

**LAMPIRAN 1.**

**RANCANGAN LAHAN PENELITIAN**

**ULANGAN I**

1 K3M2	2 K4M1	3 K2M2	4 K1M1	5 K4M4
6 K1M3	7 KOM3	8 K3M0	9 K0M1	10 K1M4
11 K2M3	12 KOM2	13 K0M4	14 K4M3	15 K2M0
16 K1M2	17 K3M1	18 K3M3	19 K4M2	20 K2M4
21 KOM0	22 K3M4	23 K1M0	24 K2M1	25 K4M0

**ULANGAN II**

1 K4M1	2 K2M0	3 K0M4	4 K3M1	5 K1M0
6 K1M1	7 K3M2	8 K3M0	9 K2M4	10 K4M3
11 K0M3	12 K0M0	13 K2M1	14 K0M1	15 K4M4
16 K2M2	17 K1M4	18 K4M2	19 K0M2	20 K3M4
21 K4M0	22 K2M3	23 K1M2	24 K3M3	25 K1M3

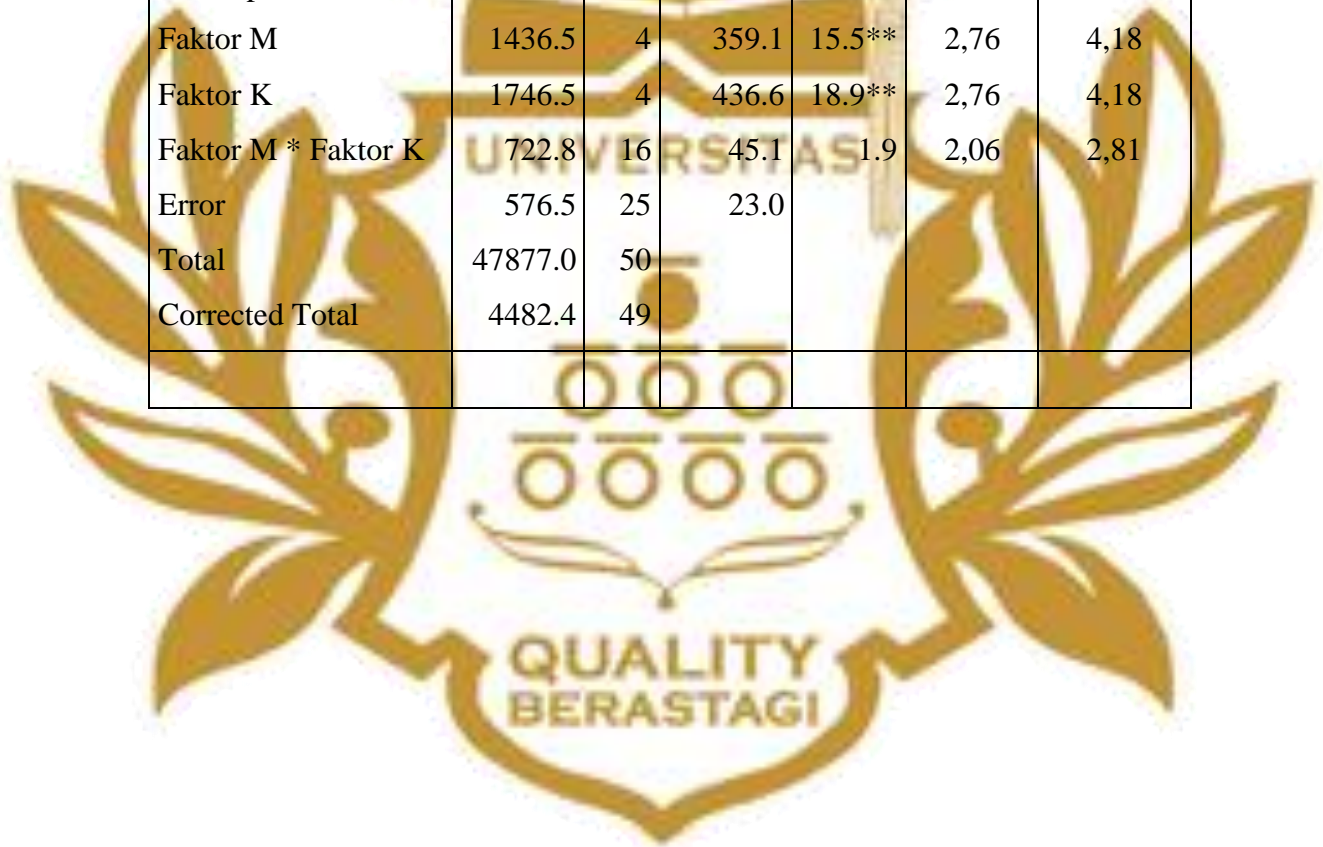


**LAMPIRAN 2. Hasil Analisis Sidik Ragam Pengaruh Pupuk Kompos (K)  
dan Magnesium Sulfat (M), Serta Interaksi Antara K x M**

**Tests of Between-Subjects Effects**

Dependent Variable: Tinggi Tanaman Kentang

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	
					F Tabel A = 0,05	F Tabel A = 0,01
Corrected Model	3905.9 <sup>a</sup>	24	162.7	7.0	1,96	2,62
Intercept	43394.5	1	43394.5	1881.8	4,24	7,77
Faktor M	1436.5	4	359.1	15.5**	2,76	4,18
Faktor K	1746.5	4	436.6	18.9**	2,76	4,18
Faktor M * Faktor K	722.8	16	45.1	1.9	2,06	2,81
Error	576.5	25	23.0			
Total	47877.0	50				
Corrected Total	4482.4	49				



**LAMPIRAN 3.**

**TINGGI TANAMAN 3 MST -9 MST ULANGAN 1**

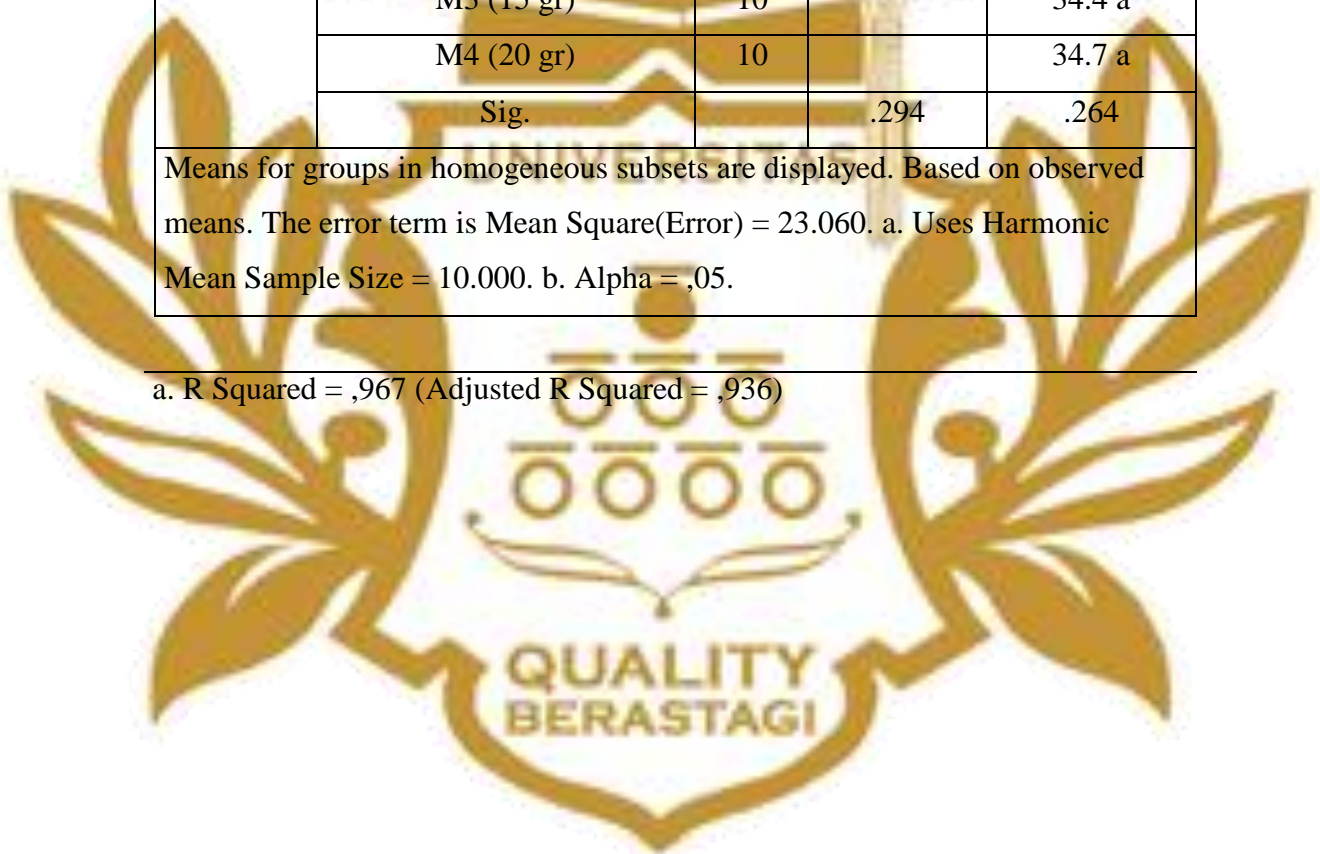
	M0				M1				M2				M3				M4			
K0	7	5	8	9	8	5	7	9	4	7	5	8	7	9	6	8	9	7	6	8
	17	15	13	17	16	14	13	15	12	15	13	16	13	17	15	16	13	15	16	15
	23	21	27	29	23	21	19	21	27	28	23	25	21	25	29	32	23	27	29	24
	30	32	35	33	34	33	26	32	33	39	37	38	33	37	35	39	33	35	40	35
K1	9	7	11	5	7	12	6	9	13	8	11	7	10	14	8	9	11	7	9	8
	17	14	19	13	13	19	17	19	20	17	19	15	17	25	16	19	23	13	17	18
	23	26	24	26	23	29	27	25	32	29	30	27	25	32	35	31	31	32	33	32
	30	38	35	32	29	35	36	37	40	39	42	34	41	40	42	44	40	41	43	41
K2	11	6	9	8	12	11	9	6	13	12	9	13	14	13	11	13	15	12	14	13
	21	19	17	21	19	20	21	19	23	20	21	23	25	24	25	26	27	29	27	28
	27	28	22	29	28	29	31	27	30	32	31	29	33	32	34	31	34	36	35	37
	32	34	31	37	32	37	40	39	39	41	46	48	41	45	42	47	41	46	49	52
K3	9	8	9	6	7	12	9	6	13	12	17	11	14	17	13	12	15	12	17	14
	15	17	16	13	16	19	17	11	23	23	26	22	44	43	45	46	46	47	47	46
	28	29	27	26	25	31	24	21	31	32	34	32	52	53	54	53	52	54	53	53
	39	40	35	41	37	41	41	43	43	41	41	43	65	64	60	63	69	65	67	70
K4	7	4	11	6	9	11	5	7	13	15	12	17	14	13	17	15	15	14	13	17
	15	12	21	15	17	20	13	16	35	34	32	36	46	45	47	46	37	35	36	35
	21	23	31	27	25	29	27	29	52	54	53	54	53	54	53	55	55	56	52	53
	33	35	40	31	34	37	39	45	63	64	66	65	68	67	65	64	65	64	67	69

**LAMPIRAN 4. HASIL UJI DUNCAN PENGARUH FAKTOR MAGNESIUM SULFAT (M) TERHADAP PERTUMBUHAN TINGGI TANAMAN.**

<b>Tinggi Tanaman Kentang</b>				
	Magnesium sulfat	N	Subset	
			1	2
Duncan <sup>a,b</sup>	M0 (0 gr)	10	21.9 b	
	M1 (5 gr)	10	24.2 b	
	M2 (10 gr)	10		32.1 a
	M3 (15 gr)	10		34.4 a
	M4 (20 gr)	10		34.7 a
	Sig.			.294

Means for groups in homogeneous subsets are displayed. Based on observed means. The error term is Mean Square(Error) = 23.060. a. Uses Harmonic Mean Sample Size = 10.000. b. Alpha = ,05.

a. R Squared = ,967 (Adjusted R Squared = ,936)



**LAMPIRAN 5.**

**TINGGI TANAMAN 3 MST -9 MST ULANGAN 2**

	M0				M1				M2				M3				M4			
K0	5	7	6	4	9	4	5	7	5	7	6	7	7	9	9	5	11	5	8	9
	15	16	13	15	17	13	15	16	13	15	14	17	18	21	19	15	19	16	17	18
	24	25	24	23	26	25	27	29	25	29	27	28	22	24	23	24	28	27	25	27
	32	37	38	35	35	32	40	41	36	38	42	39	36	40	41	35	35	33	41	53
K1	11	5	9	6	7	9	8	7	11	7	9	6	9	10	12	8	12	7	9	11
	23	14	19	15	15	19	18	19	24	18	25	19	20	23	21	19	23	16	19	21
	36	22	26	27	25	29	32	29	37	39	40	36	30	33	31	34	31	25	28	32
	42	34	37	35	38	42	44	38	46	45	50	47	44	42	45	47	44	45	49	44
K2	8	11	6	10	8	9	7	6	13	15	12	13	14	13	15	16	15	14	17	16
	17	20	15	19	15	17	14	13	34	38	41	42	44	44	45	45	44	42	45	47
	25	28	23	27	29	28	25	27	49	51	50	53	51	52	52	51	52	50	54	53
	33	37	38	35	41	40	36	40	58	60	62	61	64	60	63	63	63	65	64	64
K3	11	7	10	8	14	13	15	12	15	16	14	17	16	17	16	16	16	17	16	16
	23	15	21	17	39	41	42	38	43	44	43	44	41	43	42	40	45	46	47	47
	34	29	33	28	47	49	50	52	51	52	53	54	49	52	50	53	55	52	56	54
	36	38	45	40	58	57	59	58	58	57	60	61	67	63	65	60	60	63	62	65
K4	10	8	12	7	11	9	10	8	16	15	17	18	17	18	17	16	17	18	17	18
	18	15	21	13	22	19	21	19	42	44	42	43	45	43	46	42	46	45	45	45
	29	27	30	26	33	30	31	28	52	53	56	54	55	54	50	53	51	54	53	50
	39	35	40	42	42	40	39	37	60	64	62	60	65	62	63	65	65	63	67	66

**LAMPIRAN 6.**

**DATA LINGKARAN BATANG ULANGAN I**

	M0				M1				M2				M3				M4			
K0	15	14	17	15	17	15	16	16	14	17	16	17	15	15	18	18	18	15	17	17
	21	20	22	19	19	21	20	20	21	21	19	20	18	21	20	19	21	20	20	21
	25	24	26	25	25	25	27	27	27	28	25	26	25	24	25	25	25	25	26	26
	29	27	29	30	26	28	26	27	27	28	29	26	27	29	27	28	26	27	27	28
K1	12	14	13	12	12	14	15	16	15	14	16	18	15	14	16	14	15	16	14	16
	21	24	23	23	21	24	25	23	23	25	24	25	24	25	21	23	23	26	25	25
	27	26	27	25	23	23	27	25	25	26	26	27	26	27	24	25	25	27	27	28
	30	29	31	29	26	27	29	29	28	29	28	30	29	31	28	29	29	31	30	31
K2	13	14	14	15	14	15	16	16	13	15	17	14	15	17	13	15	15	15	17	14
	22	23	22	24	25	26	23	24	28	31	34	32	33	31	32	25	35	36	36	37
	27	26	27	28	26	29	28	27	33	35	36	35	36	35	34	37	38	39	40	41
	31	30	29	31	30	31	30	30	38	40	41	42	40	41	42	41	41	43	45	45
K3	13	13	14	15	13	13	15	15	14	13	15	13	16	14	16	17	17	18	15	15
	23	23	25	24	23	24	25	24	29	31	33	35	35	36	34	35	35	37	37	38
	25	26	27	26	25	27	28	26	34	35	37	36	38	37	38	39	38	40	40	41
	31	30	30	31	31	32	30	30	45	47	46	46	43	47	47	48	44	47	48	45
K4	13	15	16	14	15	15	13	16	15	17	14	16	16	14	15	17	16	15	15	17
	23	22	22	24	23	25	24	25	32	30	29	35	37	36	38	37	35	36	37	36
	25	27	26	26	26	24	25	25	34	33	35	37	37	39	38	39	39	39	41	40
	29	30	32	30	30	32	33	33	47	48	47	49	45	47	46	49	48	49	52	50

**LAMPIRAN 7.**

**DATA LINGKARAN BATANG ULANGAN II**

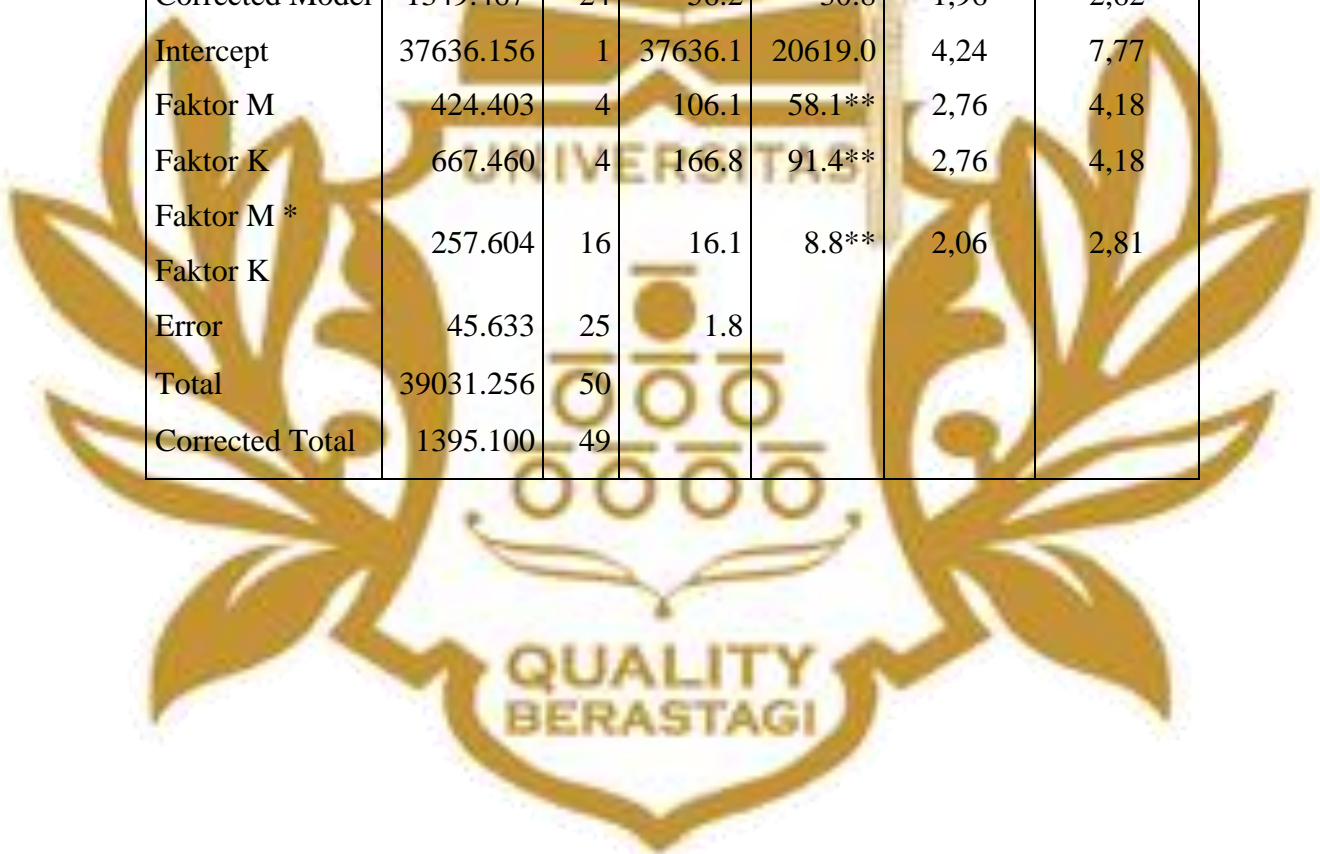
	M0				M1				M2				M3				M4			
K0	13	15	17	13	14	17	15	16	15	14	13	16	13	14	15	13	15	16	15	3,5
	21	19	23	22	21	19	20	20	19	21	22	20	18	19	21	19	21	21	23	20
	27	25	26	25	28	26	25	25	26	26	27	28	25	25	27	28	28	27	27	26
	29	28	29	27	30	28	27	29	28	28	29	31	28	29	29	31	31	30	30	32
K1	15	15	14	14	16	14	13	15	14	15	16	17	14	16	16	17	14	14	15	15
	23	23	21	21	21	22	19	23	19	21	20	23	19	25	24	23	25	25	23	23
	28	27	29	27	28	29	27	30	27	28	30	28	27	27	26	30	28	28	28	27
	31	29	32	29	31	31	30	35	31	32	31	31	30	29	29	33	30	31	29	33
K2	17	13	15	17	17	17	14	15	17	14	13	16	15	14	14	15	16	17	15	16
	22	19	20	21	21	23	19	20	29	29	30	31	28	29	31	31	29	29	33	32
	31	33	30	30	32	31	29	30	38	40	42	45	37	42	45	44	41	43	45	45
	33	35	32	33	35	34	33	33	45	47	48	49	45	47	50	49	47	49	51	52
K3	14	14	16	16	14	13	16	14	15	15	14	17	15	16	15	16	14	15	14	15
	21	23	25	21	23	21	24	25	30	31	29	33	39	42	40	44	42	45	47	44
	33	34	31	30	31	33	33	32	40	42	42	41	39	38	40	41	45	48	49	48
	35	37	35	33	34	36	34	35	44	45	47	45	47	46	48	47	48	53	54	52
K4	15	14	17	16	16	18	13	15	16	17	15	16	16	16	15	17	16	17	14	16
	19	21	21	23	22	24	20	21	34	32	33	35	38	34	31	32	35	36	35	34
	30	31	31	30	33	31	31	33	39	43	45	44	41	40	42	42	42	43	43	45
	37	36	36	34	34	35	33	34	47	49	53	49	49	49	55	53	50	50	54	56

**LAMPIRAN 8. HASIL ANALISIS SIDIK RAGAM PENGARUH  
MAGNESIUM SULFAT (M) DAN PUPUK KANDANG (K)  
TERHADAP PERTAMBAHAN LINGKARAN BATANG  
(mm)**

**Tests of Between-Subjects Effects**

Dependent Variable: Lingkaran Batang

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	
					F Tabel A = 0,05	F Tabel A = 0,01
Corrected Model	1349.467 <sup>a</sup>	24	56.2	30.8	1,96	2,62
Intercept	37636.156	1	37636.1	20619.0	4,24	7,77
Faktor M	424.403	4	106.1	58.1**	2,76	4,18
Faktor K	667.460	4	166.8	91.4**	2,76	4,18
Faktor M * Faktor K	257.604	16	16.1	8.8**	2,06	2,81
Error	45.633	25	1.8			
Total	39031.256	50				
Corrected Total	1395.100	49				

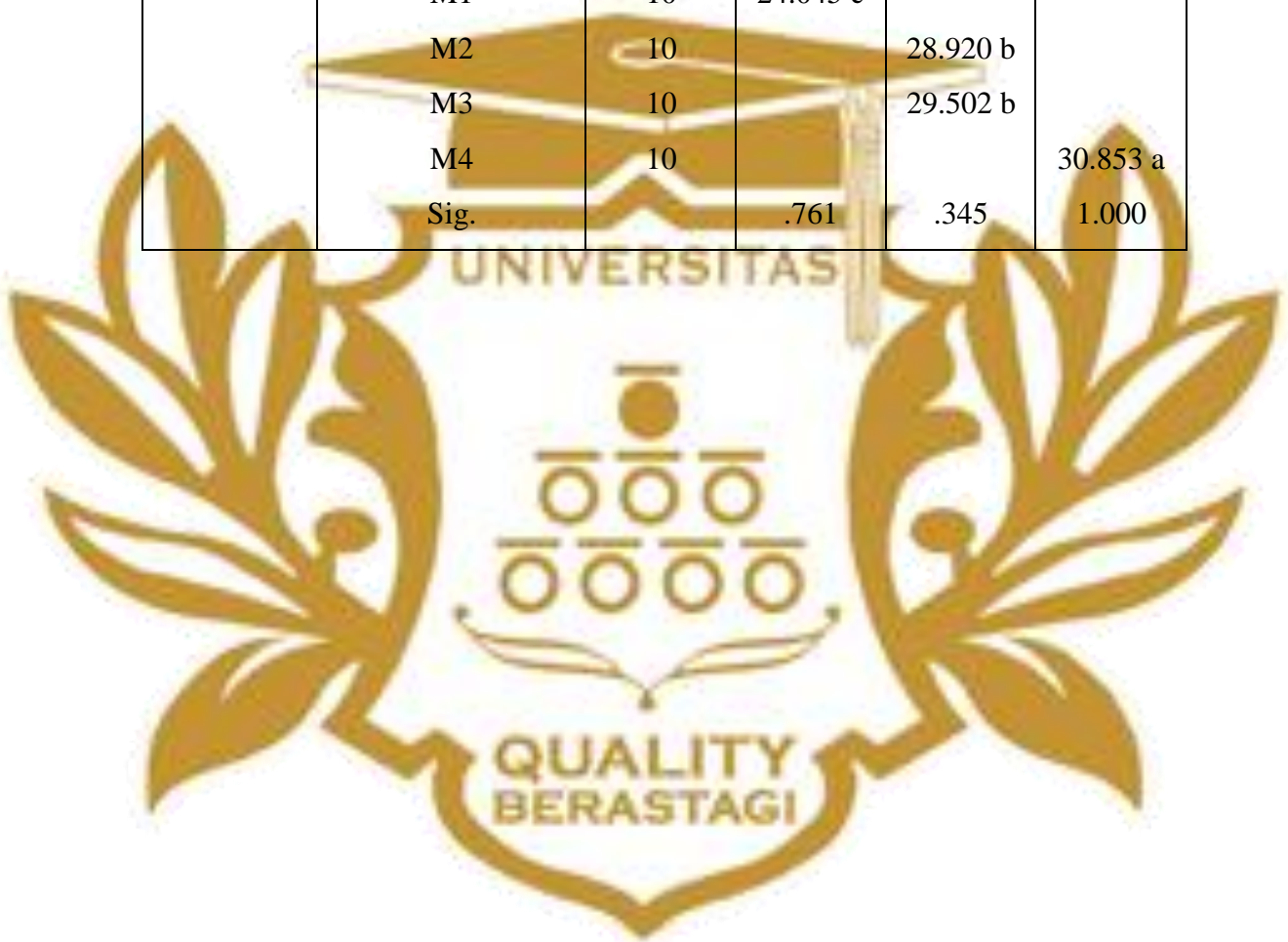




**LAMPIRAN 9. PENGARUH TARAF MAGNESIUM SULFAT (M)  
TERHADAP PERTUMBUHAN LINGKARAN BATANG  
TANAMAN KENTANG (MM)**

**Lingkarang Batang (mm)**

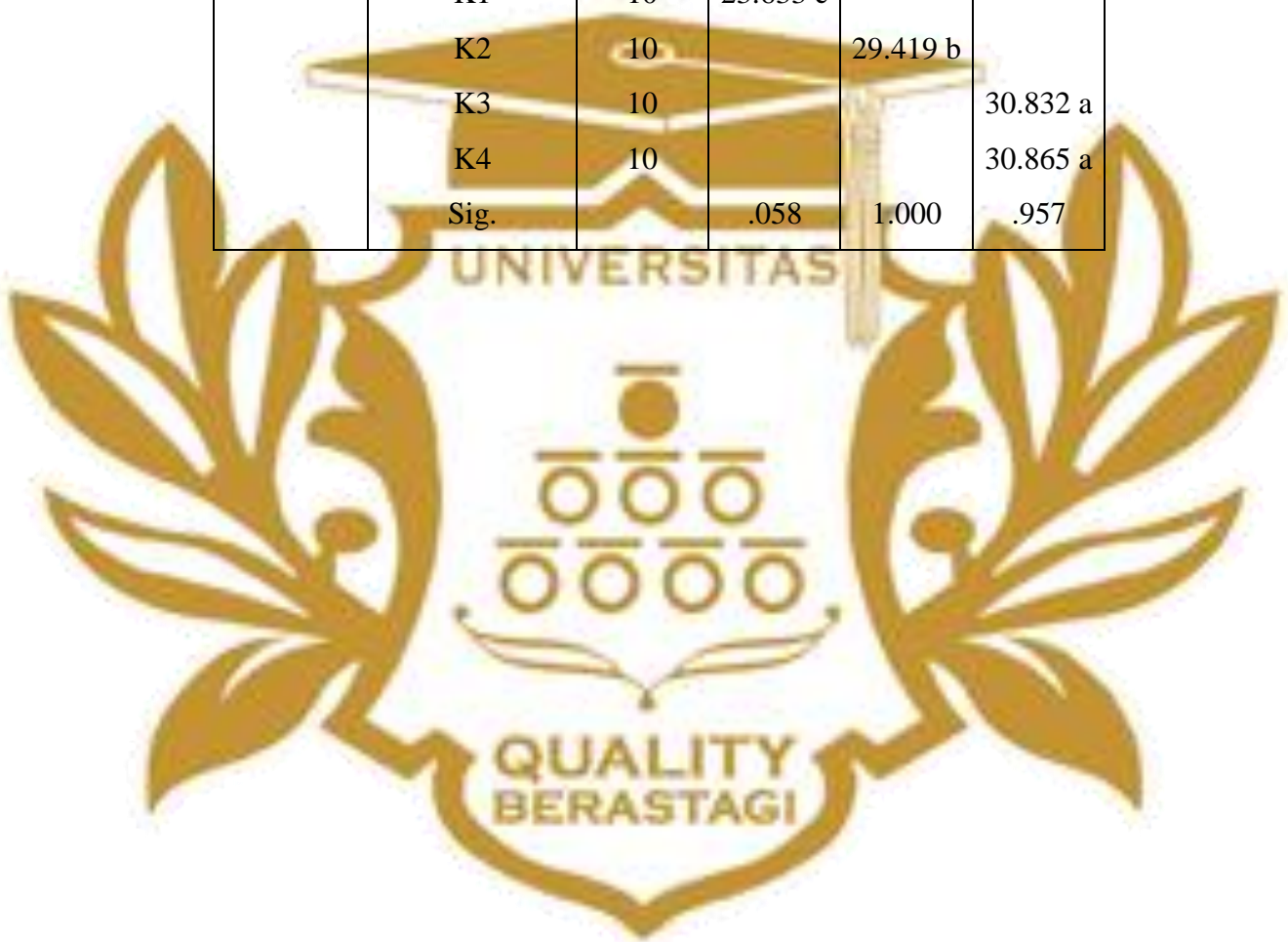
	Magnesium Sulfat	N	Subset		
			1	2	3
Duncan <sup>a,b</sup>	M0	10	23.859 c		
	M1	10	24.045 c		
	M2	10		28.920 b	
	M3	10		29.502 b	
	M4	10			30.853 a
	Sig.			.761	.345



**LAMPIRAN 10. PENGARUH TARAP PUPUK KANDANG (K) TERHADAP  
PERTUMBUHAN LINGKARAN BATANG TANAMAN  
KENTANG (MM)**

**Lingkarang Batang (mm)**

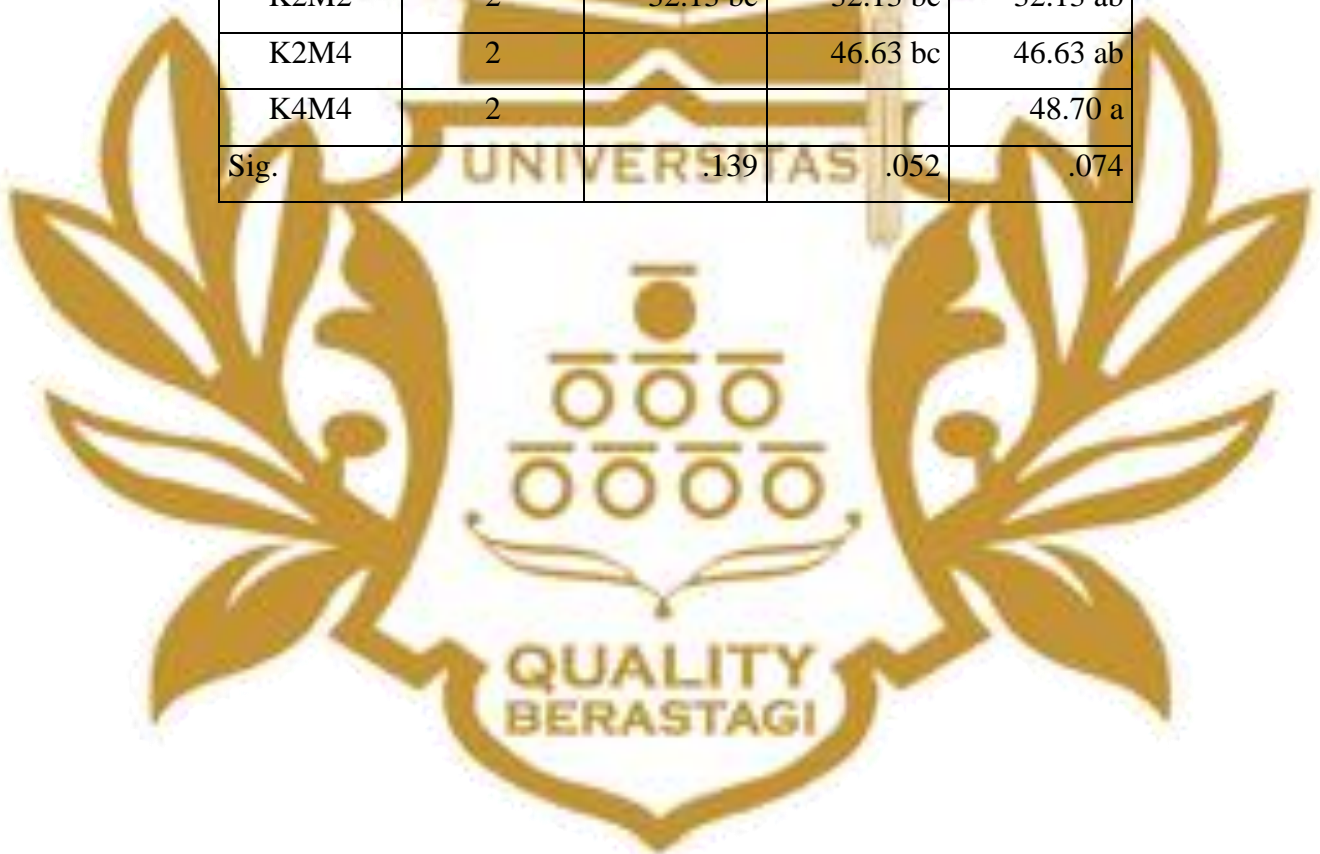
	Pupuk Kompos	N	Subset		
			1	2	3
Duncan <sup>a,b</sup>	K0	10	22.430 c		
	K1	10	23.633 c		
	K2	10		29.419 b	
	K3	10			30.832 a
	K4	10			30.865 a
	Sig.			.058	1.000



**LAMPIRAN 11. PENGARUH INTERAKSI ANTARA FAKTOR M DAN K TERHADAP PERTUMBUHAN LINGKARAN BATANG TANAMAN KENTANG**

**Lingkaran Batang (mm)**

Interaksi	N	Subset		
		1	2	3
K0M1	2	22.24 c		
K2M1	2	28.33 bc	28.33 bc	
K2M2	2	32.13 bc	32.13 bc	32.13 ab
K2M4	2		46.63 bc	46.63 ab
K4M4	2			48.70 a
Sig.		.139	.052	.074



LAMPIRAN 12.

TABEL LSD FAKTOR MAGNESIUM SULFAT (M)

Multiple Comparisons

Dependent Variable: Lingkaran Batang

	(I) Magnesium Sulfat	(J) Magnesium Sulfat	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	M0	M1	-.1860	.60420	.761	-1.4304	1.0584
		M2	-5.0610*	.60420	.000	-6.3054	3.8166
		M3	-5.6430*	.60420	.000	-6.8874	4.3986
		M4	-6.9940*	.60420	.000	-8.2384	5.7496
	M1	M0	.1860	.60420	.761	-1.0584	1.4304
		M2	-4.8750*	.60420	.000	-6.1194	3.6306
		M3	-5.4570*	.60420	.000	-6.7014	4.2126
		M4	-6.8080*	.60420	.000	-8.0524	5.5636
	M2	M0	5.0610*	.60420	.000	3.8166	6.3054
		M1	4.8750*	.60420	.000	3.6306	6.1194
		M3	-.5820	.60420	.345	-1.8264	.6624
		M4	-1.9330*	.60420	.004	-3.1774	-.6886
	M3	M0	5.6430*	.60420	.000	4.3986	6.8874
		M1	5.4570*	.60420	.000	4.2126	6.7014
		M2	.5820	.60420	.345	-.6624	1.8264
		M4	-1.3510*	.60420	.035	-2.5954	-.1066
M4	M0	6.9940*	.60420	.000	5.7496	8.2384	
	M1	6.8080*	.60420	.000	5.5636	8.0524	
	M2	1.9330*	.60420	.004	.6886	3.1774	
	M3	1.3510*	.60420	.035	.1066	2.5954	

Based on observed means.

The error term is Mean Square(Error) = 1,825.

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

LAMPIRAN 13.

TABEL LSD FAKTOR PUPUK KOMPOS (K)

**Multiple Comparisons**  
Dependent Variable: Lingkarang Batang

	(I) Pupuk Kompos	(J) Pupuk Kompos	Mean Differen ce (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K0	K1	-1.2030	.60420	.058	-2.4474	.0414
		K2	-6.9890*	.60420	.000	8.2334	5.7446
		K3	-8.4020*	.60420	.000	9.6464	7.1576
		K4	-8.4350*	.60420	.000	9.6794	7.1906
	K1	K0	1.2030	.60420	.058	-.0414	2.4474
		K2	-5.7860*	.60420	.000	7.0304	4.5416
		K3	-7.1990*	.60420	.000	8.4434	5.9546
		K4	-7.2320*	.60420	.000	8.4764	5.9876
	K2	K0	6.9890*	.60420	.000	5.7446	8.2334
		K1	5.7860*	.60420	.000	4.5416	7.0304
		K3	-1.4130*	.60420	.028	2.6574	-.1686
		K4	-1.4460*	.60420	.025	2.6904	-.2016
	K3	K0	8.4020*	.60420	.000	7.1576	9.6464
		K1	7.1990*	.60420	.000	5.9546	8.4434
		K2	1.4130*	.60420	.028	.1686	2.6574
		K4	-.0330	.60420	.957	1.2774	1.2114
	K4	K0	8.4350*	.60420	.000	7.1906	9.6794
		K1	7.2320*	.60420	.000	5.9876	8.4764
		K2	1.4460*	.60420	.025	.2016	2.6904
		K3	.0330	.60420	.957	1.2114	1.2774

Based on observed means.  
The error term is Mean Square(Error) = 1,825.  
\*. The mean difference is significant at the ,05 level.

**LAMPIRAN 14.**

**INTERAKSI FAKTOR K DAN M**

**Lingkaran Batang (mm)**

Duncan<sup>a,b</sup>

Interaksi	N	Subset		
		1	2	3
K0M1	2	22.2450		
K0M3	2	22.3300		
K0M2	2	22.4000		
K0M0	2	22.5250		
K1M0	2	23.0000		
K1M4	2	23.6350		
K1M1	2	23.7500		
K1M2	2	24.2500		
K1M3	2	24.7500		
K3M0	2	24.9200		
K4M0	2	24.9900		
K2M0	2	25.2250		
K2M1	2	28.3350	28.3350	
K3M1	2	29.7050	29.7050	
K4M1	2	29.7250	29.7250	
K2M2	2	32.1350	32.1350	32.1350
K3M2	2	33.6400	33.6400	33.6400
K2M3	2	33.6900	33.6900	33.6900
K3M4	2	34.5350	34.5350	34.5350
K4M2	2	34.9900	34.9900	34.9900
K4M3	2	35.6250	35.6250	35.6250
K3M3	2	35.9750	35.9750	35.9750
K0M4	2		44.9000	44.9000
K2M4	2		46.6300	46.6300
K4M4	2			48.7050
Sig.		.139	.052	.074

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 58,363.

a. Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = 0,05.

**LAMPIRAN 15.**

**DATA DIAMETER TAJUK ULANGAN 1**

	M0				M1				M2				M3				M4			
K0	6	7	8	9	7	9	6	8	8	6	7	9	11	9	12	6	10	7	9	8
	12	13	15	14	11	15	12	13	13	12	14	15	15	13	19	12	16	13	15	17
	20	22	25	22	23	25	19	26	20	19	23	26	24	25	27	18	24	21	21	22
	30	32	35	33	32	36	25	38	31	29	35	39	35	37	39	26	33	31	34	35
K1	7	8	7	11	11	6	13	7	13	9	7	11	13	7	14	8	6	9	12	10
	13	14	15	17	16	13	20	13	19	17	13	17	19	14	23	13	14	17	20	18
	17	19	21	24	23	19	28	18	26	25	19	25	25	22	29	21	21	23	27	25
	27	31	29	35	34	29	40	27	35	37	30	36	34	35	40	37	35	37	39	36
K2	11	9	6	7	10	11	7	8	11	10	8	9	13	11	14	18	22	15	14	11
	18	15	13	12	17	19	13	14	16	18	17	17	21	18	20	23	29	21	23	21
	23	21	19	20	24	26	20	22	24	27	25	26	29	27	27	30	35	29	31	30
	33	35	34	32	37	37	34	38	36	40	38	41	43	42	43	46	50	49	52	48
K3	7	13	8	7	11	6	10	12	15	12	13	12	17	16	14	17	23	19	23	16
	12	18	16	15	18	12	16	19	23	21	24	21	26	24	23	27	29	25	28	24
	19	25	23	24	27	20	23	27	29	31	34	30	32	33	31	36	35	32	37	34
	30	37	34	36	35	33	35	39	41	45	47	46	47	51	49	53	50	49	55	53
K4	6	11	9	10	10	8	9	11	14	15	12	16	18	16	18	19	19	17	21	13
	13	19	15	17	17	15	16	18	21	24	20	25	26	23	24	28	27	27	29	20
	21	27	23	25	23	24	22	27	29	35	33	37	32	37	39	40	31	38	40	34
	32	32	36	39	32	35	33	40	43	50	53	58	45	48	54	57	50	57	60	59

**LAMPIRAN 16.**

**DATA DIAMETER TAJUK ULANGAN II**

	M0				M1				M2				M3				M4			
K0	7	6	9	8	11	7	10	8	8	9	10	6	9	11	8	7	10	7	9	6
	15	13	17	14	19	13	18	16	17	16	18	13	18	21	17	14	19	14	17	13
	24	21	25	21	28	25	28	27	21	24	20	22	29	32	25	23	28	24	36	23
	34	29	36	30	39	33	28	36	29	37	30	33	41	45	36	33	39	34	39	32
K1	6	7	10	9	7	8	10	6	9	11	10	8	11	9	12	8	10	9	11	12
	13	15	19	20	14	15	18	15	16	22	20	15	21	22	23	19	21	18	20	22
	23	25	29	30	25	26	29	27	27	30	31	24	31	33	31	29	30	28	32	34
	33	36	41	43	34	36	42	39	38	42	44	34	40	45	42	39	41	38	44	47
K2	8	9	11	6	6	9	12	7	8	7	11	12	13	15	13	12	15	17	11	14
	15	17	21	14	13	17	20	15	15	14	21	23	23	25	22	21	25	28	23	26
	24	27	32	25	28	26	32	26	25	24	30	35	34	37	33	32	35	40	33	37
	34	39	45	36	39	35	44	36	36	34	42	48	45	50	45	42	46	53	44	49
K3	8	11	9	7	7	9	11	8	16	11	13	14	14	13	15	16	14	17	15	16
	14	19	17	14	14	16	20	15	25	21	22	23	24	23	26	28	23	27	22	25
	22	29	26	23	24	27	32	24	37	31	33	34	36	33	38	42	34	40	32	36
	37	42	36	32	34	39	45	33	50	41	44	46	47	43	50	55	45	53	42	47
K4	9	7	11	9	9	11	6	12	15	17	14	16	19	15	17	16	16	15	17	18
	19	15	21	18	19	22	15	23	27	29	28	29	31	29	30	25	25	23	26	28
	30	24	33	28	29	34	23	36	37	41	39	42	44	39	41	33	34	31	37	41
	42	34	46	39	40	46	33	48	47	53	50	55	57	50	53	43	45	41	49	54

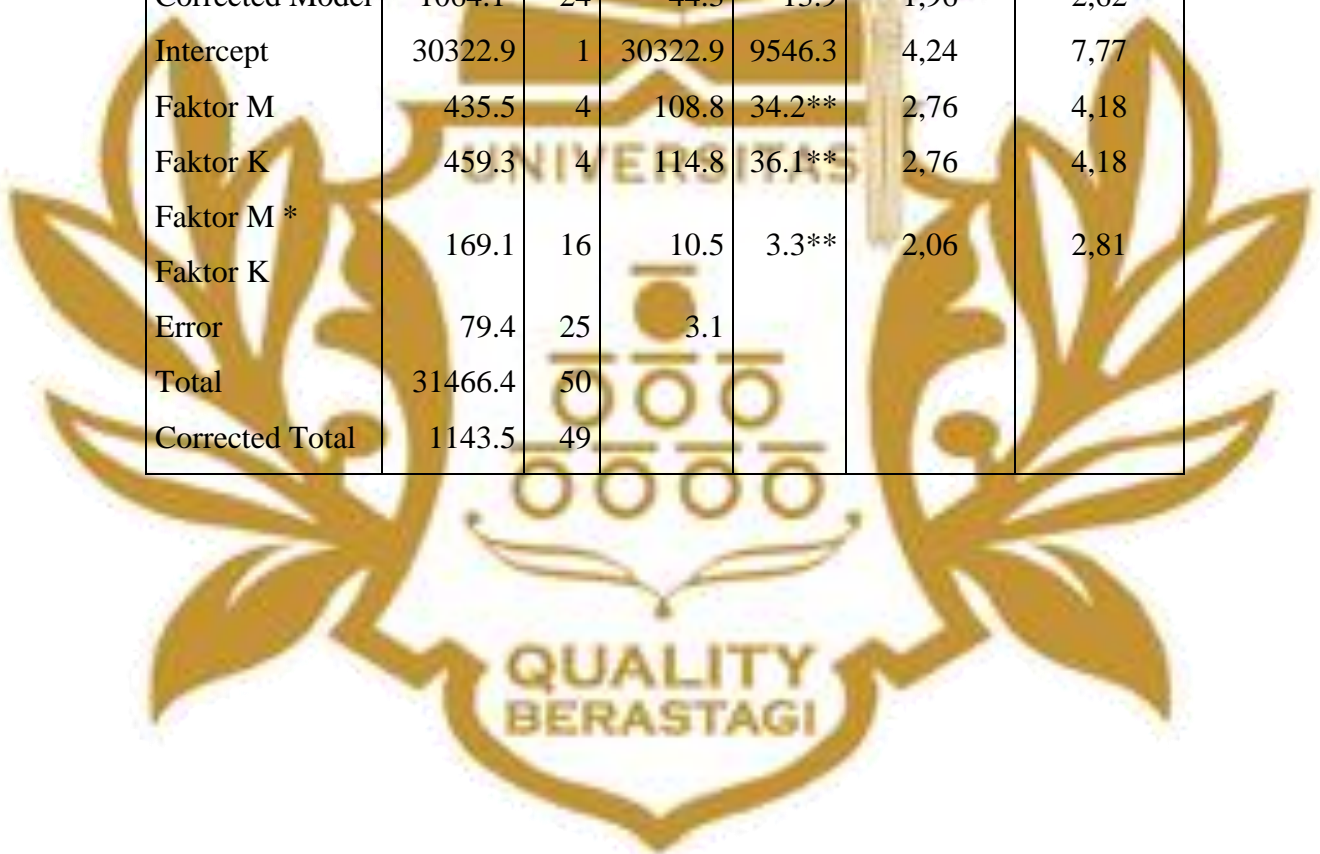


**LAMPIRAN 17. HASIL ANALISIS SIDIK RAGAM PENGARUH M, K,  
DAN K X M TERHADAP PERTUMBUHAN DIAMETER  
TAJUK TANAMAN KENTANG**

**Tests of Between-Subjects Effects**

Dependent Variable: Diameter Tajuk

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	
					F Tabel A = 0,05	F Tabel A = 0,01
Corrected Model	1064.1 <sup>a</sup>	24	44.3	13.9	1,96	2,62
Intercept	30322.9	1	30322.9	9546.3	4,24	7,77
Faktor M	435.5	4	108.8	34.2**	2,76	4,18
Faktor K	459.3	4	114.8	36.1**	2,76	4,18
Faktor M * Faktor K	169.1	16	10.5	3.3**	2,06	2,81
Error	79.4	25	3.1			
Total	31466.4	50				
Corrected Total	1143.5	49				



**LAMPIRAN 18. PENGARUH TARAF MAGNESIUM (M) TERHADAP  
DIAMETER TAJUK TANAMAN KENTANG**

Diameter Tajuk (cm)					
	Magnesium Sulfat	N	Subset		
			1	2	3
Duncan <sup>a,b</sup>	M0	10	20.795 c		
	M1	10	21.676 c		
	M2	10		25.100 b	
	M3	10			27.623 a
	M4	10			27.938 a
	Sig.			.280	1.000

Means for groups in homogeneous subsets are displayed. Based on observed means. The error term is Mean Square(Error) = 3,176. a. Uses Harmonic Mean Sample Size = 10,000. b. Alpha = ,05.



**LAMPIRAN 19.**

**INTERAKSI FAKTOR K DAN M**

**Diameter Tajuk (Cm)**

Duncan<sup>a,b</sup>

Kombinasi	N	Subset					
		1	2	3	4	5	6
K0M0	2	19.1250					
K0M2	2	19.3450					
K0M1	2	20.3450	20.3450				
K1M0	2	20.4400	20.4400				
K0M4	2	20.8150	20.8150				
K1M1	2	20.8750	20.8750				
K3M0	2	20.9400	20.9400				
K2M0	2	20.9700	20.9700				
K0M3	2	21.7800	21.7800				
K3M1	2	21.9100	21.9100				
K2M1	2	21.9350	21.9350				
K1M2	2	22.5000	22.5000				
K4M0	2	22.5000	22.5000				
K4M1	2	23.3150	23.3150				
K2M2	2	23.3750	23.3750				
K1M4	2		23.9350	23.9350			
K1M3	2		24.0350	24.0350			
K2M3	2			27.7650	27.7650		
K3M2	2				28.2800	28.2800	
K2M4	2				30.5000	30.5000	30.5000
K3M3	2				31.2200	31.2200	31.2200
K3M4	2					31.8750	31.8750
K4M2	2					32.0000	32.0000
K4M4	2						32.5650
K4M3	2						33.3150
Sig.		.055	.092	.051	.087	.071	.175

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 3,176.

a. Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = 0,05.

LAMPIRAN 20.

DESKRIPTIF DATA DIAMETER TAJUK

Descriptive Statistics

Dependent Variable: Diameter Tajuk (Cm)

Magnesium Sulfat	Pupuk Kompos	Mean	Std. Deviation	N
M0	K0	19.1250	.26163	2
	K1	20.4400	2.82843	2
	K2	20.9700	2.43245	2
	K3	20.9400	.97581	2
	K4	22.5000	2.20617	2
	Total		20.7950	1.87237
M1	K0	20.3450	1.81726	2
	K1	20.8750	1.50614	2
	K2	21.9350	1.23744	2
	K3	21.9100	.66468	2
	K4	23.3150	2.92035	2
	Total		21.6760	1.71643
M2	K0	19.3450	.30406	2
	K1	22.5000	1.85262	2
	K2	23.3750	.96874	2
	K3	28.2800	.74953	2
	K4	32.0000	2.39002	2
	Total		25.1000	4.85218
M3	K0	21.7800	1.81019	2
	K1	24.0350	2.69408	2
	K2	27.7650	1.57685	2
	K3	31.2200	.31113	2
	K4	33.3150	.79903	2
	Total		27.6230	4.69634
M4	K0	20.8150	1.50614	2
	K1	23.9350	3.00520	2
	K2	30.5000	.70711	2
	K3	31.8750	1.94454	2
	K4	32.5650	1.85969	2
	Total		27.9380	5.15868
Total	K0	20.2820	1.43395	10
	K1	22.3570	2.41258	10
	K2	24.9090	3.99489	10
	K3	26.8450	4.91349	10
	K4	28.7390	5.29485	10
	Total		24.6264	4.83085

**LAMPIRAN 21.**

**UJI LSD FAKTOR M TERHADAP PERTUMBUHAN  
DIAMETER TAJUK**

**Multiple Comparisons**

Dependent Variable: Diameter Tajuk

	(I) Magnesium Sulfat	(J) Magnesium Sulfat	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	M0	M1	-.8810	.79705	.280	-2.5225	.7605
		M2	-4.3050*	.79705	.000	5.9465	2.6635
		M3	-6.8280*	.79705	.000	8.4695	5.1865
		M4	-7.1430*	.79705	.000	8.7845	5.5015
	M1	M0	.8810	.79705	.280	-.7605	2.5225
		M2	-3.4240*	.79705	.000	5.0655	1.7825
		M3	-5.9470*	.79705	.000	7.5885	4.3055
		M4	-6.2620*	.79705	.000	7.9035	4.6205
	M2	M0	4.3050*	.79705	.000	2.6635	5.9465
		M1	3.4240*	.79705	.000	1.7825	5.0655
		M3	-2.5230*	.79705	.004	4.1645	-.8815
		M4	-2.8380*	.79705	.002	4.4795	1.1965
	M3	M0	6.8280*	.79705	.000	5.1865	8.4695
		M1	5.9470*	.79705	.000	4.3055	7.5885
		M2	2.5230*	.79705	.004	.8815	4.1645
		M4	-.3150	.79705	.696	1.9565	1.3265
	M4	M0	7.1430*	.79705	.000	5.5015	8.7845
		M1	6.2620*	.79705	.000	4.6205	7.9035
		M2	2.8380*	.79705	.002	1.1965	4.4795
		M3	.3150	.79705	.696	1.3265	1.9565
Based on observed means.							
The error term is Mean Square(Error) = 3,176.							
*. The mean difference is significant at the ,05 level.							

LAMPIRAN 22.

UJI LSD FAKTOR K TERHADAP PERTUMBUHAN

DIAMETER TAJUK

Multiple Comparisons

Dependent Variable: Diameter Tajuk (Cm)

	(I) Pupuk Kompos	(J) Pupuk Kompos	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K0	K1	-2.0750*	.79705	.015	3.7165	-4.335
		K2	-4.6270*	.79705	.000	6.2685	-2.9855
		K3	-6.5630*	.79705	.000	8.2045	-4.9215
		K4	-8.4570*	.79705	.000	10.0985	-6.8155
	K1	K0	2.0750*	.79705	.015	.4335	3.7165
		K2	-2.5520*	.79705	.004	4.1935	-.9105
		K3	-4.4880*	.79705	.000	6.1295	-2.8465
		K4	-6.3820*	.79705	.000	8.0235	-4.7405
	K2	K0	4.6270*	.79705	.000	2.9855	6.2685
		K1	2.5520*	.79705	.004	.9105	4.1935
		K3	-1.9360*	.79705	.023	3.5775	-.2945
		K4	-3.8300*	.79705	.000	5.4715	-2.1885
	K3	K0	6.5630*	.79705	.000	4.9215	8.2045
		K1	4.4880*	.79705	.000	2.8465	6.1295
		K2	1.9360*	.79705	.023	.2945	3.5775
		K4	-1.8940*	.79705	.025	3.5355	-.2525
K4	K0	8.4570*	.79705	.000	6.8155	10.0985	
	K1	6.3820*	.79705	.000	4.7405	8.0235	
	K2	3.8300*	.79705	.000	2.1885	5.4715	
	K3	1.8940*	.79705	.025	.2525	3.5355	
Based on observed means.							
The error term is Mean Square(Error) = 3,176.							
*. The mean difference is significant at the ,05 level.							

LAMPIRAN 23.

DATA JUMLAH DAUN ULANGAN I

	M0				M1				M2				M3				M4			
<b>K0</b>	4	4	3	3	3	5	4	6	3	4	5	7	8	9	7	5	4	6	7	9
	14	15	16	17	14	16	18	19	15	16	18	17	14	19	17	15	16	17	18	19
	25	26	27	27	25	29	27	24	29	26	25	24	28	29	26	25	24	29	27	29
	29	28	27	29	26	27	29	24	25	24	27	27	28	29	29	26	25	30	28	29
<b>K1</b>	8	9	7	3	4	3	5	7	6	5	4	3	6	8	3	5	4	3	5	7
	16	15	17	14	14	16	17	19	15	14	16	18	17	19	16	18	14	16	14	18
	24	25	24	25	25	26	27	25	29	28	25	24	28	26	28	29	26	29	25	29
	25	24	26	27	24	23	29	27	26	27	24	25	26	28	28	29	24	26	29	28
<b>K2</b>	6	5	7	9	3	4	5	8	6	7	8	9	3	5	7	9	9	7	5	3
	14	15	17	19	14	15	16	19	18	19	17	14	14	15	16	17	16	17	18	16
	25	24	25	28	26	24	25	28	25	24	27	29	27	26	25	28	29	27	26	25
	30	23	26	27	27	29	26	29	26	27	27	31	24	23	28	30	26	27	30	27
<b>K3</b>	7	4	3	6	3	6	8	9	5	3	6	7	9	7	5	3	4	5	3	7
	19	15	14	17	17	18	14	16	15	18	19	17	15	14	17	19	14	17	16	15
	24	26	27	29	27	25	29	24	29	27	28	24	24	26	26	28	27	28	29	25
	25	27	26	26	27	30	30	25	27	26	29	30	25	27	29	30	30	31	30	27
<b>K4</b>	5	6	7	5	9	6	7	5	3	5	4	6	6	7	8	9	9	6	5	7
	17	16	15	14	14	15	17	16	15	14	18	19	16	15	14	19	19	17	15	18
	25	27	26	29	27	29	27	29	28	29	30	27	28	26	26	29	26	25	29	28
	28	29	30	31	26	27	29	30	26	27	31	30	30	28	29	31	28	34	30	31

LAMPIRAN 24.

DATA JUMLAH DAUN ULANGAN II

	M0				M1				M2				M3				M4			
K0	4	3	5	5	4	6	5	6	4	6	5	4	5	5	4	4	6	5	4	3
	14	15	16	17	17	14	15	19	19	15	14	17	18	17	16	15	19	18	17	16
	24	25	27	27	25	24	26	27	27	26	28	25	27	29	28	26	26	28	30	27
	25	27	28	29	26	25	27	30	30	31	28	30	29	30	32	29	27	28	31	30
K1	5	4	3	6	6	3	4	7	4	6	5	7	4	5	6	6	6	7	5	4
	14	16	18	19	19	17	15	18	15	16	14	17	19	18	16	15	17	15	16	14
	25	24	29	26	26	29	24	25	27	24	26	25	25	27	29	30	26	29	25	24
	30	31	28	29	28	28	27	30	27	28	29	30	31	26	32	31	27	31	29	30
K2	6	4	3	7	5	4	4	6	6	7	4	3	4	5	6	7	5	8	7	4
	19	14	15	18	14	15	16	19	18	15	16	19	19	16	15	18	14	17	19	18
	24	25	29	28	26	25	28	29	29	28	25	26	26	25	28	29	25	24	26	27
	29	30	31	32	30	29	29	32	34	31	30	29	29	30	30	29	28	29	31	32
K3	6	7	8	5	4	3	5	7	6	8	7	3	3	4	5	6	6	5	4	3
	18	19	17	14	15	16	17	18	18	17	16	15	14	19	15	16	16	15	19	14
	27	26	24	25	27	24	26	29	29	26	25	27	25	26	27	29	29	29	28	29
	33	30	29	29	30	29	27	31	31	33	29	30	31	33	33	30	31	32	30	30
K4	8	7	6	5	4	6	8	5	5	8	6	4	8	6	4	3	3	6	7	5
	14	15	19	18	14	18	19	15	18	19	14	15	16	17	19	14	18	17	15	14
	27	28	29	24	24	29	28	29	24	27	26	27	27	26	29	24	28	24	29	24
	32	30	31	34	31	30	32	30	32	34	30	33	32	34	32	29	31	29	32	29



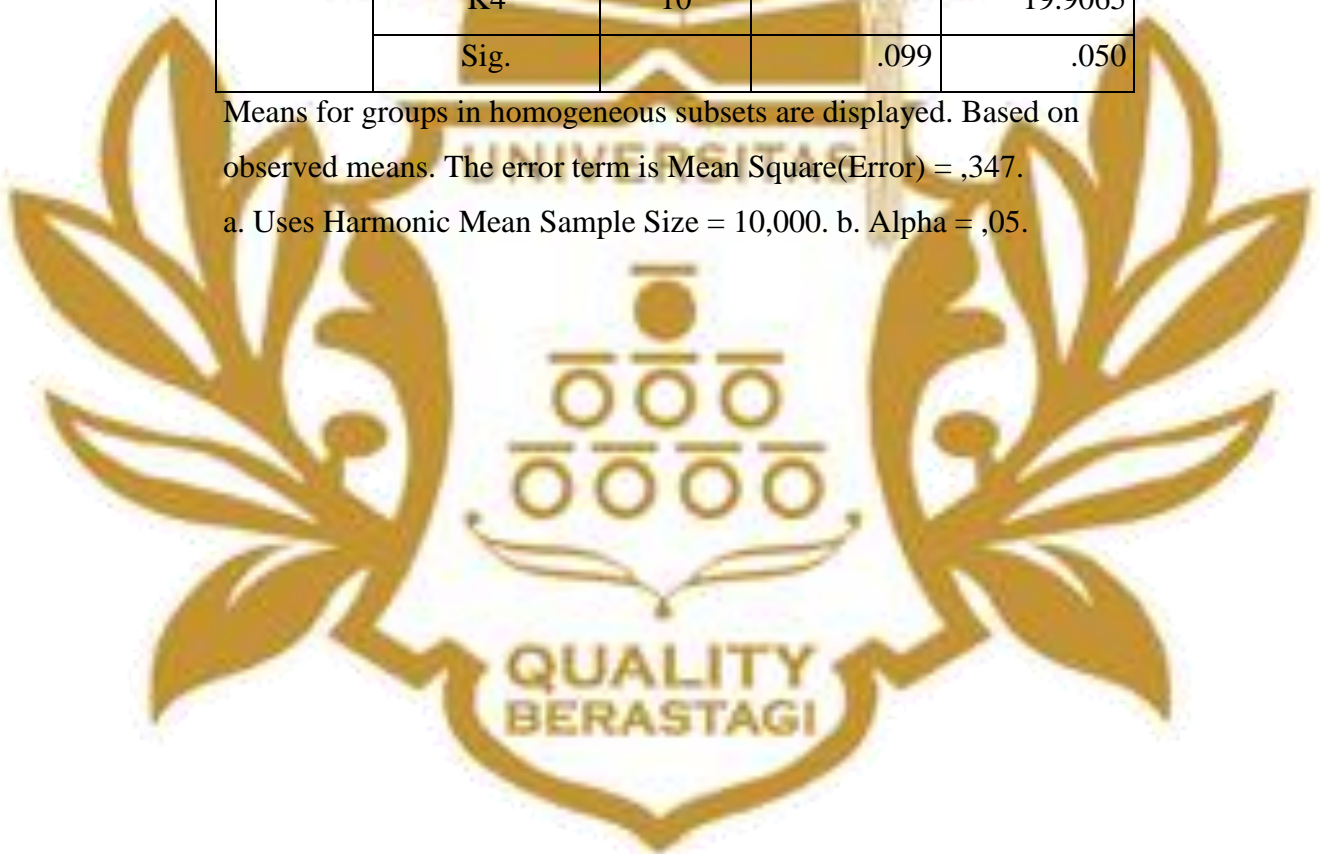
**LAMPIRAN 25. PENGARUH TARAF PUPUK KOMPOS (K)  
TERHADAP JUMLAH DAUN TANAMAN KENTANG**

**Jumlah Daun**

	Pupuk Kompos	N	Subset	
			1	2
Duncan <sup>a,b</sup>	K1	10	18.8628	
	K0	10	18.9877	
	K3	10	19.3376	19.3376
	K2	10		19.6501
	K4	10		19.9065
	Sig.			.099

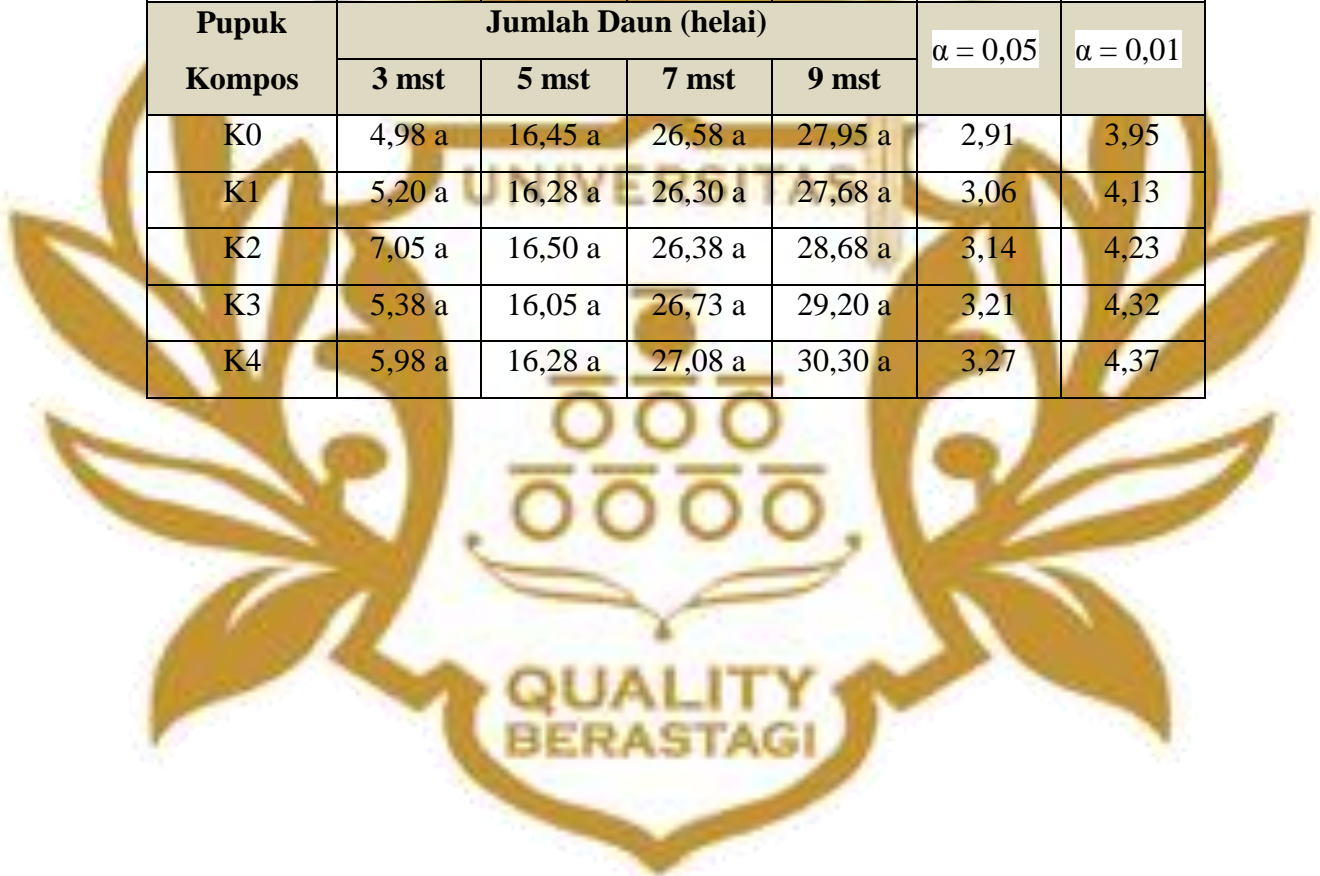
Means for groups in homogeneous subsets are displayed. Based on observed means. The error term is Mean Square(Error) = ,347.

a. Uses Harmonic Mean Sample Size = 10,000. b. Alpha = ,05.



**LAMPIRAN 26. TREND PERTUMBUHAN JUMLAH DAUN PENGARUH  
PUPUK KOMPOS (K) DAN MAGNESIUM SULFAT (M)**

Magnesium Sulfat	Jumlah Daun (helai)				$\alpha = 0,05$	$\alpha = 0,01$
	3 mst	5 mst	7 mst	9 mst		
M0	5,45 a	15,83 a	20,03 b	28,50 a	2,91	3,95
M1	6,60 a	16,35 a	26,45 a	28,13 a	3,06	4,13
M2	5,35 a	16,48 a	26,60 a	28,78 a	3,14	4,23
M3	5,73 a	16,45 a	27,00 a	29,23 a	3,21	4,32
M4	5,45 a	16,45 a	26,98 a	29,18 a	3,27	4,37
Pupuk Kompos	Jumlah Daun (helai)				$\alpha = 0,05$	$\alpha = 0,01$
	3 mst	5 mst	7 mst	9 mst		
K0	4,98 a	16,45 a	26,58 a	27,95 a	2,91	3,95
K1	5,20 a	16,28 a	26,30 a	27,68 a	3,06	4,13
K2	7,05 a	16,50 a	26,38 a	28,68 a	3,14	4,23
K3	5,38 a	16,05 a	26,73 a	29,20 a	3,21	4,32
K4	5,98 a	16,28 a	27,08 a	30,30 a	3,27	4,37



LAMPIRAN 27.

UJI LSD FAKTOR M TERHADAP PERTAMBAHAN  
JUMLAH DAUN

Multiple Comparisons							
Dependent Variable: Jumlah Daun							
	(I) Magnesium Silfat	(J) Magne- sium Silfat	Mean Differen- ce (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	M0	M1	-.4311	.26327	.114	-.9733	.1111
		M2	-.3498	.26327	.196	-.8920	.1924
		M3	-.6498*	.26327	.021	1.1920	-.1076
		M4	-.5625*	.26327	.043	1.1047	-.0203
	M1	M0	.4311	.26327	.114	-.1111	.9733
		M2	.0813	.26327	.760	-.4609	.6235
		M3	-.2187	.26327	.414	-.7609	.3235
		M4	-.1314	.26327	.622	-.6736	.4108
	M2	M0	.3498	.26327	.196	-.1924	.8920
		M1	-.0813	.26327	.760	-.6235	.4609
		M3	-.3000	.26327	.265	-.8422	.2422
		M4	-.2127	.26327	.427	-.7549	.3295
	M3	M0	.6498*	.26327	.021	.1076	1.1920
		M1	.2187	.26327	.414	-.3235	.7609
		M2	.3000	.26327	.265	-.2422	.8422
		M4	.0873	.26327	.743	-.4549	.6295
M4	M0	.5625*	.26327	.043	.0203	1.1047	
	M1	.1314	.26327	.622	-.4108	.6736	
	M2	.2127	.26327	.427	-.3295	.7549	
	M3	-.0873	.26327	.743	-.6295	.4549	
Based on observed means.							
The error term is Mean Square(Error) = ,347.							
*. The mean difference is significant at the ,05 level.							

**LAMPIRAN 28.**

**UJI LSD FAKTOR K TERHADAP PERTAMBAHAN  
JUMLAH DAUN**

Multiple Comparisons							
Dependent Variable: Jumlah Daun							
	(I) Pupuk Kompos	(J) Pupuk Kompos	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K0	K1	.1249	.26327	.639	-.4173	.6671
		K2	-.6624*	.26327	.019	-1.2046	-.1202
		K3	-.3499	.26327	.196	-.8921	.1923
		K4	-.9188*	.26327	.002	-1.4610	-.3766
	K1	K0	-.1249	.26327	.639	-.6671	.4173
		K2	-.7873*	.26327	.006	-1.3295	-.2451
		K3	-.4748	.26327	.083	-1.0170	.0674
		K4	-1.0437*	.26327	.001	-1.5859	-.5015
	K2	K0	.6624*	.26327	.019	.1202	1.2046
		K1	.7873*	.26327	.006	.2451	1.3295
		K3	.3125	.26327	.246	-.2297	.8547
		K4	-.2564	.26327	.339	-.7986	.2858
	K3	K0	.3499	.26327	.196	-.1923	.8921
		K1	.4748	.26327	.083	-.0674	1.0170
		K2	-.3125	.26327	.246	-.8547	.2297
		K4	-.5689*	.26327	.040	-1.1111	-.0267
K4	K0	.9188*	.26327	.002	.3766	1.4610	
	K1	1.0437*	.26327	.001	.5015	1.5859	
	K2	.2564	.26327	.339	-.2858	.7986	
	K3	.5689*	.26327	.040	.0267	1.1111	
Based on observed means.							
The error term is Mean Square(Error) = ,347.							
*. The mean difference is significant at the ,05 level.							

LAMPIRAN 29.

LAHAN PENELITIAN



BERASTAGI

LAMPIRAN 30.

**BIBIT KENTANG**



**QUALITY  
BERASTAGI**

**LAMPIRAN 31.**

**PUPUK MAGNESIUM SULFAT**



**BERASTAGI**

**LAMPIRAN 32.**

**PENANAMAN KENTANG**





**LAMPIRAN 33.**

**PEMASANGAN AJIR**



**LAMPIRAN 34.**

**TANAMAN KENTANG 30 HST**



**LAMPIRAN 35.**

**PENGAMATAN TINGGI TANAMAN**



**LAMPIRAN 36.**

**PENGAMATAN DIAMETER TAJUK TANAMAN**



**LAMPIRAN 37.**

**SUPERVISI DENGAN DOSEN PEMBIMBING**





UNIVERSITAS QUALITY BERASTAGI  
**FAKULTAS SAINS DAN TEKNOLOGI**

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Berastagi, 2 Februari 2021

Nomor : 0031/I/SAINTEK/UQB/I/2021  
Lamp. : 1 (satu) berkas  
Perihal : *Kesediaan menjadi Dosen Pembimbing skripsi mahasiswa*

Kepada Yth. :

**Ir.Drs.Sumatera Tarigan,M.si**

di –

Tempat

Dengan hormat,

Sehubungan dengan usulan judul skripsi, penyusunan proposal skripsi sampai dengan penulisan skripsi mahasiswa :

Nama Lengkap : Daniel Silalahi

Nomor Pokok Mahasiswa : 1711010014

dengan judul :

**APLIKASI PUPUK KOMPOS DENGAN PUPUK MAGNESIUM SULFAT TERHADAP PERTUMBUHAN TANAMAN KENTANG G2 (*Solanumtuberosum L.*)**

mengingat topik tersebut berada dalam lingkup bidang studi Agroteknologi yang saudara kuasai, dimohon kesediaan saudara untuk menjadi Dosen Pembimbing mahasiswa yang bersangkutan (isian formulir pengajuan judul skripsi terlampir).

Atas kerja sama yang baik, kami ucapkan terima kasih

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Dekan

Dasrizal, ST.,MT



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SURAT PERNYATAAN KESEDIAAN  
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Judul Skripsi : APLIKASI PUPUK KOMPOS DENGAN PUPUK  
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KENTANG G2 (*Solanumtuberosum* L.)

Demikian surat pernyataan kesediaan ini saya perbuat dengan sebenarnya untuk dapat dipergunakan sebagaimana mestinya.

Berastagi,

Yang menyatakan,



Ir.Drs.Sumatera Tarigan,M.Si



SURAT PERNYATAAN KESEDIAAN  
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