panjang Daun umur 12 Minggu (cm).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	72.592	6.599	3.968	0
Pupuk P	3	64.574	21.525	12.941	0
Mikoriza	2	0	0	0	0
Pupuk P dan Mikoriza	6	7.956	1.326	1	0
Galat	24	39.920	1.663		
Total	36	40.687.900			

Lampiran 13. Diameter Batang Bibit Kelapa Sawit umur 12 Minggu (cm)

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	15.4	16.3	16.3	48	16.0
	2	15.8	17.1	17.8	50.7	16.9
	3	17.4	16.4	18.1	51.9	17.3
P1	1	19.7	17.9	19.2	56.8	18.9
	2	17.8	19.1	17.3	54.2	18.1
	3	18.2	16.2	19.4	53.8	17.9
P2	1	18.7	19.1	19.4	57.2	19.1
	2	18.2	19.7	20.2	58.1	19.4
	3	21.5	18.1	20.5	60.1	20.0
P3	1	20.4	18.6	18.9	57.9	19.3
	2	20.1	19.2	20.4	59.7	19.9
	3	20.3	19.8	20.1	60.2	20.1
Jumlah		223.5	217.5	227.6	668.6	
Rerata		18.6250	18.1250	18.9667		18.572

Lampiran 14. Daftar Sidik Ragam Diameter Batang umur 12 Minggu (cm).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	58.386	5.308	5.369	0
Pupuk P	3	51.212	17.071	17.267	0
Mikoriza	2	4.301	2.150	2.175	0
Pupuk P dan Mikoriza	6	2.873	0	0	0
Galat	24	23.727	1		
Total	36	12.499.500			

Lampiran 15. Panjang akar Bibit Kelapa Sawit umur 12 Minggu (cm).

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	40.5	32	55	127.5	42.5
	2	39.5	39	48	126.5	42.2
	3	35	33	38	106	35.3
P1	1	40	36	35	111	37.0
	2	34	30	30	94	31.3
	3	40	35	28.5	103.5	34.5
P2	1	35	45	56	136	45.3
	2	37	52	51	140	46.7
	3	50	43	59	152	50.7
P3	1	36	30	33	99	33.0
	2	34	33	28	95	31.7
	3	41	30	30	101	33.7
Jumlah		462	438	491.5	1391.5	
Rerata		38.5000	36.5000	40.9583		38.653

Lampiran 16. Daftar Sidik Ragam Panjang Akar umur 12 Minggu (cm).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	1.720.717	156.429	5.462	0
Pupuk P	3	1.010.417	336.806	11.759	0
Mikoriza	2	234.467	117.233	4.093	0
Pupuk P dan Mikoriza	6	475.834	79.306	2.769	0
Galat	24	687.402	28.642		
Total	36	57.754.603			

Lampiran 17. Volume Akar Bibit Kelapa Sawit umur 12 Minggu (mm).

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	15	10	15	40	13.3
	2	10	10	20	40	13.3
	3	10	15	15	40	13.3
P1	1	20	15	15	50	16.7
	2	15	10	10	35	11.7
	3	15	10	10	35	11.7
P2	1	10	20	20	50	16.7
	2	15	15	20	50	16.7
	3	20	10	20	50	16.7
P3	1	10	10	20	40	13.3
	2	15	10	15	40	13.3
	3	20	10	10	40	13.3
Jumlah		175	145	190	510	
Rerata		14.5833	12.0833	15.8333		14.167

Lampiran 18. Daftar Sidik Ragam Volume Akar umur 12 Minggu (mm).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	275.000	25.000	2.000	0
Pupuk P	3	75.000	25.000	2.000	0
Mikoriza	2	87.500	43.750	3.500	0
Pupuk P dan Mikoriza	6	112.500	18.750	1.500	0
Galat	24	300.000	12.500		
Total	36	7.800.000			

Lampiran 19. Berat segar Tanaman Bibit Kelapa Sawit umur 12 Minggu (g).

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	23.3	26.99	35.12	85.41	28.5
	2	15.36	29.48	43.04	87.88	29.3
	3	23.96	29.02	32.02	85	28.3
P1	1	39.75	31.7	28.27	99.72	33.2
	2	30.56	28.13	27.87	86.56	28.9
	3	37.19	24.96	21.94	84.09	28.0
P2	1	17.31	47.09	37.8	102.2	34.1
	2	37.42	31.6	33.96	102.98	34.3
	3	45.72	25.2	42.93	113.85	38.0
P3	1	31.7	37.04	30.46	99.2	33.1
	2	33.1	23.9	36.59	93.59	31.2
	3	44.9	23.35	21.59	89.84	29.9
Jumlah		380.27	358.46	391.59	1130.32	
Rerata		31.6892	29.8717	32.6325		31.398

Lampiran 20. Daftar Sidik Ragam Berat segar Tanaman umur 12 Minggu (g).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	925.749	84.159	1.595	0
Pupuk P	3	229.852	76.617	1.452	0
Mikoriza	2	47.250	23.625	0	0
Pupuk P dan Mikoriza	6	648.647	108.108	2.049	0
Galat	24	1.266.379	52.766		
Total	36	37.680.408			

Lampiran 21. Berat Kering Tanaman Bibit Kelapa Sawit umur 12 Minggu (g).

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	5	6.49	9.48	20.97	7.0
	2	4.45	8	10.15	22.6	7.5
	3	5.7	7.95	10.07	23.72	7.9
P1	1	12.65	8.88	7.31	28.84	9.6
	2	8.43	6.97	7.96	23.36	7.8
	3	10.55	6.11	5.56	22.22	7.4
P2	1	7.62	8.83	9.75	26.2	8.7
	2	5.25	6.01	7.24	18.5	6.2
	3	11.96	13.97	13.61	39.54	13.2
P3	1	7.45	7.63	9.83	24.91	8.3
	2	11.91	4.56	9.45	25.92	8.6
	3	12.54	9.13	6.66	28.33	9.4
Jumlah		103.51	94.53	107.07	305.11	
Rerata		8.6258	7.8775	8.9225		8.475

Lampiran 22. Daftar Sidik Ragam Berat Kering Tanaman umur 12 Minggu (g).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	100.616	9.147	1.729	0
Pupuk P	3	17.507	5.836	1.103	0
Mikoriza	2	7.144	3.572	1	1
Pupuk P dan Mikoriza	6	75.065	12.661	2.393	0
Galat	24	126.968	5.290		
Total	36	2.811.951			

Lampiran 23. Berat segar Akar Bibit Kelapa Sawit umur 12 Minggu (g).

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	11.1	14.18	17.1	42.38	14.1
	2	5.13	13.96	23.44	42.53	14.2
	3	9.96	14.03	17.03	41.02	13.7
P1	1	20.59	17.7	13.17	51.46	17.2
	2	16.93	9.74	15.12	41.79	13.9
	3	20.01	11.53	9.5	41.04	13.7
P2	1	7.74	28.27	18.5	54.51	18.2
	2	19.4	17.48	14.65	51.53	17.2
	3	26.15	12.89	21.59	60.63	20.2
P3	1	12.94	14.1	17.1	44.14	14.7
	2	18.94	8.74	20.24	47.92	16.0
	3	21.93	13.44	11.83	47.2	15.7
Jumlah		190.82	176.06	199.27	566.15	
Rerata		15.9017	14.6717	16.6058		15.726

Lampiran 24. Daftar Sidik Ragam Berat segar Akar umur 12 Minggu (g).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	410.185	37.290	1.710	0
Pupuk P	3	103.800	34.600	1.580	0
Mikoriza	2	22.985	11.493	1	1
Pupuk P dan Mikoriza	6	283.400	47.233	2.166	0
Galat	24	523.390	21.808		
Total	36	9.835.812			

Lampiran 25. Berat Kering Akar Bibit Kelapa Sawit umur 12 Minggu (g).

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	1.9	2.97	4.62	9.49	3.2
	2	1.16	3.5	4.44	9.1	3.0
	3	1.74	3,73	6.1	7.84	3.9
P1	1	6.85	4.89	3.06	14.8	4.9
	2	4.85	1.96	4.12	10.93	3.6
	3	5.82	2.36	2.08	10.26	3.4
P2	1	3.81	4.53	4.08	12.42	4.1
	2	2.56	2.35	3.18	8.09	2.7
	3	5.67	8.28	8.28	22.23	7.4
P3	1	3.3	3.37	5.36	12.03	4.0
	2	5.39	1.54	4.24	11.17	3.7
	3	6.22	5.49	3.6	15.31	5.1
Jumlah		49.27	41.24	53.16	143.67	
Rerata		4.1058	3.7491	4.4300		4.100

Lampiran 26. Daftar Sidik Ragam Berat Kering Akar umur 12 Minggu (g).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	48.534	4.412	1.681	0
Pupuk P	3	9.290	3.097	1.180	0
Mikoriza	2	2.796	1.398	1	1
Pupuk P dan Mikoriza	6	36.447	6.075	2.314	0
Galat	24	63.011	2.625		
Total	36	714.656			

Lampiran 27. Berat segar Tajuk Bibit Kelapa Sawit umur 12 Minggu (g).

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	12.22	12.81	18.02	43.05	14.4
	2	10.23	15.48	19.06	44.77	14.9
	3	13.99	14.99	14.99	43.97	14.7
P1	1	19.66	14	15.01	48.67	16.2
	2	13.63	18.35	12.75	44.73	14.9
	3	17.18	13.43	12.44	43.05	14.4
P2	1	9.54	18.82	19.3	47.66	15.9
	2	18.02	14.1	19.31	51.43	17.1
	3	19.57	12.31	21.34	53.22	17.7
P3	1	19.03	22.97	12.91	54.91	18.3
	2	14.16	15.19	16.36	45.71	15.2
	3	23.83	10.45	9.76	33.59	16.8
Jumlah		191.06	172.45	191.25	554.76	
Rerata		15.9217	15.6773	15.9375		15.877

Lampiran 28. Daftar Sidik Ragam Berat segar Tajuk umur 12 Minggu (g).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	181.776	16.525	1.384	0
Pupuk P	3	27.961	9.320	1	1
Mikoriza	2	3.588	1.794	0	1
Pupuk P dan Mikoriza	6	150.227	25.038	2.097	0
Galat	24	286.527	11.939		
Total	36	9.327.192			

Lampiran 29. Berat Kering Tajuk Bibit Kelapa Sawit umur 12 Minggu (g).

Pupuk P	Ulangan	Mikoriza			Jumlah	Rerata
		M1	M2	M3		
P0	1	3.17	3.52	4.85	11.54	3.8
	2	3.28	4.35	5.7	13.33	4.4
	3	3.95	4.2	3.96	12.11	4.0
P1	1	5.74	3.99	4.25	13.98	4.7
	2	3.57	5.01	3.83	12.41	4.1
	3	4.73	3.75	3.48	11.96	4.0
P2	1	3.81	4.28	5.66	13.75	4.6
	2	2.69	3.66	4.06	10.41	3.5
	3	6.29	5.68	5.33	17.3	5.8
P3	1	4.15	4.26	4.47	12.88	4.3
	2	6.52	3.02	5.21	14.75	4.9
	3	6.32	3.64	3.06	13.02	4.3
Jumlah		54.22	49.36	53.86	157.44	
Rerata		4.5183	4.1133	4.4883		4.373

Lampiran 30. Daftar Sidik Ragam Berat Kering Tajuk umur 12 Minggu (g).

Sumber Keragaman	Derajat bebas	Jumlah Kuadrat	Kuadrat Tengah	F Hitung	Sig.
Perlakuan	11	12.632	1.148	1.210	0
Pupuk P	3	1.418	0	0	1
Mikoriza	2	1.222	1	1	1
Pupuk P dan Mikoriza	6	9.992	1.665	1.755	0
Galat	24	22.780	1		
Total	36	723.949			

Lampiran 31. Dokumentasi Kegiatan



Pengambilan Tanah



Pengayakan Tanah



Pengisian Polybag



Penanaman Bibit



Penyiraman Tanaman



Pemberian Pupuk P dan Mikoriza



Pemberian Pupuk Larut (urea)



Pengukuran Diameter Batang



Pengukuran Tinggi Tanaman



Data Diameter Batang dan Tinggi Tanaman



Panen



Penimbangan Berat Segar Tanaman



Penimbangan Berat Segar Akar



Pengukuran panjang Akar



Volume Akar



Pengukuran Luas Daun



Pengovenan



Penimbangan Berat Kering Tanaman