

BAB V

KESIMPULAN DAN SARAN

1.1. Kesimpulan

1. Perlakuan pengolahan tanah yang diberikan pada tanaman kacang tanah tidak mempengaruhi tinggi tanaman, prosentase polong berisi, bobot 100 biji kering dan hasil biji kering perpetak.
2. Jarak tanam 40 x 40 cm berkontribusi hanya pada tinggi tanaman pada pengamatan 6 MST sebesar 30,00 cm dan tidak berpengaruh pada prosentase polong berisi, bobot 100 biji kering dan hasil biji kering perpetak.
3. Interaksi antara pengolahan tanah dan jarak tanam tidak memberikan pengaruh baik pada tinggi tanaman, prosentase polong berisi, bobot 100 biji kering dan hasil biji kering perpetak.

5.1 Saran

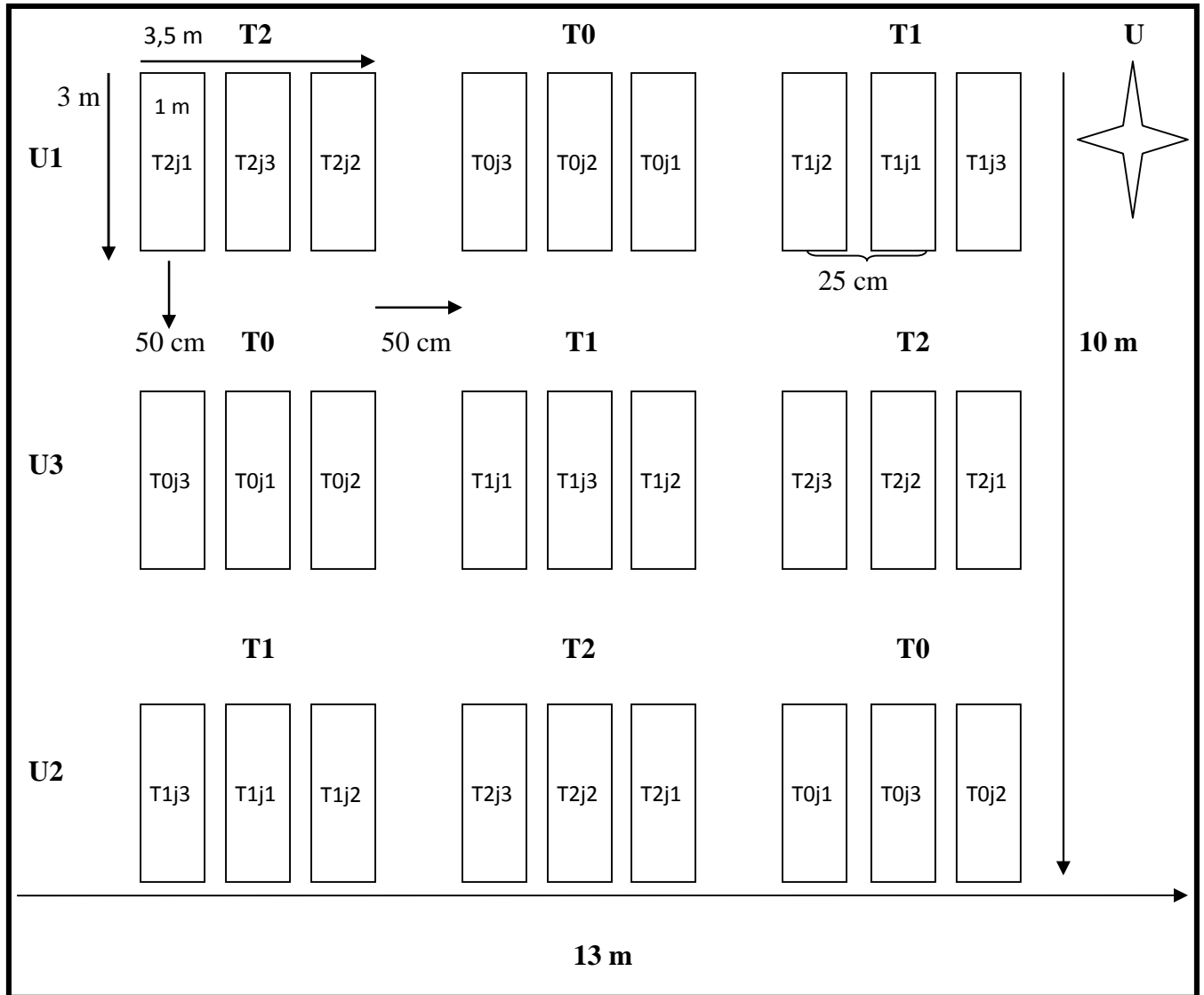
Dari hasil penelitian ini dapat disarankan perlu adanya penelitian lebih lanjut mengenai pengolahan tanah dan jarak tanam yang tepat guna untuk peningkatan produktivitas kacang tanah yang lebih baik.

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Lampiran 1. Lay Out / Tata Letak Penelitian



Keterangan :

To = tanpa olah tanah

T1 = menggunakan cangkul

T2 = bajak sapi

j1 = jarak tanam 40cm x 30cm

j2 = jarak tanam 40cm x 40cm

j3 = jarak tanam 40cm x 50cm

Lampiran 2.a. Analisis Sidik Ragam Tinggi Tanaman 2 MST

Petak Utama Pengolahan Tanah (A)	Perlakuan Kelompok			TOTAL AB	RATA-RATA AB	
	Anak Petak Jarak Tanam (B)	1	2			3
T0	J1	2.92	4.33	2.83	10.08	3.36
	J2	4.10	5.10	4.10	13.30	4.43
	J3	4.00	4.50	4.20	12.70	4.23
	TPU	11.02	13.93	11.13	36.08	4.01
T1	J1	3.92	4.08	3.17	11.17	3.72
	J2	4.70	4.10	2.30	11.10	3.70
	J3	4.10	3.50	3.70	11.30	3.77
	TPU	12.72	11.68	9.17	33.57	3.73
T2	J1	4.67	4.58	3.75	13.00	4.33
	J2	5.60	6.60	3.40	15.60	5.20
	J3	3.40	2.10	2.80	8.30	2.77
	TPU	13.67	13.28	9.95	36.90	4.10
	TK	37.40	38.90	30.25	106.55	3.95

$$\begin{aligned}
 \text{FK} &= \frac{T^2}{r \cdot m \cdot n} \\
 &= \frac{106.55^2}{3 \times 3 \times 3} \\
 \text{FK} &= 420.48
 \end{aligned}$$

$$\begin{aligned}
 \text{JK Total} &= T(Y IJK^2) - \text{FK} \\
 &= (2.92^2 + 4.33^2 + \dots + 2.80^2) - 420.48 \\
 \text{JK Total} &= 24.47
 \end{aligned}$$

$$\begin{aligned}
 \text{JK petak utama} &= \frac{\text{TPU}^2}{n} - \text{FK} \\
 &= \frac{(11.02^2) + (13.93^2) + \dots + (9.95^2)}{3} - 420.48 \\
 \text{JK petak utama} &= 7.50
 \end{aligned}$$

$$\begin{aligned}
 \text{JK Kelompok} &= \frac{\text{TK}^2}{m \cdot n} - \text{FK} \\
 &= \frac{(37.40^2) + (28.90^2) + (30.25^2)}{3 \times 3} - 420.48
 \end{aligned}$$

$$\text{JK Kelompok} = 4.75$$

$$\begin{aligned} \text{JK Pengolahan tanah} &= \frac{\text{TA}^2}{rn} - \text{FK} \\ &= \frac{(36.08^2) + (33.57^2) + (36.90^2)}{3 \times 3} - 420.48 \end{aligned}$$

$$\text{JK Pengolahan tanah} = 0.67$$

$$\begin{aligned} \text{JK Galat (a)} &= \text{JK Petak utama} - \text{JK Kelompok} - \text{JK Pengolahan tanah} \\ &= 7.50 - 4.75 - 0,67 \end{aligned}$$

$$\text{JK Galat (a)} = 2.08$$

PERLAKUAN ANAK PETAK (JARAK TANAM) (B)	PERLAKUAN PU (PENGOLAHAN TANAH) (A)			TOT (JARAK TANAM) (B)	RATA (JARAK TANAM) (B)
	T0	T1	T2		
J1	10.08	11.17	13.00	34.25	11.42
J2	13.30	11.10	15.60	40.00	13.33
J3	12.70	11.30	8.30	32.30	10.77
TOTAL A	36.08	33.57	36.90	106.55	-
RATA A	12.03	11.19	12.30	-	11.84

$$\begin{aligned} \text{JK kombinasi perlakuan (TAB)} &= \frac{\text{TAB}^2}{r} - \text{FK} \\ &= \frac{(10.08^2) + (11.17^2) + \dots + (8.30^2)}{3} - 420.48 \end{aligned}$$

$$\text{JK kombinasi perlakuan (TAB)} = 11.75$$

$$\begin{aligned} \text{JK Jarak tanam} &= \frac{\text{TB}^2}{rm} - \text{FK} \\ &= \frac{(34.25^2) + (40.00^2) + (32.30^2)}{3 \times 3} - 420.48 \end{aligned}$$

$$\text{JK Jarak tanam} = 3.56$$

$$\begin{aligned} \text{JK Interaksi} &= \text{JK K. Perlakuan (TAB)} - \text{JK P tanah} - \text{JK Jarak tanam} \\ &= 11.75 - 0,67 - 3.56 \end{aligned}$$

$$\text{JK Interaksi} = 7.52$$

$$\begin{aligned} \text{JK Galat (b)} &= \text{JK Total} - \text{JK petak utama} - \text{JK jarak tanam} - \text{JKinteraksi} \\ &= 24.47 - 7.50 - 3.56 - 7.52 \end{aligned}$$

$$\text{JK Galat (b)} = 12.72$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRA T	KUADRA T TENGAH	FHIT	FTABEL L 5%
PU	8	7.50	0.94	1.80	6.04
Kelompok	2	4.75	2.37	4.57	6.94
Pengolahan Tanah (A)	2	0.67	0.34	0.65	6.94
Galat (A)	4	2.08	0.52		
Jarak Tanam (B)	2	3.56	1.78	1.68	3.88
Interaksi	4	7.52	1.88	1.77	3.26
Galat (B)	12	12.72	1.06		
TOTAL	26				

Koefisien Keragaman = 26.09 %

Lampiran 2.b. Analisis Sidik Ragam Tinggi Tanaman 4 MST

PETAK UTAMA PENGOLAHAN TANAH (A)	PERLAKUAN KELOMPOK			TOTAL AB	RATA- RATA AB	
	ANAK PETAK (JARAK TANAM) (B)	1	2			3
T0	J1	11.75	15.25	14.33	41.33	13.78
	J2	15.10	19.50	17.30	51.90	17.30
	J3	15.60	15.50	16.20	47.30	15.77
	TPU	42.45	50.25	47.83	140.53	15.61
T1	J1	16.00	14.50	12.58	43.08	14.36
	J2	18.30	13.60	11.00	42.90	14.30
	J3	15.40	12.70	12.60	40.70	13.57
	TPU	49.70	40.80	36.18	126.68	14.08
T2	J1	16.67	17.33	14.67	48.67	16.22
	J2	18.10	20.50	15.60	54.20	18.07
	J3	11.40	10.60	11.20	33.20	11.07
	TPU	46.17	48.43	41.47	136.07	15.12
	TK	138.32	139.48	125.48	403.28	14.94

$$\begin{aligned}
 \text{FK} &= \frac{T^2}{r \cdot m \cdot n} \\
 &= \frac{403.28^2}{3 \times 3 \times 3} \\
 \text{FK} &= 6023.61
 \end{aligned}$$

$$\begin{aligned}
 \text{JK Total} &= T(Y IJK^2) - \text{FK} \\
 &= (11.75^2 + 15.25^2 + \dots + 11.20^2) - 6023.61 \\
 \text{JK Total} &= 181.02
 \end{aligned}$$

$$\begin{aligned}
 \text{JK petak utama} &= \frac{\text{TPU}^2}{n} - \text{FK} \\
 &= \frac{(42.45^2) + (50.25^2) + \dots + (41.47^2)}{3} - 6023.61 \\
 \text{JK petak utama} &= 61.62
 \end{aligned}$$

$$\begin{aligned}
 \text{JK Kelompok} &= \frac{\text{TK}^2}{m \cdot n} - \text{FK} \\
 &= \frac{(138.32^2) + (139.48^2) + (125.48^2)}{3 \times 3} - 6023.61 \\
 \text{JK Kelompok} &= 13.41
 \end{aligned}$$

$$\begin{aligned} \text{JK Pengolahan tanah} &= \frac{TA^2}{rn} - FK \\ &= \frac{(140.53^2) + (126.68^2) + (136.07^2)}{3 \times 3} - 6023.61 \end{aligned}$$

$$\text{JK Pengolahan tanah} = 11.10$$

$$\begin{aligned} \text{JK Galat (a)} &= \text{JK Petak utama} - \text{JK Kelompok} - \text{JK Pengolahan tanah} \\ &= 61.62 - 13.41 - 11.10 \end{aligned}$$

$$\text{JK Galat (a)} = 13.11$$

PERLAKUAN ANAK PETAK (JARAK TANAM) (B)	PERLAKUAN PU (PENGOLAHAN TANAH) (A)			TOT (JARAK TANAM) (B)	RATA (JARAK TANAM) (B)
	T0	T1	T2		
J1	41.33	43.08	48.67	133.08	44.36
J2	51.90	42.90	54.20	149.00	49.67
J3	47.30	40.70	33.20	121.20	40.40
TOTAL A	140.53	126.68	136.07	403.28	-
RATA A	46.84	42.23	45.36	-	44.81

$$\begin{aligned} \text{JK kombinasi perlakuan (TAB)} &= \frac{TAB^2}{r} - FK \\ &= \frac{(41.33^2) + (43.08^2) + \dots + (33.20^2)}{3} - 6023.61 \end{aligned}$$

$$\text{JK kombinasi perlakuan (TAB)} = 109.97$$

$$\begin{aligned} \text{JK Jarak tanam} &= \frac{TB^2}{rm} - FK \\ &= \frac{(133.08^2) + (149.00^2) + (121.20^2)}{3 \times 3} - 6023.61 \end{aligned}$$

$$\text{JK Jarak tanam} = 43.24$$

$$\begin{aligned} \text{JK Interaksi} &= \text{JK K. Perlakuan (TAB)} - \text{JK P tanah} - \text{JK Jarak tanam} \\ &= 109.97 - 11.10 - 43.24 \end{aligned}$$

$$\text{JK Interaksi} = 55.63$$

$$\begin{aligned} \text{JK Galat (b)} &= \text{JK Total} - \text{JK petak utama} - \text{JK jarak tanam} - \text{JK interaksi} \\ &= 181.02 - 61.62 - 43.24 - 55.63 \end{aligned}$$

$$\text{JK Galat (b)} = 71.05$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
PU	8	61.62	7.70	0.83	6.04
Kelompok	2	13.41	6.70	0.72	6.94
Pengolahan Tanah (a)	2	11.10	5.55	0.60	6.94
Galat (a)	4	37.11	9.28		
Jarak Tanam (b)	2	43.24	21.62	3.65	3.88
Interaksi	4	55.63	13.91	2.35	3.26
Galat (b)	12	71.05	5.92		
TOTAL	26				

Koefisien Keragaman = 16.29 %

Lampiran 2.c. Analisis Sidik Ragam Tinggi Tanaman 6 MST

PETAK UTAMA PENGOLAHAN TANAH (A)	PERLAKUAN KELOMPOK			TOTAL AB	RATA- RATA AB	
	ANAK PETAK JARAK TANAM (B)	1	2			3
T0	J1	26.42	29.08	28.67	84.17	28.06
	J2	28.50	29.80	31.70	90.00	30.00
	J3	29.10	29.00	26.10	84.20	28.07
	TPU	84.02	87.88	86.47	258.37	28.71
T1	J1	29.75	28.33	27.42	85.50	28.50
	J2	32.20	27.10	22.20	81.50	27.17
	J3	25.60	24.40	26.60	76.60	25.53
	TPU	87.55	79.83	76.22	243.60	27.07
T2	J1	27.67	31.75	29.17	88.58	29.53
	J2	31.00	36.90	30.60	98.50	32.83
	J3	23.10	23.38	21.70	68.18	22.73
	TPU	81.77	92.03	81.47	255.26	28.36
	TK	253.33	259.74	244.15	757.23	28.05

$$\begin{aligned}
 \text{FK} &= \frac{T^2}{rnm} \\
 &= \frac{757.23^2}{3 \times 3 \times 3} \\
 \text{FK} &= 21236.66
 \end{aligned}$$

$$\begin{aligned}
 \text{JK Total} &= T(Y IJK^2) - \text{FK} \\
 &= (26.42^2 + 29.08^2 + \dots + 21.70^2) - 21236.66 \\
 \text{JK Total} &= 298.95
 \end{aligned}$$

$$\begin{aligned}
 \text{JK petak utama} &= \frac{\text{TPU}^2}{n} - \text{FK} \\
 &= \frac{(84.02^2) + (87.88^2) + \dots + (81.47^2)}{3} - 21236.66 \\
 \text{JK petak utama} &= 62.45
 \end{aligned}$$

$$\text{JK Kelompok} = \frac{\text{TK}^2}{mn} - \text{FK}$$

$$\begin{aligned} &= \frac{(253.33^2)+(259.74^2)+(244.15^2)}{3 \times 3} - 21236.66 \\ \text{JK Kelompok} &= 13.65 \end{aligned}$$

$$\begin{aligned} \text{JK Pengolahan tanah} &= \frac{TA^2}{rn} - FK \\ &= \frac{(258.37^2)+(243.60^2)+(255.26^2)}{3 \times 3} - 21236.66 \\ \text{JK Pengolahan tanah} &= 13.47 \end{aligned}$$

$$\begin{aligned} \text{JK Galat (a)} &= \text{JK Petak utama} - \text{JK Kelompok} - \text{JK Pengolahan tanah} \\ &= 62.45 - 13.65 - 13.47 \end{aligned}$$

$$\text{JK Galat (a)} = 35.33$$

JARAK TANAM (B)	PENGOLAHAN TANAH (A)			TOTAL JARAK TANAM (B)	RATA JARAK TANAM (B)
	T0	T1	T2		
J1	84.17	85.50	88.58	258.25	86.08
J2	90.00	81.50	98.50	270.00	90.00
J3	84.20	76.60	68.18	228.98	76.33
TOTAL A	258.37	243.60	255.26	757.23	-
RATA A	86.12	81.20	85.09	-	84.14

$$\begin{aligned} \text{JK kombinasi perlakuan (TAB)} &= \frac{TAB^2}{r} - FK \\ &= \frac{(84.17^2)+(85.50^2)+ \dots +(68.18^2)}{3} - 21236.66 \end{aligned}$$

$$\text{JK kombinasi perlakuan (TAB)} = 193.62$$

$$\begin{aligned} \text{JK Jarak tanam} &= \frac{TB^2}{rm} - FK \\ &= \frac{(258.25^2)+(270.00^2)+(228.98^2)}{3 \times 3} - 21236.66 \\ \text{JK Jarak tanam} &= 99.19 \end{aligned}$$

$$\begin{aligned} \text{JK Interaksi} &= \text{JK K.Perlakuan (TAB)} - \text{JK P tanah} - \text{JK Jarak tanam} \\ &= 193.62 - 13.47 - 99.19 \end{aligned}$$

$$\text{JK Interaksi} = 80.96$$

$$\text{JK Galat (b)} = \text{JK Total} - \text{JK petak utama} - \text{JK jarak tanam} - \text{JK interaksi}$$

$$\begin{aligned}
 &= 298.95 - 62.45 - 99.19 - 80.96 \\
 \text{JK Galat (b)} &= 105.33
 \end{aligned}$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRA T	KUADRA T TENGAH	FHIT	FTABEL 5%
PU	8	62.45	7.81	0.88	6.04
Kelompok	2	13.65	6.82	0.77	6.94
Pengolahan Tanah (a)	2	13.47	6.73	0.76	6.94
Galat (a)	4	35.33	8.83		
Jarak Tanam (b)	2	99.19	49.60	5.65	3.88
Interaksi	4	80.96	20.24	2.31	3.26
Galat (b)	12	105.33	8.78		
TOTAL	26				

$$\text{Koefisien Keragaman} = 10.56\%$$

$$\begin{aligned}
 \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{(v)} \times \sqrt{\frac{2 \times KT \text{ Galat}}{Ul \times \text{pengolahan tanah}}} \\
 &= t_{0,05(12)} \times \sqrt{\frac{2 \times KT \text{ Galat}}{Ul \times \text{level PT}}} \\
 &= 2.179 \times \sqrt{\frac{2 \times 8.78}{3 \times 3}} \\
 &= 3.73
 \end{aligned}$$

Lampiran 2.d. Analisis Sidik Ragam Tinggi Tanaman 8 MST

PETAK UTAMA (PENGOLAHAN TANAH) (A)	PERLAKUAN KELOMPOK				TOTAL AB	RATA- RATA AB
	ANAK PETAK (JARAK TANAM) (B)	1	2	3		
T0	J1	38.83	44.17	37.33	120.33	40.11
	J2	38.50	37.60	41.00	117.10	39.03
	J3	40.40	39.00	34.80	114.20	38.07
	TPU	117.73	120.77	113.13	351.63	39.07
T1	J1	44.33	42.67	42.33	129.33	43.11
	J2	44.90	38.10	35.80	118.80	39.60
	J3	38.30	38.10	38.80	115.20	38.40
	TPU	127.53	118.87	116.93	363.33	40.37
T2	J1	37.08	45.00	40.33	122.42	40.81
	J2	40.60	48.30	44.70	133.60	44.53
	J3	33.90	37.10	35.30	106.30	35.43
	TPU	111.58	130.40	120.33	362.32	40.26
	TK	356.85	370.03	350.40	1077.28	39.90

$$\begin{aligned}
 \text{FK} &= \frac{T^2}{r \cdot m \cdot n} \\
 &= \frac{1077.28^2}{3 \times 3 \times 3} \\
 \text{FK} &= 42982.94
 \end{aligned}$$

$$\begin{aligned}
 \text{JK Total} &= T(Y IJK^2) - \text{FK} \\
 &= (38.83^2 + 44.17^2 + \dots + 35.30^2) - 42982.94 \\
 \text{JK Total} &= 339.97
 \end{aligned}$$

$$\begin{aligned}
 \text{JK petak utama} &= \frac{\text{TPU}^2}{n} - \text{FK} \\
 &= \frac{(117.73^2) + (120.77^2) + \dots + (120.33^2)}{3} - 42982.94 \\
 \text{JK petak utama} &= 99.54
 \end{aligned}$$

$$\begin{aligned} \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{mn}} - \text{FK} \\ &= \frac{(356.85^2) + (370.03^2) + (350.40^2)}{3 \times 3} - 42982.94 \end{aligned}$$

$$\text{JK Kelompok} = 22.25$$

$$\begin{aligned} \text{JK Pengolahan tanah} &= \frac{\text{TA}^2}{\text{rn}} - \text{FK} \\ &= \frac{(351.63^2) + (363.33^2) + (362.32^2)}{3 \times 3} - 42982.94 \end{aligned}$$

$$\text{JK Pengolahan tanah} = 9.34$$

$$\begin{aligned} \text{JK Galat (a)} &= \text{JK Petak utama} - \text{JK Kelompok} - \text{JK Pengolahan tanah} \\ &= 99.54 - 22.25 - 9.34 \end{aligned}$$

$$\text{JK Galat (a)} = 67.95$$

PERLAKUAN ANAK PETAK (JARAK TANAM) (B)	PERLAKUAN PU (PENGOLAHAN TANAH) (A)			TOTAL (JARAK TANAM) (B)	RATA (JARAK TANAM) (B)
	T0	T1	T2		
J1	120.33	129.33	122.42	372.08	124.03
J2	117.10	118.80	133.60	369.50	123.17
J3	114.20	115.20	106.30	335.70	111.90
TOTAL A	351.63	363.33	362.32	1077.28	-
RATA A	117.21	121.11	120.77	-	119.70

$$\begin{aligned} \text{JK kombinasi perlakuan (TAB)} &= \frac{\text{TAB}^2}{\text{r}} - \text{FK} \\ &= \frac{(120.33^2) + (129.33^2) + \dots + (106.30^2)}{3} - 42982.94 \end{aligned}$$

$$\text{JK kombinasi perlakuan (TAB)} = 177.14$$

$$\begin{aligned} \text{JK Jarak tanam} &= \frac{\text{TB}^2}{\text{rm}} - \text{FK} \\ &= \frac{(372.08^2) + (369.50^2) + (335.70^2)}{3 \times 3} - 42982.94 \end{aligned}$$

$$\text{JK Jarak tanam} = 91.59$$

$$\begin{aligned} \text{JK Interaksi} &= \text{JK K.Perlakuan (TAB)} - \text{JK P tanah} - \text{JK Jarak tanam} \\ &= 177.14 - 9.34 - 91.59 \end{aligned}$$

$$\text{JK Interaksi} = 76.22$$

$$\begin{aligned}
 \text{JK Galat (b)} &= \text{JK Total} - \text{JK petak utama} - \text{JK jarak tanam} - \text{JK interaksi} \\
 &= 339.97 - 99.54 - 91.59 - 76.22 \\
 \text{JK Galat (b)} &= 162.83
 \end{aligned}$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRA T	KUADRA T TENGAH	FHIT	FTABEL 5%
PU	8	99.54	12.44	0.73	6.04
KELOMPOK	2	22.25	11.13	0.66	6.94
Pengolahan Tanah (a)	2	9.34	4.67	0.27	6.94
Galat (a)	4	67.95	16.99		
Jarak Tanam (b)	2	91.59	45.79	3.37	3.88
Interaksi	4	76.22	19.05	1.40	3.26
Galat (b)	12	162.83	13.57		
TOTAL	26				

$$\text{Koefisien Keragaman} = 9.23\%$$

Lampiran 2.e. Analisis Sidik Ragam Tinggi Tanaman Saat Panen

PETAK UTAMA (PENGOLAHAN TANAH) (A)	PERLAKUAN KELOMPOK			TOTAL AB	RATA- RATA AB	
	ANAK PETAK (JARAK TANAM) (B)	1	2			3
T0	J1	48.83	51.17	48.58	148.58	49.53
	J2	46.70	42.10	48.10	136.90	45.63
	J3	47.60	45.70	42.00	135.30	45.10
	TPU	143.13	138.97	138.68	420.78	46.75
T1	J1	57.67	53.75	51.33	162.75	54.25
	J2	53.60	46.70	44.60	144.90	48.30
	J3	46.80	48.60	48.70	144.10	48.03
	TPU	158.07	149.05	144.63	451.75	50.19
T2	J1	42.83	56.25	46.75	145.83	48.61
	J2	50.20	55.40	55.60	161.20	53.73
	J3	43.70	47.50	45.80	137.00	45.67
	TPU	136.73	159.15	148.15	444.03	49.34
	TK	437.93	447.17	431.47	1316.57	48.76

$$\begin{aligned}
 \text{FK} &= \frac{T^2}{r \cdot m \cdot n} \\
 &= \frac{1316.57^2}{3 \times 3 \times 3} \\
 \text{FK} &= 64198.07
 \end{aligned}$$

$$\begin{aligned}
 \text{JK Total} &= T(Y IJK^2) - \text{FK} \\
 &= (48.83^2 + 51.17^2 + \dots + 45.80^2) - 64198.07 \\
 \text{JK Total} &= 495.13
 \end{aligned}$$

$$\begin{aligned}
 \text{JK petak utama} &= \frac{\text{TPU}^2}{n} - \text{FK} \\
 &= \frac{(143.13^2) + (138.97^2) + \dots + (148.15^2)}{3} - 64198.07 \\
 \text{JK petak utama} &= 176.89
 \end{aligned}$$

$$\text{JK Kelompok} = \frac{\text{TK}^2}{m \cdot n} - \text{FK}$$

$$\begin{aligned} &= \frac{(437.93^2)+(447.17^2)+(431.47^2)}{3 \times 3} - 64198.07 \\ \text{JK Kelompok} &= 13.84 \end{aligned}$$

$$\begin{aligned} \text{JK Pengolahan tanah} &= \frac{\text{TA}^2}{\text{rn}} - \text{FK} \\ &= \frac{(420.78^2)+(451.75^2)+(444.03^2)}{3 \times 3} - 64198.07 \\ \text{JK Pengolahan tanah} &= 57.74 \end{aligned}$$

$$\begin{aligned} \text{JK Galat (a)} &= \text{JK Petak utama} - \text{JK Kelompok} - \text{JK Pengolahan tanah} \\ &= 176.89 - 13.84 - 57.74 \end{aligned}$$

$$\text{JK Galat (a)} = 105.31$$

PERLAKUAN ANAK PETAK (JARAK TANAM) (B)	PERLAKUAN PU (PENGOLAHAN TANAH) (A)			TOT (JARAK TANAM) (B)	RATA (JARAK TANAM) (B)
	T0	T1	T2		
J1	148.58	162.75	145.83	457.17	152.39
J2	136.90	144.90	161.20	443.00	147.67
J3	135.30	144.10	137.00	416.40	138.80
TOTAL A	420.78	451.75	444.03	1316.57	-
RATA A	140.26	150.58	148.01	-	146.29

$$\begin{aligned} \text{JK kombinasi perlakuan (TAB)} &= \frac{\text{TAB}^2}{\text{r}} - \text{FK} \\ &= \frac{(148.58^2)+(162.75^2)+ \dots +(137.00^2)}{3} - 64198.07 \end{aligned}$$

$$\text{JK kombinasi perlakuan (TAB)} = 266.90$$

$$\begin{aligned} \text{JK Jarak tanam} &= \frac{\text{TB}^2}{\text{rm}} - \text{FK} \\ &= \frac{(457.17^2)+(443.00^2)+(416.40^2)}{3 \times 3} - 64198.07 \\ \text{JK Jarak tanam} &= 95.19 \end{aligned}$$

$$\begin{aligned} \text{JK Interaksi} &= \text{JK K.Perlakuan (TAB)} - \text{JK P tanah} - \text{JK Jarak tanam} \\ &= 266.90 - 57.74 - 95.19 \end{aligned}$$

$$\text{JK Interaksi} = 113.96$$

$$\begin{aligned}
 \text{JK Galat (b)} &= \text{JK Total} - \text{JK petak utama} - \text{JK jarak tanam} - \text{JK interaksi} \\
 &= 495.13 - 176.89 - 95.19 - 113.96 \\
 \text{JK Galat (b)} &= 228.24
 \end{aligned}$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
PU	8	176.89	22.11	0.84	6.04
KELOMPOK	2	13.84	6.92	0.26	6.94
Pengolahan Tanah (a)	2	57.74	28.87	1.10	6.94
Galat (a)	4	105.31	26.33		
Jarak Tanam (b)	2	95.19	47.60	2.50	3.88
Interaksi	4	113.96	28.49	1.50	3.26
Galat (b)	12	228.24	19.02		
TOTAL	26				

$$\text{Koefisien Keragaman} = 8.94\%$$

Lampiran 3. Analisis Sidik Ragam Prosentase Polong Berisi

PETAK UTAMA (PENGOLAHAN TANAH) (A)	PERLAKUAN KELOMPOK				TOTAL AB	RATA- RATA AB
	ANAK PETAK (JARAK TANAM) (B)	1	2	3		
T0	J1	91.66	94.93	88.52	275.11	91.70
	J2	95.00	98.03	96.66	289.69	96.56
	J3	96.92	96.97	94.44	288.33	96.11
	TPU	283.58	289.93	279.62	853.13	94.79
T1	J1	92.59	85.71	97.01	275.31	91.77
	J2	96.05	94.23	94.34	284.62	94.87
	J3	91.80	88.67	89.28	269.75	89.92
	TPU	280.44	268.61	280.63	829.68	92.19
T2	J1	93.59	91.66	97.59	282.84	94.28
	J2	89.06	94.73	93.44	277.23	92.41
	J3	91.80	85.96	91.37	269.13	89.71
	TPU	274.45	272.35	282.40	829.20	92.13
	TK	838.47	830.89	842.65	2512.01	93.04

$$\begin{aligned}
 FK &= \frac{T^2}{rmn} \\
 &= \frac{2512.01^2}{3 \times 3 \times 3} \\
 FK &= 233710.90
 \end{aligned}$$

$$\begin{aligned}
 JK \text{ Total} &= T(Y IJK^2) - FK \\
 &= (91.66^2 + 94.93^2 + \dots + 9137^2) - 233710.90 \\
 JK \text{ Total} &= 313.06
 \end{aligned}$$

$$\begin{aligned}
 JK \text{ petak utama} &= \frac{TPU^2}{n} - FK \\
 &= \frac{(283.58^2) + (289.93^2) + \dots + (282.40^2)}{3} - 233710.90 \\
 JK \text{ petak utama} &= 109.96
 \end{aligned}$$

$$JK \text{ Kelompok} = \frac{TK^2}{mn} - FK$$

$$\begin{aligned} &= \frac{(838.47^2)+(830.89^2)+(842.65^2)}{3 \times 3} - 233710.90 \\ \text{JK Kelompok} &= 7.90 \end{aligned}$$

$$\begin{aligned} \text{JK Pengolahan tanah} &= \frac{TA^2}{rn} - FK \\ &= \frac{(853.13^2)+(829.68^2)+(829.20^2)}{3 \times 3} - 233710.90 \\ \text{JK Pengolahan tanah} &= 41.58 \end{aligned}$$

$$\begin{aligned} \text{JK Galat (a)} &= \text{JK Petak utama} - \text{JK Kelompok} - \text{JK Pengolahan tanah} \\ &= 109.96 - 7.90 - 41.58 \end{aligned}$$

$$\text{JK Galat (a)} = 60.48$$

PERLAKUAN ANAK PETAK (JARAK TANAM) (B)	PERLAKUAN PU (PENGOLAHAN TANAH) (A)			TOT (JARAK TANAM) (B)	RATA (JARAK TANAM) (B)
	T0	T1	T2		
J1	275.11	275.31	282.84	833.26	277.75
J2	289.69	284.62	277.23	851.54	283.85
J3	288.33	269.75	269.13	827.21	275.74
TOTAL A	853.13	829.68	829.20	2512.01	-
RATA A	284.38	276.56	276.40	-	279.11

$$\begin{aligned} \text{JK kombinasi perlakuan (TAB)} &= \frac{TAB^2}{r} - FK \\ &= \frac{(275.11^2)+(275.31^2)+ \dots +(269.13^2)}{3} - 233710.90 \end{aligned}$$

$$\text{JK kombinasi perlakuan (TAB)} = 154.13$$

$$\begin{aligned} \text{JK Jarak tanam} &= \frac{TB^2}{rm} - FK \\ &= \frac{(833.26^2)+(851.54^2)+(827.21^2)}{3 \times 3} - 233710.90 \\ \text{JK Jarak tanam} &= 35.66 \end{aligned}$$

$$\begin{aligned} \text{JK Interaksi} &= \text{JK K.Perlakuan (TAB)} - \text{JK P tanah} - \text{JK Jarak tanam} \\ &= 154.13 - 41.58 - 35.66 \end{aligned}$$

JK Interaksi = 76.89

JK Galat (b) = JK Total – JK petak utama – JK jarak tanam – JK interaksi
= 313.06 – 109.96 – 35.66 – 76.89

JK Galat (b) = 158.93

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRA T	KUADRA T TENGAH	FHIT	FTABEL 5%
PU	8	109.96	13.74	0.91	6.04
KELOMPOK	2	7.90	3.95	0.26	6.94
Pengolahan Tanah (a)	2	41.58	20.79	1.38	6.94
Galat (a)	4	60.48	15.12		
Jarak Tanam (b)	2	35.66	17.83	1.35	3.88
Interaksi	4	76.89	19.22	1.45	3.26
Galat (b)	12	158.93	13.24		
TOTAL	26				

Koefisien Keragaman = 3.91%

Lampiran 4. Analisis Sidik Ragam Bobot 100 Biji Kering

PETAK UTAMA (PENGOLAHAN TANAH) (A)	PERLAKUAN KELOMPOK			TOTAL AB	RATA- RATA AB	
	ANAK PETAK (JARAK TANAM) (B)	1	2			3
T0	J1	34.00	36.00	37.00	107.00	35.67
	J2	35.00	36.00	34.00	105.00	35.00
	J3	36.00	40.00	35.00	111.00	37.00
	TPU	105.00	112.00	106.00	323.00	35.89
T1	J1	34.00	39.00	35.00	108.00	36.00
	J2	35.00	36.00	35.00	106.00	35.33
	J3	35.00	36.00	36.00	107.00	35.67
	TPU	104.00	111.00	106.00	321.00	35.67
T2	J1	34.00	34.00	33.00	101.00	33.67
	J2	39.00	38.00	33.00	110.00	36.67
	J3	35.00	32.00	33.00	100.00	33.33
	TPU	108.00	104.00	99.00	311.00	34.56
	TK	317.00	327.00	311.00	955.00	28.85

$$\begin{aligned}
 FK &= \frac{T^2}{rnm} \\
 &= \frac{955.00^2}{3 \times 3 \times 3} \\
 FK &= 33778.70
 \end{aligned}$$

$$\begin{aligned}
 JK \text{ Total} &= T(Y IJK^2) - FK \\
 &= (34.00^2 + 36.00^2 + \dots + 33.00^2) - 33778.70 \\
 JK \text{ Total} &= 98.2963
 \end{aligned}$$

$$\begin{aligned}
 JK \text{ petak utama} &= \frac{TPU^2}{n} - FK \\
 &= \frac{(105.00^2) + (112.00^2) + \dots + (99.00^2)}{3} - 33778.70 \\
 JK \text{ petak utama} &= 40.9630
 \end{aligned}$$

$$\begin{aligned} \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{mn}} - \text{FK} \\ &= \frac{(317.00^2) + (327.00^2) + (311.00^2)}{3 \times 3} - 0.04 \end{aligned}$$

$$\text{JK Kelompok} = 14.51852$$

$$\begin{aligned} \text{JK Pengolahan tanah} &= \frac{\text{TA}^2}{\text{rn}} - \text{FK} \\ &= \frac{(323.00^2) + (321.00^2) + (311.00^2)}{3 \times 3} - 0.04 \end{aligned}$$

$$\text{JK Pengolahan tanah} = 9.18519$$

$$\begin{aligned} \text{JK Galat (a)} &= \text{JK Petak utama} - \text{JK Kelompok} - \text{JK Pengolahan tanah} \\ &= 40.9630 - 14.51852 - 9.18519 \end{aligned}$$

$$\text{JK Galat (a)} = 17.2592$$

PERLAKUAN ANAK PETAK (JARAK TANAM) (B)	PERLAKUAN PU (PENGOLAHAN TANAH) (A)			TOT (JARAK TANAM) (B)	RATA (JARAK TANAM) (B)
	T0	T1	T2		
J1	107.00	108.00	101.00	316.00	105.33
J2	105.00	106.00	110.00	321.00	107.00
J3	111.00	107.00	100.00	318.00	106.00
TOTAL A	323.00	321.00	311.00	955.00	-
RATA A	107.67	107.00	103.67	-	106.11

$$\begin{aligned} \text{JK kombinasi perlakuan (TAB)} &= \frac{\text{TAB}^2}{\text{r}} - \text{FK} \\ &= \frac{(107.00^2) + (108.00^2) + \dots + (311.00^2)}{3} - 0.04 \end{aligned}$$

$$\text{JK kombinasi perlakuan (TAB)} = 36.2963$$

$$\begin{aligned} \text{JK Jarak tanam} &= \frac{\text{TB}^2}{\text{rm}} - \text{FK} \\ &= \frac{(316.00^2) + (321.00^2) + (318.00^2)}{3 \times 3} - 0.04 \end{aligned}$$

$$\begin{aligned}
 \text{JK Jarak tanam} &= 1.40741 \\
 \text{JK Interaksi} &= \text{JK K.Perlakuan (TAB)} - \text{JK P tanah} - \text{JK Jarak tanam} \\
 &= 36.2963 - 9.18519 - 1.40741 \\
 \text{JK Interaksi} &= 25.70370 \\
 \text{JK Galat (b)} &= \text{JK Total} - \text{JK petak utama} - \text{JK jarak tanam} - \text{JK interaksi} \\
 &= 98.2963 - 40.9630 - 1.40741 - 25.70370 \\
 \text{JK Galat (b)} &= 62.0000
 \end{aligned}$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
PU	8	40.9630	5.12037	1.19	6.04
Kelompok	2	14.51852	7.25926	1.68	6.94
Pengolahan Tanah (a)	2	9.18519	4.59259	1.06	6.94
Galat (a)	4	17.25926	4.31481		
Jarak Tanam (b)	2	1.40741	0.70370	0.14	3.88
Interaksi	4	25.70370	6.425926	1.24	3.26
Galat (b)	12	62.0000	5.16667		
TOTAL	26				

$$\text{Koefisien Keragaman} = 7.88\%$$

Lampiran 5. Analisis Sidik Ragam hasil Biji Kering Per Petak

PETAK UTAMA (PENGOLAHAN TANAH) (A)	PERLAKUAN KELOMPOK			TOTAL AB	RATA- RATA AB	
	ANAK PETAK (JARAK TANAM) (B)	1	2			3
T0	J1	35.00	45.00	38.00	118.00	39.33
	J2	37.00	37.00	37.00	111.00	37.00
	J3	40.00	47.00	37.00	124.00	41.33
	TPU	112.00	129.00	112.00	353.00	39.22
T1	J1	35.00	42.00	46.00	123.00	41.00
	J2	47.00	38.00	37.00	122.00	40.67
	J3	36.00	37.00	37.00	110.00	36.67
	TPU	118.00	117.00	120.00	355.00	39.44
T2	J1	42.00	35.00	49.00	126.00	42.00
	J2	42.00	49.00	34.00	125.00	41.67
	J3	36.00	34.00	35.00	105.00	35.00
	TPU	120.00	118.00	118.00	356.00	39.56
	TK	350.00	364.00	350.00	1064.00	39.41

$$\begin{aligned}
 \text{FK} &= \frac{T^2}{rnm} \\
 &= \frac{1064.00^2}{3 \times 3 \times 3} \\
 \text{FK} &= 41929.48
 \end{aligned}$$

$$\begin{aligned}
 \text{JK Total} &= T(Y IJK^2) - \text{FK} \\
 &= (35.00^2 + 45.00^2 + \dots + 35.00^2) - 41929.48 \\
 \text{JK Total} &= 598.519
 \end{aligned}$$

$$\begin{aligned}
 \text{JK petak utama} &= \frac{\text{TPU}^2}{n} - \text{FK} \\
 &= \frac{(112.00^2) + (129.00^2) + \dots + (118.00^2)}{3} - 41929.48
 \end{aligned}$$

$$\text{JK petak utama} = 67.1852$$

$$\begin{aligned} \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{mn}} - \text{FK} \\ &= \frac{(350.00^2) + (364.00^2) + (350.00^2)}{3 \times 3} - 41929.48 \end{aligned}$$

$$\text{JK Kelompok} = 14.51852$$

$$\begin{aligned} \text{JK Pengolahan tanah} &= \frac{\text{TA}^2}{\text{rn}} - \text{FK} \\ &= \frac{(353.00^2) + (355.00^2) + (356.00^2)}{3 \times 3} - 41929.48 \end{aligned}$$

$$\text{JK Pengolahan tanah} = 0.518519$$

$$\begin{aligned} \text{JK Galat (a)} &= \text{JK Petak utama} - \text{JK Kelompok} - \text{JK Pengolahan tanah} \\ &= 67.1852 - 14.51852 - 0.518519 \end{aligned}$$

$$\text{JK Galat (a)} = 52.1481$$

PERLAKUAN ANAK PETAK (JARAK TANAM) (B)	PERLAKUAN PU (PENGOLAHAN TANAH) (A)			TOT (JARAK TANAM) (B)	RATA (JARAK TANAM) (B)
	T0	T1	T2		
J1	118.00	123.00	126.00	367.00	122.33
J2	111.00	122.00	125.00	358.00	119.33
J3	124.00	110.00	105.00	339.00	113.00
TOTAL A	353.00	355.00	356.00	1064.00	-
RATA A	117.67	118.33	118.67	-	118.22

$$\begin{aligned} \text{JK kombinasi perlakuan (TAB)} &= \frac{\text{TAB}^2}{\text{r}} - \text{FK} \\ &= \frac{(118.00^2) + (123.00^2) + \dots + (105.00^2)}{3} - 41929.48 \end{aligned}$$

$$\text{JK kombinasi perlakuan (TAB)} = 157.1852$$

$$\begin{aligned} \text{JK Jarak tanam} &= \frac{\text{TB}^2}{\text{rm}} - \text{FK} \\ &= \frac{(367.00^2) + (358.00^2) + (339.00^2)}{3 \times 3} - 41929.48 \end{aligned}$$

$$\text{JK Jarak tanam} = 45.40741$$

$$\begin{aligned} \text{JK Interaksi} &= \text{JK K.Perlakuan (TAB)} - \text{JK P tanah} - \text{JK Jarak tanam} \\ &= 157.1852 - 0.518519 - 45.40741 \end{aligned}$$

$$\text{JK Interaksi} = 111.2593$$

$$\begin{aligned} \text{JK Galat (b)} &= \text{JK Total} - \text{JK petak utama} - \text{JK jarak tanam} - \text{JK interaksi} \\ &= 598.519 - 67.1852 - 45.40741 - 111.2593 \end{aligned}$$

$$\text{JK Galat (b)} = 441.3333$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
PU	8	67.1852	8.39815	0.64	6.04
Kelompok	2	14.51852	7.25926	0.56	6.94
Pengolahan Tanah (a)	2	0.518519	0.2592593	0.02	6.94
Galat (a)	4	52.1481	13.03704		
Jarak Tanam (b)	2	45.40741	22.70370	0.62	3.88
Interaksi	4	111.2593	27.81481	0.76	3.26
Galat (b)	12	441.3333	36.77778		
TOTAL	26				

$$\text{Koefisien Keragaman} = 15.39\%$$

Lampiran 6. Deskripsi Varietas kancil

Tahun Pelepasan	: 12 Januari 2001
SK Mentan	: 61/Kpts/TP.240/1/2001
Nomor induk	: MLG 7908
Nama galur	: GH 86031
Asal	: Introduksi dari ICRISAT, india (persilangan antara F334 – B-14 x NC Ac 2214)
Hasil rata-rata	: 1,7 t/ha (1,3-2,4 t/ha)
Warna batang	: hijau keunguan
Warna daun	: hijau
Warna bunga	: kuning
Warna ginifor	: ungu
Warna biji	: rose (merah muda)
Bentuk batang	: tipe Spanish
Bentuk polong	: berpinggang, berparuh kecil, dan kulit polong agak kasar
Tipe pertumbuhan	: tegak
Bentuk biji	: bulat
Tinggi tanaman	: 54,9 cm
Jumlah polong/tanaman	: 15-20 buah
Jumlah biji/polong	: 2 atau 1
Umur berbunga	: 26-28 hari
Umur panen	: 90-95 hari
Bobot 100 biji	: 35-40 g
Kadar protein	: 29,9%
Kadar lemak	: 50,0%

Ketahanan terhadap Penyakit	: tahan penyakit layu Toleran penyakit karat, becak daun dan tahan <i>A.flavus</i>
Keterangan	: toleran terhadap klorosis
Benih penjenis (BS)	: dirawat dan diperbanyak oleh Balitkabi
Pemulia	: Joko Purnomo, Novita Nugrahaeni, Astanto Kasno, Harry Prasetyo dan A, Muniip
Peneliti Fitopatologis	: Sumartini
Sumber	: Unit Pengelolaan Benih Sumber (UPBS) Balai Penelitian Tanaman Kacang – Kacangan Dan Umbi - Umbian

Lampiran 7. Gambar



Gambar 1. Pengukuran lahan



Gambar 2. Pembagian petak



Gambar 3. Tanpa pengolahan tanah



Gambar 4. Pembersihan lahan TOT



Gambar 5. Pengolahan tanah dengan cangkul



Gambar 6. Pengolahan tanah bajak sapi



Gambar 7. Lahan siap tanam



Gambar 8. Penugalan



Gambar 9. Penanaman kacang tanah



Gambar 10. Pengukuran tinggi tanaman 2 MST



Gambar 11. Pengukuran tinggi tanaman
4 MST



Gambar 12. Pengukuran tinggi tanaman 6 MST



Gambar 12. Pengukuran tinggi tanaman 8 MST



Gambar 13. Pengukuran tinggi tanaman saat panen



Gambar 14. Tanaman siap panen



Gambar 15. Panen kacang tanah



Gambar 16. Pemisahan polong kacang tanah



Gambar 17. Pengeringan kacang tanah



Gambar 18. Pemisahan polong berisi dan polong Hampa



Gambar 19. Pengukuran bobot 100 biji kering (g)



Gambar 20. Pengukuran hasil biji kering per petak



Gambar 21. Label kacang tanah varietas kancil