DAFTAR PUSTAKA

Anonim. 2017. *Sejarah kelapa Sawit Indonesia*. GAPKI. Https://gapki.id/news/video-sejarah-kelapa-sawit-indonesia

Anonim. 2019. *Statistik Perkebunan Indonesia 2018-2020*. Direktorat Jenderal Perkebunan Jakarta

Barus, E. 2003. *Pengendalian Gulma di Perkebunan, Efektivitas dan Efisiensi Aplikasi Herbisida*. Yogyakarta. Kanisius

Burhannudin. 2001. *Strategi Pengembangan Industri Garam di Indonesia*. Yogyakarta. Kanisius

Faujiati, Hermanto dan Fitriani. 2019. *Peluang Minyak Mentah Sebagai Bahan Sediaan Farmasi*. Jurnal Riset Teknologi Industri, 16 (3) : 21-28

Girsang, W. 2005. *Pengaruh Tingkat Dosis Herbisida Isopropilamina Glifosat dan Selang Waktu Terjadinya Pencucian Setelah Aplikasi Terhadap Efektifitas Pengendalian Gulma Pada Perkebunan Karet (Havea brasiliensis) TBM*. Jurnal Penelitian Bidang Ilmu Pertanian, 3 (2) : 31-36

Kusumiyati, Onggo, T.M., Habibah, F.A. 2017. *Pengaruh Konsentrasi Larutan Garam NaCl Terhadap Pertumbuhan dan Kualitas Lima Kultivar Asparagus*. Jurnal Hortikultura, 27 (1) : 79-86.

Mangoensoekarjo,S & A.T.Tojib. 2003. *Managemen Budidaya Kelapa Sawit*. Gadjah Mada University Press

Moenandir, J. 1988. *Pengantar Ilmu Gulma dan Pengendalian Gulma*. Jakarta. Rajawali Press

Pahan, I. 2015. *Panduan Teknis Budidaya Kelapa Sawit untuk Praktisi Perkebunan*. Jakarta. Penebar Swadaya

Pasaribu, Rungun, Karuniawan Puji Wicaksono, dan Setyono Yudo Tyasmoro. 2017. *Uji Lapang Efikasi Herbisida Berbahan Aktif Glifosat 250 g/l Terhadap Gulma Pada Budidaya Kelapa Sawit Belum Menghasilka*. Jurnal Produksi Tanaman, 5 (1) : 108-115

Pudjiharta, Enny, W., Yelin, A., dan Syahfruddin, H.K. 2008. *Kajian teknik rehabilitasi lahan alang – alang* (*Imperata cylindrica*). Info Hutan

Rijal, N. 2009. *Mekanisme dan Penerapan serta Peranan Alelopati dalam Bidang Pertanian. Malang*. Jurnal Penelitian Universitas Muhammadiyah Malang, 40 (1) : 80

Sastroutomo, S.S. 1990. *Ekologi Gulma*. Jakarta. Gramedia Pustaka Utama

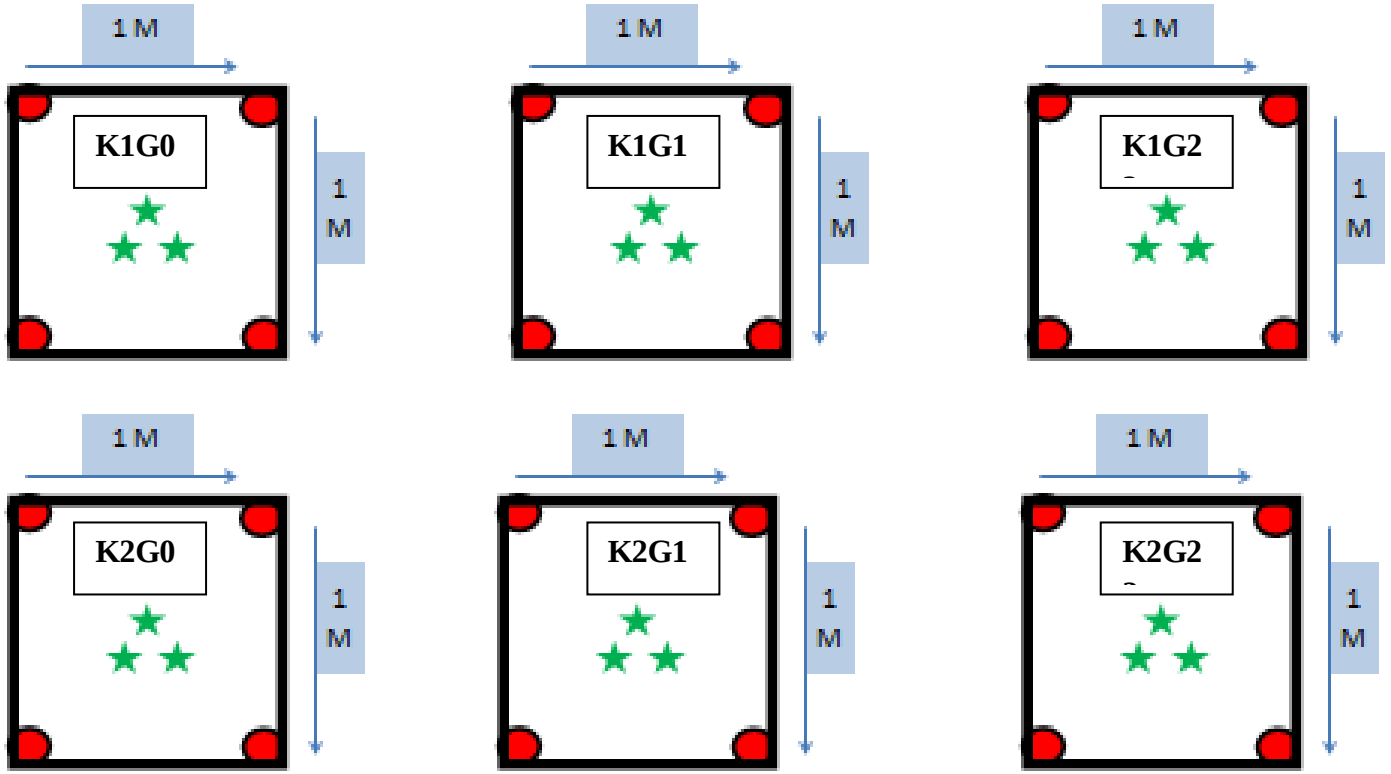
Wirianata,H. 2013.*Dasar-dasar Agronomi Kelapa Sawit*.Yogyakarta. Institute Pertanian STIPER.

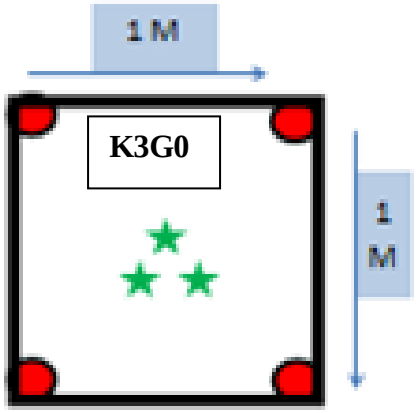
LAMPIRAN

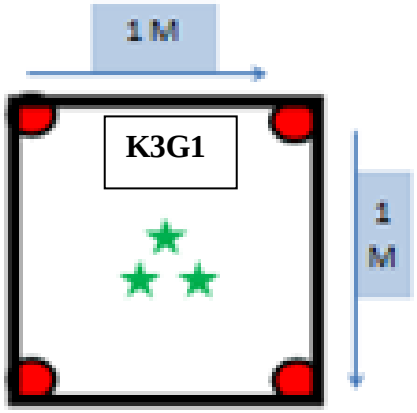
LAYOUT PETAK PENELETIAN

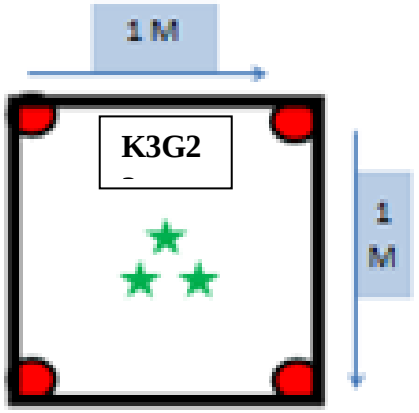
Lampiran 1. Lay out petak sampel gulma

- **ULANGAN 1 PETAK 1**









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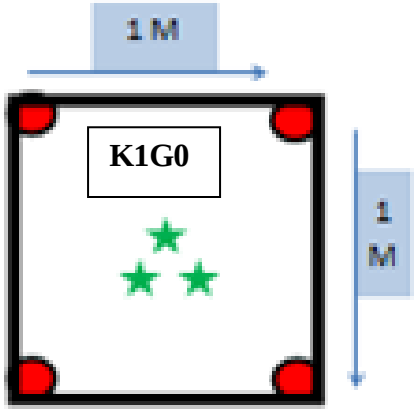

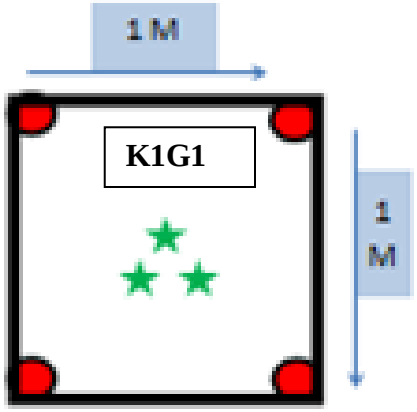

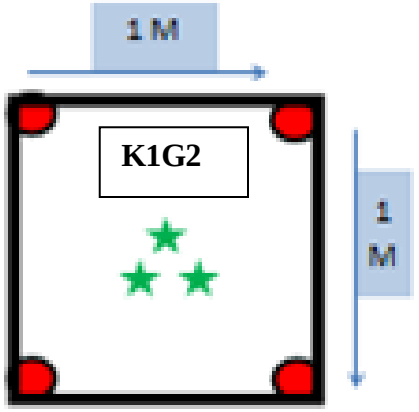

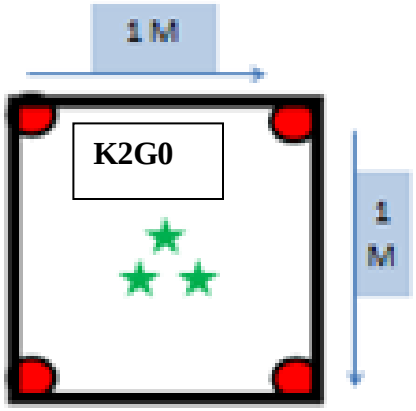
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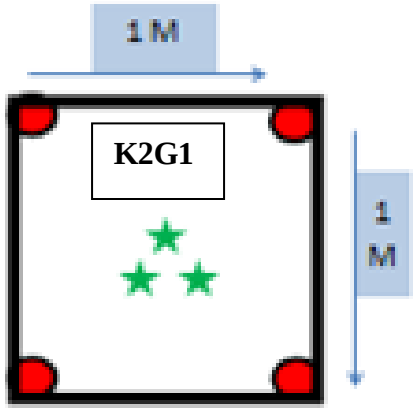
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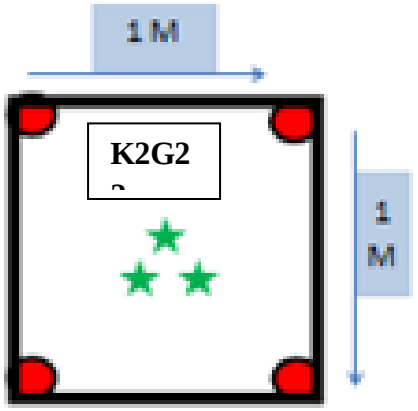
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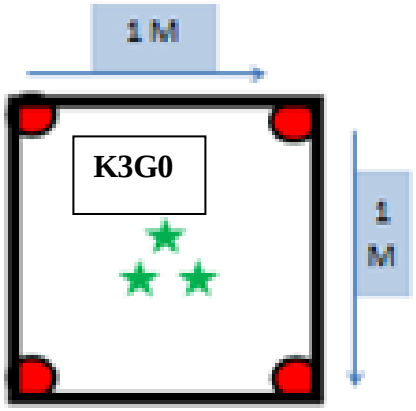
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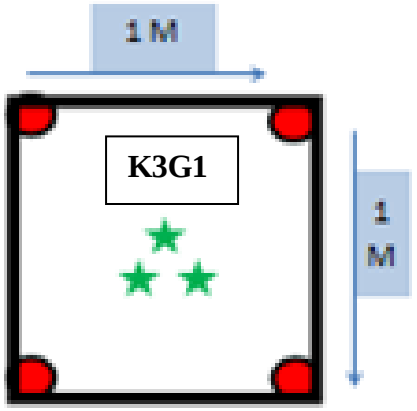
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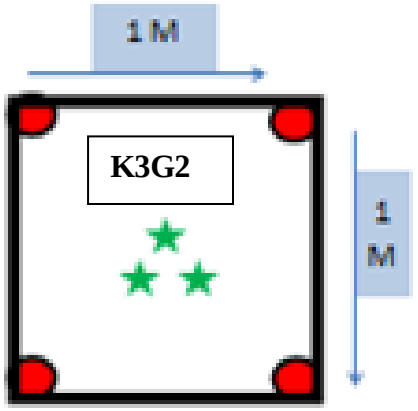
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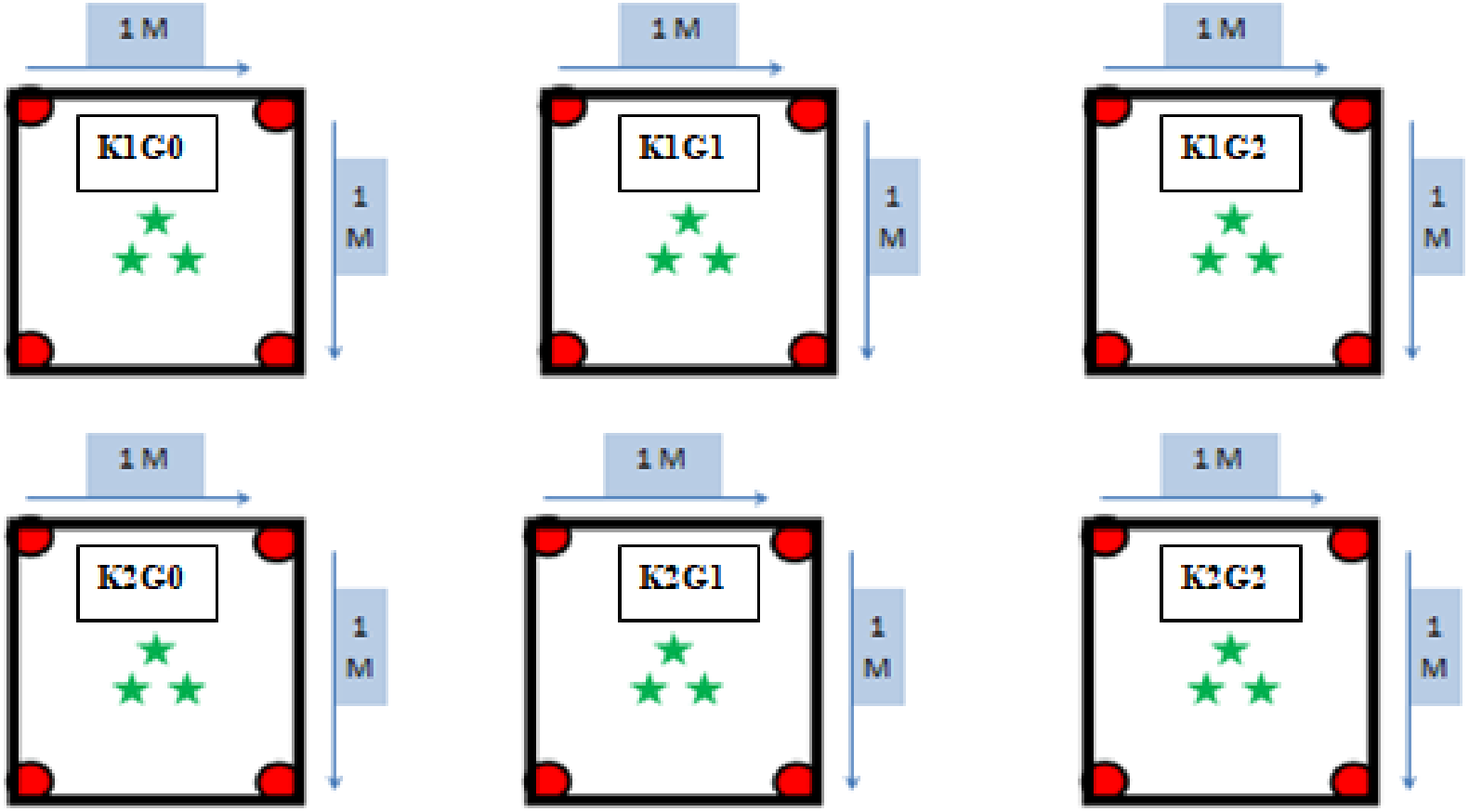

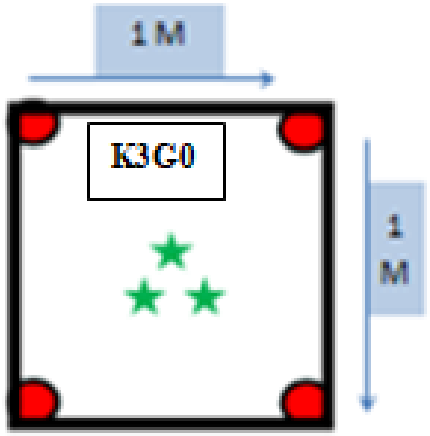

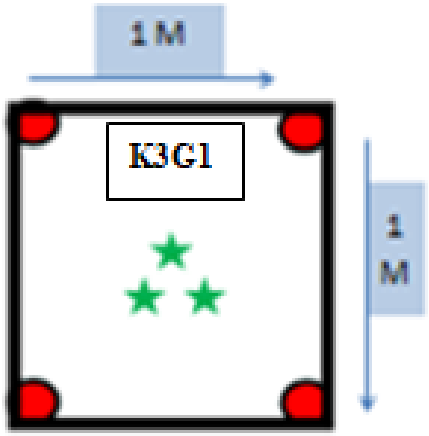

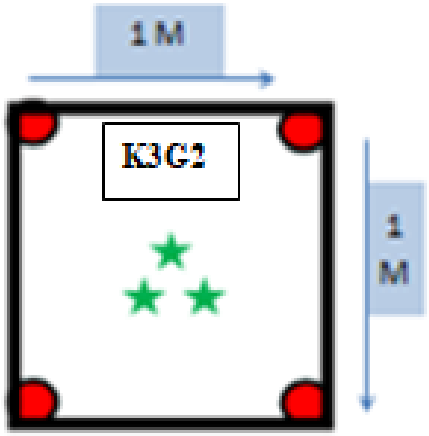

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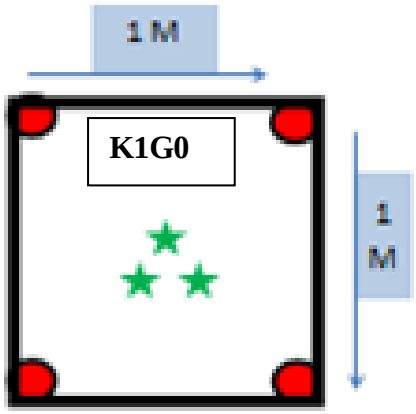
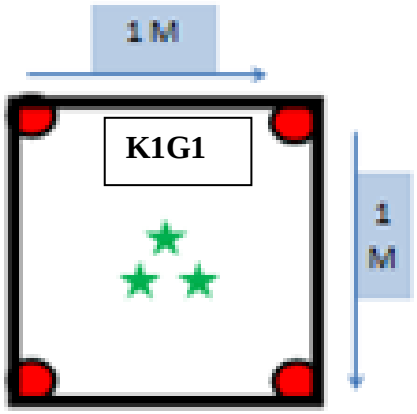
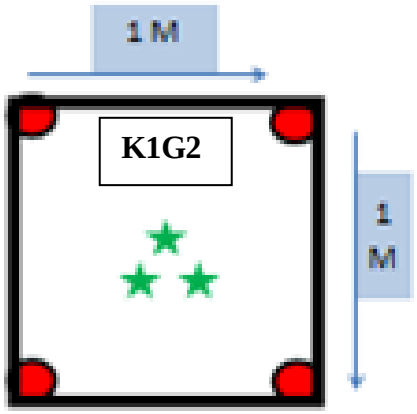
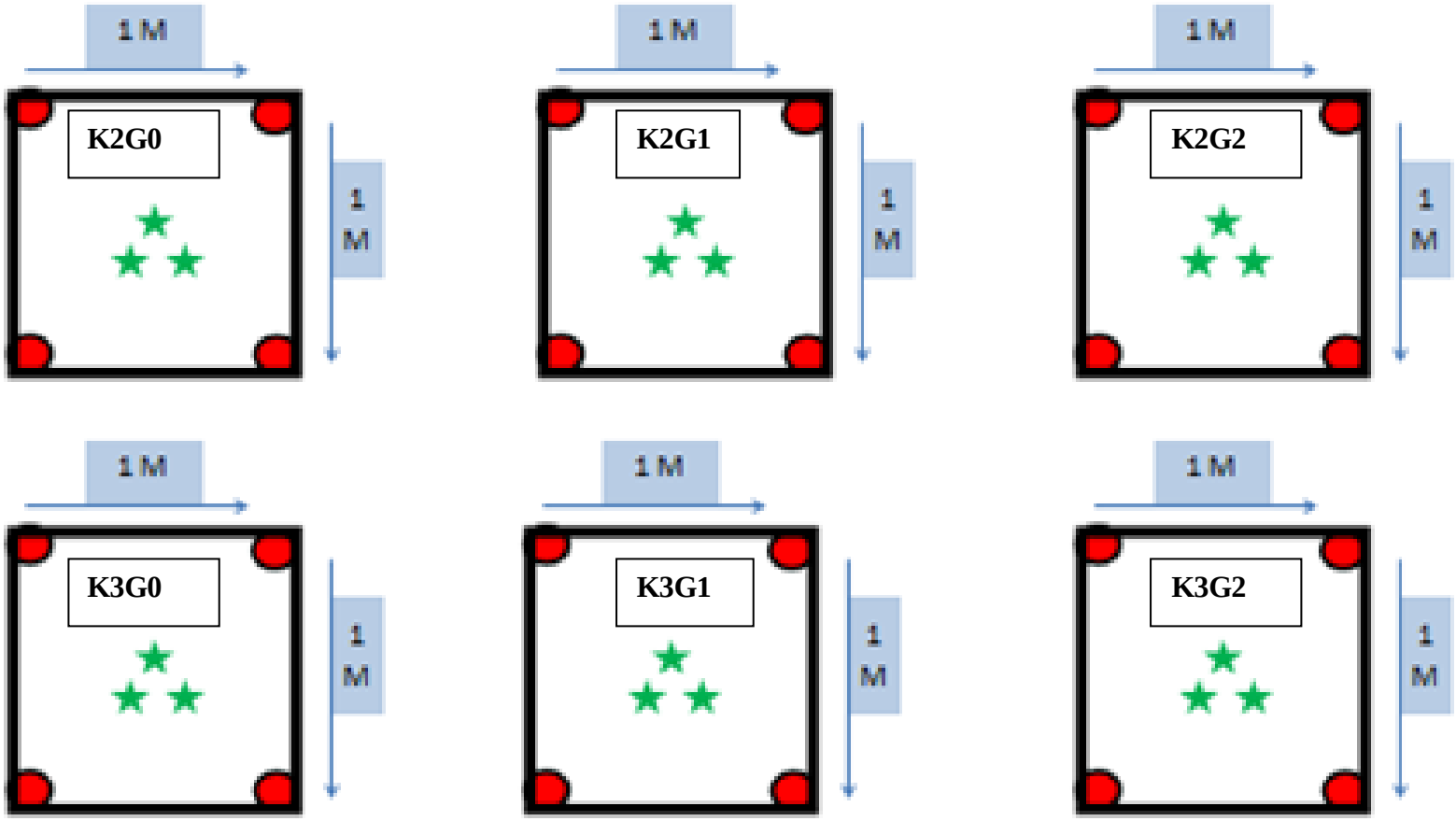
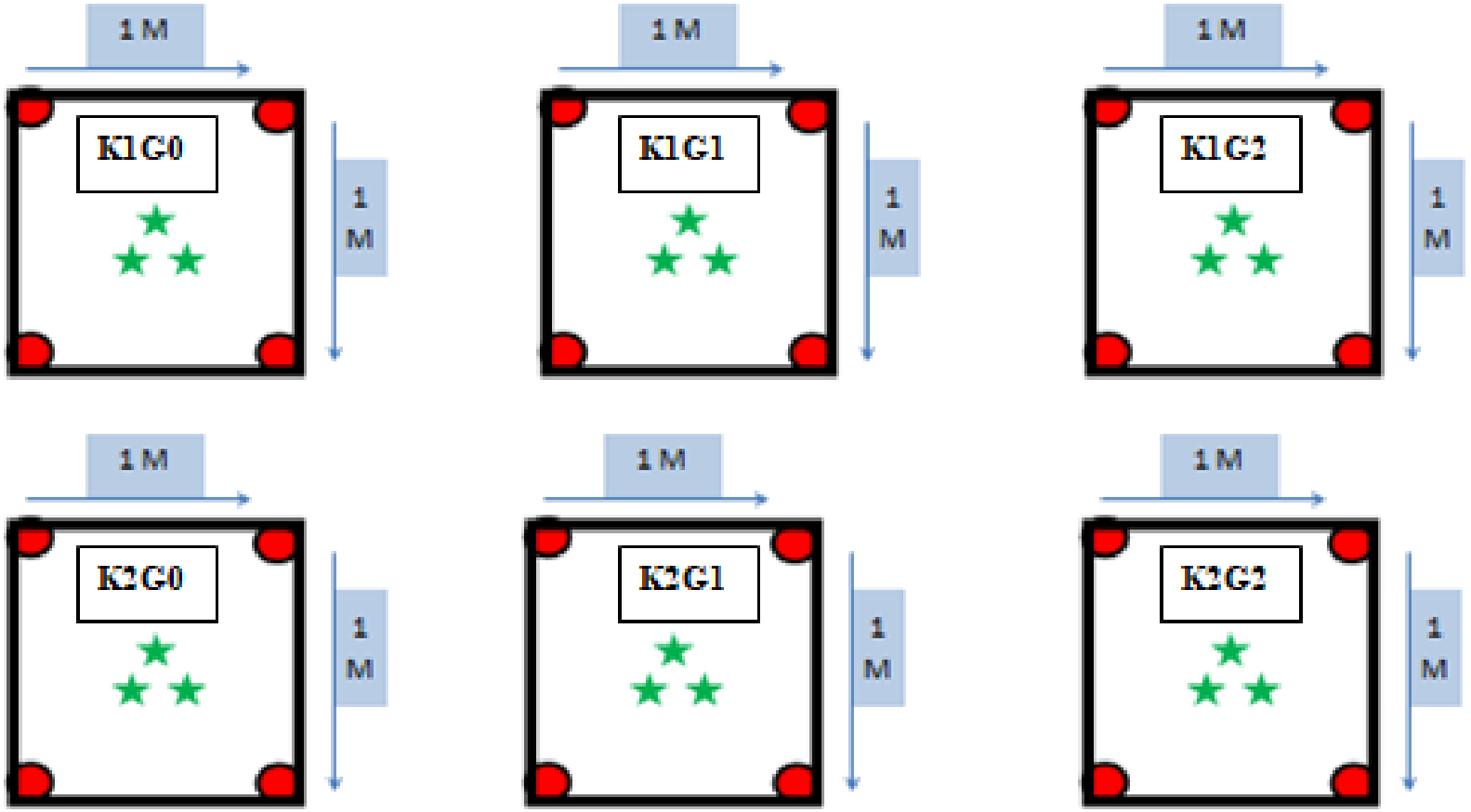


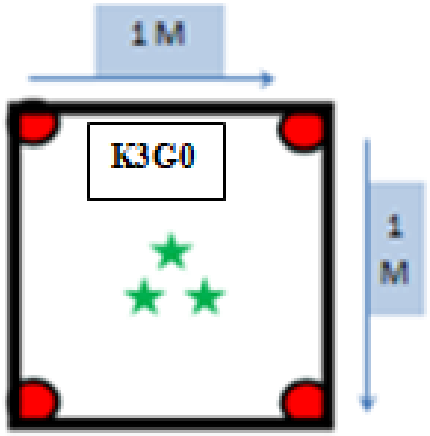


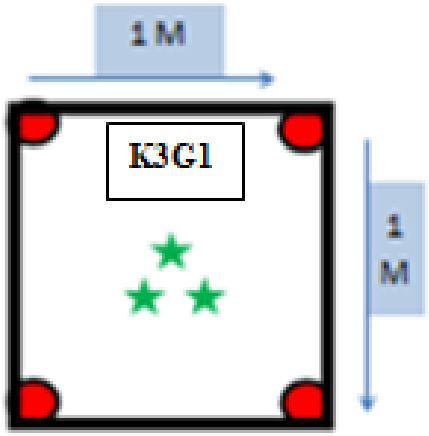


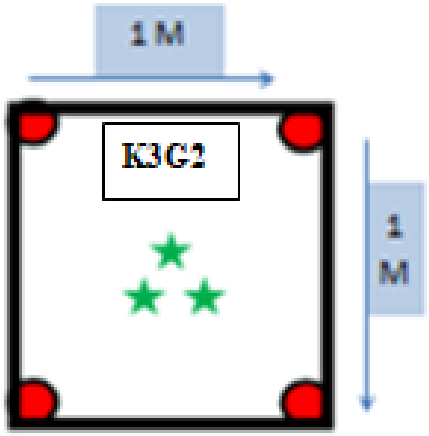

1 M
K2G0
1 M
1 M
K2G1
1 M
1 M
K2G2
1 M
1 M
K3G0
1 M
1 M
K3G1
1 M
1 M
K3G2
1 M

- **ULANGAN 3 PETAK 1**









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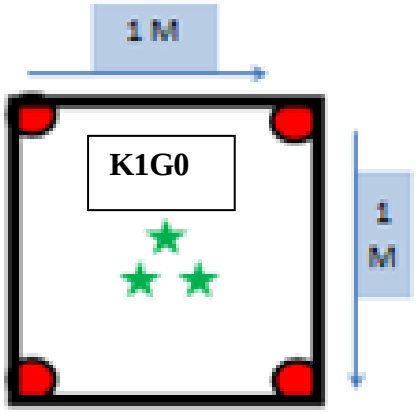

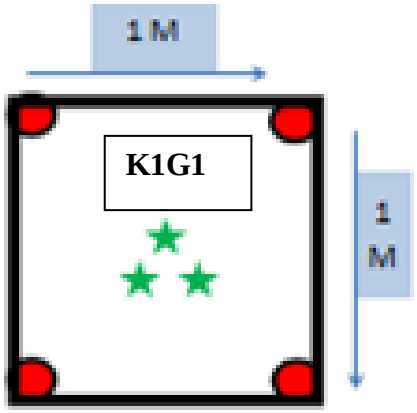

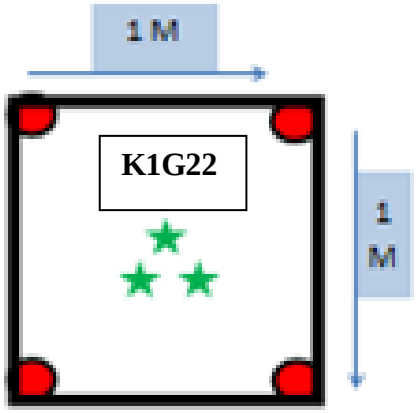

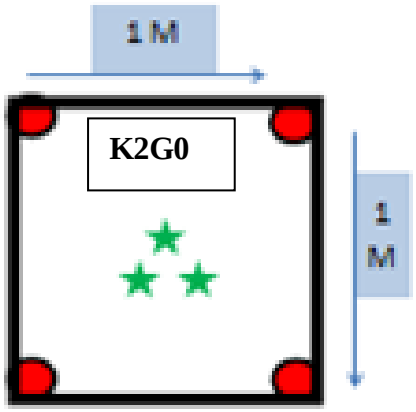
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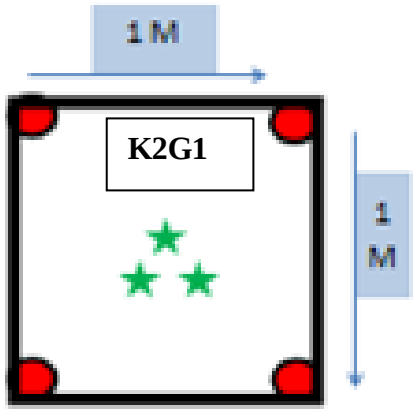
1
M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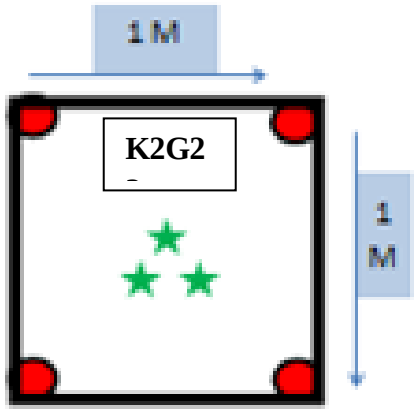
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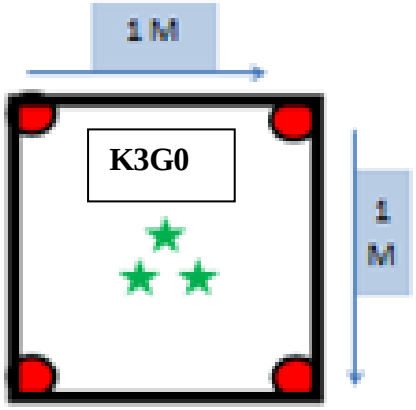
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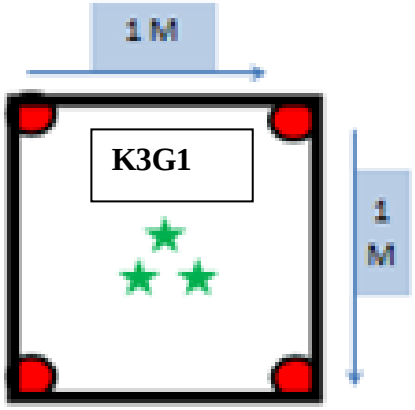
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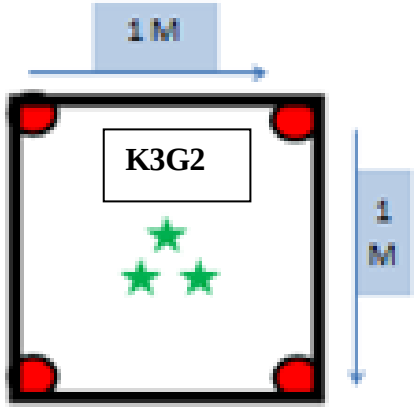
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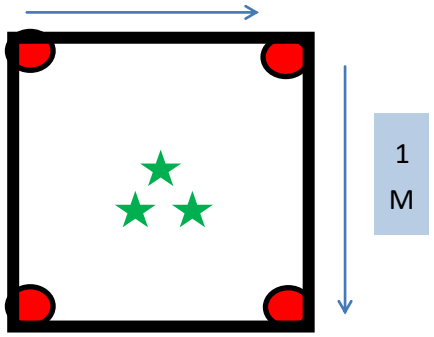


Ket:

= Sampel gulma sasaran

= Patok kayu 50 cm

= Petak sampel (1x1)

= Talirafia 1x1 m

Bahan Herbisida yang digunakan

1. Roll Up 480 SL

	-Merk dagang : Roll Up 480 SL - Bahan aktif : Isopropilamina glifosat 356 g/l - Isi bersih : 20 Liter - Formulasi : Soluble Liquid (SL) Pekatan cair - Cara kerja : sistemik

Gambar 1. Herbisida Roll Up 480 SL Bahan Aktif Glifosat

setiap 1 cc herbisida mengandung 0,356 g glifosat dihitung dari rumus $Bahan\ Aktif \times \frac{1}{1000} = 356 \times \frac{1}{1000}$ = 0,356 g. Maka dilakukan perhitungan dengan dosis yang akan digunakan maka didapatkan = Bahan Aktif × Konsentrasi Herbisida/Dosis Herbisida = 0,356 x 80 cc Roll up = 28,48 g glifosat, 0.356 x 50 cc Roll up = 17,8 g glifosat, dan 0,356 x 25 cc Roll up = 8,9 g glifosat.

2. Garam Krosok

	- Bahan aktif : NaCl - Formulasi : Butiran - Sifat : Higroskopis

Gambar 2. Garam Krosok

Alang – alang *(Imperata cylindrica)*

Gambar 3. Imperata cylindrica

1. Imperata cylindrica

a. Identifikasi

Nama Ilmiah : *Imperata cylindrica*

Nama Lokal : Alang – alang

b. Klasifikasi

Kingdom	: Plantae
Divisi	: Spermatophyta
Sub divisi	: Angiospermae
Kelas	: Monocotyledonae
Family	: Graminieae
Genus	: Imperata
Spesies	: Imperata Cylindrica L.

Lampiran 2. Hasil analisis pada 1 (satu) minggu setelah aplikasi (msa)

Tests of Between-Subjects Effects

Dependent Variable: KxG

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	668.519[a]	8	83,565	8,205	,000
Intercept	31348,148	1	31348,148	3077,818	,000
K	312,963	2	156,481	15,364	,000
G	118,519	2	59,259	5,818	,011
K * G	237,037	4	59,259	5,818	,003
Error	183,333	18	10,185		
Total	32200,000	27			
Corrected Total	851,852	26			

a. R Squared = ,785 (Adjusted R Squared = ,689)

RESPON KXG

Duncan

KxG	N	Subset for alpha = 0.05			
		1	2	3	4
K2G1	3	28,33 d			
K3G0	3	28,33 d			
K3G1	3	28,33 d			
K2G2	3	31,67 cd	31,67 cd		
K2G0	3		35,00 bc	35,00 bc	
K1G1	3		36,67 bc	36,67 bc	
K1G2	3		36,67 bc	36,67 bc	
K3G2	3			38,33 ab	38,33 ab
K1G0	3				43,33 a
Sig.		,255	,094	,255	,071

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 3. Hasil analisis pada 2 (dua) minggu setelah aplikasi (msa)

Tests of Between-Subjects Effects

Dependent Variable: KxG

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1000.000[a]	8	125,000	22,500	,000
Intercept	63075,000	1	63075,000	11353,500	,000
K	616,667	2	308,333	55,500	,000
G	272,222	2	136,111	24,500	,000
K * G	111,111	4	27,778	5,000	,007
Error	100,000	18	5,556		
Total	64175,000	27			
Corrected Total	1100,000	26			

a. R Squared = ,909 (Adjusted R Squared = ,869)

RESPON KXG

Duncan

KxG	N	Subset for alpha = 0.05				
		1	2	3	4	5
K3G0	3	40,00 e				
K3G1	3	40,00 e				
K2G1	3	43,33 de	43,33 de			
K3G2	3		46,67 cd	46,67 cd		
K1G1	3			48,33 c		
K2G2	3			50,00 bc	50,00 bc	
K2G0	3				53,33 ab	53,33 ab
K1GO	3					56,67 a
K1G2	3					56,67 a
Sig.		,117	,100	,117	,100	,117

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 4. Hasil analisis pada 3 (tiga) minggu setelah aplikasi (msa)

Tests of Between-Subjects Effects

Dependent Variable: KXG

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	568.519[a]	8	71,065	38,375	,000
Intercept	78948,148	1	78948,148	42632,000	,000
K	362,963	2	181,481	98,000	,000
G	90,741	2	45,370	24,500	,000
K * G	114,815	4	28,704	15,500	,000
Error	33,333	18	1,852		
Total	79550,000	27			
Corrected Total	601,852	26			

a. R Squared = .945 (Adjusted R Squared = .920)

RESPON KXG

Duncan

KXG	N	Subset for alpha = 0.05	
		1	2
K2G1	3	50,00 b	
K2G2	3	50,00 b	
K3G0	3	50,00 b	
K3G1	3	50,00 b	
K3G2	3	50,00 b	
K1G1	3		58,33 a
K1G2	3		58,33 a
K1G0	3		60,00 a
K2G0	3		60,00 a
Sig.		1,000	,185

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 5. Hasil analisis pada 4 (empat) minggu setelah aplikasi (msa)

Tests of Between-Subjects Effects

Dependent Variable: KXG

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	557.407[a]	8	69,676	75,250	,000
Intercept	81125,926	1	81125,926	87616,000	,000
K	401,852	2	200,926	217,000	,000
G	51,852	2	25,926	28,000	,000
K * G	103,704	4	25,926	28,000	,000
Error	16,667	18	,926		
Total	81700,000	27			
Corrected Total	574,074	26			

a. R Squared = .971 (Adjusted R Squared = .958)

RESPON KXG

Duncan

KXG	N	Subset for alpha = 0.05		
		1	2	3
K2G1	3	50,00 c		
K3G0	3	50,00 c		
K3G1	3	50,00 c		
K3G2	3	50,00 c		
K2G2	3		55,00 b	
K1G2	3			58,33 a
K1G0	3			60,00 a
K1G1	3			60,00 a
K2G0	3			60,00 a
Sig.		1,000	1,000	,066

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 6. Hasil analisis pada 5 (lima) minggu setelah aplikasi (msa)

Tests of Between-Subjects Effects

Dependent Variable: KXG

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	583.333[a]	8	72,917	39,375	,000
Intercept	83333,333	1	83333,333	45000,000	,000
G	66,667	2	33,333	18,000	,000
K	372,222	2	186,111	100,500	,000
G * K	144,444	4	36,111	19,500	,000
Error	33,333	18	1,852		
Total	83950,000	27			
Corrected Total	616,667	26			

a. R Squared = .946 (Adjusted R Squared = .922)

RESPON KXG

Duncan

KXG	N	Subset for alpha = 0.05	
		1	2
K2G1	3	50,00 b	
K3G0	3	50,00 b	
K3G1	3	50,00 b	
K3G2	3	51,67 b	
K1G2	3		58,33 a
K1G0	3		60,00 a
K1G1	3		60,00 a
K2G0	3		60,00 a
K2G2	3		60,00 a
Sig.		,185	,193

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 7. Hasil analisis pada 6 (enam) minggu setelah aplikasi (msa)

Tests of Between-Subjects Effects

Dependent Variable: KXG

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	466.667[a]	8	58,333	21,000	,000
Intercept	85008,333	1	85008,333	30603,000	,000
K	350,000	2	175,000	63,000	,000
G	38,889	2	19,444	7,000	,006
K * G	77,778	4	19,444	7,000	,001
Error	50,000	18	2,778		
Total	85525,000	27			
Corrected Total	516,667	26			

a. R Squared = .903 (Adjusted R Squared = .860)

RESPON KXG

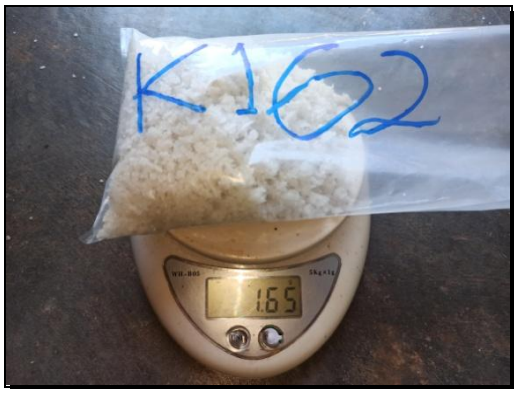
Duncan

KXG	N	Subset for alpha = 0.05		
		1	2	3
K3G0	3	50,00 c		
K3G1	3	50,00 c		
K2G1	3		53,33 b	
K3G2	3		53,33 b	
K1G2	3			58,33 a
K1G0	3			60,00 a
K1G1	3			60,00 a
K2G0	3			60,00 a
K2G2	3			60,00 a
Sig.		1,000	1,000	,284

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 8. Persiapan Bahan Garam Krosok



Lampiran 9. Persiapan Bahan Herbisida Glifosat

Lampiran 10. Pembuatan Larutan Herbisida Glifosat Dan Garam

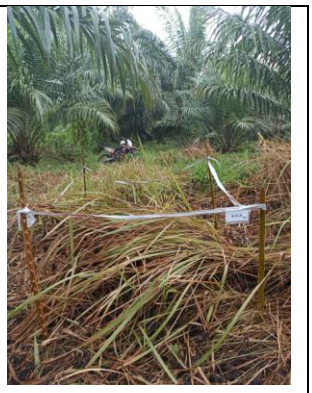
Lampiran 11. Pembuatan Petak Sampel 1 x 1 Meter






Lampiran 12. Aplikasi Racun Ke Petak Sampel

Lampiran 13. Pengamatan Keracunan Gulma 1 MSA

		
K1G0	K1G1	K1G2
		
K2G0	K2G1	K2G2
		
K3G0	K3G1	K3G2

Lampiran 14. Pengamatan Keracunan Gulma 2 MSA

		
K1G0	K1G1	K1G2
		
K2G0	K2G1	K2G2
		
K3G0	K3G1	K3G2

Lampiran 15. Pengamatan Keracunan Gulma 3 MSA

		
K1G0	K1G1	K1G2
		
K2G0	K2G1	K2G2
		
K3G0	K3G1	K3G2

Lampiran 16. Pengamatan Keracunan Gulma 4 MSA

		
K1G0	K1G1	K1G2
		
K2G0	K2G1	K2G2
		
K3G0	K3G1	K3G2

Lampiran 17. Pengamatan Keracunan Gulma 5 MSA

		
K1G0	K1G1	K1G2
		
K2G0	K2G1	K2G2
		
K3G0	K3G1	K3G2

Lampiran 18. Pengamatan Keracunan Gulma 6 MSA

		
K1G0	K1G1	K1G2
		
K2G0	K2G1	K2G2
		
K3G0	K3G1	K3G2