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LAMPIRAN



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Tabel Lampiran 1. Deskripsi kentang varietas granola

Asal	: Inroduksi dari Jerman Barat
Klon	: Granola
Umur tanaman	: 100-115 hari
Bentuk penampang batang	: Segi lima
Bentuk daun	: Oval
Warna umbi	: Kuning
Sayap batang	: Rata
Permukaan bawah daun	: Berkerut
Mata umbi	: Dangkal
Permukaan umbi	: Halus
Warna batang	: Hijau
Warna daun	: Hijau
Warna urat utama daun	: Hijau muda
Warna benang sari	: Kuning, 5 buah
Tinggi tanaman	: 60 – 70 cm (65 cm)
Warna putik	: Putih
Warna kulit umbi	: Kuning putih
Warna daging umbi	: Kuning
Jumlah tandan bunga	: 2 – 5 buah
Hasil rata-rata ha ⁻¹	: 26,5 ton
Kualitas umbi	: Baik
Kandungan karbohidrat	: ±12%
Kandungan vitamin c	: ±13 mg 100 g ⁻¹ bahan
Ketahanan terhadap penyakit	: Tahan terhadap PVA, agak peka terhadap PLRV, agak peka terhadap penyakit layu bakteri (<i>Pseudomonos solanacearum</i>) dan penyakit busuk daun (<i>Phytophthora infestans</i>)
Keterangan pemulia	: Baik untuk sayur sayuran : Nafizah umar, Hamsah basah, sudjoko sahat, Dadan supardah D.J, Rusamana agus senjaya.

Sumber: Balitbantan 2021



Tabel Lampiran 2. Hasil analisis tanah sebelum dan setelah penelitian

Parameter tanah	Sebelum penelitian	Setelah penelitian	Satuan
Pasir	16	31	%
Debu	26	46	%
Liat	58	24	%
Klas tekstur	Liat	Lempung	-
pH (H ₂ O)	6.58	7.02	-
pH (KCl)	-	-	-
C (Walkey & Black)	2.58	3.12	%
N (Kjeldahl)	0.19	0.22	%
C/N	13	14	-
P ₂ O ₅ (Olsen)	12.11	22.15	ppm
K (NH ₄ -Acetat 1N, pH7)	0.23	0.25	cmol kg ⁻¹
Ca (NH ₄ -Acetat 1N, pH7)	8.35	12.55	cmol kg ⁻¹
Mg (NH ₄ -Acetat 1N, pH7)	1.18	1.25	cmol kg ⁻¹
Na (NH ₄ -Acetat 1N, pH7)	0.48	0.51	cmol kg ⁻¹
Jumlah	10	15	cmol kg ⁻¹
KTK (NH ₄ -Acetat 1N, pH7)	26.74	24.15	cmol kg ⁻¹
KB (NH ₄ -Acetat 1N, pH7)	38	60	%
Silika	-	1.441	Si

Sumber : Laboratorium kimia dan kesuburan tanah, departemen ilmu tanah, fakultas pertanian, universitas hasanuddin, makassar.



Tabel Lampiran 3. Hasil analisis pupuk biocam

Parameter	Hasil	Satuan
C Organik	6,84	%
pH	7,80	%
Hara makro:		
N	4,82	%
P ₂ O ₅	4,36	%
K ₂ O	4,29	%
Mikroba kontaminan		
E. coli	negatif	cfu ml ⁻¹
Salmonelia sp	negatif	cfu ml ⁻¹
Hara mikro:		
Fe total	791,50	ppm
Fe tersedia	30,83	ppm
Mn	301,50	ppm
Cu	295,90	ppm
Zn	369,20	ppm
B	152,50	ppm
Co	7,05	ppm
Mo	4,10	ppm

Sumber : Pupuk biocam

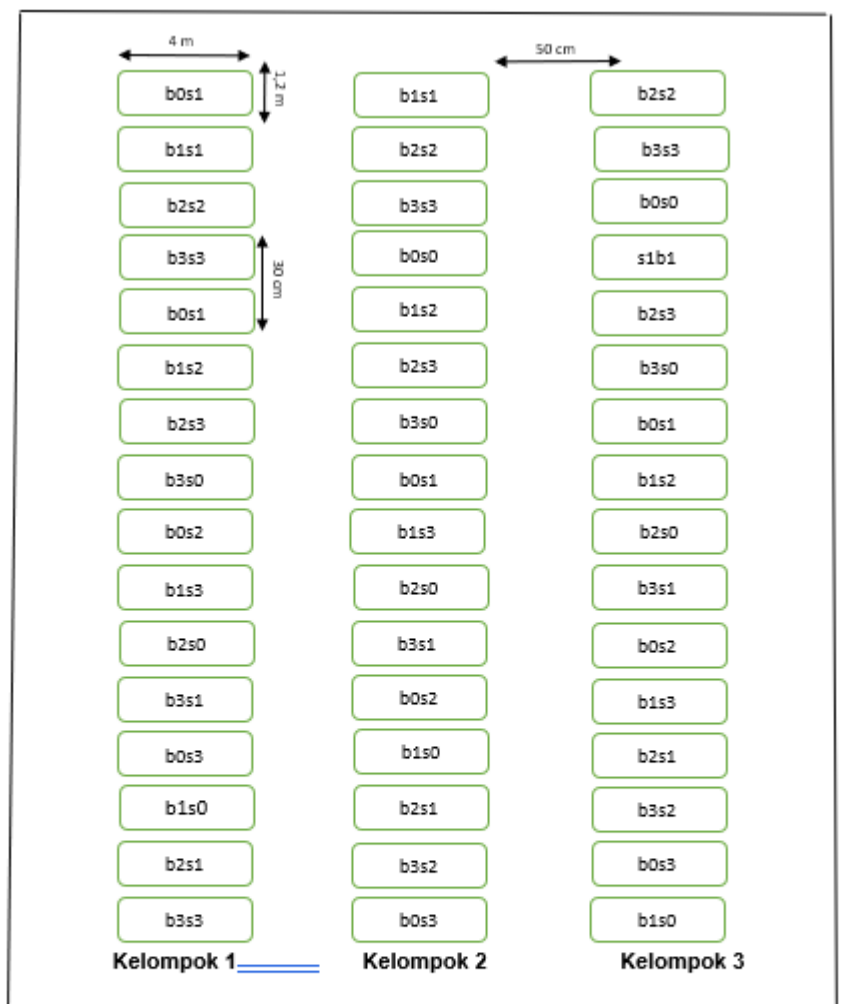


Tabel Lampiran 4. Hasil analisis pupuk silika

Parameter	Hasil	Satuan
Kadar air	11,07	%
C organik	1,13	%
N total	0,06	%
C/N rasio	20,25	-
P ₂ O ₅	0,21	%
K ₂ O	0,04	%
Ca	1,05	%
Mg	4,35	%
Mn	92,36	ppm
Zn	16,55	ppm
B	28,07	ppm

Sumber: Laboratorium kimia badan penelitian dan pengembangan pertanian, laboratorium penguji balai pengkajian teknologi pertanian jawa tengah : laboratorium kimia makanan ternak, jurusan nutrisi dan makanan ternak, fakultas peternakan, universitas hasanuddin, makassar.

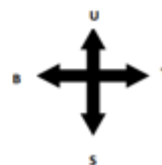


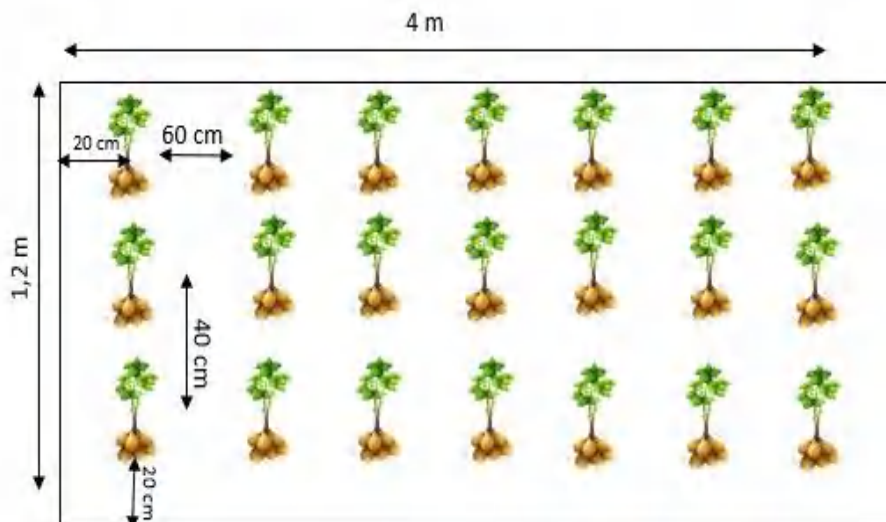


Gambar Lampiran 1. Denah penelitian di lapangan

Keterangan:

- Luas bedengan : 1,2 m x 4 m
- Jarak antar bedengan : 30 cm
- Jarak antar kelompok : 50 cm
- Tinggi bedengan : 30 cm





Gambar Lampiran 2. Tata letak tanaman dalam bedengan.

Keterangan :

Luas bedengan = $1,2 \text{ m} \times 4 \text{ m}$

Jarak tanam = $60 \text{ cm} \times 40 \text{ cm}$

Jumlah populasi = 21 tanaman per bedengan.



Tabel Lampiran 5. Data suhu tanah dan kelembaban udara lokasi penelitian

Bulan	Suhu tanah	Kelembaban udara
April	18,78 °C	72,77%
Mei	18,05°C	78,45%
Juni	16,25 °C	82,02%
Juli	17,75 °C	74,05%
Awal Agustus	20,15 °C	80,25%

Sumber: Data primer, 2023.



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Tabel Lampiran 6.a Rata-rata tinggi tanaman (cm)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	30.00	44.30	56.20	130.50	43.50
b0s1	58.00	56.20	59.40	173.60	57.87
b0s2	60.60	56.20	61.00	177.80	59.27
b0s3	59.60	60.20	65.00	184.80	61.60
b1s0	51.00	50.20	45.90	147.10	49.03
b1s1	51.60	60.30	40.00	151.90	50.63
b1s2	62.40	61.00	59.20	182.60	60.87
b1s3	59.60	51.20	65.00	175.80	58.60
b2s0	44.30	55.20	60.00	159.50	53.17
b2s1	52.00	61.20	52.40	165.60	55.20
b2s2	58.40	61.20	60.00	179.60	59.87
b2s3	62.00	59.60	60.40	182.00	60.67
b3s0	59.00	61.00	58.20	178.20	59.40
b3s1	62.00	58.80	62.40	183.20	61.07
b3s2	64.00	58.20	62.40	184.60	61.53
b3s3	63.20	65.20	56.40	184.80	61.60
Total	897.70	920.00	923.90	2741.60	57.12

Tabel Lampiran 6.b Sidik ragam rata-rata tinggi tanaman (cm)

Sumber Keragaman	DB	JK	KT	F.Hit	F Tabel	
					0.05	0.01
Kelompok	2	24.98	12.49	0.40 ^{tn}	3.32	5.39
Perlakuan	15	1302.60	86.84	2.76 ^{**}	2.01	2.70
b	3	266.38	88.79	2.82 ^{tn}	2.92	4.51
s	3	694.82	231.61	7.37 ^{**}	2.92	4.51
b x s	9	341.40	37.93	1.21 ^{tn}	2.21	3.07
Galat	30	943.33	31.44			
Total	47	2270.91				
KK	9.82%					

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 7.a Rata-rata jumlah daun per tanaman (helai)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	135.60	220.27	198.12	553.99	184.66
b0s1	150.12	191.00	223.40	564.52	188.17
b0s2	162.40	225.25	210.00	597.65	199.22
b0s3	209.20	156.20	200.60	566.00	188.67
b1s0	184.60	198.20	208.60	591.40	197.13
b1s1	136.20	250.20	321.40	707.80	235.93
b1s2	175.80	182.20	209.80	567.80	189.27
b1s3	206.80	235.00	224.40	666.20	222.07
b2s0	158.12	172.25	228.00	558.37	186.12
b2s1	200.00	235.16	202.40	637.56	212.52
b2s2	225.60	268.60	233.00	727.20	242.40
b2s3	199.40	215.00	216.80	631.20	210.40
b3s0	165.80	231.12	270.80	667.72	222.57
b3s1	170.80	255.00	278.00	703.80	234.60
b3s2	189.40	235.20	260.40	685.00	228.33
b3s3	211.00	271.00	285.80	767.80	255.93
Total	2880.84	3541.65	3771.52	10194.01	212.38

Tabel Lampiran 7.b Sidik ragam jumlah daun per tanaman (helai)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	26725.44	13362.72	16.12**	3.32	5.39
Perlakuan	15	23545.91	1569.73	1.89 ^{tn}	2.01	2.70
b	3	12273.48	4091.16	4.94**	2.92	4.51
s	3	3606.13	1202.04	1.45 ^{tn}	2.92	4.51
b x s	9	7666.30	851.81	1.03 ^{tn}	2.21	3.07
Galat	30	24862.16	828.74			
Total	47	75133.50				

KK 13.56%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 8.a Rata-rata jumlah daun per tangkai (helai)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	27.00	27.40	28.40	82.80	27.60
b0s1	37.00	28.00	28.40	93.40	31.13
b0s2	26.00	30.60	25.40	82.00	27.33
b0s3	26.80	43.80	23.00	93.60	31.20
b1s0	29.40	30.00	31.40	90.80	30.27
b1s1	31.80	34.80	26.60	93.20	31.07
b1s2	28.00	36.80	33.20	98.00	32.67
b1s3	31.80	31.60	37.60	101.00	33.67
b2s0	29.80	28.80	29.40	88.00	29.33
b2s1	30.80	38.00	30.00	98.80	32.93
b2s2	28.60	30.00	33.20	91.80	30.60
b2s3	28.40	30.00	28.80	87.20	29.07
b3s0	28.80	30.40	30.60	89.80	29.93
b3s1	25.60	34.80	35.20	95.60	31.87
b3s2	25.00	32.40	32.40	89.80	29.93
b3s3	29.80	40.80	30.00	100.60	33.53
Total	464.60	528.20	483.60	1476.40	30.76

Tabel Lampiran 8.b Sidik ragam jumlah daun per tangkai (helai)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	133.23	66.62	3.93*	3.32	5.39
Perlakuan	15	163.25	10.88	0.64 ^{tn}	2.01	2.70
b	3	45.69	15.23	0.90 ^{tn}	2.92	4.51
s	3	57.34	19.11	1.13 ^{tn}	2.92	4.51
b x s	9	60.22	6.69	0.39 ^{tn}	2.21	3.07
Galat	30	508.48	16.95			
Total	47	804.96				
KK		13.38%				

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 9.a Rata-rata diameter batang (mm)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	9.30	9.00	12.92	31.22	10.41
b0s1	11.80	10.26	11.12	33.18	11.06
b0s2	11.34	13.26	11.42	36.02	12.01
b0s3	12.23	13.96	12.89	39.08	13.03
b1s0	10.78	13.38	12.26	36.42	12.14
b1s1	12.28	12.45	10.00	34.73	11.58
b1s2	13.42	10.96	13.46	37.84	12.61
b1s3	11.94	10.14	13.06	35.14	11.71
b2s0	10.58	9.70	13.54	33.82	11.27
b2s1	11.08	12.58	12.96	36.62	12.21
b2s2	14.48	12.40	9.24	36.12	12.04
b2s3	12.96	13.52	16.02	42.50	14.17
b3s0	12.94	12.24	12.58	37.76	12.59
b3s1	15.09	12.02	11.26	38.37	12.79
b3s2	14.52	12.94	13.94	41.40	13.80
b3s3	14.00	13.16	16.36	43.52	14.51
Total	198.74	191.97	203.03	593.74	12.37

Tabel Lampiran 9.b Sidik ragam diameter batang (mm)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	3.89	1.94	0.82 ^{tn}	3.32	5.39
Perlakuan	15	56.12	3.74	1.58 ^{tn}	2.01	2.70
b	3	21.49	7.16	3.03 [*]	2.92	4.51
s	3	21.97	7.32	3.10 [*]	2.92	4.51
b x s	9	12.66	1.41	0.60 ^{tn}	2.21	3.07
Galat	30	70.85	2.36			
Total	47	130.86				

KK 12.42%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 10.a indeks klorofil

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	24.00	25.30	22.50	71.80	23.93
b0s1	33.60	18.30	20.20	72.10	24.03
b0s2	21.50	22.80	19.30	63.60	21.20
b0s3	24.60	24.00	19.00	67.60	22.53
b1s0	22.30	19.40	18.20	59.90	19.97
b1s1	36.50	19.00	24.70	80.20	26.73
b1s2	23.70	21.30	24.40	69.40	23.13
b1s3	24.80	25.80	22.00	72.60	24.20
b2s0	25.00	34.20	35.60	94.80	31.60
b2s1	24.50	25.60	20.00	70.10	23.37
b2s2	27.90	28.80	33.40	90.10	30.03
b2s3	21.60	29.70	21.40	72.70	24.23
b3s0	35.20	33.60	24.30	93.10	31.03
b3s1	21.10	19.80	22.60	63.50	21.17
b3s2	25.00	27.40	18.00	70.40	23.47
b3s3	21.00	21.10	22.10	64.20	21.40
Total	412.30	396.10	367.70	1176.10	24.50

Tabel Lampiran 10.b Sidik ragam indeks klorofil

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	63.71	31.86	1.73 ^{tn}	3.32	5.39
Perlakuan	15	568.95	37.93	2.06 [*]	2.01	2.70
b	3	136.86	45.62	2.47 ^{tn}	2.92	4.51
s	3	83.90	27.97	1.52 ^{tn}	2.92	4.51
b x s	9	348.19	38.69	2.10 ^{tn}	2.21	3.07
Galat	30	553.57	18.45			
Total	47	1186.23				
KK		17.53%				

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 11.a Rata-rata luas bukaan stomata (mm²)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	11.48	11.72	10.63	33.84	11.28
b0s1	11.69	8.26	6.26	26.22	8.74
b0s2	8.41	9.08	12.53	30.01	10.00
b0s3	7.97	9.58	8.50	26.06	8.69
b1s0	7.97	13.67	8.41	30.05	10.02
b1s1	9.71	8.86	6.26	24.83	8.28
b1s2	8.86	10.78	9.21	28.85	9.62
b1s3	11.21	10.85	10.67	32.73	10.91
b2s0	7.67	10.78	12.62	31.08	10.36
b2s1	9.04	8.50	7.09	24.62	8.21
b2s2	9.21	8.68	9.04	26.92	8.97
b2s3	10.10	11.89	9.50	31.49	10.50
b3s0	11.21	8.12	11.48	30.81	10.27
b3s1	8.86	9.54	12.84	31.24	10.41
b3s2	11.89	10.10	9.91	31.89	10.63
b3s3	11.48	9.91	10.29	31.68	10.56
Total	156.75	160.32	155.24	472.32	9.84

Tabel Lampiran 11.b Sidik ragam luas bukaan stomata (mm²)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	0.85	0.42	0.14 ^{tn}	3.32	5.39
Perlakuan	15	42.26	2.82	0.92 ^{tn}	2.01	2.70
b	3	6.61	2.20	0.72 ^{tn}	2.92	4.51
s	3	16.59	5.53	1.80 ^{tn}	2.92	4.51
b x s	9	19.07	2.12	0.69 ^{tn}	2.21	3.07
Galat	30	92.29	3.08			
Total	47	135.40				

KK 17.82%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 12.a Rata-rata komponen stomata daun (mm²)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	6.38	5.97	4.51	16.87	5.62
b0s1	5.53	4.51	4.51	14.56	4.85
b0s2	5.53	5.97	5.05	16.55	5.52
b0s3	6.38	5.05	4.51	15.95	5.32
b1s0	4.51	4.51	5.53	14.56	4.85
b1s1	5.97	4.51	5.05	15.53	5.18
b1s2	6.38	3.91	4.51	14.81	4.94
b1s3	5.97	6.38	3.91	16.27	5.42
b2s0	6.38	4.51	4.51	15.41	5.14
b2s1	4.51	4.51	5.97	15.00	5.00
b2s2	3.91	4.51	4.51	12.94	4.31
b2s3	5.05	4.51	5.53	15.09	5.03
b3s0	4.51	5.05	4.51	14.08	4.69
b3s1	5.97	5.53	5.05	16.55	5.52
b3s2	6.38	4.51	4.51	15.41	5.14
b3s3	4.51	5.53	5.05	15.09	5.03
Total	87.92	79.51	77.25	244.67	5.10

Tabel Lampiran 12.b Sidik ragam komponen stomata daun (mm²)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	3.95	1.97	3.38*	3.32	5.39
Perlakuan	15	5.20	0.35	0.59 ^{tn}	2.01	2.70
b	3	1.25	0.42	0.71 ^{tn}	2.92	4.51
s	3	0.33	0.11	0.19 ^{tn}	2.92	4.51
b x s	9	3.63	0.40	0.69 ^{tn}	2.21	3.07
Galat	30	17.54	0.58			
Total	47	26.70				
KK	15.00%					

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 13.a Rata-rata panjang umbi (cm)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	5.32	5.31	5.78	16.41	5.47
b0s1	5.52	5.60	6.20	17.32	5.77
b0s2	4.94	6.23	5.46	16.63	5.54
b0s3	6.86	7.23	5.93	20.02	6.67
b1s0	5.56	5.87	6.28	17.71	5.90
b1s1	7.34	6.83	6.00	20.17	6.72
b1s2	6.55	6.22	6.01	18.78	6.26
b1s3	6.26	5.79	5.90	17.95	5.98
b2s0	5.65	5.82	6.03	17.50	5.83
b2s1	5.29	5.90	5.78	16.97	5.66
b2s2	5.73	6.23	6.05	18.01	6.00
b2s3	5.21	6.71	6.04	17.96	5.99
b3s0	6.68	5.50	5.85	18.03	6.01
b3s1	5.89	6.37	5.72	17.98	5.99
b3s2	5.65	5.44	5.16	16.25	5.42
b3s3	5.46	6.18	5.91	17.55	5.85
Total	93.91	97.23	94.10	285.24	5.94

Tabel Lampiran 13.b Sidik ragam panjang umbi (cm)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	0.43	0.22	1.08 ^{tn}	3.32	5.39
Perlakuan	15	6.15	0.41	2.03 [*]	2.01	2.70
b	3	1.23	0.41	2.03 ^{tn}	2.92	4.51
s	3	0.95	0.32	1.57 ^{tn}	2.92	4.51
b x s	9	3.97	0.44	2.18 ^{tn}	2.21	3.07
Galat	30	6.06	0.20			
Total	47	135.40				

KK 7.56%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 14.a Rata-rata jumlah umbi

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	6.40	7.40	5.60	19.40	6.47
b0s1	5.40	5.40	6.80	17.60	5.87
b0s2	8.00	5.80	6.40	20.20	6.73
b0s3	9.00	8.40	6.20	23.60	7.87
b1s0	7.40	7.00	6.20	20.60	6.87
b1s1	5.20	10.20	8.20	23.60	7.87
b1s2	6.80	5.80	8.20	20.80	6.93
b1s3	7.80	10.80	6.80	25.40	8.47
b2s0	6.40	5.60	6.40	18.40	6.13
b2s1	7.80	8.60	7.20	23.60	7.87
b2s2	9.60	8.60	8.40	26.60	8.87
b2s3	7.20	5.60	9.80	22.60	7.53
b3s0	7.20	6.20	7.40	20.80	6.93
b3s1	7.80	12.40	10.80	31.00	10.33
b3s2	7.60	7.40	9.40	24.40	8.13
b3s3	7.60	12.40	7.60	27.60	9.20
Total	117.20	127.60	121.40	366.20	7.63

Tabel Lampiran 14.b Sidik ragam jumlah umbi

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	3.42	1.71	0.71 ^{tn}	3.32	5.39
Perlakuan	15	64.48	4.30	1.79 ^{tn}	2.01	2.70
b	3	22.26	7.42	3.08 [*]	2.92	4.51
s	3	19.11	6.37	2.65 ^{tn}	2.92	4.51
b x s	9	23.11	2.57	1.07 ^{tn}	2.21	3.07
Galat	30	72.18	2.41			
Total	47	140.08				

KK 20.33%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 15.a Rata-rata diameter umbi (mm)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	39.29	34.07	28.98	102.34	34.11
b0s1	40.56	32.15	40.00	112.71	37.57
b0s2	37.54	42.74	35.94	116.22	38.74
b0s3	38.94	40.00	35.60	114.54	38.18
b1s0	42.83	36.51	37.99	117.33	39.11
b1s1	50.00	42.24	38.08	130.32	43.44
b1s2	43.21	41.38	44.02	128.61	42.87
b1s3	50.03	39.89	45.72	135.64	45.21
b2s0	40.92	50.02	40.51	131.45	43.82
b2s1	49.36	40.34	43.49	133.19	44.40
b2s2	50.00	42.00	38.16	130.16	43.39
b2s3	50.46	40.35	42.58	133.39	44.46
b3s0	40.00	39.98	50.64	130.62	43.54
b3s1	40.28	42.16	41.80	124.24	41.41
b3s2	55.98	51.45	40.12	147.55	49.18
b3s3	60.00	43.92	57.01	160.93	53.64
Total	729.40	659.20	660.64	2049.24	42.69

Tabel Lampiran 15.b Sidik ragam diameter umbi (mm)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	201.21	100.60	4.51*	3.32	5.39
Perlakuan	15	983.39	65.56	2.94**	2.01	2.70
b	3	606.55	202.18	9.07**	2.92	4.51
s	3	184.65	61.55	2.76 ^{tn}	2.92	4.51
b x s	9	192.19	21.35	0.96 ^{tn}	2.21	3.07
Galat	30	668.99	22.20			
Total	47	1853.59				

KK 20.33%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 16.a Rata-rata bobot umbi per tanaman (g)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	43.21	58.01	49.08	150.30	50.10
b0s1	56.69	56.01	34.76	147.46	49.15
b0s2	47.50	73.48	63.73	184.71	61.57
b0s3	73.01	99.62	74.07	246.70	82.23
b1s0	71.66	67.46	67.95	207.07	69.02
b1s1	97.47	82.88	22.06	202.41	67.47
b1s2	88.00	28.81	90.32	207.13	69.04
b1s3	82.36	70.56	81.49	234.41	78.14
b2s0	60.34	50.90	71.25	182.49	60.83
b2s1	67.76	38.03	61.81	167.60	55.87
b2s2	90.10	71.82	67.45	229.37	76.46
b2s3	70.24	63.96	71.49	205.69	68.56
b3s0	52.98	56.36	58.81	168.15	56.05
b3s1	91.10	63.09	61.97	216.16	72.05
b3s2	60.25	71.38	71.15	202.78	67.59
b3s3	97.25	91.83	91.99	281.07	93.69
Total	1149.92	1044.20	1039.38	3233.50	67.36

Tabel Lampiran 16.b Sidik ragam bobot umbi per tanaman (g)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	487.90	243.95	0.90 ^{tn}	3.32	5.39
Perlakuan	15	6324.24	421.62	1.55 ^{tn}	2.01	2.70
b	3	1017.14	339.05	1.25 ^{tn}	2.92	4.51
s	3	3445.20	1148.40	4.23 [*]	2.92	4.51
b x s	9	1861.90	206.88	0.76 ^{tn}	2.21	3.07
Galat	30	8145.53	271.52			
Total	47	14957.67				

KK 24.46%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 17.a Rata-rata produksi umbi per petak (kg)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	4.62	3.62	3.87	12.11	4.04
b0s1	5.27	4.55	3.58	13.40	4.47
b0s2	4.69	3.86	3.08	11.63	3.88
b0s3	2.93	3.08	5.16	11.17	3.72
b1s0	2.93	3.08	5.16	11.17	3.72
b1s1	4.68	4.66	4.47	13.81	4.60
b1s2	3.94	4.28	4.14	12.36	4.12
b1s3	5.57	5.01	5.58	16.16	5.39
b2s0	4.66	4.71	3.02	12.39	4.13
b2s1	3.25	4.23	5.78	13.26	4.42
b2s2	5.25	5.32	5.36	15.93	5.31
b2s3	5.20	4.00	2.93	12.13	4.04
b3s0	5.16	4.66	5.00	14.82	4.94
b3s1	4.55	5.89	6.06	16.50	5.50
b3s2	5.00	6.06	5.74	16.80	5.60
b3s3	5.27	6.06	5.58	16.91	5.64
Total	72.97	73.07	74.51	220.55	4.59

Tabel Lampiran 17.b Sidik ragam produksi umbi per petak (kg)

Sumber Keragaman	DB	JK	KT	F Hitung	F Tabel	
					0.05	0.01
Kelompok	2	0.09	0.05	0.07 ^{tn}	3.32	5.39
Perlakuan	15	21.94	1.46	2.22 [*]	2.01	2.70
b	3	12.43	4.14	6.28 ^{**}	2.92	4.51
s	3	2.42	0.81	1.22 ^{tn}	2.92	4.51
b x s	9	7.09	0.79	1.19 ^{tn}	2.21	3.07
Galat	30	19.79	0.66			
Total	47	41.82				

KK 17.68%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 18.a Rata-rata produksi umbi per hectare (t ha⁻¹)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	9.63	7.54	8.06	25.23	8.41
b0s1	10.98	9.48	7.46	27.92	9.31
b0s2	9.77	8.04	6.42	24.23	8.08
b0s3	6.10	6.42	10.75	23.27	7.76
b1s0	6.10	6.42	10.75	23.27	7.76
b1s1	9.75	9.71	9.31	28.77	9.59
b1s2	8.21	8.92	8.63	25.75	8.58
b1s3	11.60	10.44	11.63	33.67	11.22
b2s0	9.71	9.81	6.29	25.81	8.60
b2s1	6.77	8.81	12.04	27.63	9.21
b2s2	10.94	11.08	11.17	33.19	11.06
b2s3	10.83	8.33	6.10	25.27	8.42
b3s0	10.75	9.71	10.42	30.88	10.29
b3s1	9.48	12.27	12.63	34.38	11.46
b3s2	10.42	12.63	11.96	35.00	11.67
b3s3	10.98	12.63	11.63	35.23	11.74
Total	152.02	152.23	155.23	459.48	9.57

Tabel Lampiran 18.b Sidik ragam produksi umbi per hectare (t ha⁻¹)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	0.40	0.20	0.07 ^{tn}	3.32	5.39
Perlakuan	15	95.21	6.35	2.22 [*]	2.01	2.70
b	3	53.96	17.99	6.28 ^{**}	2.92	4.51
s	3	10.48	3.49	1.22 ^{tn}	2.92	4.51
b x s	9	30.76	3.42	1.19 ^{tn}	2.21	3.07
Galat	30	85.91	2.86			
Total	47	181.51				

KK 17.68%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 19.a Rata-rata kadar air (%)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	40.20	45.30	40.20	125.70	41.90
b0s1	47.70	47.10	46.50	141.30	47.10
b0s2	48.00	43.80	51.90	143.70	47.90
b0s3	48.00	57.20	55.80	161.00	53.67
b1s0	38.60	39.00	41.00	118.60	39.53
b1s1	45.00	41.60	48.80	135.40	45.13
b1s2	49.20	47.30	54.60	151.10	50.37
b1s3	50.80	51.50	54.00	156.30	52.10
b2s0	41.60	41.80	42.20	125.60	41.87
b2s1	48.80	43.50	49.20	141.50	47.17
b2s2	51.60	47.30	50.80	149.70	49.90
b2s3	48.60	52.10	55.30	156.00	52.00
b3s0	42.50	45.60	47.10	135.20	45.07
b3s1	49.50	48.20	48.80	146.50	48.83
b3s2	54.40	49.60	51.40	155.40	51.80
b3s3	50.30	52.30	51.50	154.10	51.37
Total	754.80	753.20	789.10	2297.10	47.86

Tabel Lampiran 19.b Sidik ragam kadar air (%)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	51.41	25.71	4.03*	3.32	5.39
Perlakuan	15	795.36	53.02	8.32**	2.01	2.70
b	3	38.42	12.81	2.01 ^{tn}	2.92	4.51
s	3	696.31	232.10	36.42**	2.92	4.51
b x s	9	60.63	6.74	1.06 ^{tn}	2.21	3.07
Galat	30	191.21	6.37			
Total	47	1037.98				

KK 5.28%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 20.a Rata-rata grading xl (%)

Perlakuan	Ulangan			Total	Rata-rata
	I	II	III		
b0s0	51.61	50.00	50.00	151.61	50.54
b0s1	46.15	59.52	51.35	157.03	52.34
b0s2	46.00	69.05	43.90	158.95	52.98
b0s3	75.00	78.57	82.05	235.62	78.54
b1s0	71.88	62.16	60.71	194.75	64.92
b1s1	77.78	71.43	67.74	216.95	72.32
b1s2	65.79	58.62	56.25	180.66	60.22
b1s3	76.32	62.79	70.97	210.07	70.02
b2s0	62.50	48.57	74.19	185.26	61.75
b2s1	89.29	54.90	60.98	205.16	68.39
b2s2	63.41	55.17	72.97	191.56	63.85
b2s3	58.54	60.38	60.61	179.52	59.84
b3s0	56.76	56.25	56.76	169.76	56.59
b3s1	60.87	66.13	52.83	179.83	59.94
b3s2	60.87	63.41	53.33	177.62	59.21
b3s3	60.53	67.65	65.79	193.96	64.65
Total	1023.28	984.61	980.44	2988.33	62.26

Tabel Lampiran 20.b Sidik ragam grading xl (%)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	69.77	34.89	0.51 ^{tn}	3.32	5.39
Perlakuan	15	2574.97	171.66	2.52 [*]	2.01	2.70
b	3	488.97	162.99	2.40 ^{tn}	2.92	4.51
s	3	741.11	247.04	3.63 [*]	2.92	4.51
b x s	9	1344.90	149.43	2.20 ^{tn}	2.21	3.07
Galat	30	2040.36	68.01			
Total	47	4685.10				

KK 13.25%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 21.a Rata-rata grading I (%)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	12.90	14.29	9.38	36.56	12.19
b0s1	10.26	4.76	18.92	33.94	11.31
b0s2	2.00	7.14	14.63	23.78	7.93
b0s3	5.56	7.14	7.69	20.39	6.80
b1s0	6.25	0.00	10.71	16.96	5.65
b1s1	7.41	14.29	12.90	34.60	11.53
b1s2	13.16	6.90	15.63	35.68	11.89
b1s3	2.63	6.98	12.90	22.51	7.50
b2s0	3.13	5.71	6.45	15.29	5.10
b2s1	0.00	11.76	12.20	23.96	7.99
b2s2	4.88	24.14	10.81	39.83	13.28
b2s3	2.44	7.55	12.12	22.11	7.37
b3s0	8.11	6.25	5.41	19.76	6.59
b3s1	17.39	11.29	9.43	38.12	12.71
b3s2	2.17	14.63	8.89	25.70	8.57
b3s3	10.53	8.82	7.89	27.24	9.08
Total	108.80	151.65	175.97	436.43	9.09

Tabel Lampiran 21.b Sidik ragam grading I (%)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	144.55	72.27	3.12 ^{tn}	3.32	5.39
Perlakuan	15	319.61	21.31	0.92 ^{tn}	2.01	2.70
b	3	8.09	2.70	0.12 ^{tn}	2.92	4.51
s	3	118.30	39.43	1.70 ^{tn}	2.92	4.51
b x s	9	193.23	21.47	0.93 ^{tn}	2.21	3.07
Galat	30	694.63	23.15			
Total	47	1158.79				

KK 52.92%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 22.a Rata-rata grading m (%)

Perlakuan	Ulangan			Total	Rata-rata
	I	II	III		
b0s0	19.35	14.29	25.00	58.64	19.55
b0s1	17.95	16.67	16.22	50.83	16.94
b0s2	18.00	14.29	14.63	46.92	15.64
b0s3	11.11	0.00	5.13	16.24	5.41
b1s0	3.13	8.11	3.57	14.80	4.93
b1s1	11.11	3.57	6.45	21.13	7.04
b1s2	5.26	13.79	12.50	31.56	10.52
b1s3	5.26	9.30	9.68	24.24	8.08
b2s0	3.13	14.29	9.68	27.09	9.03
b2s1	10.71	9.80	12.20	32.71	10.90
b2s2	4.88	10.34	5.41	20.63	6.88
b2s3	12.20	16.98	12.12	41.30	13.77
b3s0	8.11	6.25	13.51	27.87	9.29
b3s1	2.17	9.68	13.21	25.06	8.35
b3s2	4.35	7.32	17.78	29.44	9.81
b3s3	13.16	14.71	13.16	41.02	13.67
Total	149.88	169.38	190.23	509.49	10.61

Tabel Lampiran 22.b Sidik ragam grading m (%)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	50.92	25.46	1.63 ^{tn}	3.32	5.39
Perlakuan	15	800.87	53.39	3.41 ^{**}	2.01	2.70
b	3	280.47	93.50	5.97 ^{**}	2.92	4.51
s	3	2.41	0.80	0.05 ^{**}	2.92	4.51
b x s	9	517.97	57.55	3.68 ^{tn}	2.21	3.07
Galat	30	469.45	15.65			
Total	47	1321.25				

KK 4.39%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 23.a Rata-rata indeks grading s (%)

Perlakuan	Ulangan			Total	Rata-rata
	I	II	III		
b0s0	12.90	17.86	15.63	46.39	15.46
b0s1	10.26	7.14	8.11	25.51	8.50
b0s2	16.00	9.52	14.63	40.16	13.39
b0s3	5.56	10.71	5.13	21.40	7.13
b1s0	12.50	24.32	14.29	51.11	17.04
b1s1	3.70	3.57	9.68	16.95	5.65
b1s2	10.53	10.34	15.63	36.50	12.17
b1s3	7.89	13.95	3.23	25.07	8.36
b2s0	18.75	22.86	9.68	51.28	17.09
b2s1	0.00	15.69	9.76	25.44	8.48
b2s2	7.32	3.45	10.81	21.58	7.19
b2s3	14.63	9.43	9.09	33.16	11.05
b3s0	10.81	18.75	13.51	43.07	14.36
b3s1	19.57	11.29	13.21	44.06	14.69
b3s2	17.39	9.76	13.33	40.48	13.49
b3s3	7.89	5.88	7.89	21.67	7.22
Total	175.70	194.54	173.59	543.83	11.33

Tabel Lampiran 23.b Sidik ragam grading s (%)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	16.62	8.31	0.42 ^{tn}	3.32	5.39
Perlakuan	15	665.39	44.36	2.26 [*]	2.01	2.70
b	3	20.35	6.78	0.35 ^{tn}	2.92	4.51
s	3	409.05	136.35	6.94 ^{**}	2.92	4.51
b x s	9	235.98	26.22	1.33 ^{tn}	2.21	3.07
Galat	30	589.68	19.66			
Total	47	1271.69				

KK 4.91%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata



Tabel Lampiran 24.a Rata-rata grading xs (%)

Perlakuan	Kelompok			Total	Rata-rata
	I	II	III		
b0s0	3.23	3.57	0.00	6.80	2.27
b0s1	15.38	11.90	5.41	32.69	10.90
b0s2	18.00	0.00	12.20	30.20	10.07
b0s3	2.78	3.57	0.00	6.35	2.12
b1s0	6.25	5.41	10.71	22.37	7.46
b1s1	0.00	7.14	3.23	10.37	3.46
b1s2	5.26	10.34	0.00	15.61	5.20
b1s3	7.89	6.98	3.23	18.10	6.03
b2s0	12.50	8.57	0.00	21.07	7.02
b2s1	0.00	7.84	4.88	12.72	4.24
b2s2	19.51	6.90	0.00	26.41	8.80
b2s3	12.20	5.66	6.06	23.92	7.97
b3s0	16.22	12.50	10.81	39.53	13.18
b3s1	0.00	1.61	11.32	12.93	4.31
b3s2	15.22	4.88	6.67	26.76	8.92
b3s3	7.89	2.94	5.26	16.10	5.37
Total	142.33	99.82	79.77	321.92	6.71

Tabel Lampiran 24.b Sidik ragam grading xs (%)

Sumber Keragaman	DB	JK	KT	F. Hit	F Tabel	
					0.05	0.01
Kelompok	2	127.58	63.79	2.68 ^{tn}	3.32	5.39
Perlakuan	15	449.84	29.99	1.26 ^{tn}	2.01	2.70
b	3	37.52	12.51	0.53 ^{tn}	2.92	4.51
s	3	68.60	22.87	0.96 ^{tn}	2.92	4.51
b x s	9	343.72	38.19	1.60 ^{tn}	2.21	3.07
Galat	30	714.33	23.81			
Total	47	1291.75				

KK 72.76%

Keterangan:

tn = tidak nyata

(*) = nyata

(**) = Sangat nyata





Gambar Lampiran 3. Tanaman kentang pada berbagai kombinasi perlakuan





b0s0

b0s1

b0s2

b0s3



b1s0

b1s1

b1s2

b1s3



b2s0

b2s1

b2s2

b2s3



b3s0

b3s1

b3s2

b3s3

piran 4. Umbi kentang pada berbagai kombinasi perlakuan



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2. SDN 305 Ta'gentung, 2009
3. SMPN 1 Bulukumpa, 2012
4. PKBM Al-Abrar Desa Bontobulaeng, 2017
5. (S1) Agroteknologi, Universitas Muhammadiyah Sinjai, 2022
6. (S2) Agroteknologi, Universitas Hasanuddin, 2024

C. Karya Ilmiah yang telah dan akan dipublikasikan

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