

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

1. Perlakuan jarak tanam 50 cm x 75 cm berkontribusi terhadap pertumbuhan tinggi tanaman pada pengamatan 2 MST (31,38 cm), 4 MST (52,67 cm) dan 6 MST (161,13 cm), jumlah daun pada pengamatan 2 MST (3,88 helai), 6 MST (8,79 helai) dan 8 MST (11,75 helai).
2. Varietas Bonanza memberikan tinggi terbaik pada umur 4 MST (52,64 cm) dan 6 MST (149,72 cm), jumlah daun 2 MST (3,75 helai), 4 MST (6,18 helai), 6 MST (8,54 helai) dan 8 MST (11,31 helai).
3. Interaksi antara jarak tanam dan varietas berkontribusi terhadap tinggi tanaman sebesar 172,33 cm pada perlakuan 50 cm x 75 cm varietas Bonanza.

5.2 Saran

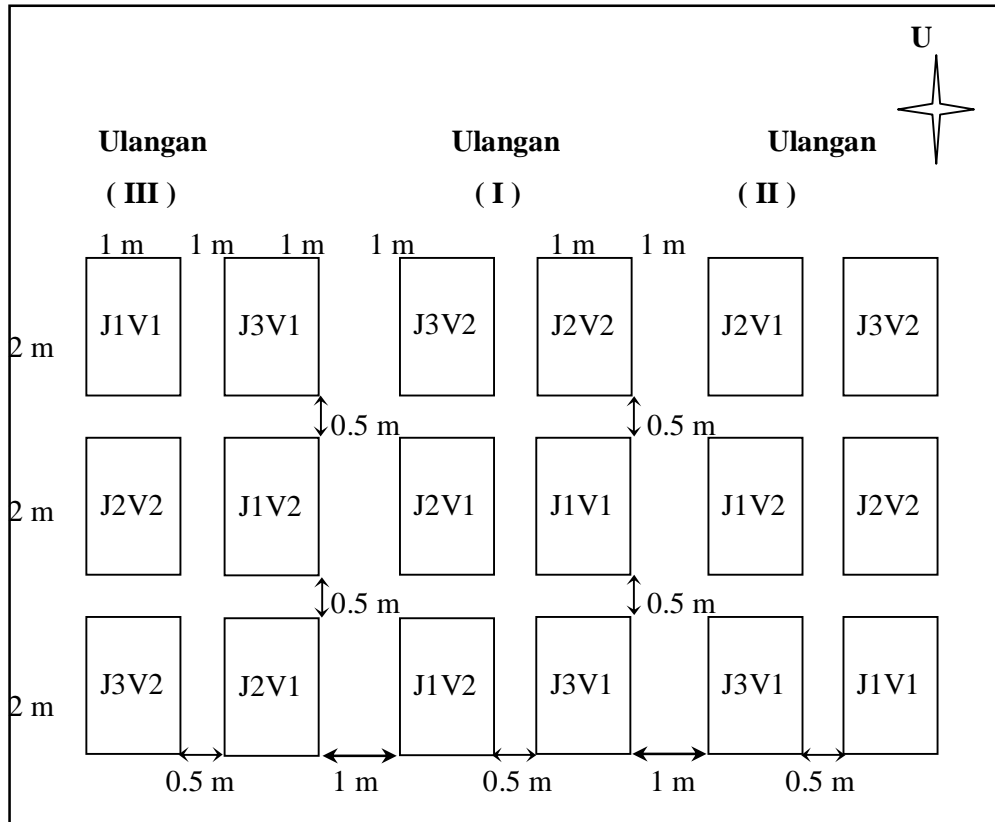
Dari hasil penelitian ini dapat disarankan untuk menindaklanjuti penelitian ini dengan menggunakan jarak tanam dan varietas yang lebih tepat dan pada tanaman jagung manis guna untuk peningkatan produktivitas tanaman jagung manis.

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Lampiran 1. Lay Out Penelitian



Lampiran 3.a. Analisis Sidik Ragam Tinggi Tanaman 2 MST

Faktor A (Jarak Tanam)	Faktor B (Varietas)	Ulangan			Total AB	Rata AB
		1	2	3		
J1 (50 x 25 cm)	V1 (Bonanza)	23,90	26,80	29,66	80,36	26,79
	V2 (Talenta)	26,33	26,00	28,81	81,14	27,05
J2 (50 x 50 cm)	V1 (Bonanza)	29,06	29,92	31,02	90,00	30,00
	V2 (Talenta)	29,62	29,64	30,20	89,46	29,82
J3 (50 x 75 cm)	V1 (Bonanza)	31,00	31,83	32,75	95,58	31,86
	V2 (Talenta)	31,05	30,55	31,08	92,68	30,89
		170,96	174,74	183,51	529,21	29,40
	TK	TK1	TK2	TK3	TIJK	\bar{y}_{IJK}

$$\begin{aligned}
 FK &= \frac{TIJK^2}{UL \times PERLAKUAN} \\
 &= \frac{529,21^2}{3 \times 6} \\
 FK &= 15559,07 \\
 JK \text{ Total} &= T(\bar{y}_{IJK}) - FK \\
 &= (23,90)^2 + (26,80)^2 + \dots + (31,08)^2 - 15559,07 \\
 JK \text{ Total} &= 88,66 \\
 JK \text{ Kelompok} &= \frac{TK^2}{J \times V} - FK \\
 &= \frac{(170,96^2) + (174,74^2) + (183,51^2)}{3 \times 2} - 15559,07 \\
 JK \text{ Kelompok} &= 13,82 \\
 JK \text{ Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{UL} - FK \\
 &= \frac{(80,36)^2 + (81,14)^2 + \dots + (92,68^2)}{3} - 15559,07 \\
 JK \text{ Kombinasi Perlakuan} &= 63,52 \\
 JK \text{ Galat} &= JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan} \\
 &= 88,66 - 13,82 - 63,52 \\
 JK \text{ Galat} &= 11,32
 \end{aligned}$$

Faktor B (Varietas)	Faktor A (Jarak Tanam)			Total B	Rata B
	J1	J2	J3		
V1	80,36	90,00	95,58	265,93	88,64
V2	81,14	89,46	92,68	263,28	87,76
Total A	161,50	179,46	188,25	529,21	-
Rata A	80,75	89,73	94,13	-	88,20

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} - \text{FK} \\ &= \frac{(161,50^2) + (179,46^2) + (188,25^2)}{3 \times 2} - 15559,07 \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 61,97$$

$$\begin{aligned} \text{JK Varietas (B)} &= \frac{(\text{Total Varietas (B)})^2}{\text{UL} \times \text{A}} - \text{FK} \\ &= \frac{(265,93^2) + (263,28^2)}{3 \times 3} - 15559,07 \end{aligned}$$

$$\text{JK Varietas (B)} = 0,39$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Kombinasi Perlakuan} - \text{JK Jarak Tanam} - \text{JK Varietas} \\ &= 63,52 - 61,97 - 0,39 \end{aligned}$$

$$\text{JK Interaksi AB} = 1,16$$

Tabel Sidik Ragam

SK	DB	JK	KT	Fhitung	Ftabel5%
Kelompok	2	13,82	6,91	6,104	4,10
Kombinasi JT dan V	5	63,52	12,70	11,223	3,33
JARAK TANAM	2	61,97	30,98	27,372	4,10
VARIETAS	1	0,39	0,39	0,345	4,96
INTERAKSI	2	1,16	0,58	0,514	4,10
Galat	10	11,32	1,13		
Total	17	88,66			

Koefisien Keragaman = 3,62 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{Ul} \times \text{LevelVarietas}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{Ul} \times \text{LevelVarietas}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 1,13}{3 \times 2}} \\ &= 1,39 \end{aligned}$$

Lampiran 3.b. Analisis Sidik Ragam Tinggi Tanaman 4 MST

Faktor A (Jarak Tanam)	Faktor B (Varietas)	Ulangan			Total AB	Rata AB
		1	2	3		
J1 (50 x 25 cm)	V1 (Bonanza)	51,89	52,22	50,56	154,67	51,56
	V2 (Talenta)	51,22	51,67	50,56	153,44	51,15
J2 (50 x 50 cm)	V1 (Bonanza)	54,00	52,00	52,60	158,60	52,87
	V2 (Talenta)	51,80	49,80	51,00	152,60	50,87
J3 (50 x 75 cm)	V1 (Bonanza)	53,25	54,00	53,25	160,50	53,50
	V2 (Talenta)	51,50	51,75	52,25	155,50	51,83
		313,66	311,44	310,21	935,31	51,96
	TK	TK1	TK2	TK3	TIJK	y _{IJK}

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{935,31^2}{3 \times 6} \\
 \text{FK} &= 48600,38 \\
 \text{JK Total} &= T(\bar{y}_{IJK}) - \text{FK} \\
 &= (51,89)^2 + (52,22)^2 + \dots + (52,25)^2 - 48600,38 \\
 \text{JK Total} &= 22,66 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{V}} - \text{FK} \\
 &= \frac{(313,66^2) + (311,44^2) + (310,21^2)}{3 \times 2} - 48600,38 \\
 \text{JK Kelompok} &= 1,02 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(154,67)^2 + (153,44)^2 + \dots + (155,50^2)}{3} - 48600,38 \\
 \text{JK Kombinasi Perlakuan} &= 15,68 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 22,66 - 1,02 - 15,68 \\
 \text{JK Galat} &= 5,96
 \end{aligned}$$

Faktor B (Varietas)	Faktor A (Jarak Tanam)			Total B	Rata B
	J1	J2	J3		
V1	154,67	158,60	160,50	473,77	157,92
V2	153,44	152,60	155,50	461,54	153,85
Total A	308,11	311,20	316,00	935,31	-
Rata A	154,06	155,60	158,00	-	155,89

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} - \text{FK} \\ &= \frac{(308,11^2) + (311,20^2) + (316,00^2)}{3 \times 2} - 48600,38 \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 5,27$$

$$\begin{aligned} \text{JK Varietas (B)} &= \frac{(\text{Total Varietas (B)})^2}{\text{UL} \times \text{A}} - \text{FK} \\ &= \frac{(473,77^2) + (461,54^2)}{3 \times 3} - 48600,38 \end{aligned}$$

$$\text{JK Varietas (B)} = 8,30$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Kombinasi Perlakuan} - \text{JK Jarak Tanam} - \text{JK Varietas} \\ &= 15,68 - 5,27 - 8,30 \end{aligned}$$

$$\text{JK Interaksi AB} = 2,12$$

Tabel Sidik Ragam

SK	DB	JK	KT	Fhitung	Ftabel5%
Kelompok	2	1,02	0,51	0,855	4,10
Kombinasi JT dan V	5	15,68	3,14	5,261	3,33
JARAK TANAM	2	5,27	2,63	4,418	4,10
VARIETAS	1	8,30	8,30	13,921	4,96
INTERAKSI	2	2,12	1,06	1,775	4,10
Galat	10	5,96	0,60		
Total	17	22,66			

Koefisien Keragaman = 1,49 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Varietas}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Varietas}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,60}{3 \times 2}} \\ &= 0,99 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Varietas)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Jarak Tanam}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Jarak Tanam}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,60}{3 \times 3}} \\ &= 0,81 \end{aligned}$$

Lampiran 3.c. Analisis Sidik Ragam Tinggi Tanaman 6 MST

Faktor A (Jarak Tanam)	Faktor B (Varietas)	Ulangan			Total AB	Rata AB
		1	2	3		
J1 (50 x 25 cm)	V1 (Bonanza)	133,11	135,56	125,22	393,89	131,30
	V2 (Talenta)	125,56	126,33	117,91	369,80	123,27
J2 (50 x 50 cm)	V1 (Bonanza)	146,20	158,80	150,80	455,80	151,93
	V2 (Talenta)	144,80	148,60	149,60	443,00	147,67
J3 (50 x 75 cm)	V1 (Bonanza)	166,75	164,75	166,25	497,75	165,92
	V2 (Talenta)	158,00	153,25	157,75	469,00	156,33
		874,42	887,29	867,53	2629,24	146,07
	TK	TK1	TK2	TK3	TIJK	\bar{y}_{IJK}

$$\begin{aligned}
 FK &= \frac{TIJK^2}{UL \times PERLAKUAN} \\
 &= \frac{2629,24^2}{3 \times 6} \\
 FK &= 384049,84 \\
 JK \text{ Total} &= T(\bar{y}_{IJK}) - FK \\
 &= (133,11)^2 + (135,56)^2 + \dots + (157,75)^2 - 384049,84 \\
 JK \text{ Total} &= 4035,47 \\
 JK \text{ Kelompok} &= \frac{TK^2}{J \times V} - FK \\
 &= \frac{(874,42^2) + (887,29^2) + (867,53^2)}{3 \times 2} - 384049,84 \\
 JK \text{ Kelompok} &= 33,52 \\
 JK \text{ Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{UL} - FK \\
 &= \frac{(393,89)^2 + (369,80)^2 + \dots + (469,00^2)}{3} - 384049,84 \\
 JK \text{ Kombinasi Perlakuan} &= 3823,23 \\
 JK \text{ Galat} &= JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan} \\
 &= 469,00 - 33,52 - 3823,23 \\
 JK \text{ Galat} &= 178,73
 \end{aligned}$$

Faktor B (Varietas)	Faktor A (Jarak Tanam)			Total B	Rata B
	J1	J2	J3		
V1	393,89	455,80	497,75	1347,44	449,15
V2	369,80	443,00	469,00	1281,80	427,27
Total A	763,69	898,80	966,75	2629,24	-
Rata A	381,84	449,40	483,38	-	438,21

$$\begin{aligned}
 \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} - \text{FK} \\
 &= \frac{(763,69^2) + (898,80^2) + (966,75^2)}{3 \times 2} - 384049,84 \\
 \text{JK Jarak Tanam (A)} &= 3561,45 \\
 \text{JK Varietas (B)} &= \frac{(\text{Total Varietas (B)})^2}{\text{UL} \times \text{A}} - \text{FK} \\
 &= \frac{(1347,44^2) + (1281,80^2)}{3 \times 3} - 384049,84 \\
 \text{JK Varietas (B)} &= 239,36 \\
 \text{JK Interaksi AB} &= \text{JK Kombinasi Perlakuan} - \text{JK Jarak Tanam} - \text{JK Varietas} \\
 &= 3823,23 - 3561,45 - 239,36 \\
 \text{JK Interaksi AB} &= 22,42
 \end{aligned}$$

Tabel Sidik Ragam

SK	DB	JK	KT	Fhitung	Ftabel5%
Kelompok	2	33,52	16,76	0,938	4,10
Kombinasi JT dan V	5	3823,23	764,65	42,783	3,33
JARAK TANAM	2	3561,45	1780,72	99,634	4,10
VARIETAS	1	239,36	239,36	13,392	4,96
INTERAKSI	2	22,42	11,21	0,627	4,10
Galat	10	178,73	17,87		
Total	17	4035,47			

Koefisien Keragaman = 2,89 %

$$\begin{aligned}
 \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Varietas}}} \\
 &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Varietas}}} \\
 &= 2,228 \times \sqrt{\frac{2 \times 17,87}{3 \times 2}} \\
 &= 5,44
 \end{aligned}$$

$$\begin{aligned}
 \text{Uji Lanjut BNT 5 \% (Varietas)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Jarak Tanam}}} \\
 &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Jarak Tanam}}} \\
 &= 2,228 \times \sqrt{\frac{2 \times 17,87}{3 \times 3}} \\
 &= 4,44
 \end{aligned}$$

Lampiran 3.d. Analisis Sidik Ragam Tinggi Tanaman 8 MST

Faktor A (Jarak Tanam)	Faktor B (Varietas)	Ulangan			Total AB	Rata AB
		1	2	3		
J1 (50 x 25 cm)	V1 (Bonanza)	160,89	159,00	161,33	481,22	160,41
	V2 (Talenta)	155,56	144,67	154,22	454,44	151,48
J2 (50 x 50 cm)	V1 (Bonanza)	168,00	167,20	164,20	499,40	166,47
	V2 (Talenta)	162,00	160,20	163,00	485,20	161,73
J3 (50 x 75 cm)	V1 (Bonanza)	174,00	170,75	172,25	517,00	172,33
	V2 (Talenta)	172,25	170,00	172,00	514,25	171,42
		992,69	971,82	987,01	2951,52	163,97
	TK	TK1	TK2	TK3	TIJK	y _{IJK}

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{2951,52^2}{3 \times 6} \\
 \text{FK} &= 483969,48 \\
 \text{JK Total} &= T(\bar{y}_{IJK}) - \text{FK} \\
 &= (160,89)^2 + (159,00)^2 + \dots + (172,00)^2 - 483969,48 \\
 \text{JK Total} &= 1009,88 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{V}} - \text{FK} \\
 &= \frac{(992,69^2) + (971,82^2) + (987,01^2)}{3 \times 2} - 483969,48 \\
 \text{JK Kelompok} &= 38,83 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(481,22)^2 + (454,44)^2 + \dots + (514,25^2)}{3} - 483969,48 \\
 \text{JK Kombinasi Perlakuan} &= 915,87 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 1009,88 - 38,83 - 915,87 \\
 \text{JK Galat} &= 55,18
 \end{aligned}$$

Faktor B (Varietas)	Faktor A (Jarak Tanam)			Total B	Rata B
	J1	J2	J3		
V1	481,22	499,40	517,00	1497,62	499,21
V2	454,44	485,20	514,25	1453,89	484,63
Total A	935,67	984,60	1031,25	2951,52	-
Rata A	467,83	492,30	515,63	-	491,92

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} - \text{FK} \\ &= \frac{(935,67^2) + (984,60^2) + (1031,25^2)}{3 \times 2} - 483969,48 \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 761,49$$

$$\begin{aligned} \text{JK Varietas (B)} &= \frac{(\text{Total Varietas (B)})^2}{\text{UL} \times \text{A}} - \text{FK} \\ &= \frac{(1497,62^2) + (1453,89^2)}{3 \times 3} - 483969,48 \end{aligned}$$

$$\text{JK Varietas (B)} = 106,23$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Kombinasi Perlakuan} - \text{JK Jarak Tanam} - \text{JK Varietas} \\ &= 63,52 - 61,97 - 0,39 \end{aligned}$$

$$\text{JK Interaksi AB} = 48,15$$

Tabel Sidik Ragam

SK	DB	JK	KT	Fhitung	Ftabel5%
Kelompok	2	38,83	19,42	3,519	4,10
Kombinasi JT dan V	5	915,87	183,17	33,197	3,33
JARAK TANAM	2	761,49	380,75	69,004	4,10
VARIETAS	1	106,23	106,23	19,252	4,96
INTERAKSI	2	48,15	24,07	4,363	4,10
Galat	10	55,18	5,52		
Total	17	1009,88			

$$\text{Koefisien Keragaman} = 1,43 \%$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \%} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{Ulangan}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{Ulangan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 5,52}{3}} \\ &= 4,273 \end{aligned}$$

Lampiran 4.a. Analisis Sidik Ragam Jumlah Daun² MST

Faktor A (Jarak Tanam)	Faktor B (Varietas)	Ulangan			Total AB	Rata AB
		1	2	3		
J1 (50 x 25 cm)	V1 (Bonanza)	3,56	3,44	3,67	10,67	3,56
	V2 (Talenta)	3,44	3,33	3,33	10,11	3,37
J2 (50 x 50 cm)	V1 (Bonanza)	3,20	3,80	3,80	10,80	3,60
	V2 (Talenta)	3,60	3,40	3,40	10,40	3,47
J3 (50 x 75 cm)	V1 (Bonanza)	4,00	4,00	4,25	12,25	4,08
	V2 (Talenta)	3,50	3,50	4,00	11,00	3,67
		21,30	21,48	22,45	65,23	3,62
	TK	TK1	TK2	TK3	TIJK	\bar{y}_{IJK}

$$\begin{aligned}
 FK &= \frac{TIJK^2}{UL \times PERLAKUAN} \\
 &= \frac{65,23^2}{3 \times 6} \\
 FK &= 236,37 \\
 JK \text{ Total} &= T(\bar{y}_{IJK}) - FK \\
 &= (3,56)^2 + (3,44)^2 + \dots + (4,00)^2 - 236,37 \\
 JK \text{ Total} &= 1,43 \\
 JK \text{ Kelompok} &= \frac{TK^2}{J \times V} - FK \\
 &= \frac{(21,30^2) + (21,48^2) + (22,45^2)}{3 \times 2} - 236,37 \\
 JK \text{ Kelompok} &= 0,13 \\
 JK \text{ Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{UL} - FK \\
 &= \frac{(10,67)^2 + (10,67)^2 + \dots + (11,00^2)}{3} - 236,37 \\
 JK \text{ Kombinasi Perlakuan} &= 0,92 \\
 JK \text{ Galat} &= JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan} \\
 &= 1,43 - 0,13 - 0,92 \\
 JK \text{ Galat} &= 0,38
 \end{aligned}$$

Faktor B (Varietas)	Faktor A (Jarak Tanam)			Total B	Rata B
	J1	J2	J3		
V1	10,67	10,80	12,25	33,72	11,24
V2	10,11	10,40	11,00	31,51	10,50
Total A	20,78	21,20	23,25	65,23	-
Rata A	10,39	10,60	11,63	-	10,87

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} - \text{FK} \\ &= \frac{(20,78^2) + (21,20^2) + (23,25^2)}{3 \times 2} - 236,37 \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 0,58$$

$$\begin{aligned} \text{JK Varietas (B)} &= \frac{(\text{Total Varietas (B)})^2}{\text{UL} \times \text{A}} - \text{FK} \\ &= \frac{(33,72^2) + (31,51^2)}{3 \times 3} - 236,37 \end{aligned}$$

$$\text{JK Varietas (B)} = 0,27$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Kombinasi Perlakuan} - \text{JK Jarak Tanam} - \text{JK Varietas} \\ &= 0,92 - 0,58 - 0,27 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,07$$

Tabel Sidik Ragam

SK	DB	JK	KT	Fhitung	Ftabel5%
Kelompok	2	0,13	0,06	1,680	4,10
Kombinasi JT dan V	5	0,92	0,18	4,847	3,33
JARAK TANAM	2	0,58	0,29	7,666	4,10
VARIETAS	1	0,27	0,27	7,108	4,96
INTERAKSI	2	0,07	0,03	0,898	4,10
Galat	10	0,38	0,04		
Total	17	1,43			

Koefisien Keragaman = 5,38 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{Ul} \times \text{LevelVarietas}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{Ul} \times \text{LevelVarietas}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,04}{3 \times 2}} \\ &= 0,25 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Varietas)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{Ul} \times \text{LevelJarak Tanam}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{Ul} \times \text{Jarak Tanam}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,04}{3 \times 3}} \\ &= 0,20 \end{aligned}$$

Lampiran 4.b. Analisis Sidik Ragam Jumlah Daun4 MST

Faktor A (Jarak Tanam)	Faktor B (Varietas)	Ulangan			Total AB	Rata AB
		1	2	3		
J1 (50 x 25 cm)	V1 (Bonanza)	6,33	6,67	4,78	17,78	5,93
	V2 (Talenta)	5,89	6,11	4,67	16,67	5,56
J2 (50 x 50 cm)	V1 (Bonanza)	6,80	6,40	5,60	18,80	6,27
	V2 (Talenta)	6,20	5,80	4,80	16,80	5,60
J3 (50 x 75 cm)	V1 (Bonanza)	6,75	6,75	5,50	19,00	6,33
	V2 (Talenta)	6,00	6,75	5,25	18,00	6,00
		37,97	38,48	30,59	107,04	5,95
	TK	TK1	TK2	TK3	TIJK	yIJK

$$\begin{aligned}
 FK &= \frac{TIJK^2}{UL \times PERLAKUAN} \\
 &= \frac{107,04^2}{3 \times 6} \\
 FK &= 636,58 \\
 JK \text{ Total} &= T(\bar{y}IJK) - FK \\
 &= (6,33)^2 + (6,67)^2 + \dots + (5,25)^2 - 636,58 \\
 JK \text{ Total} &= 8,78 \\
 JK \text{ Kelompok} &= \frac{TK^2}{J \times V} - FK \\
 &= \frac{(37,97^2) + (38,48^2) + (30,59^2)}{3 \times 2} - 636,58 \\
 JK \text{ Kelompok} &= 6,49 \\
 JK \text{ Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{UL} - FK \\
 &= \frac{(17,78)^2 + (16,67)^2 + \dots + (18,00^2)}{3} - 636,58 \\
 JK \text{ Kombinasi Perlakuan} &= 1,58 \\
 JK \text{ Galat} &= JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan} \\
 &= 8,78 - 6,49 - 1,58 \\
 JK \text{ Galat} &= 0,71
 \end{aligned}$$

Faktor B (Varietas)	Faktor A (Jarak Tanam)			Total B	Rata B
	J1	J2	J3		
V1	17,78	18,80	19,00	55,58	18,53
V2	16,67	16,80	18,00	51,47	17,16
Total A	34,44	35,60	37,00	107,04	-
Rata A	17,22	17,80	18,50	-	17,84

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} - \text{FK} \\ &= \frac{(34,44^2) + (35,60^2) + (37,00^2)}{3 \times 2} - 636,58 \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 0,55$$

$$\begin{aligned} \text{JK Varietas (B)} &= \frac{(\text{Total Varietas (B)})^2}{\text{UL} \times \text{A}} - \text{FK} \\ &= \frac{(55,58^2) + (51,47^2)}{3 \times 3} - 636,58 \end{aligned}$$

$$\text{JK Varietas (B)} = 0,94$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Kombinasi Perlakuan} - \text{JK Jarak Tanam} - \text{JK Varietas} \\ &= 1,58 - 0,55 - 0,94 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,10$$

Tabel Sidik Ragam

SK	DB	JK	KT	Fhitung	Ftabel5%
Kelompok	2	6,49	3,25	46,011	4,10
Kombinasi JT dan V	5	1,58	0,32	4,494	3,33
JARAK TANAM	2	0,55	0,27	3,870	4,10
VARIETAS	1	0,94	0,94	13,312	4,96
INTERAKSI	2	0,10	0,05	0,710	4,10
Galat	10	0,71	0,07		
Total	17	8,78			

Koefisien Keragaman = 4,47 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Varietas)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Jarak Tanam}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Jarak Tanam}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,07}{3 \times 3}} \\ &= 0,28 \end{aligned}$$

Lampiran 4.c. Analisis Sidik Ragam Jumlah Daun6 MST

Faktor A (Jarak Tanam)	Faktor B (Varietas)	Ulangan			Total AB	Rata AB
		1	2	3		
J1 (50 x 25 cm)	V1 (Bonanza)	8,11	8,22	8,11	24,44	8,15
	V2 (Talenta)	8,11	8,11	8,11	24,33	8,11
J2 (50 x 50 cm)	V1 (Bonanza)	8,20	8,60	8,60	25,40	8,47
	V2 (Talenta)	8,00	8,40	8,20	24,60	8,20
J3 (50 x 75 cm)	V1 (Bonanza)	9,00	9,00	9,00	27,00	9,00
	V2 (Talenta)	8,25	8,75	8,75	25,75	8,58
	TK	49,67	51,08	50,77	151,53	8,42
		TK1	TK2	TK3	TIJK	\bar{y}_{IJK}

$$\begin{aligned}
 FK &= \frac{TIJK^2}{UL \times PERLAKUAN} \\
 &= \frac{151,53^2}{3 \times 6} \\
 FK &= 1275,59 \\
 JK \text{ Total} &= T(\bar{y}_{IJK}) - FK \\
 &= (8,11)^2 + (8,22)^2 + \dots + (8,75)^2 - 1275,59 \\
 JK \text{ Total} &= 2,11 \\
 JK \text{ Kelompok} &= \frac{TK^2}{J \times V} - FK \\
 &= \frac{(49,67^2) + (51,08^2) + (50,77^2)}{3 \times 2} - 1275,59 \\
 JK \text{ Kelompok} &= 0,18 \\
 JK \text{ Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{UL} - FK \\
 &= \frac{(24,44)^2 + (24,33)^2 + \dots + (25,75^2)}{3} - 1275,59 \\
 JK \text{ Kombinasi Perlakuan} &= 1,75 \\
 JK \text{ Galat} &= JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan} \\
 &= 2,11 - 0,18 - 1,75 \\
 JK \text{ Galat} &= 0,18
 \end{aligned}$$

Faktor B (Varietas)	Faktor A (Jarak Tanam)			Total B	Rata B
	J1	J2	J3		
V1	24,44	25,40	27,00	76,84	25,61
V2	24,33	24,60	25,75	74,68	24,89
Total A	48,78	50,00	52,75	151,53	-
Rata A	24,39	25,00	26,38	-	25,25

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} - \text{FK} \\ &= \frac{(48,78^2) + (50,00^2) + (52,75^2)}{3 \times 2} - 1275,59 \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 1,38$$

$$\begin{aligned} \text{JK Varietas (B)} &= \frac{(\text{Total Varietas (B)})^2}{\text{UL} \times \text{A}} - \text{FK} \\ &= \frac{(76,84^2) + (74,68^2)}{3 \times 3} - 1275,59 \end{aligned}$$

$$\text{JK Varietas (B)} = 0,26$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Kombinasi Perlakuan} - \text{JK Jarak Tanam} - \text{JK Varietas} \\ &= 1,75 - 1,38 - 0,26 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,11$$

Tabel Sidik Ragam

SK	DB	JK	KT	Fhitung	Ftabel5%
Kelompok	2	0,18	0,09	5,137	4,10
Kombinasi JT dan V	5	1,75	0,35	19,613	3,33
JARAK TANAM	2	1,38	0,69	38,682	4,10
VARIETAS	1	0,26	0,26	14,549	4,96
INTERAKSI	2	0,11	0,05	3,075	4,10
Galat	10	0,18	0,02		
Total	17	2,11			

Koefisien Keragaman = 1,59 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{UL} \times \text{LevelVarietas}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{UL} \times \text{LevelVarietas}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,02}{3 \times 2}} \\ &= 0,17 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Varietas)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{UL} \times \text{LevelJarak Tanam}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{UL} \times \text{Jarak Tanam}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,02}{3 \times 3}} \\ &= 0,14 \end{aligned}$$

Lampiran 4.d. Analisis Sidik Ragam Jumlah Daun8 MST

Faktor A (Jarak Tanam)	Faktor B (Varietas)	Ulangan			Total AB	Rata AB
		1	2	3		
J1 (50 x 25 cm)	V1 (Bonanza)	11,11	10,67	10,89	32,67	10,89
	V2 (Talenta)	10,67	10,22	10,33	31,22	10,41
J2 (50 x 50 cm)	V1 (Bonanza)	11,20	11,20	11,00	33,40	11,13
	V2 (Talenta)	10,60	10,40	11,00	32,00	10,67
J3 (50 x 75 cm)	V1 (Bonanza)	11,75	12,00	12,00	35,75	11,92
	V2 (Talenta)	11,50	11,50	11,75	34,75	11,58
		66,83	65,99	66,97	199,79	11,10
	TK	TK1	TK2	TK3	TIJK	\bar{y}_{IJK}

$$\begin{aligned}
 FK &= \frac{TIJK^2}{UL \times PERLAKUAN} \\
 &= \frac{199,79^2}{3 \times 6} \\
 FK &= 2217,53 \\
 JK \text{ Total} &= T(\bar{y}_{IJK}) - FK \\
 &= (11,11)^2 + (10,67)^2 + \dots + (11,75)^2 - 2217,53 \\
 JK \text{ Total} &= 5,34 \\
 JK \text{ Kelompok} &= \frac{TK^2}{J \times V} - FK \\
 &= \frac{(66,83^2) + (65,99^2) + (66,97^2)}{3 \times 2} - 2217,53 \\
 JK \text{ Kelompok} &= 0,09 \\
 JK \text{ Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{UL} - FK \\
 &= \frac{(32,67)^2 + (31,22)^2 + \dots + (34,75^2)}{3} - 2217,53 \\
 JK \text{ Kombinasi Perlakuan} &= 4,84 \\
 JK \text{ Galat} &= JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan} \\
 &= 5,34 - 0,09 - 4,84 \\
 JK \text{ Galat} &= 0,41
 \end{aligned}$$

Faktor B (Varietas)	Faktor A (Jarak Tanam)			Total B	Rata B
	J1	J2	J3		
V1	32,67	33,40	35,75	101,82	33,94
V2	31,22	32,00	34,75	97,97	32,66
Total A	63,89	65,40	70,50	199,79	-
Rata A	31,94	32,70	35,25	-	33,30

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} - \text{FK} \\ &= \frac{(63,89^2) + (65,40^2) + (70,50^2)}{3 \times 2} - 2217,53 \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 4,00$$

$$\begin{aligned} \text{JK Varietas (B)} &= \frac{(\text{Total Varietas (B)})^2}{\text{UL} \times \text{A}} - \text{FK} \\ &= \frac{(101,82^2) + (97,97^2)}{3 \times 3} - 2217,53 \end{aligned}$$

$$\text{JK Varietas (B)} = 0,82$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Kombinasi Perlakuan} - \text{JK Jarak Tanam} - \text{JK Varietas} \\ &= 4,84 - 4,00 - 0,82 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,02$$

Tabel Sidik Ragam

SK	DB	JK	KT	Fhitung	Ftabel5%
Kelompok	2	0,09	0,05	1,150	4,10
Kombinasi JT dan V	5	4,84	0,97	23,704	3,33
JARAK TANAM	2	4,00	2,00	48,965	4,10
VARIETAS	1	0,82	0,82	20,103	4,96
INTERAKSI	2	0,02	0,01	0,244	4,10
Galat	10	0,41	0,04		
Total	17	5,34			

Koefisien Keragaman = 1,82 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{UL} \times \text{LevelVarietas}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{UL} \times \text{LevelVarietas}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,04}{3 \times 2}} \\ &= 0,26 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Varietas)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{UL} \times \text{LevelJarak Tanam}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{UL} \times \text{Jarak Tanam}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,04}{3 \times 3}} \\ &= 0,21 \end{aligned}$$

Lampiran 5. Analisis Sidik Ragam Panjang Tongkol Per Tanaman

Faktor A (Jarak Tanam)	Faktor B (Varietas)	Ulangan			Total AB	Rata AB
		1	2	3		
J1 (50 x 25 cm)	V1 (Bonanza)	18,73	19,00	18,96	56,69	18,90
	V2 (Talenta)	17,94	18,58	18,84	55,37	18,46
J2 (50 x 50 cm)	V1 (Bonanza)	19,28	19,20	18,40	56,88	18,96
	V2 (Talenta)	19,14	19,16	18,36	56,66	18,89
J3 (50 x 75 cm)	V1 (Bonanza)	19,63	20,28	18,85	58,75	19,58
	V2 (Talenta)	19,03	20,05	18,50	57,58	19,19
		113,75	116,26	111,91	341,92	19,00
	TK	TK1	TK2	TK3	TIJK	\bar{y}_{IJK}

$$\begin{aligned}
 FK &= \frac{TIJK^2}{UL \times PERLAKUAN} \\
 &= \frac{341,92^2}{3 \times 6} \\
 FK &= 6494,98 \\
 JK \text{ Total} &= T(\bar{y}_{IJK}) - FK \\
 &= (18,73)^2 + (19,00)^2 + \dots + (18,50)^2 - 6494,98 \\
 JK \text{ Total} &= 5,71 \\
 JK \text{ Kelompok} &= \frac{TK^2}{J \times V} - FK \\
 &= \frac{(113,75^2) + (116,26^2) + (111,91^2)}{3 \times 2} - 6494,98 \\
 JK \text{ Kelompok} &= 1,59 \\
 JK \text{ Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{UL} - FK \\
 &= \frac{(56,69)^2 + (55,37)^2 + \dots + (57,58^2)}{3} - 6494,98 \\
 JK \text{ Kombinasi Perlakuan} &= 2,10 \\
 JK \text{ Galat} &= JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan} \\
 &= 5,71 - 1,59 - 2,10 \\
 JK \text{ Galat} &= 2,03
 \end{aligned}$$

Faktor B (Varietas)	Faktor A (Jarak Tanam)			Total B	Rata B
	J1	J2	J3		
V1	56,69	56,88	58,75	172,32	57,44
V2	55,37	56,66	57,58	169,60	56,53
Total A	112,06	113,54	116,33	341,92	-
Rata A	56,03	56,77	58,16	-	56,99

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} - \text{FK} \\ &= \frac{(112,06^2) + (113,54^2) + (116,33^2)}{3 \times 2} - 6494,98 \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 1,57$$

$$\begin{aligned} \text{JK Varietas (B)} &= \frac{(\text{Total Varietas (B)})^2}{\text{UL} \times \text{A}} - \text{FK} \\ &= \frac{(172,32^2) + (169,60^2)}{3 \times 3} - 6494,98 \end{aligned}$$

$$\text{JK Varietas (B)} = 0,41$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Kombinasi Perlakuan} - \text{JK Jarak Tanam} - \text{JK Varietas} \\ &= 2,10 - 1,57 - 0,41 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,12$$

Tabel Sidik Ragam

SK	DB	JK	KT	Fhitung	Ftabel5%
Kelompok	2	1,59	0,80	3,925	4,10
Kombinasi JT dan V	5	2,10	0,42	2,067	3,33
JARAK TANAM	2	1,57	0,78	3,862	4,10
VARIETAS	1	0,41	0,41	2,023	4,96
INTERAKSI	2	0,12	0,06	0,294	4,10
Galat	10	2,03	0,20		
Total	17	5,71			

Koefisien Keragaman = 2,37 %

Lampiran 6. Analisis Sidik Ragam Berat Tongkol Per Tanaman

Faktor A (Jarak Tanam)	Faktor B (Varietas)	Ulangan			Total AB	Rata AB
		1	2	3		
J1 (50 x 25 cm)	V1 (Bonanza)	102,44	102,33	100,22	304,99	101,66
	V2 (Talenta)	100,32	100,57	100,22	301,11	100,37
J2 (50 x 50 cm)	V1 (Bonanza)	102,60	103,80	100,20	306,60	102,20
	V2 (Talenta)	102,00	102,20	100,20	304,40	101,47
J3 (50 x 75 cm)	V1 (Bonanza)	103,00	106,75	101,50	311,25	103,75
	V2 (Talenta)	100,25	106,25	100,00	306,50	102,17
	TK	610,61	621,90	602,34	1834,85	101,94
		TK1	TK2	TK3	TIJK	\bar{y}_{IJK}

$$\begin{aligned}
 FK &= \frac{TIJK^2}{UL \times PERLAKUAN} \\
 &= \frac{1834,85^2}{3 \times 6} \\
 FK &= 187038,32 \\
 JK \text{ Total} &= T(\bar{y}_{IJK}) - FK \\
 &= (102,44)^2 + (102,33)^2 + \dots + (100,00)^2 - 187038,32 \\
 JK \text{ Total} &= 70,48 \\
 JK \text{ Kelompok} &= \frac{TK^2}{J \times V} - FK \\
 &= \frac{(610,61^2) + (621,90^2) + (602,34^2)}{3 \times 2} - 187038,32 \\
 JK \text{ Kelompok} &= 32,12 \\
 JK \text{ Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{UL} - FK \\
 &= \frac{(304,99)^2 + (301,11)^2 + \dots + (306,50^2)}{3} - 187038,32 \\
 JK \text{ Kombinasi Perlakuan} &= 18,48 \\
 JK \text{ Galat} &= JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan} \\
 &= 70,48 - 32,12 - 18,48 \\
 JK \text{ Galat} &= 19,88
 \end{aligned}$$

Faktor B (Varietas)	Faktor A (Jarak Tanam)			Total B	Rata B
	J1	J2	J3		
V1	304,99	306,60	311,25	922,84	307,61
V2	301,11	304,40	306,50	912,01	304,00
Total A	606,10	611,00	617,75	1834,85	-
Rata A	303,05	305,50	308,88	-	305,81

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} - \text{FK} \\ &= \frac{(606,10^2) + (611,00^2) + (617,75^2)}{3 \times 2} - 187038,32 \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 11,40$$

$$\begin{aligned} \text{JK Varietas (B)} &= \frac{(\text{Total Varietas (B)})^2}{\text{UL} \times \text{A}} - \text{FK} \\ &= \frac{(922,84^2) + (912,01^2)}{3 \times 3} - 187038,32 \end{aligned}$$

$$\text{JK Varietas (B)} = 6,52$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Kombinasi Perlakuan} - \text{JK Jarak Tanam} - \text{JK Varietas} \\ &= 18,48 - 11,40 - 6,52 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,56$$

Tabel Sidik Ragam

SK	DB	JK	KT	Fhitung	Ftabel5%
Kelompok	2	32,12	16,06	8,080	4,10
Kombinasi JT dan V	5	18,48	3,70	1,859	3,33
JARAK TANAM	2	11,40	5,70	2,867	4,10
VARIETAS	1	6,52	6,52	3,279	4,96
INTERAKSI	2	0,56	0,28	0,141	4,10
Galat	10	19,88	1,99		
Total	17	70,48			

Koefisien Keragaman = 1,38 %

Lampiran 7. Gambar

1. Pengolahan Tanah



2. Pembuatan Plot/bedengan



3. Pengamatan Tanaman 2 MST



4. Pengamatan Tinggi Tanaman 4 MST



5. Pengamatan Tinggi Tanaman 6 MST



6. Pengamatan Tinggi Tanaman 8 MST



7. Keadaan Tanaman Saat Panen



8. Pengukuran Panjang dan Berat Tongkol

9. Label Varietas

