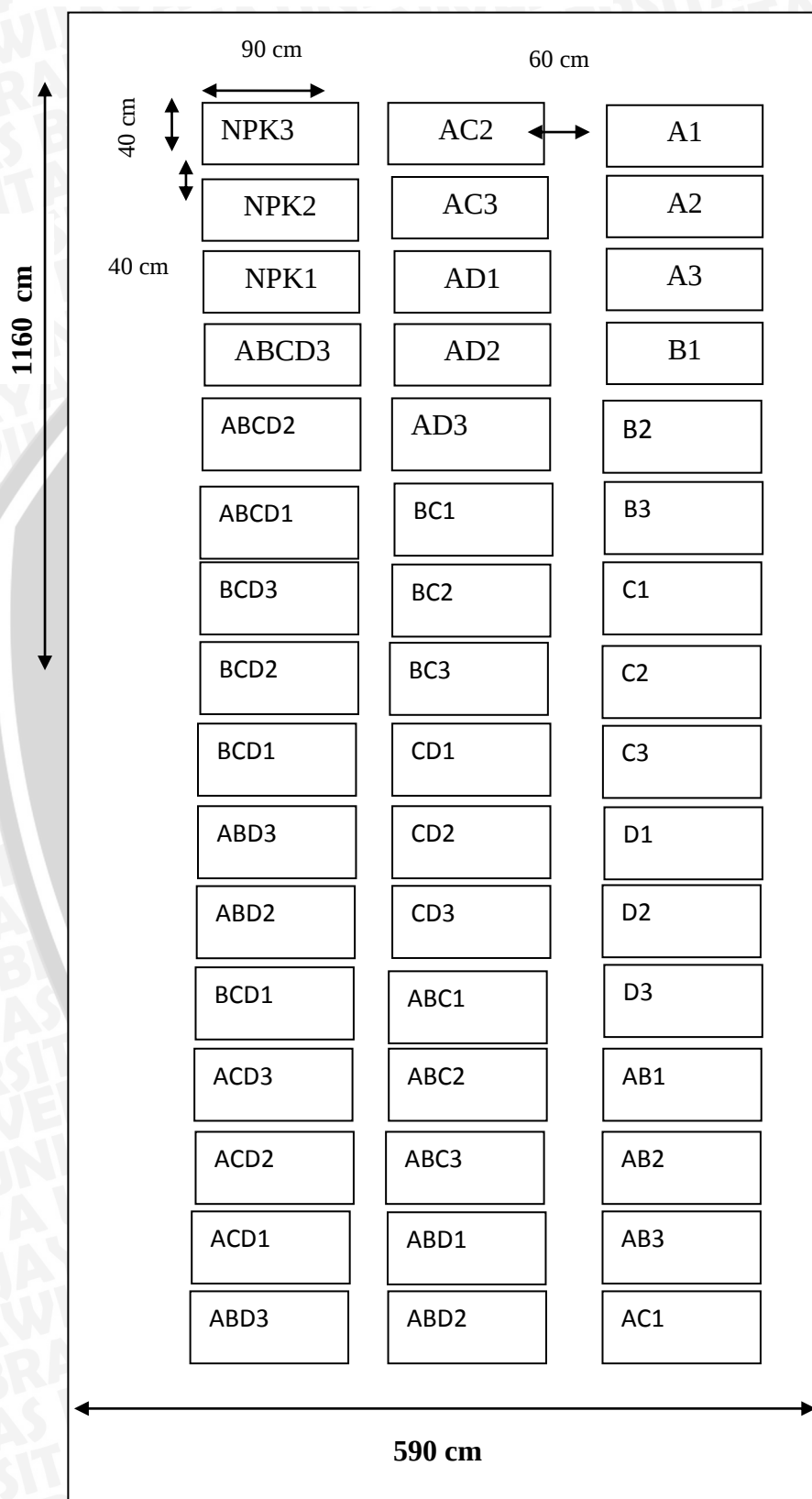
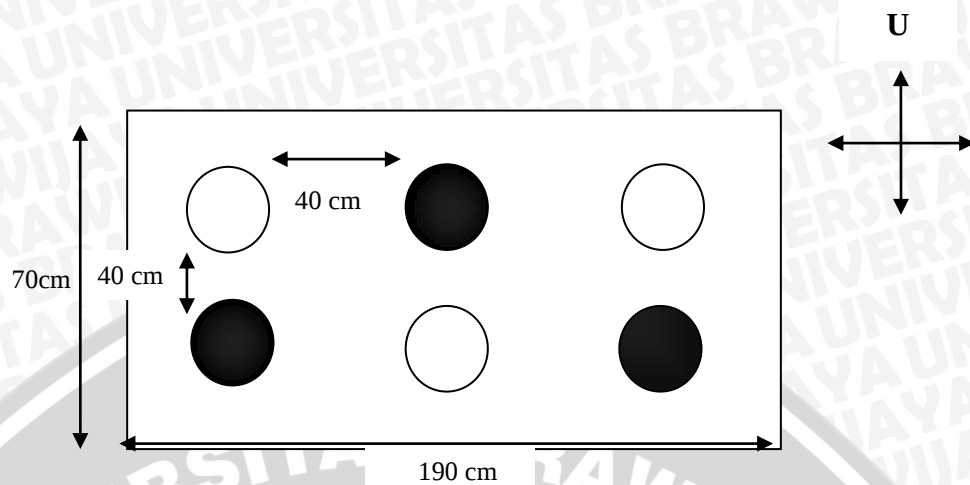


Lampiran 1. Gambar denah petak percobaan



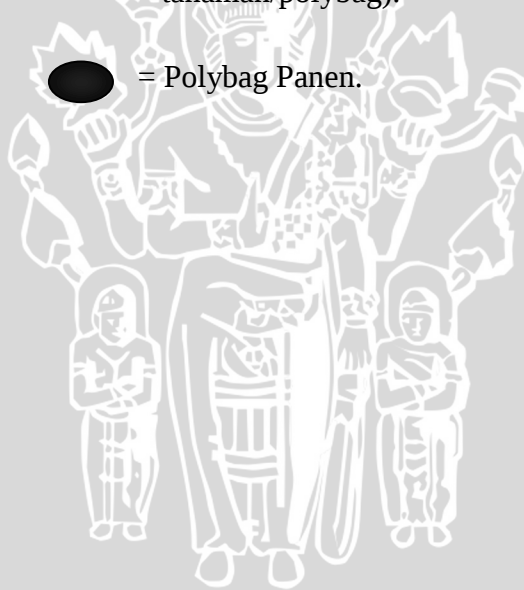
Lampiran 2. Gambar denah petak percobaan



Gambar 2. Petak Percobaan

Keterangan : ○ = Tanaman buncis dalam polybag, (1 tanaman/polybag).

● = Polybag Panen.



Lampiran 3. Perhitungan pupuk

1. Urea

Dosis 72 kg/ha

HLO (Hektar Lapisan Olah)

$$\begin{aligned}
 &= \text{kedalaman lapisan olah} \times \text{BI} \times \text{luasan lahan} \\
 &= 10 \text{ cm} \times 1.1 \text{ g/cm}^3 \times 10^8 \text{ cm} \\
 &= 11 \times 10^8 \text{ g}
 \end{aligned}$$

Kebutuhan pupuk per polybag (7 kg)

$$\begin{aligned}
 &= 7 \text{ kg/HLO} \times \text{kebutuhan pupuk dalam 1 hektar} \\
 &= \frac{7000 \text{ g}}{11 \times 10^8 \text{ g}} \times 72000 \text{ g} \\
 &= 0,45 \text{ g}
 \end{aligned}$$

2. SP₃₆

Dosis 150 kg/ha

HLO (Hektar Lapisan Olah)

$$\begin{aligned}
 &= \text{kedalaman lapisan olah} \times \text{BI} \times \text{luasan lahan} \\
 &= 10 \text{ cm} \times 1.1 \text{ g/cm}^3 \times 10^8 \text{ cm} \\
 &= 11 \times 10^8 \text{ g}
 \end{aligned}$$

Kebutuhan pupuk per polybag (7 kg)

$$\begin{aligned}
 &= 7 \text{ kg/HLO} \times \text{kebutuhan pupuk dalam 1 hektar} \\
 &= \frac{7000 \text{ g}}{11 \times 10^8 \text{ g}} \times 135000 \text{ g} \\
 &= 0,85 \text{ g}
 \end{aligned}$$

3. KCL

Dosis 104 kg/ha

HLO (Hektar Lapisan Olah)

$$\begin{aligned}
 &= \text{kedalaman lapisan olah} \times \text{BI} \times \text{luasan lahan} \\
 &= 10 \text{ cm} \times 1.1 \text{ g/cm}^3 \times 10^8 \text{ cm} \\
 &= 11 \times 10^8 \text{ g}
 \end{aligned}$$

Kebutuhan pupuk per polybag (7 kg)

$$\begin{aligned}
 &= 7 \text{ kg/HLO} \times \text{kebutuhan pupuk dalam 1 hektar} \\
 &= \frac{7000 \text{ g}}{11 \times 10^8 \text{ g}} \times 104000 \text{ g} \\
 &= 0,66 \text{ g}
 \end{aligned}$$

Lampiran. 4. Perhitungan Populasi mikroba

Populasi awal :

$$\text{Bacillus substillis} = 6,9 \times 10^{12}$$

$$\text{Dosis anjuran} = 1 \text{ liter}$$

$$\begin{aligned} \text{Populasi setelah pengenceran} &= 10^3 \times 6,9 \times 10^{12} / 1000 \\ &= 6,9 \times 10^{10} \text{ cfu/ml} \end{aligned}$$

Populasi awal

$$\text{Bacillus megatirium} = 7,5 \times 10^{12}$$

$$\text{Dosis anjuran} = 1 \text{ liter}$$

$$\begin{aligned} \text{Populasi setelah pengenceran} &= 10^3 \times 7,5 \times 10^{12} / 1000 \\ &= 7,5 \times 10^{10} \text{ cfu/ml} \end{aligned}$$

Populasi awal

$$\text{Ochrobactrum .sp} = 1,4 \times 10^{12}$$

$$\text{Dosis anjuran} = 1 \text{ liter}$$

$$\begin{aligned} \text{Populasi setelah pengenceran} &= 10^3 \times 1,4 \times 10^{12} / 1000 \\ &= 1,4 \times 10^{10} \text{ cfu/ml} \end{aligned}$$

Populasi awal

$$\text{Pseudomonas putida} = 6 \times 10^{12}$$

$$\text{Dosis anjuran} = 1 \text{ liter}$$

$$\begin{aligned} \text{Populasi setelah pengenceran} &= 10^3 \times 6 \times 10^{12} / 1000 \\ &= 6 \times 10^{10} \text{ cfu/ml} \end{aligned}$$

Lampiran 5. Hasil Analisis Ragam Komponen Pertumbuhan dan Komponen Hasil

1. Tinggi tanaman 14 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	57,79167	28,89583	0,112695	tn	3,31583	5,390346
Perlakuan	15	9500,667	633,3778	2,470205	*	2,014804	2,70018
Galat	30	7692,208	256,4069				
Total	47	17250,67					

2. Tinggi Tanaman 21 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	717,875	358,9375	1,132757	tn	3,315829501	5,390346
Perlakuan	15	9735	649	2,048153	*	2,014803691	2,70018
Galat	30	9506,125	316,8708				
Total	47	19959					

3. Tinggi tanaman 28 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	167,375	83,6875	0,208802	tn	3,31583	5,390346
Perlakuan	15	24936,48	1662,432	4,147799	**	2,014804	2,663188
Galat	30	12023,96	400,7986				
Total	47	37127,81					

4. Tinggi tanaman 35 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	941,625	470,8125	0,395548	tn	3,31583	5,390346
Perlakuan	15	15819,81	1054,654	0,886056	tn	2,014804	2,663188
Galat	30	35708,38	1190,279				
Total	47	52469,81					

5. Tinggi tanaman 42 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	769,7917	384,8958	0,331069	tn	3,31583	5,390346
Perlakuan	15	15140,15	1009,343	0,868189	tn	2,014804	2,70018
Galat	30	34877,54	1162,585				
Total	47	50787,48					

6. Tinggi tanaman 49 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	791,291667	395,645833	0,348859	tn	3,294537	5,336343
Perlakuan	15	15021,25	1001,41667	0,882996	tn	1,971683	2,617599
Galat	30	34023,375	1134,1125				
Total	47	49835,9167					

7. Jumlah daun 14 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	167,0417	83,52083	0,965574	tn	3,31583	5,390346
Perlakuan	15	1340,979	89,39861	1,033527	tn	2,014804	2,70018
Galat	30	2594,958	86,49861				
Total	47	4102,979					

8. Jumlah daun 21 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	407,0417	203,5208	3,229991	tn	3,31583	5,390346
Perlakuan	15	2223,333	148,2222	2,352371	*	2,014804	2,70018
Galat	30	1890,292	63,00972				
Total	47	4520,667					

9. Jumlah daun 28 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	472,6667	236,3333	1,215567	tn	3,31583	5,390346
Perlakuan	15	3086,333	205,7556	1,058292	tn	2,014804	2,70018
Galat	30	5832,667	194,4222				
Total	47	9391,667					

10. Jumlah daun 35 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	688,625	344,3125	0,665808	tn	3,31583	5,390346
Perlakuan	15	3045,646	203,0431	0,392631	tn	2,014804	2,70018
Galat	30	15514,04	517,1347				
Total	47	19248,31					

11. Jumlah daun 42 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	806,5417	403,2708	0,769562	tn	3,31583	5,390346
Perlakuan	15	2934,646	195,6431	0,373346	tn	2,014804	2,70018
Galat	30	15720,79	524,0264				
Total	47	19461,98					

12. Jumlah daun 49 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	806,375	403,1875	0,765241	tn	3,294537	5,336343
Perlakuan	15	2962,146	197,4764	0,374806	tn	1,971683	2,617599
Galat	30	15806,29	526,8764				
Total	47	19574,81					

13. Jumlah cabang 14 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	0,166667	0,083333	0,428571	tn	3,294537	5,336343
Perlakuan	15	5,666667	0,377778	1,942857	tn	1,971683	2,617599
Galat	30	5,833333	0,194444				
Total	47	11,66667					

14. Jumlah cabang 21 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	0,5	0,25	1	tn	3,294537	5,336343
Perlakuan	15	5,25	0,35	1,4	tn	1,971683	2,617599
Galat	30	7,5	0,25				
Total	47	13,25					

15. Jumlah cabang 28 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	3,5	1,75	0,370153	tn	3,294537	5,390346
Perlakuan	15	236,4792	15,76528	3,334606	**	2,014804	2,70018
Galat	30	141,8333	4,727778				
Total	47	381,8125					

16. Jumlah cabang 35 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	15,29167	7,645833	0,803767	tn	3,31583	5,390346
Perlakuan	15	402,8125	26,85417	2,82304	**	2,014804	2,70018
Galat	30	285,375	9,5125				
Total	47	703,4792					

17. Jumlah cabang 42hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	9,041667	4,520833	0,315193	tn	3,31583	2,70018
Perlakuan	15	623,6458	41,57639	2,898712	**	2,014804	
Galat	30	430,2917	14,34306				
Total	47	1062,979					

18. Jumlah cabang 49 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	96,54167	48,27083	3,22672	tn	3,31583	5,390346
Perlakuan	15	479,6458	31,97639	2,137499	*	2,014804	2,70018
Galat	30	448,7917	14,95972				
Total	47	1024,979					

19. Luas daun 28 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	231,58	115,7885	0,302312	tn	3,31583	5,390346
Perlakuan	15	10686,70	712,4469	1,860126	*	2,014804	2,70018
Galat	30	11490,30	383,0101				
Total	47	22408,58					

20. Luas daun 56 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	5008,08	2504,04	2,77092	tn	3,31583	5,390346
Perlakuan	15	58301,31	3886,754	4,301004	*	2,014804	2,70018
Galat	30	27110,56	903,6854				
Total	47	90419,95					

21. Berat kering tanaman 14 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	10,02684	5,013419	1,852386	tn	3,31583	5,390346
Perlakuan	15	208,2482	13,88321	5,129647	**	2,014804	2,70018
Galat	30	81,19396	2,706465				
Total	47	299,469					

22. Berat kering tanaman 42 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	810,6123	405,3061	1,54731	tn	3,294537	5,336343
Perlakuan	15	8947,784	596,5189	2,27729	*	1,971683	2,617599
Galat	30	7858,275	261,9425				
Total	47	17616,67					

23. Berat kering 60 hst

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	1987,146	993,5728	2,2638	tn	3,31583	5,390346
Perlakuan	15	8828,584	588,5723	1,341029	tn	2,014804	2,70018
Galat	30	13166,88	438,8961				
Total	47	23982,61					

24. Berat kering akar

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	154,5339	77,26695	0,679674	tn	3,31583	5,390346
Perlakuan	15	1473,6	98,23997	0,864162	tn	2,014804	2,70018
Galat	30	3410,469	113,6823				
Total	47	5038,602					

25. Berat basah akar

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	302,070867	151,0354	0,160088	tn	3,294537	5,336343
Perlakuan	15	23254,3159	1550,288	1,643202	tn	1,971683	2,617599
Galat	30	28303,6582	943,4553				
Total	47	51860,0450					

26. Panjang akar

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	122,625	61,3125	0,724532	tn	3,31583	5,390345863
Perlakuan	15	2116,667	141,1111	1,667515	tn	2,014804	2,700180342
Galat	30	2538,708	84,62361				
Total	47	4778					

27. Bobot buah tanaman

SK	db	JK	KT	Fhit		F tabel	
						5%	1%
Ulangan	2	202483,4	101241,7	3,244167	tn	3,31583	5,390346
Perlakuan	15	1501623	100108,2	3,207846	**	2,014804	2,70018
Galat	30	936218,8	31207,29				
Total	47	2640325					

28. Polong tanaman

SK	db	JK	KT	Fhit		F.Tabel	
						5%	1%
Ulangan	2	2214,5	1107,25	1,206177	tn	3,31583	5,390346
Perlakuan	15	59890,81	3992,721	4,349448	**	2,014804	2,70018
Galat	30	27539,5	917,9833				
Total	47	89644,81					

