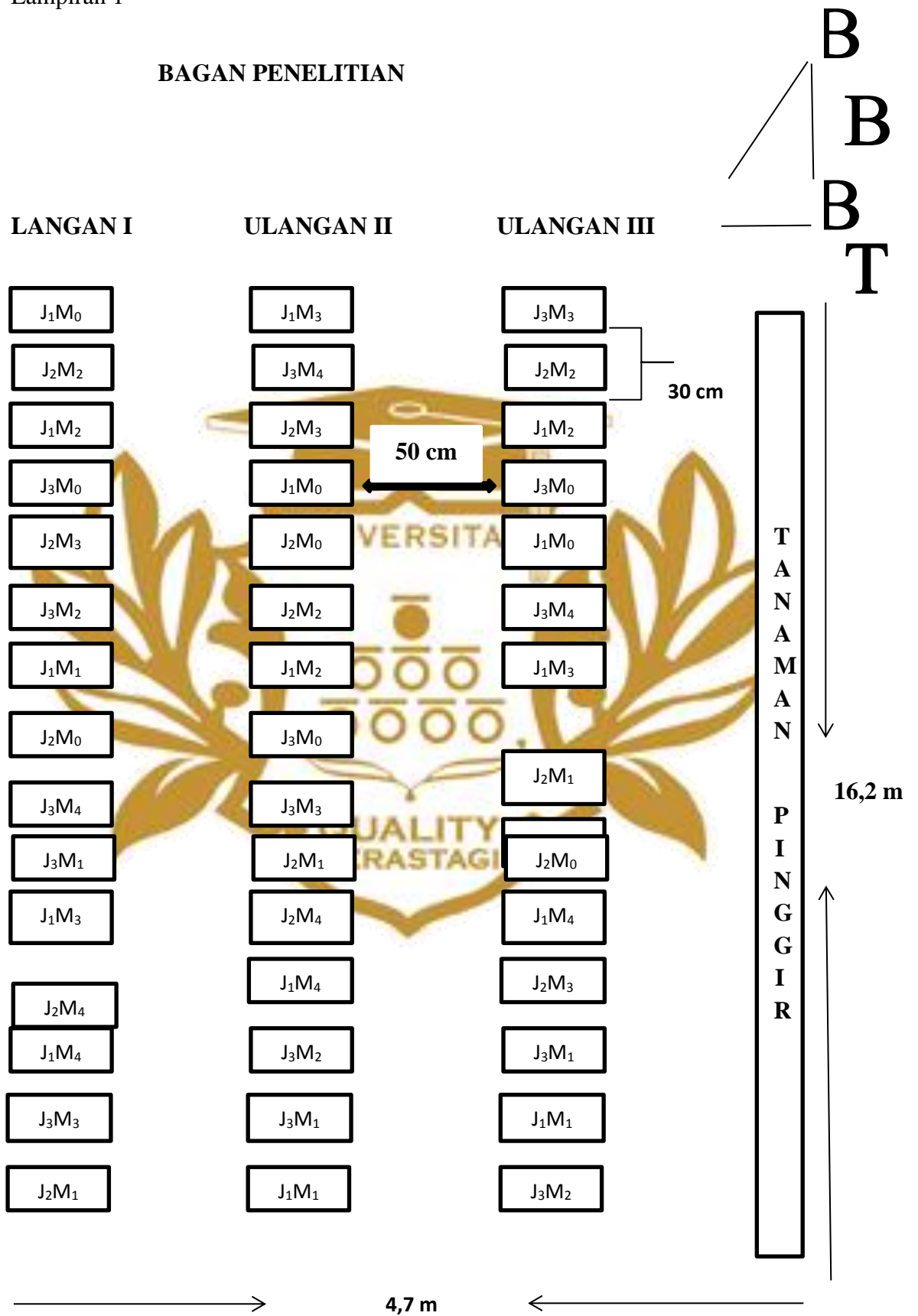


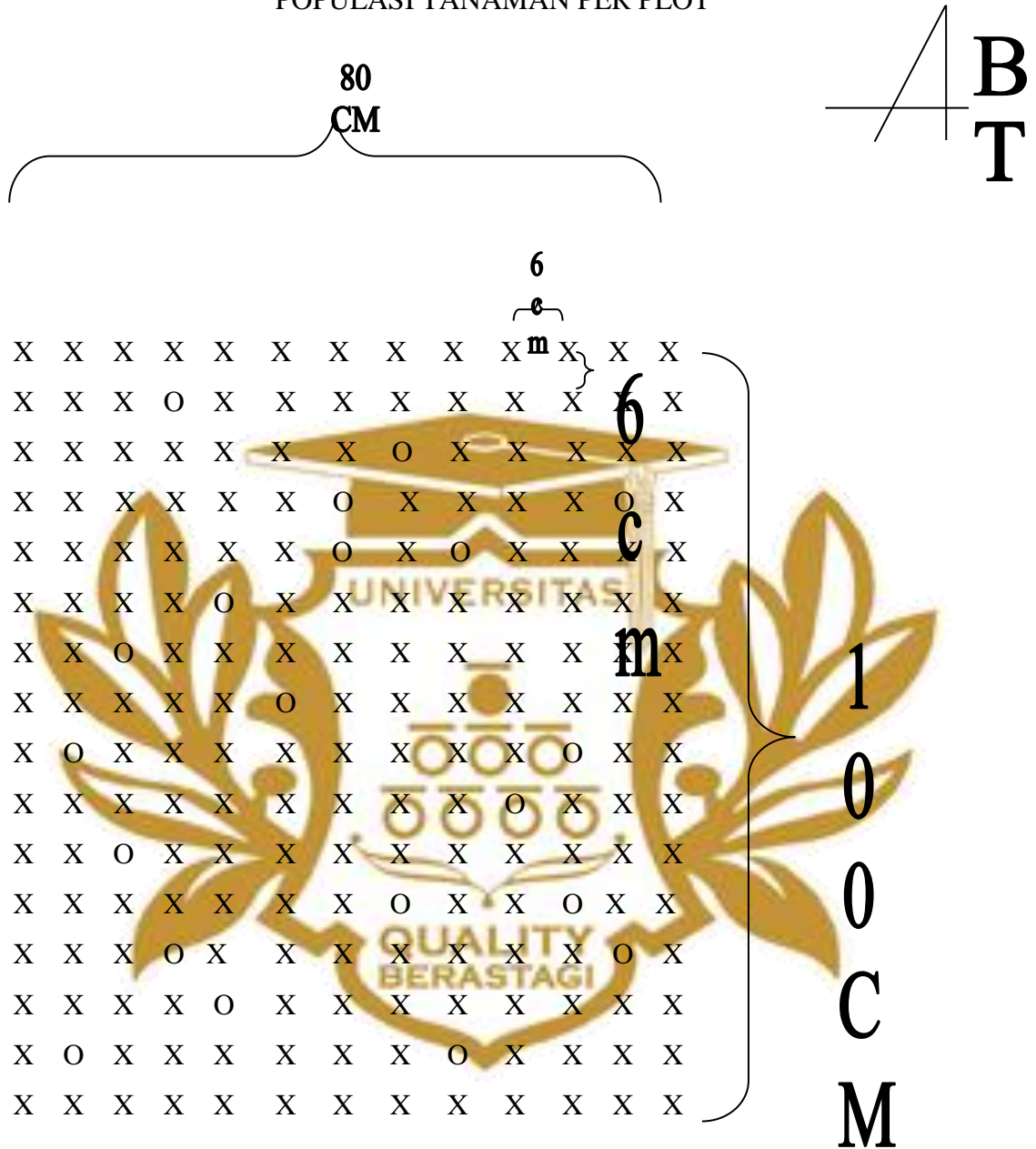
Lampiran 1

BAGAN PENELITIAN



Lampiran 2.

POPULASI TANAMAN PER PLOT



Keterangan : O = Tanaman Sampel

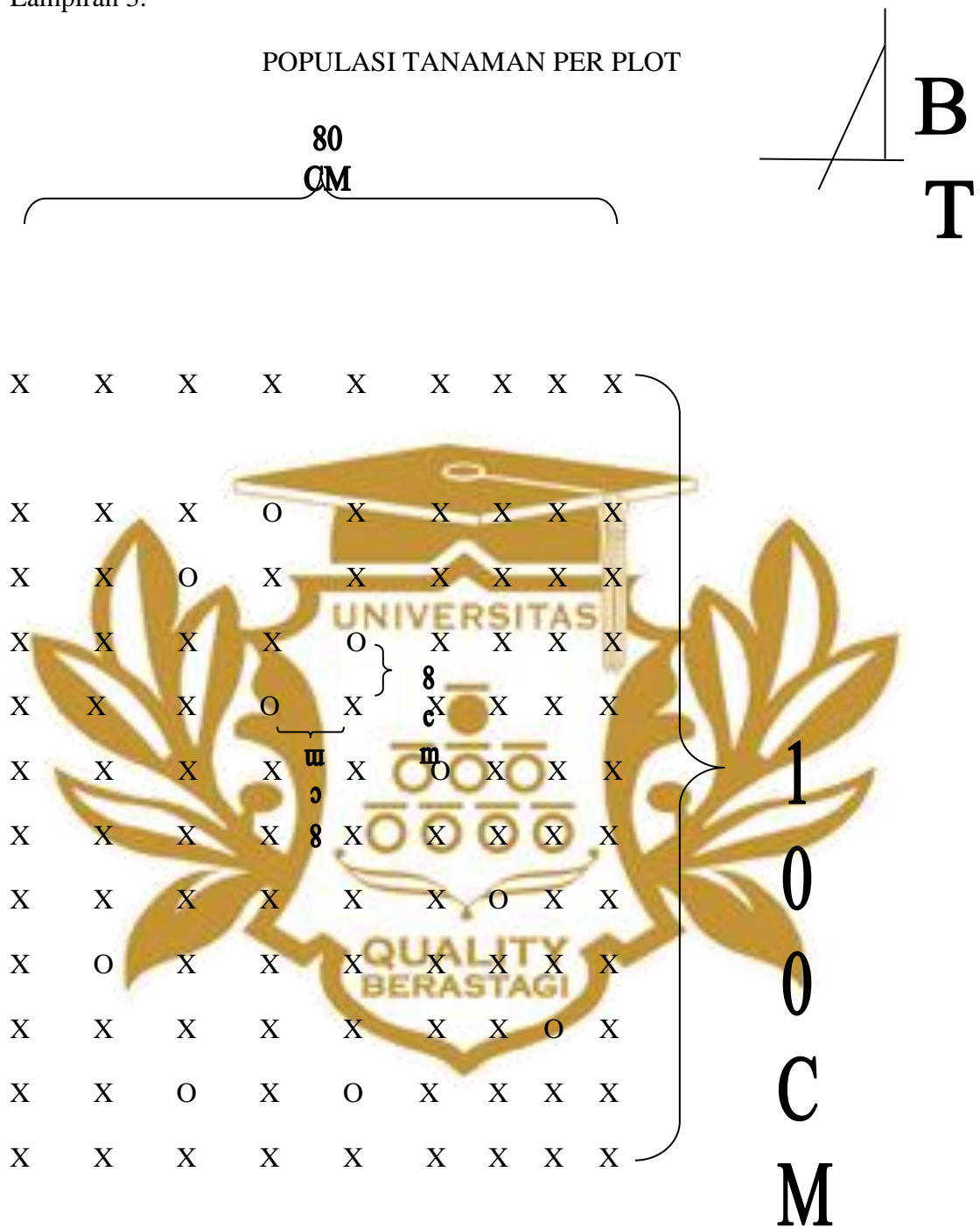
X = Tanaman Dalam Plot

Jarak tanam = 6 cm x 6 cm

Jumlah tanaman per plot = 208 tanaman

Lampiran 3.

POPULASI TANAMAN PER PLOT



Keterangan : O = Tanaman Sampel

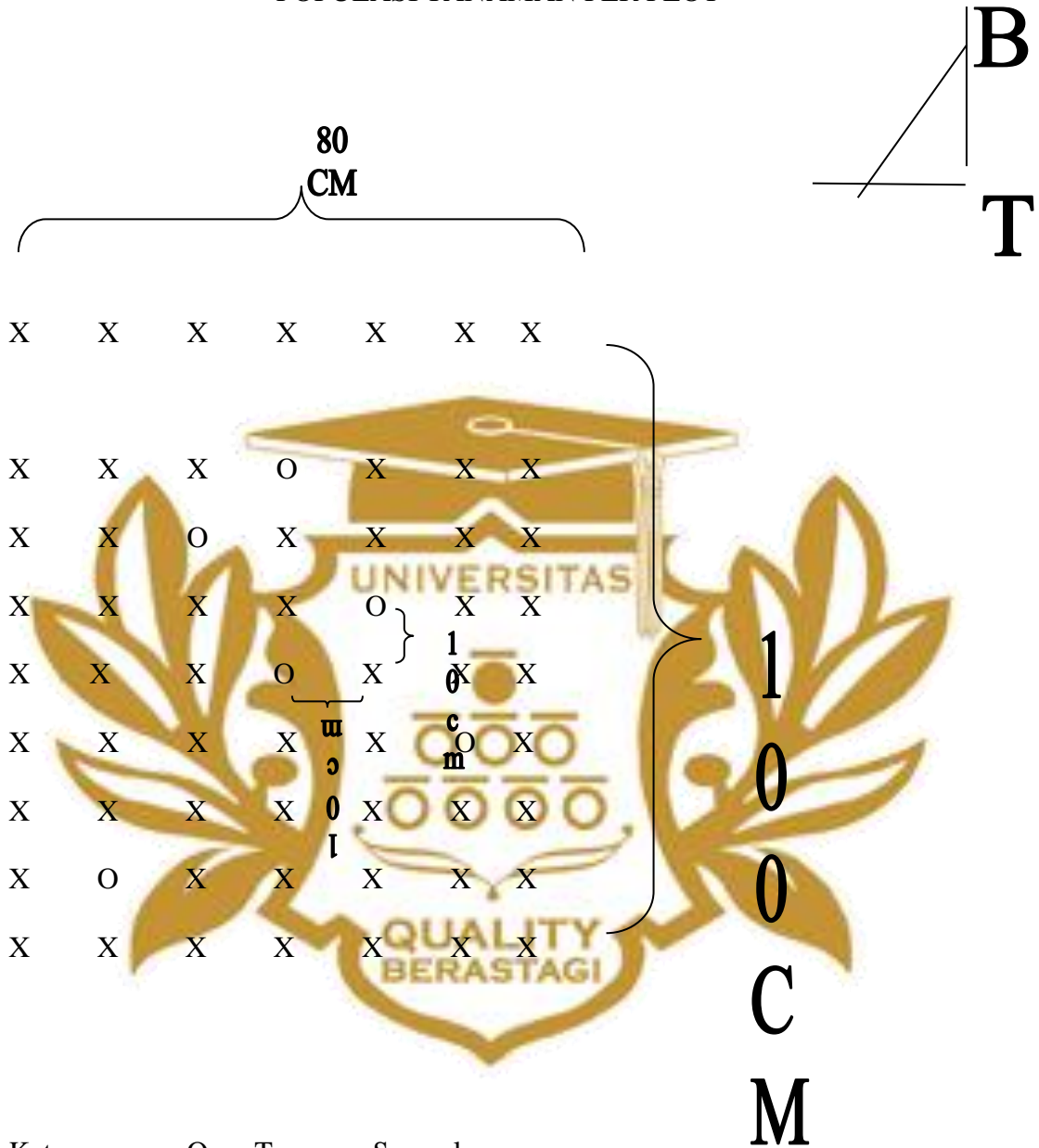
X = Tanaman Dalam Plot

Jarak tanam = 8 cm x 8 cm

Jumlah tanaman per plot = 108 tanaman

Lampiran 4.

POPULASI TANAMAN PER PLOT



Keterangan : O = Tanaman Sampel

X = Tanaman Dalam Plot

Jarak tanam = 10 cm x 10 cm

Jumlah tanaman per plot = 63 tanaman

Lampiran 5. Hasil Analisis Sidik Ragam Pengaruh Jarak Tanam dan Menyiang Terhadap Pertumbuhan Tinggi Tanaman.

Tests of Between-Subjects Effects

Dependent Variable: Tinggi Tanaman (CM)

Source	Type III Sum of Squares	df	Mean Square	F. Hitung	F. Tabel	
					A = 0,05	A = 0,01
Corrected Model	87.423 ^a	14	6.244	47.690	2,04	2,74
Intercept	12546.710	1	12546.7 10	95821.927	4,17	5,74
Faktor J	85.038	2	42.519	324.725**	3,32	5,39
Fakto M	1.623	4	.406	3.099*	2,69	4,02
Faktor J *	.762	8	.095	.727	2,27	3,17
Faktor M						
Error	3.928	30	.131			
Total	12638.061	45				
Corrected Total	91.351	44				

a. R Squared = ,957 (Adjusted R Squared = ,937)

Lampiran 6. Hasil Uji LSD Pengaruh jarak Tanam terhadap Pertumbuhan Tinggi
Tanaman

Multiple Comparisons							
Dependent Variable: Tinggi Tanaman (CM)							
	(I) Jarak Tanam	(J) Jarak Tanam	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	J1	J2	2.0720*	.13213	.000	1.8022	2.3418
		J3	3.3347*	.13213	.000	3.0648	3.6045
	J2	J1	-2.0720*	.13213	.000	-2.3418	-1.8022
		J3	1.2627*	.13213	.000	.9928	1.5325
	J3	J1	-3.3347*	.13213	.000	-3.6045	-3.0648
		J2	-1.2627*	.13213	.000	-1.5325	-.9928
Based on observed means. The error term is Mean Square(Error) = ,131.							
*. The mean difference is significant at the ,05 level.							

Lampiran 7. Hasil Uji LSD Pengaruh Jarak Tanam Terhadap Pertumbuhan Tinggi tanaman.

Multiple Comparisons

Dependent Variable: Tinggi Tanaman (CM)

	(I) Menyang	(J) Menyang	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD M0	M1		.4833*	.17058	.008	.1350	.8317
	M2		.3811*	.17058	.033	.0327	.7295
	M3		.1667	.17058	.336	-.1817	.5150
	M4		.4800*	.17058	.009	.1316	.8284
M1	M0		-.4833*	.17058	.008	-.8317	-.1350
	M2		-.1022	.17058	.553	-.4506	.2461
	M3		-.3167	.17058	.073	-.6650	.0317
	M4		-.0033	.17058	.985	-.3517	.3450
M2	M0		-.3811*	.17058	.033	-.7295	-.0327
	M1		.1022	.17058	.553	-.2461	.4506
	M3		-.2144	.17058	.218	-.5628	.1339
	M4		.0989	.17058	.566	-.2495	.4473
M3	M0		-.1667	.17058	.336	-.5150	.1817
	M1		.3167	.17058	.073	-.0317	.6650
	M2		.2144	.17058	.218	-.1339	.5628
	M4		.3133	.17058	.076	-.0350	.6617
M4	M0		-.4800*	.17058	.009	-.8284	-.1316
	M1		.0033	.17058	.985	-.3450	.3517
	M2		-.0989	.17058	.566	-.4473	.2495
	M3		-.3133	.17058	.076	-.6617	.0350

Based on observed means.

The error term is Mean Square(Error) = ,131. * The mean difference is significant at the ,05 level

Lampiran 8. Hasil Analisis Sidik Ragam Pengaruh Jarak Tanam dan Menyiang Terhadap Panjang Umbi Wortel.

Tests of Between-Subjects Effects

Dependent Variable: Panjang Umbi

Source	Type III Sum of Squares	Df	Mean Square	F	Sig.	
					A = 0,05	A = 0,01
Corrected Model	7.063 ^a	14	.505	2.110	2,04	2,74
Intercept	14565.244	1	14565.244	60906.765	4,17	5,74
Faktor J	5.075	2	2.537	10.611**	3,32	5,39
Faktor M	1.009	4	.252	1.055	2,69	4,02
FaktorJ * Faktor M	.979	8	.122	.512	2,27	3,17
Error	7.174	30	.239			
Total	14579.481	45				
Corrected Total	14.238	44				

a. R Squared = ,496 (Adjusted R Squared = ,261)

Lampiran 9. Hasil Analisis Sidik Ragam Pengaruh Jarak Tanam dan Menyiang Terhadap Pertumbuhan Jumlah Daun.

Tests of Between-Subjects Effects						
Dependent Variable: Rata-rata Jumlah Daun						
Source	Type III Sum of Squares	df	Mean Square	F	F. Tabel	
Corrected Model	.011 ^a	14	.001	.454	A = 0,05	A= 0,01
Intercept	1789.832	1	1789.832	1081106.577	2,04	2,74
Faktor J	5.333E-5	2	2.667E-5	.016	4,17	5,74
Faktor M	.003	4	.001	.513	3,32	5,39
Faktor J * Faktor M	.007	8	.001	.535	2,69	4,02
Error	.050	30	.002		2,27	3,17
Total	1789.892	45				
Corrected Total	.060	44				
a. R Squared = ,175 (Adjusted R Squared = -,210)						

Lampiran 10. Hasil Uji LSD Pengaruh Jarak Tanam Terhadap panjang Umbi

Wortel.

Multiple Comparisons

Dependent Variable: Panjang Umbi

	(I) Jarak Tanam	(J) Jarak Tanam	Mean Difference (I- J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	J1	J2	-.7073*	.17856	.000	-1.0720	-.3427
		J3	-.7173*	.17856	.000	-1.0820	-.3527
	J2	J1	.7073*	.17856	.000	.3427	1.0720
		J3	-.0100	.17856	.956	-.3747	.3547
	J3	J1	.7173*	.17856	.000	.3527	1.0820
		J2	.0100	.17856	.956	-.3547	.3747

Based on observed means.

The error term is Mean Square(Error) = ,239.

*. The mean difference is significant at the ,05 level.



LSD	J1	J2	-.4260*	.02430	.000	-.4756	-.3764
		J3	-1.9107*	.02430	.000	-1.9603	-1.8610
	J2	J1	.4260*	.02430	.000	.3764	.4756
		J3	-1.4847*	.02430	.000	-1.5343	-1.4350
	J3	J1	1.9107*	.02430	.000	1.8610	1.9603
		J2	1.4847*	.02430	.000	1.4350	1.5343

Based on observed means.

The error term is Mean Square(Error) = ,004.

*. The mean difference is significant at the ,05 level.

Lampiran 13. Hasil Uji LSD Hubungan Inter Perlakuan terhadap Diamteter Umbi

Wortel.

Multiple Comparisons							
Dependent Variable: Diameter Umbi (CM)							
	(I)	(J)	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	M0	M1	-.6289*	.03137	.000	-.6930	-.5648
		M2	-.7322*	.03137	.000	-.7963	-.6682
		M3	-.8222*	.03137	.000	-.8863	-.7582
		M4	-.9544*	.03137	.000	-1.0185	-.8904
	M1	M0	.6289*	.03137	.000	.5648	.6930

		M2	-.1033*	.03137	.003	-.1674	-.0393
		M3	-.1933*	.03137	.000	-.2574	-.1293
		M4	-.3256*	.03137	.000	-.3896	-.2615
	M2	M0	.7322*	.03137	.000	.6682	.7963
		M1	.1033*	.03137	.003	.0393	.1674
		M3	-.0900*	.03137	.007	-.1541	-.0259
		M4	-.2222*	.03137	.000	-.2863	-.1582
	M3	M0	.8222*	.03137	.000	.7582	.8863
		M1	.1933*	.03137	.000	.1293	.2574
		M2	.0900*	.03137	.007	.0259	.1541
		M4	-.1322*	.03137	.000	-.1963	-.0682
	M4	M0	.9544*	.03137	.000	.8904	1.0185
		M1	.3256*	.03137	.000	.2615	.3896
		M2	.2222*	.03137	.000	.1582	.2863
		M3	.1322*	.03137	.000	.0682	.1963
Based on observed means.							
The error term is Mean Square(Error) = ,004.							
*. The mean difference is significant at the ,05 level.							

Lampiran 14. Hasil Analisis Sidik Ragam Pengaruh jarak tanam dan Menyiang Terhadap Berat Umbi Per Sampel.

Tests of Between-Subjects Effects

Dependent Variable: Berat Umbi Per Sampel (gr)

Source	Type III Sum of Squares	Df	Mean Square	F	F Tabel	
					A = 0,05	A= 0,01
Corrected Model	143174.947 ^a	14	10226.782	7592.05	2,04	2,74
Intercept	702272.758	1	702272.758	521346.00	4,17	5,74
Faktor J	87024.536	2	43512.268	32302.18**	3,32	5,39
Faktor M	34028.276	4	8507.069	6315.39**	2,69	4,02
Faktor J * Faktor M	22122.135	8	2765.267	2052.85**	2,27	3,17
Error	40.411	30	1.347			
Total	845488.117	45				
Corrected Total	143215.358	44				

a. R Squared = 1,000 (Adjusted R Squared = 1,000)

Lampiran 15. Hasil Uji LSD Hubungan Inter Perlakuan Waktu Menyiang

Terhadap Berat Umbi Persampel.

Multiple Comparisons							
Dependent Variable: Berat Umbi Per Sampel (gr)							
	(I) Jarak	(J) Jarak	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
	Tanam	Tanam				Lower Bound	Upper Bound
LSD	J1	J2	-15.3520*	.42380	.000	-16.2175	-14.4865
		J3	-100.0107*	.42380	.000	-100.8762	-99.1452
	J2	J1	15.3520*	.42380	.000	14.4865	16.2175
		J3	-84.6587*	.42380	.000	-85.5242	-83.7932
	J3	J1	100.0107*	.42380	.000	99.1452	100.876 2
		J2	84.6587*	.42380	.000	83.7932	85.5242

BERASTAGI

Lampiran 16. Hasil Uji LSD Hubungan Inter Perlakuan Waktu Menyiang terhadap Berat Umbi Per sampel.

Multiple Comparisons

Dependent Variable: Berat Umbi Per Sampel (gr)

	(I)	(J)	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	M0	M1	-65.1678*	.54712	.000	-66.2851	-64.0504
		M2	-66.7600*	.54712	.000	-67.8774	-65.6426
		M3	-67.6444*	.54712	.000	-68.7618	-66.5271
		M4	-73.8378*	.54712	.000	-74.9551	-72.7204
	M1	M0	65.1678*	.54712	.000	64.0504	66.2851
		M2	-1.5922*	.54712	.007	-2.7096	-.4749
		M3	-2.4767*	.54712	.000	-3.5940	-1.3593
		M4	-8.6700*	.54712	.000	-9.7874	-7.5526
	M2	M0	66.7600*	.54712	.000	65.6426	67.8774
		M1	1.5922*	.54712	.007	.4749	2.7096
		M3	-.8844	.54712	.116	-2.0018	.2329
		M4	-7.0778*	.54712	.000	-8.1951	-5.9604
M3	M0	67.6444*	.54712	.000	66.5271	68.7618	
	M1	2.4767*	.54712	.000	1.3593	3.5940	
	M2	.8844	.54712	.116	-.2329	2.0018	

	M4	-6.1933*	.54712	.000	-7.3107	-5.0760
M4	M0	73.8378*	.54712	.000	72.7204	74.9551
	M1	8.6700*	.54712	.000	7.5526	9.7874
	M2	7.0778*	.54712	.000	5.9604	8.1951
	M3	6.1933*	.54712	.000	5.0760	7.3107

Based on observed means.

The error term is Mean Square(Error) = 1,347.

*. The mean difference is significant at the ,05 level.

Lampiran 17. Hasil Analisis Sidik Ragam Pengaruh Jarak Tanam dan Menyiang Terhadap Berat Umbi Per Plot.

Tests of Between-Subjects Effects

Dependent Variable: Berat Umbi Per Plot

Source	Type III Sum of Squares	df	Mean Square	F	F Tabel	
					A = 0,05	A = 0,01
Corrected Model	31.654 ^a	14	2.261	552.668	2,04	2,74
Intercept	498.135	1	498.135	121760.339	4,17	5,74
Faktor J	22.707	2	11.353	2775.137	3,32	5,39
Faktor M	6.071	4	1.518	371.004	2,69	4,02
Faktor J * Faktor M	2.876	8	.360	87.883	2,27	3,17
Error	.123	30	.004			
Total	529.912	45				

Corrected Total	31.777	44				
-----------------	--------	----	--	--	--	--

a. R Squared = ,996 (Adjusted R Squared = ,994)

Lampiran 18. Hasil Uji LSD Hubungan Inter Perlakuan Waktu Jarak Tanam
terhadap berat Umbi Per Plot.

Multiple Comparisons

Dependent Variable: Berat Umbi Per Plot

	(I) Jarak Tanam	(J) Jarak Tanam	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	J1	J2	-.3960*	.02336	.000	-.4437	-.3483
		J3	-1.6653*	.02336	.000	-1.7130	-1.6176
	J2	J1	.3960*	.02336	.000	.3483	.4437
		J3	-1.2693*	.02336	.000	-1.3170	-1.2216
	J3	J1	1.6653*	.02336	.000	1.6176	1.7130
		J2	1.2693*	.02336	.000	1.2216	1.3170

Based on observed means.

The error term is Mean Square(Error) = ,004.

*. The mean difference is significant at the ,05 level.

Lampiran 19. Hasil Uji LSD Hubungan Inter Perlakuan waktu Menyiang
terhadap Berat Umbi Per Plot.

Multiple Comparisons

Dependent Variable: Berat Umbi Per Plot

	(I) Menyiang	(J) Menyiang		Std. Error	Sig.	95% Confidence Interval
--	--------------	--------------	--	------------	------	-------------------------

			Mean Difference (I-J)			Lower Bound	Upper Bound
LSD	M0	M1	-.6044*	.03015	.000	-.6660	-.5429
		M2	-.7378*	.03015	.000	-.7994	-.6762
		M3	-.9344*	.03015	.000	-.9960	-.8729
		M4	-1.0533*	.03015	.000	-1.1149	-.9918
	M1	M0	.6044*	.03015	.000	.5429	.6660
		M2	-.1333*	.03015	.000	-.1949	-.0718
		M3	-.3300*	.03015	.000	-.3916	-.2684
		M4	-.4489*	.03015	.000	-.5105	-.3873
	M2	M0	.7378*	.03015	.000	.6762	.7994
		M1	.1333*	.03015	.000	.0718	.1949
		M3	-.1967*	.03015	.000	-.2582	-.1351
		M4	-.3156*	.03015	.000	-.3771	-.2540
	M3	M0	.9344*	.03015	.000	.8729	.9960
		M1	.3300*	.03015	.000	.2684	.3916
		M2	.1967*	.03015	.000	.1351	.2582
		M4	-.1189*	.03015	.000	-.1805	-.0573
M4	M0	1.0533*	.03015	.000	.9918	1.1149	
	M1	.4489*	.03015	.000	.3873	.5105	
	M2	.3156*	.03015	.000	.2540	.3771	
	M3	.1189*	.03015	.000	.0573	.1805	

Based on observed means.

The error term is Mean Square(Error) = .004.

*. The mean difference is significant at the .05 level.

DOKUMENTASI PENELITIAN



Photo lahan pertanian setelah ditraktor.



Pembagian Pupuk pada setiap plot pertanian



Pembuatan Plot Pertanian



Alat ukur jarak tanam



Benih Wortel



Tanaman Wortel



Supervisi Pembimbing I ke Lahan Penelitian tanaman wortel



Pertanaman wortel umur 30 hari



Pertanaman wortel umur 80 hari



Panen



Penimbangan Gulma



Pengukuran Diameter Umbi