

LAMPIRAN

Lampiran 1. Layout Penelitian

1. Faktor Pertama = Penyiangan (P)

P_1 = Frekuensi Penyiangan satu kali (15 hst)

P_2 = Frekuensi Penyiangan dua kali (15 hst ; 30 hst)

P_3 = Frekuensi Penyiangan dua kali (15 hst ; 30 hst ; 45 hst)

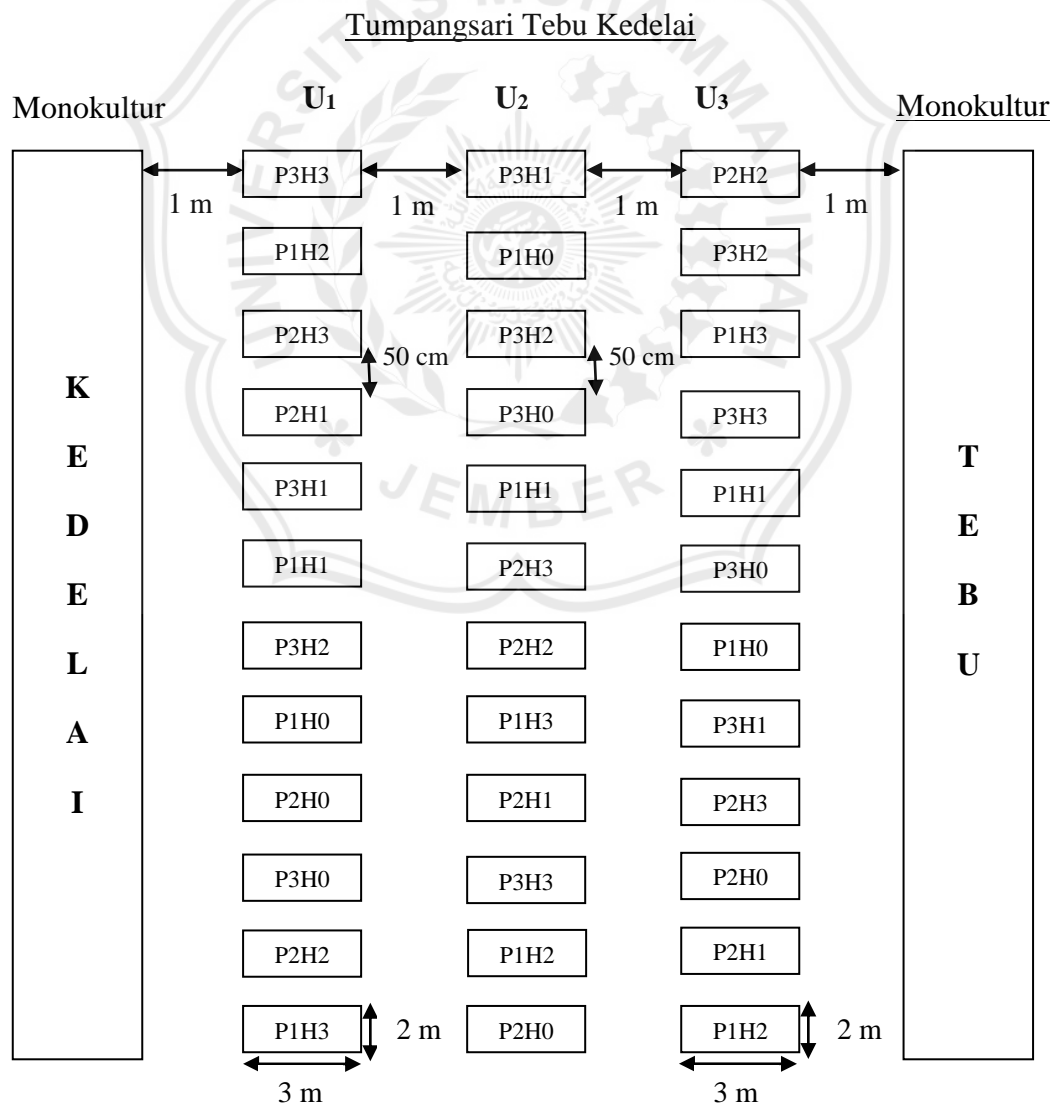
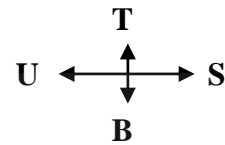
2. Faktor Kedua = Pengendalian Hama (H)

H_0 = Insektisida Kimia Decis 25ec

H_1 = Insektisida Nabati Nikurak

H_2 = Insektisida Nabati Ekstrak Sirsak

H_3 = Insektisida Nabati Ekstrak Mimba



Lampiran 2. Deskripsi Varietas Kedelai Anjasmoro yang di gunakan:

Kedelai Anjasmoro

Dilepas tahun	: 22 Oktober 2001
SK Mentan	: 537/Kpts/TP.240/10/2001
Nomor galur	: Mansuria 395-49-4
Asal	: Seleksi massa dari populasi galur murni Mansuria
Daya hasil	: 2,032,25 t/ha
Warna hipokotil	: Ungu
Warna epikotil	: Ungu
Warna daun	: Hijau
Warna bulu	: Putih
Warna bunga	: Ungu
Warna kulit biji	: Kuning
Warna polong masak	: Coklat muda
Warna hilum	: Kuning kecoklatan
Bentuk daun	: Oval
Ukuran daun	: Lebar
Tipe tumbuh	: Determinit
Umur berbunga	: 35,739,4 hari
Umur polong masak	: 82,592,5 hari
Tinggi tanaman	: 64 - 68 cm
Percabangan	: 2,95,6 cabang
Jml. buku batang utama	: 12,914,8
Bobot 100 biji	: 14,815,3 g
Kandungan protein	: 41,842,1%
Kandungan lemak	: 17,218,6%
Ketahanan thd penyakit	: Moderat terhadap karat daun
Pemulia	: Takashi Sanbuichi, Nagaaki Sekiya, Jamaluddin M., Susanto, Darman M.A., dan M. Muchlish Adie

Lampiran 3. Data Pengamatan Jumlah Cabang Produktif

Perlakuan	Ulangan			Jumlah	Rata-rata
	1	2	3		
P1H0	6.80	6.80	8.40	22.00	7.33
P1H1	9.20	5.40	8.20	22.80	7.60
P1H2	7.80	7.20	4.80	19.80	6.60
P1H3	5.40	7.40	6.20	19.00	6.33
P2H0	6.00	5.80	8.20	20.00	6.67
P2H1	7.20	7.60	8.20	23.00	7.67
P2H2	5.80	6.00	8.80	20.60	6.87
P2H3	7.40	8.00	6.80	22.20	7.40
P3H0	7.40	7.80	8.00	23.20	7.73
P3H1	8.60	4.80	6.40	19.80	6.60
P3H2	7.80	6.80	7.60	22.20	7.40
P3H3	5.60	7.00	8.80	21.40	7.13
Total	85.00	80.60	90.40	256.00	85.33
Rata-rata	7.08	6.72	7.53	21.33	7.11

SR	DB	JK	KT	F-Hit	Notasi	F Tabel	
						5%	1%
Kelompok	2	4.02	2.01	1.22	NS	3.44	5.72
Perlakuan	11	7.61	0.69	0.42	NS	2.26	3.18
P	2	0.40	0.20	0.12	NS	3.44	5.72
H	3	0.88	0.29	0.18	NS	3.05	4.82
P X H	6	6.33	1.05	0.64	NS	2.55	3.76
Galat	22	36.09	1.64				
Total	35	47.72					

FK = 1820.44

KK = 18.01

Lampiran 4. Data Pengamatan Persentase Jumlah Polong Sehat

Perlakuan	Ulangan			Jumlah	Rata-rata
	1	2	3		
P1H0	80.93	74.21	89.02	244.16	81.39
P1H1	83.99	76.83	87.96	248.78	82.93
P1H2	59.96	68.20	62.66	190.82	63.61
P1H3	86.49	81.09	87.79	255.38	85.13
P2H0	54.70	48.90	75.00	178.60	59.53
P2H1	64.37	73.68	72.32	210.37	70.12
P2H2	86.90	78.91	79.88	245.69	81.90
P2H3	63.96	72.89	64.52	201.36	67.12
P3H0	77.38	82.31	87.02	246.71	82.24
P3H1	60.25	58.52	78.28	197.05	65.68
P3H2	81.32	74.23	89.10	244.66	81.55
P3H3	79.67	81.82	95.95	257.43	85.81
Jumlah	879.92	871.59	969.50	2721.01	907.00
Rata-rata	73.33	72.63	80.79	226.75	75.58

SR	DB	JK	KT	F-Hit	Notasi	F Tabel	
						5%	1%
Kelompok	2	491.12	245.56	6.67	**	3.44	5.72
Perlakuan	11	3010.41	273.67	7.43	**	2.26	3.18
P	2	631.69	315.85	8.57	**	3.44	5.72
H	3	205.13	68.38	1.86	NS	3.05	4.82
P x H	6	2173.58	362.26	9.83	**	2.55	3.76
Galat	22	810.42	36.84				
Total	35	4311.95					

FK = 205663.87

KK = 8.03

Lampiran 5. Data Pengamatan Jumlah Biji Pertanaman

Perlakuan	Ulangan			Jumlah	Rata-rata
	1	2	3		
P1H0	92.60	76.80	70.00	239.40	79.80
P1H1	71.20	58.60	55.00	184.80	61.60
P1H2	68.80	48.20	29.00	146.00	48.67
P1H3	54.40	57.00	48.40	159.80	53.27
P2H0	68.40	39.00	66.00	173.40	57.80
P2H1	34.00	40.20	34.60	108.80	36.27
P2H2	77.20	75.60	46.60	199.40	66.47
P2H3	94.60	95.60	91.00	281.20	93.73
P3H0	51.60	71.60	70.40	193.60	64.53
P3H1	50.80	32.60	45.00	128.40	42.80
P3H2	72.00	57.80	59.40	189.20	63.07
P3H3	95.60	95.20	102.20	293.00	97.67
Jumlah	831.20	748.20	717.60	2297.00	765.67
Rata-rata	69.27	62.35	59.80	191.42	63.81

SR	DB	JK	KT	F-Hit	Notasi	F-Tabel	
						5%	1%
Kelompok	2	575.84	287.92	2.63	NS	3.44	5.72
Perlakuan	11	11661.11	1060.10	9.69	**	2.26	3.18
P	2	230.43	115.21	1.05	NS	3.44	5.72
H	3	5700.65	1900.22	17.37	**	3.05	4.82
P x H	6	5730.02	955.00	8.73	**	2.55	3.76
Galat	22	2406.85	109.40				
Total	35	14643.80					

FK = 146561.36

KK = 16.39

Lampiran 6. Data Pengamatan Bobot Biji Pertanaman

Perlakuan	Ulangan			Jumlah	Rata-rata
	1	2	3		
P1H0	3.96	2.88	6.12	12.96	4.32
P1H1	8.72	3.84	4.28	16.84	5.61
P1H2	4.30	4.18	2.52	11.00	3.67
P1H3	9.28	3.56	2.92	15.76	5.25
P2H0	2.06	2.68	3.64	8.38	2.79
P2H1	3.80	4.68	5.34	13.82	4.61
P2H2	9.96	6.72	2.56	19.24	6.41
P2H3	5.10	7.40	3.80	16.30	5.43
P3H0	6.10	6.06	4.68	16.84	5.61
P3H1	1.94	2.40	2.46	6.80	2.27
P3H2	4.10	6.56	6.74	17.40	5.80
P3H3	2.84	7.60	8.70	19.14	6.38
Jumlah	62.16	58.56	53.76	174.48	58.16
Rata-rata	5.18	4.88	4.48	14.54	4.85

SR	DB	JK	KT	F-Hit	Notasi	F-Tabel	
						5%	1%
Kelompok	2	2.96	1.48	0.31	NS	3.44	5.72
Perlakuan	11	60.00	5.45	1.14	NS	2.26	3.18
P	2	0.57	0.28	0.06	NS	3.44	5.72
H	3	15.68	5.23	1.09	NS	3.05	4.82
P x H	6	43.75	7.29	1.52	NS	2.55	3.76
Galat	22	105.41	4.79				
Total	35	168.37					

FK = 845.65

KK = 45.16

Lampiran 7. Data Pengamatan Bobot 100 Biji

Perlakuan	Ulangan			Jumlah	Rata-rata
	1	2	3		
P1H0	5.94	3.65	9.66	19.25	6.42
P1H1	16.65	8.34	7.60	32.59	10.86
P1H2	6.66	8.90	6.83	22.39	7.46
P1H3	19.91	8.84	6.25	35.00	11.67
P2H0	3.11	7.11	5.57	15.80	5.27
P2H1	11.63	12.26	16.42	40.31	13.44
P2H2	12.91	7.96	5.14	26.01	8.67
P2H3	5.18	8.25	4.15	17.58	5.86
P3H0	13.25	8.63	7.00	28.88	9.63
P3H1	4.03	7.67	5.51	17.22	5.74
P3H2	6.29	10.17	10.14	26.60	8.87
P3H3	3.02	8.31	8.64	19.97	6.66
Jumlah	108.57	100.10	92.94	301.61	100.54
Rata-rata	9.05	8.34	7.75	25.13	8.38

SR	DB	JK	KT	F-Hit	Notasi	F-Tabel	
						5%	1%
Kelompok	2	10.20	5.10	0.39	NS	3.44	5.72
Perlakuan	11	225.30	20.48	1.57	NS	2.26	3.18
P	2	11.52	5.76	0.44	NS	3.44	5.72
H	3	39.61	13.20	1.01	NS	3.05	4.82
P x H	6	174.17	29.03	2.23	NS	2.55	3.76
Galat	22	286.29	13.01				
Total	35	521.78					

FK = 2526.92

KK = 43.06

Lampiran 8. Data Pengamatan Umur Berbunga

Perlakuan	Ulangan			Jumlah	Rata-rata
	1	2	3		
P1H0	36.80	37.20	37.60	111.60	37.20
P1H1	37.40	37.60	38.60	113.60	37.87
P1H2	36.40	37.40	37.80	111.60	37.20
P1H3	37.60	38.80	38.60	115.00	38.33
P2H0	39.40	40.60	38.20	118.20	39.40
P2H1	37.40	37.00	37.20	111.60	37.20
P2H2	38.60	38.40	38.40	115.40	38.47
P2H3	37.40	36.60	37.20	111.20	37.07
P3H0	37.00	38.60	36.80	112.40	37.47
P3H1	38.60	38.20	37.00	113.80	37.93
P3H2	36.60	36.20	35.20	108.00	36.00
P3H3	35.80	36.00	35.00	106.80	35.60
Jumlah	449.00	452.60	447.60	1349.20	449.73
Rata-Rata	37.42	37.72	37.30	112.43	37.48

SR	DB	JK	KT	F-Hit	Notasi	F-Tabel	
						5%	1%
Kelompok	2	1.11	0.55	1.20	NS	3.44	5.72
Perlakuan	11	35.62	3.24	7.00	**	2.26	3.18
P	2	10.42	5.21	11.26	**	3.44	5.72
H	3	5.63	1.88	4.06	**	3.05	4.82
P x H	6	19.58	3.26	7.06	**	2.55	3.76
Galat	22	10.17	0.46				
Total	35	46.90					

FK = 50565.02

KK = 1.81

Lampiran 9. Data Pengamatan Umur Panen

Perlakuan	Ulangan			Jumlah	Rata-rata
	1	2	3		
P1H0	87.20	87.20	87.60	262.00	87.33
P1H1	87.60	87.80	88.60	264.00	88.00
P1H2	85.60	87.20	87.80	260.60	86.87
P1H3	87.40	90.40	89.00	266.80	88.93
P2H0	89.00	87.00	88.20	264.20	88.07
P2H1	87.60	87.40	83.60	258.60	86.20
P2H2	88.60	86.40	87.20	262.20	87.40
P2H3	87.40	88.40	87.20	263.00	87.67
P3H0	86.60	88.20	86.20	261.00	87.00
P3H1	88.60	85.00	87.60	261.20	87.07
P3H2	86.40	85.60	85.40	257.40	85.80
P3H3	85.40	86.40	83.40	255.20	85.07
Jumlah	1047.40	1047.00	1041.80	3136.20	1045.40
Rata-Rata	87.28	87.25	86.82	261.35	87.12

SR	DB	JK	KT	F-Hit	Notasi	F-Tabel	
						5%	1%
Kelompok	2	1.63	0.81	0.50	NS	3.44	5.72
Perlakuan	11	36.80	3.35	2.04	NS	2.26	3.18
P	2	15.26	7.63	4.66	**	3.44	5.72
H	3	2.86	0.95	0.58	NS	3.05	4.82
P x H	6	18.69	3.11	1.90	NS	2.55	3.76
Galat	22	36.00	1.64				
Total	35	74.43					

FK= 273215.29

KK= 1.47

Lampiran 10. Data Pengamatan Suhu Harian Tanah

Perlakuan	Ulangan			Jumlah	Rata-rata
	1	2	3		
P1H0	40.67	34.00	32.67	107.33	35.78
P1H1	41.67	37.67	37.00	116.33	38.78
P1H2	42.00	41.33	42.33	125.67	41.89
P1H3	40.67	45.33	33.33	119.33	39.78
P2H0	45.33	34.33	33.00	112.67	37.56
P2H1	43.67	48.67	40.67	133.00	44.33
P2H2	41.67	51.33	32.00	125.00	41.67
P2H3	46.00	33.33	43.67	123.00	41.00
P3H0	47.33	36.67	33.00	117.00	39.00
P3H1	42.67	40.00	37.67	120.33	40.11
P3H2	42.33	33.00	32.67	108.00	36.00
P3H3	44.00	38.33	44.67	127.00	42.33
Jumlah	518.00	474.00	442.67	1434.67	478.22
Rata-Rata	43.17	39.50	36.89	119.56	39.85

SR	DB	JK	KT	F-Hit	Notasi	F-Tabel	
						5%	1%
Kelompok	2	238.69	119.35	5.31	**	3.44	5.72
Perlakuan	11	220.99	20.09	0.89	NS	2.26	3.18
P	2	30.38	15.19	0.68	NS	3.44	5.72
H	3	78.25	26.08	1.16	NS	3.05	4.82
P x H	6	112.36	18.73	0.83	NS	2.55	3.76
Galat	22	494.42	22.47				
Total	35	954.10					

FK = 57174.12

KK = 11.90

Lampiran 11. Data Pengamatan Kelembapan Harian Tanah

Perlakuan	Ulangan			Jumlah	Rata-rata
	1	2	3		
P1H0	58.67	67.33	67.67	193.67	64.56
P1H1	56.00	58.33	61.00	175.33	58.44
P1H2	54.00	52.33	50.33	156.67	52.22
P1H3	48.67	52.67	60.33	161.67	53.89
P2H0	47.00	67.00	67.33	181.33	60.44
P2H1	54.33	44.33	59.33	158.00	52.67
P2H2	50.00	44.67	67.33	162.00	54.00
P2H3	53.00	68.00	47.67	168.67	56.22
P3H0	52.33	58.33	66.67	177.33	59.11
P3H1	54.67	54.00	60.33	169.00	56.33
P3H2	57.67	66.67	63.00	187.33	62.44
P3H3	61.33	55.33	56.33	173.00	57.67
Jumlah	647.67	689.00	727.33	2064.00	688.00
Rata-Rata	53.97	57.42	60.61	172.00	57.33

SR	DB	JK	KT	F-Hit	Notasi	F Tabel	
						5%	1%
Kelompok	2	264.57	132.29	3.04	NS	3.44	5.72
Perlakuan	11	496.74	45.16	1.04	NS	2.26	3.18
P	2	56.07	28.04	0.64	NS	3.44	5.72
H	3	196.37	65.46	1.50	NS	3.05	4.82
P X H	6	244.30	40.72	0.94	NS	2.55	3.76
Galat	22	957.57	43.53				
Total	35	1718.89					

FK = 118336

KK = 11.51

Lampiran 12. Data Pengamatan Intensitas Cahaya

Perlakuan	Ulangan			Jumlah	Rata-rata
	1	2	3		
P1H0	70.84	72.00	88.77	231.60	77.20
P1H1	71.84	73.03	88.47	233.34	77.78
P1H2	72.46	67.65	88.05	228.16	76.05
P1H3	78.05	83.38	75.80	237.23	79.08
P2H0	77.86	94.28	86.54	258.69	86.23
P2H1	75.24	74.03	88.29	237.56	79.19
P2H2	85.75	85.16	92.16	263.07	87.69
P2H3	76.39	80.94	81.24	238.57	79.52
P3H0	73.74	85.68	90.32	249.74	83.25
P3H1	81.10	69.21	84.62	234.94	78.31
P3H2	86.85	68.90	79.28	235.04	78.35
P3H3	77.45	82.70	86.08	246.23	82.08
Jumlah	927.57	936.96	1029.63	2894.16	964.72
Rata-Rata	77.30	78.08	85.80	241.18	80.39

SR	DB	JK	KT	F-Hit	Notasi	F Tabel	
						5%	1%
Kelompok	2	530.36	265.18	6.61	**	3.44	5.72
Perlakuan	11	439.84	39.99	1.00	NS	2.26	3.18
P	2	190.35	95.17	2.37	NS	3.44	5.72
H	3	66.12	22.04	0.55	NS	3.05	4.82
P X H	6	183.37	30.56	0.76	NS	2.55	3.76
Galat	22	883.00	40.14				
Total	35	1853.19					

$$FK = 232670.63$$

$$KK = 7.88$$

Lampiran 13. Data Pengamatan Nilai Kesetaraan Lahan

Perlakuan	Ulangan			Jumlah	Rata-rata
	1	2	3		
P1H0	2.62	2.05	3.34	8.01	2.67
P1H1	4.4	2.54	2.5	9.44	3.15
P1H2	2.81	2.65	2.2	7.66	2.55
P1H3	4.4	2.46	1.98	8.84	2.95
P2H0	1.9	2.12	2.15	6.17	2.06
P2H1	2.55	2.59	2.95	8.09	2.70
P2H2	5.03	3.83	2.09	10.95	3.65
P2H3	2.91	3.85	2.52	9.28	3.09
P3H0	3.98	3.19	2.85	10.02	3.34
P3H1	1.64	1.98	1.88	5.5	1.83
P3H2	2.33	3.68	3.69	9.7	3.23
P3H3	1.9	4.01	4.62	10.53	3.51
Total	36.47	34.95	32.77	104.19	34.73
Rata-rata	3.04	2.91	2.73	8.68	2.89

SR	DB	JK	KT	F-Hit	Notasi	F Tabel	
						5%	1%
Kelompok	2	0.58	0.29	0.36	NS	3.44	5.72
Perlakuan	11	10.21	0.93	1.16	NS	2.26	3.18
P	2	0.14	0.07	0.09	NS	3.44	5.72
H	3	2.71	0.90	1.13	NS	3.05	4.82
P X H	6	7.35	1.23	1.53	NS	2.55	3.76
Galat	22	17.57	0.80				
Total	35	28.36					

FK = 301.54

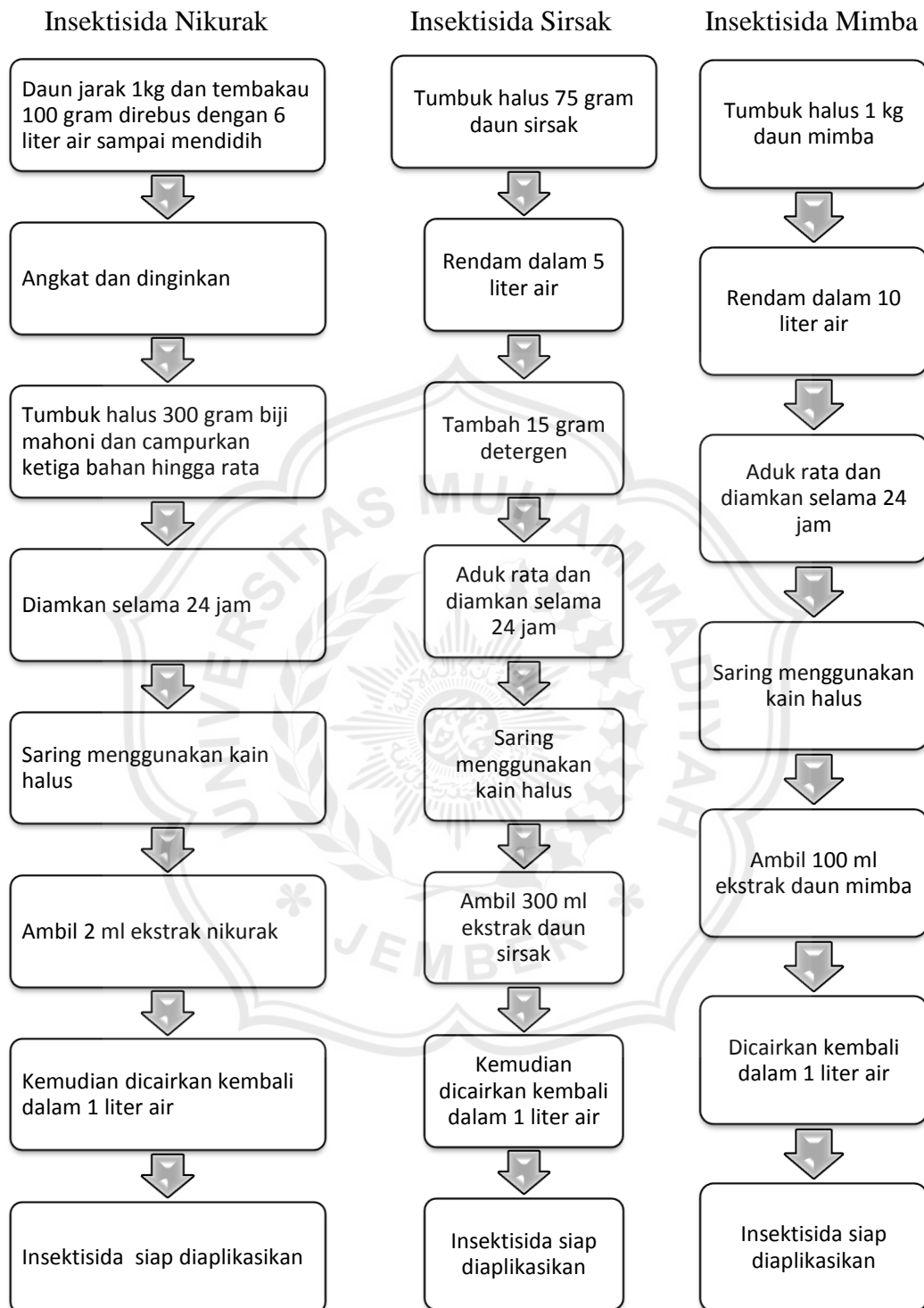
KK = 30.88

Lampiran 14. Data Pengamatan Bobot Perumpun Tebu

Perlakuan	Ulangan			Jumlah	Rerata
	1	2	3		
P1H0	1.83	2.42	2.98	7.23	2.41
P1H1	1.77	2.34	2.03	6.14	2.05
P1H2	1.94	1.75	2.22	5.91	1.97
P1H3	1.25	1.84	1.46	4.54	1.51
P2H0	1.89	1.85	1.27	5.00	1.67
P2H1	1.84	1.32	1.50	4.67	1.56
P2H2	1.97	2.10	1.88	5.95	1.98
P2H3	1.59	1.69	1.80	5.08	1.69
P3H0	1.78	1.43	1.75	4.97	1.66
P3H1	1.52	1.80	1.57	4.89	1.63
P3H2	1.26	1.93	1.82	5.01	1.67
P3H3	1.32	1.80	2.11	5.23	1.74
Jumlah	19.95	22.25	22.40	64.60	21.53
Rerata	1.66	1.85	1.87	5.38	1.79



Lampiran 15. Bagan Pembuatan Insektisida Nabati



Lampiran 16. Dokumentasi Penelitian



(a)



(b)



(c)



(d)



(e)



(f)

Keterangan: (a) Penebangan Tebu, (b) Pembakaran dan Pembersihan Lahan, (c) Pengolahan Lahan, (d) Pembuatan Bedengan, (e) Penanaman Kedelai, (f) Penanaman Tebu.



(a)



(b)



(c)



(d)



(e)



(f)

Keterangan: (a) Penyulaman, (b) Penyiraman, (c) Pupuk Urea, (d) Pupuk KCL, (e) Pupu TSP, (f) Pupuk Humakos.



(a)



(b)



(c)



(d)



(e)



(f)



(g)

Keterangan: (a) Perebusan Tembakau dan Daun Jarak, (b) Penghalusan Biji Mahoni, (c) Pemindahan Biji mahoni Dalam Timba, (d) Pencampuran Rebusan Tembakau dan Daun Jarak serta Biji Mahoni, (e) Penimbangan Daun Sirsak, (f) Penghalusan Daun Sirsak, (g) Pencampuran Daun Sirsak dan Sunlight.



(a)



(b)



(c)



(d)



(e)



(f)



(g)

Keterangan: (a) Daun Mimba, (b) Penghalusan Daun Mimba, (c) Pencampuran Bahan dengan Air, (d) Pengaplikasian Insektisida, (e) Penyiangan, (f) Panen Kedelai, (g) Pengukuran Suhu dan Kelembapan.



(a)



(b)



(c)



(d)

Keterangan: (a) Penghitungan Jumlah Cabang Produktif, (b) Penghitungan Jumlah Polong Isi dan Hampa, (c) Penimbangan Berat Biji Pertanian, (d) Hasil Polong Sehat.