

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berdasarkan hasil penelitian disimpulkan bahwa terdapat pengaruh interval waktu pemberian air terhadap pertumbuhan tinggi tanaman jumlah daun berat basah dan berat akar dan hasil tanaman kangkung darat.

Waktu pemberian air 2 hari sekali, memberikan hasil terbaik terhadap pertumbuhan dan hasil tanaman kangkung darat dari segi waktu, tenaga, dan air.

5.2 Saran

Berdasarkan kesimpulan di atas disarankan bagi petani khususnya budidaya kangkung darat agar dapat meningkatkan pengetahuan dalam teknik perawatan tanaman kangkung darat khususnya yang berhubungan dengan interval waktu pemberian air sehingga produksi panen tanaman kangkung dapat memberikan hasil sesuai yang diharapkan.

Disarankan pula bagi pemerintah setempat khususnya dalam Pertanian desa dapat merekomendasikan penelitian dalam kegiatan-kegiatan penyuluhan bagi petani khususnya petani kangkung sehingga dapat meningkatkan hasil produksi sayur serta meningfaktakan pendapat ekonomi bagi petani menuju masyarakat yang sejahtera.

DAFTAR PUSTAKA

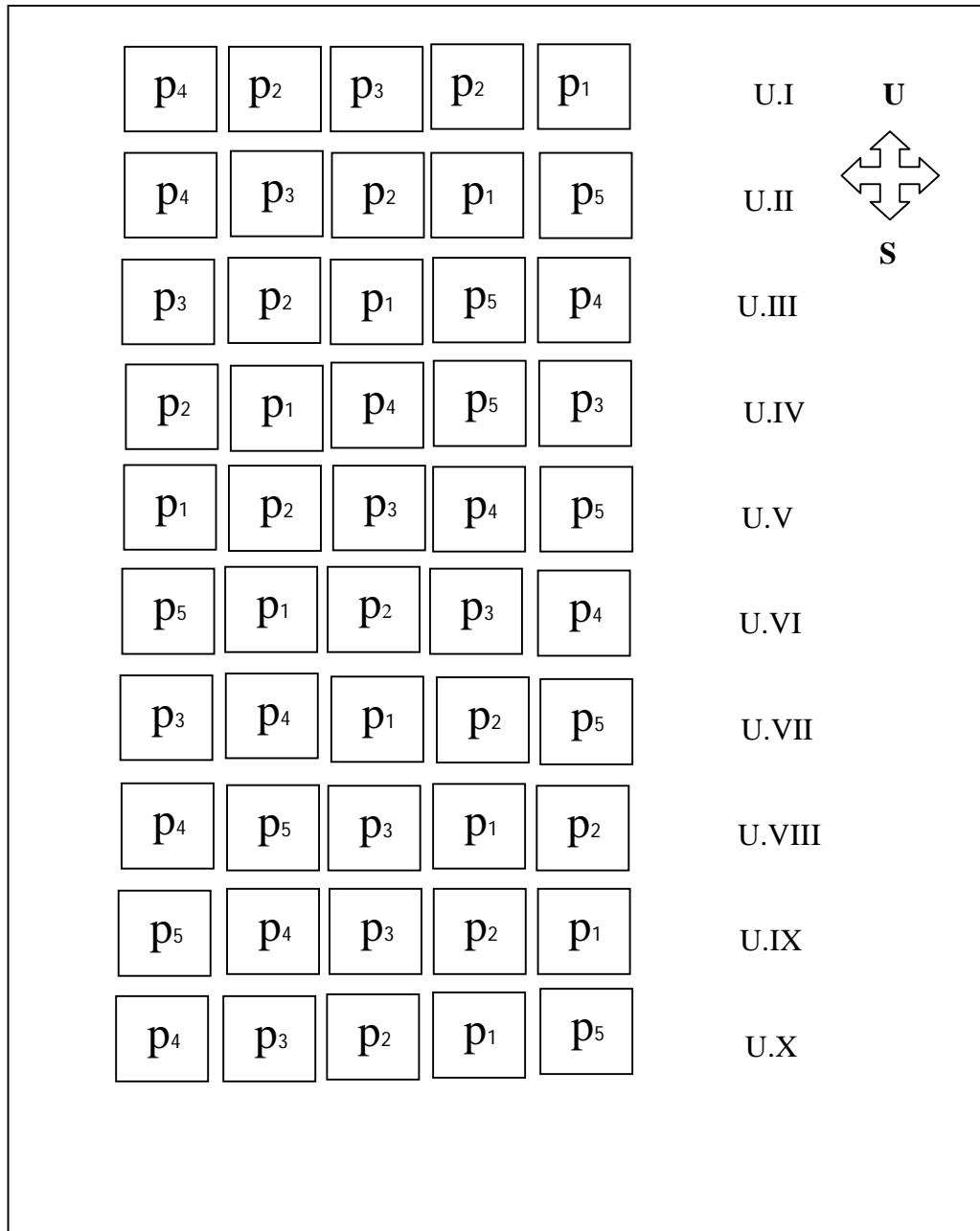
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Lampiran 1. Deskripsi Varietas**DESKRIPSI KANGKUNG DARAT
VARIETAS BANGKOK LP1**

Asal	: PT. East West Seed Indonesia
Golongan varietas	: Hibrida
Umur Panen	: 25 – 30 Hari
Potensi Hasil	: 25 – 30 ton/ha
Wilayah Adaptasi	: Beradaptasi pada dataran rendah
Warna Daun	: Hijau
Warna Batang	: Hijau
Kemurnian Benih	: 97 %

Lampiran 2. Lay Out Penelitian



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

PERLAKUAN	ULANGAN										TOTAL.P	RATA
	1	2	3	4	5	6	7	8	9	10		
P1	20,3	21,2	18,0	23,0	22,8	21,3	21,0	20,5	24,4	22,1	214,56	21,46
P2	21,5	21,8	21,4	21,0	29,1	20,0	23,0	23,3	18,3	18,4	217,80	21,78
P3	21,4	20,5	23,3	23,2	19,0	25,0	19,2	20,0	20,0	20,0	211,60	21,16
P4	18,3	20,4	23,1	18,3	24,2	21,0	19,3	20,0	20,0	20,0	204,60	20,46
P5	19,4	19,3	18,0	20,0	23,0	20,0	24,0	17,4	21,0	21,0	203,10	20,31
	100,90	103,20	103,80	105,50	118,06	107,30	106,50	101,20	103,70	101,50	1051,66	21,03
TK	TK1	TK2	TK3	TK4	TK5	TK6	TK7	TK8	TK9	TK10	TIJK	Ŷijk

A. Menghitung FK

$$\begin{aligned}
 FK &= \frac{T_{ijk}^2}{\text{Ulangan} \times \text{Perlakuan}} \\
 &= \frac{1051,66^2}{10 \times 5} \\
 FK &= 22119,78
 \end{aligned}$$

B. Menghitung JK_{Total}

$$\begin{aligned}
 JK \text{ Total} &= T(Y \text{ IJK}^2) - FK \\
 &= (20,3)^2 + (21,2)^2 + (18,0)^2 + \dots + (21,0)^2 - 22119,78 \\
 JK \text{ Total} &= \mathbf{235,35}
 \end{aligned}$$

C. Menghitung JK_{Kelompok}

$$\begin{aligned}
 JK \text{ Kelompok} &= \frac{TK^2}{\text{Perlakuan}} - FK \\
 &= \frac{(100,90)^2 + (103,20)^2 + (103,80)^2 + \dots + (101,50)^2}{5} - 22119,78
 \end{aligned}$$

$$JK \text{ Kelompok} = \mathbf{45,58961}$$

D. Menghitung JK_{Perlakuan}

$$\begin{aligned}
 JK \text{ Perlakuan} &= \frac{\text{Jumlah Perlakuan}^2}{\text{Ulangan}} - FK \\
 &= \frac{(214,56)^2 + (217,80)^2 + (211,60)^2 + \dots + (203,10)^2}{10} - 22119,78
 \end{aligned}$$

$$JK \text{ Perlakuan} = \mathbf{16,0412}$$

E. Menghitung JK_{Galat}

$$\begin{aligned}
 JK_{Galat} &= JK_{Total} - JK_{Kelompok} - JK_{Perlakuan} \\
 &= 235,35 - 45,58961 - 16,0412 \\
 JK_{Galat} &= \mathbf{173,7216}
 \end{aligned}$$

Analisis of Variance (ANOVA) Tinggi Tanaman

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	9	45,590	5,066	1,050	2,15
PERLAKUAN	4	16,041	4,010	0,831	2,63
GALAT	36	173,722	4,826		
TOTAL	49	235,352			

$$\mathbf{F. \quad KT_{Perlakuan}} = \frac{JK_{Perlakuan}}{DB_{Perlakuan}} = \frac{16,0412}{4}$$

$$= \mathbf{4,0103}$$

$$\mathbf{G. \quad KT_{Galat}} = \frac{JK_{Galat}}{DB_{Galat}} = \frac{173,7216}{36}$$

$$= \mathbf{4,8256}$$

$$\mathbf{H. \quad F\text{-hitung perlakuan}} = \frac{KT_{Perlakuan}}{KT_{Galat}} = \frac{4,0103}{4,8256}$$

$$= \mathbf{0,8310}$$

Lampiran 3. B. Analisis Sidik Ragam Tinggi Tanaman 3 MST

PERLAKUAN	ULANGAN										TOTAL.P	RATA
	1	2	3	4	5	6	7	8	9	10		
P1	29,0	31,9	32,2	33,4	30,0	32,0	32,0	34,8	30,0	32,0	317,27	31,73
P2	37,3	32,0	36,4	37,4	35,0	34,0	33,5	32,0	36,0	33,0	346,60	34,66
P3	28,3	26,4	30,4	32,4	33,0	36,0	30,0	30,0	33,0	33,0	312,50	31,25
P4	23,0	28,0	25,4	27,0	26,0	29,0	29,5	28,0	26,0	33,2	275,10	27,51
P5	25,4	26,0	26,4	27,4	24,5	27,6	28,5	23,4	28,3	35,0	272,50	27,25
	143,00	144,27	150,80	157,60	148,50	158,60	153,50	148,20	153,30	166,20	1523,97	30,48
TK	TK1	TK2	TK3	TK4	TK5	TK6	TK7	TK8	TK9	TK10	TIJK	Ŷijk

A. Menghitung FK

$$\begin{aligned}
 FK &= \frac{T_{ijk}^2}{\text{Ulangan} \times \text{Perlakuan}} \\
 &= \frac{1523,97^2}{10 \times 5} \\
 FK &= 46449,69
 \end{aligned}$$

B. Menghitung JK_{Total}

$$\begin{aligned}
 JK \text{ Total} &= T(Y \text{ IJK}^2) - FK \\
 &= (29,0)^2 + (31,9)^2 + (32,2)^2 + \dots + (28,3)^2 - 46449,69 \\
 JK \text{ Total} &= \mathbf{681,72}
 \end{aligned}$$

C. Menghitung JK_{Kelompok}

$$\begin{aligned}
 JK \text{ Kelompok} &= \frac{TK^2}{\text{Perlakuan}} - FK \\
 &= \frac{(143,00)^2 + (144,27)^2 + (150,80)^2 + \dots + (166,20)^2}{5} - 46449,69 \\
 JK \text{ Kelompok} &= \mathbf{89,56136}
 \end{aligned}$$

D. Menghitung JK_{Perlakuan}

$$\begin{aligned}
 JK \text{ Perlakuan} &= \frac{\text{Jumlah Perlakuan}^2}{\text{Ulangan}} - FK \\
 &= \frac{(317,27)^2 + (346,60)^2 + (312,50)^2 + \dots + (272,50)^2}{10} - 46449,69 \\
 JK \text{ Perlakuan} &= \mathbf{388,7411}
 \end{aligned}$$

E. Menghitung JK_{Galat}

$$\begin{aligned}
 JK_{Galat} &= JK_{Total} - JK_{Kelompok} - JK_{Perlakuan} \\
 &= 681,72 - 89,56136 - 388,7411 \\
 JK_{Galat} &= \mathbf{203,4132}
 \end{aligned}$$

Analisis of Variance (ANOVA) Tinggi Tanaman

SK	DERAJA T BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	9	89,561	9,951	1,761	2,15
PERLAKUAN	4	388,741	97,185	17,200	2,63
GALAT	36	203,413	5,650		
TOTAL	49	681,716			

$$\text{F. } KT_{Perlakuan} = \frac{JK_{Perlakuan}}{DB_{Perlakuan}} = \frac{388,741}{4}$$

$$= \mathbf{97,185}$$

$$\text{G. } KT_{Galat} = \frac{JK_{Galat}}{DB_{Galat}} = \frac{203,413}{36}$$

$$= \mathbf{5,650}$$

$$\text{H. } F\text{-hitung perlakuan} = \frac{KT_{Perlakuan}}{KT_{Galat}} = \frac{97,185}{56,650}$$

$$= \mathbf{17,200}$$

$$\text{I. Koefisien Keragaman} = \frac{\sqrt{KT_{Galat}}}{y} \times 100\%$$

$$= \frac{\sqrt{5,650}}{30,48} \times 100\%$$

$$= \mathbf{7,80}$$

$$\text{J. Uji BNT 5\%} = t_{\alpha}(v) \times \sqrt{\frac{2 \times KT_{Galat}}{Ulangan}}$$

$$= t_{0.05}(36) \times \sqrt{\frac{2 \times 5,650}{10}}$$

$$= 2.042 \times \sqrt{\frac{2 \times 5,650}{10}}$$

$$= \mathbf{2,171}$$

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

PERLAKUAN	ULANGAN										TOTAL.P	RATA
	1	2	3	4	5	6	7	8	9	10		
P1	44,0	44,0	41,0	41,0	47,0	47,0	39,7	37,6	42,0	44,0	427,30	42,73
P2	41,0	49,0	39,0	51,0	43,0	56,0	49,0	37,0	54,0	48,0	467,00	46,70
P3	41,0	39,0	38,6	38,0	44,0	39,4	42,0	39,0	37,0	41,0	399,00	39,90
P4	33,0	39,0	32,8	31,5	36,4	35,0	29,5	36,0	35,0	47,0	355,20	35,52
P5	29,0	31,4	35,0	33,4	37,5	29,6	29,0	31,0	36,0	44,0	335,90	33,59
	188,00	202,40	186,40	194,90	207,90	207,00	189,20	180,60	204,00	224,00	1984,40	39,69
TK	TK1	TK2	TK3	TK4	TK5	TK6	TK7	TK8	TK9	TK10	TIJK	Ŷijk

A. Menghitung FK

$$\begin{aligned}
 FK &= \frac{T_{ijk}^2}{\text{Ulangan} \times \text{Perlakuan}} \\
 &= \frac{1984,40^2}{10 \times 5} \\
 FK &= 78756,87
 \end{aligned}$$

B. Menghitung JK_{Total}

$$\begin{aligned}
 JK \text{ Total} &= T(Y IJK^2) - FK \\
 &= (44,0)^2 + (44,0)^2 + (41,0)^2 + \dots + (44,0)^2 - 78756,87 \\
 JK \text{ Total} &= 2035,53
 \end{aligned}$$

C. Menghitung JK_{Kelompok}

$$\begin{aligned}
 JK \text{ Kelompok} &= \frac{TK^2}{\text{Perlakuan}} - FK \\
 &= \frac{(188,00)^2 + (202,40)^2 + (186,40)^2 + \dots + (224,00)^2}{5} - 78756,87
 \end{aligned}$$

$$JK \text{ Kelompok} = 306,56080$$

D. Menghitung JK_{Perlakuan}

$$\begin{aligned}
 JK \text{ Perlakuan} &= \frac{\text{Jumlah Perlakuan}^2}{\text{Ulangan}} - FK \\
 &= \frac{(427,30)^2 + (467,00)^2 + (399,00)^2 + \dots + (335,90)^2}{10} - 78756,87
 \end{aligned}$$

$$JK \text{ Perlakuan} = 1130,2468$$

E. Menghitung JK_{Galat}

$$\begin{aligned}
 JK_{Galat} &= JK_{Total} - JK_{Kelompok} - JK_{Perlakuan} \\
 &= 2035,53 - 306,56080 - 1130,2468 \\
 JK_{Galat} &= \mathbf{598,7252}
 \end{aligned}$$

Analisis of Variance (ANOVA) Tinggi Tanaman

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	9	345,973	38,441	2,311	2,15
PERLAKUAN	4	1130,247	282,562	16,990	2,63
GALAT	36	598,725	16,631		
TOTAL	49	2074,945			

$$\begin{aligned}
 \text{F. } KT_{Perlakuan} &= \frac{JK_{Perlakuan}}{DB_{Perlakuan}} = \frac{1130,2468}{4} \\
 &= \mathbf{282,5617}
 \end{aligned}$$

$$\begin{aligned}
 \text{G. } KT_{Galat} &= \frac{JK_{Galat}}{DB_{Galat}} = \frac{598,7252}{36} \\
 &= \mathbf{16,64}
 \end{aligned}$$

$$\begin{aligned}
 \text{H. F-hitung perlakuan} &= \frac{KT_{Perlakuan}}{KT_{Galat}} = \frac{282,5617}{16,64} \\
 &= \mathbf{16,99}
 \end{aligned}$$

$$\begin{aligned}
 \text{I. Koefisien Keragaman} &= \frac{\sqrt{KT_{Galat}}}{y} \times 100\% \\
 &= \frac{\sqrt{16,64}}{39,69} \times 100\% \\
 &= \mathbf{10,28}
 \end{aligned}$$

$$\begin{aligned}
 \text{J. Uji BNT 5\%} &= t_{\alpha}(v) \times \sqrt{\frac{2 \times KT_{Galat}}{Ulangan}} \\
 &= t_{0.05}(36) \times \sqrt{\frac{2 \times 16,64}{10}} \\
 &= 2.042 \times \sqrt{\frac{2 \times 16,64}{10}} \\
 &= \mathbf{3,724}
 \end{aligned}$$

Lampiran 3. D. Analisis Sidik Ragam Tinggi Tanaman 5 MST

PERLAKUAN	ULANGAN										TOTAL.P	RATA
	1	2	3	4	5	6	7	8	9	10		
P1	52,0	46,0	51,0	44,0	52,0	48,0	52,0	47,0	51,0	49,0	492,00	49,20
P2	53,0	53,0	52,0	53,0	53,0	61,0	52,0	50,0	49,0	49,0	525,00	52,50
P3	37,0	43,0	48,0	41,0	47,0	38,0	44,0	41,0	42,0	44,0	425,00	42,50
P4	36,0	42,0	45,0	48,0	38,5	38,0	37,0	34,0	40,6	53,0	412,10	41,21
P5	36,0	39,0	42,0	40,0	34,0	36,0	34,5	38,0	42,0	52,0	393,50	39,35
	214,00	223,00	238,00	226,00	224,50	221,00	219,50	210,00	224,60	247,00	2247,60	44,95
TK	TK1	TK2	TK3	TK4	TK5	TK6	TK7	TK8	TK9	TK10	TIJK	Ŷijk

A. Menghitung FK

$$\begin{aligned}
 FK &= \frac{T_{ijk}^2}{\text{Ulangan} \times \text{Perlakuan}} \\
 &= \frac{2247,60^2}{10 \times 5} \\
 FK &= 101034,12
 \end{aligned}$$

B. Menghitung JK_{Total}

$$\begin{aligned}
 JK \text{ Total} &= T(Y IJK^2) - FK \\
 &= (52,0)^2 + (46,0)^2 + (51,0)^2 + \dots + (52,0)^2 - 101034,12 \\
 JK \text{ Total} &= \mathbf{2118,74}
 \end{aligned}$$

C. Menghitung JK_{Kelompok}

$$\begin{aligned}
 JK \text{ Kelompok} &= \frac{TK^2}{\text{Perlakuan}} - FK \\
 &= \frac{(214,00)^2 + (223,00)^2 + (238,00)^2 + \dots + (247,00)^2}{5} - 101034,12
 \end{aligned}$$

$$JK \text{ Kelompok} = \mathbf{210,01680}$$

D. Menghitung JK_{Perlakuan}

$$\begin{aligned}
 JK \text{ Perlakuan} &= \frac{\text{Jumlah Perlakuan}^2}{\text{Ulangan}} - FK \\
 &= \frac{(492,00)^2 + (452,00)^2 + (425,00)^2 + \dots + (393,50)^2}{10} - 101034,12
 \end{aligned}$$

$$JK \text{ Perlakuan} = \mathbf{1264,1508}$$

E. Menghitung JK_{Galat}

$$\begin{aligned}
 JK_{Galat} &= JK_{Total} - JK_{Kelompok} - JK_{Perlakuan} \\
 &= 2118,74 - 210,01680 - 1264,1508 \\
 JK_{Galat} &= \mathbf{644,5772}
 \end{aligned}$$

Analisis of Variance (ANOVA) Tinggi Tanaman

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	9	616,720	68,524	3,827	2,15
PERLAKUAN	4	1264,151	316,038	17,651	2,63
GALAT	36	644,577	17,905		
TOTAL	49	2525,448			

$$\text{F. } KT_{Perlakuan} = \frac{JK_{Perlakuan}}{DB_{Perlakuan}} = \frac{1264,1508}{4}$$

$$= \mathbf{316,04}$$

$$\text{G. } KT_{Galat} = \frac{JK_{Galat}}{DB_{Galat}} = \frac{644,5772}{36}$$

$$= \mathbf{17,91}$$

$$\text{H. } F - \text{Hitung Perlakuan} = \frac{KT_{Perlakuan}}{KT_{Galat}} = \frac{316,04}{17,91}$$

$$= \mathbf{17,65}$$

$$\text{I. Koefisien Keragaman} = \frac{\sqrt{KT_{Galat}}}{y} \times 100\%$$

$$= \frac{\sqrt{17,91}}{44,95} \times 100\%$$

$$= \mathbf{9,41}$$

$$\text{J. Uji BNT 5\%} = t_{\alpha}(v) \times \sqrt{\frac{2 \times KT_{Galat}}{Ulangan}}$$

$$= t_{0.05}(36) \times \sqrt{\frac{2 \times 17,91}{10}}$$

$$= 2.042 \times \sqrt{\frac{2 \times 17,91}{10}}$$

$$= \mathbf{3,864}$$

Lampiran 4. A. Analisis Sidik Ragam Jumlah Daun 2 MST

PERLAKUAN	ULANGAN										T.P	R.R
	1	2	3	4	5	6	7	8	9	10		
P1	8	7	8	9	8	11	8	8	9	9	85,00	8,50
P2	9	8	8	12	9	8	9	10	8	8	89,00	8,90
P3	8	7	9	7	9	7	8	9	9	9	82,00	8,20
P4	8	9	8	8	9	8	9	9	4	7	79,00	7,90
P5	4	7	8	9	6	7	8	9	7	7	72,00	7,20
	37,00	38,00	41,00	45,00	41,00	41,00	42,00	45,00	37,00	40,00	407,00	8,14
TK	TK1	TK2	TK3	TK4	TK5	TK6	TK7	TK8	TK9	TK10	TIJK	Ŷ_{ijk}

A. Menghitung FK

$$\begin{aligned}
 FK &= \frac{T_{ijk}^2}{\text{Ulangan} \times \text{Perlakuan}} \\
 &= \frac{72,00^2}{10 \times 5} \\
 FK &= 3312,98
 \end{aligned}$$

B. Menghitung JK_{Total}

$$\begin{aligned}
 JK \text{ Total} &= T(Y \text{ IJK}^2) - FK \\
 &= (8)^2 + (7)^2 + (8)^2 + (9)^2 + \dots + (7)^2 - 3312,98 \\
 JK \text{ Total} &= 90,02
 \end{aligned}$$

C. Menghitung JK_{Kelompok}

$$\begin{aligned}
 JK \text{ Kelompok} &= \frac{TK^2}{\text{Perlakuan}} - FK \\
 &= \frac{(37,00)^2 + (38,00)^2 + (41,00)^2 + \dots + (40,00)^2}{5} - 3312,98 \\
 JK \text{ Kelompok} &= \mathbf{14,82000}
 \end{aligned}$$

D. Menghitung JK_{Perlakuan}

$$\begin{aligned}
 JK \text{ Perlakuan} &= \frac{\text{Jumlah Perlakuan}^2}{\text{Ulangan}} - FK \\
 &= \frac{(85,00)^2 + (89,00)^2 + (82,00)^2 + \dots + (72,00)^2}{10} - 3312,98 \\
 JK \text{ Perlakuan} &= \mathbf{16,5200}
 \end{aligned}$$

E. Menghitung JK_{Galat}

$$\begin{aligned}
 \text{JK Galat} &= \text{JK}_{\text{Total}} - \text{JK}_{\text{Kelompok}} - \text{JK}_{\text{Perlakuan}} \\
 &= 90,02 - 14,82000 - 16,5200 \\
 \text{JK Galat} &= \mathbf{58,6800}
 \end{aligned}$$

Analisis of Variance (ANOVA) Jumlah Daun

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	9	14,820	1,647	1,010	2,15
PERLAKUAN	4	16,520	4,130	2,534	2,63
GALAT	36	58,680	1,630		
TOTAL	49	90,020			

$$\text{F. } \text{KT}_{\text{Perlakuan}} = \frac{\text{JK.Perlakuan}}{\text{DB Perlakuan}} = \frac{16,5200}{4}$$

$$= \mathbf{4,13}$$

$$\text{G. } \text{KT}_{\text{Galat}} = \frac{\text{JK.Galat}}{\text{DB Galat}} = \frac{58,6800}{36}$$

$$= \mathbf{1,63}$$

$$\text{H. } \text{F - Hitung Perlakuan} = \frac{\text{KT.Perlakuan}}{\text{KT.Galat}} = \frac{4,13}{1,63}$$

$$= \mathbf{2,54}$$

$$\begin{aligned}
 \text{I. } \text{Koefisien Keragaman} &= \frac{\sqrt{\text{KTGalat}}}{\bar{y}} \times 100\% \\
 &= \frac{\sqrt{1,63}}{8,14} \times 100\%
 \end{aligned}$$

$$= \mathbf{15,68}$$

$$\begin{aligned}
 \text{J. } \text{Uji BNT 5\%} &= t_{\alpha}(v) \times \sqrt{\frac{2 \times \text{KTGalat}}{\text{Ulangan}}} \\
 &= t_{0.05}(36) \times \sqrt{\frac{2 \times 1,63}{10}}
 \end{aligned}$$

$$= 2.042 \times \sqrt{\frac{2 \times 1,63}{10}}$$

$$= \mathbf{1,166}$$

Lampiran 4. B. Analisis Sidik Ragam Jumlah Daun 3 MST

PERLAKUAN	ULANGAN										T.P	R.R
	1	2	3	4	5	6	7	8	9	10		
P1	17	16	12	12	21	14	19	16	13	15	155,00	15,50
P2	10	12	22	20	21	17	11	12	20	17	162,00	16,20
P3	10	14	11	14	11	15	16	11	14	13	129,00	12,90
P4	14	12	18	10	12	11	12	15	14	11	129,00	12,90
P5	14	11	16	13	11	12	13	10	12	16	128,00	12,80
	65,00	65,00	79,00	69,00	76,00	69,00	71,00	64,00	73,00	72,00	703,00	14,06
TK	TK1	TK2	TK3	TK4	TK5	TK6	TK7	TK8	TK9	TK10	TIJK	Yijk

A. Menghitung FK

$$\begin{aligned}
 FK &= \frac{T_{ijk}^2}{\text{Ulangan} \times \text{Perlakuan}} \\
 &= \frac{128,00^2}{10 \times 5} \\
 FK &= 9884,18
 \end{aligned}$$

B. Menghitung JK_{Total}

$$\begin{aligned}
 JK \text{ Total} &= T(Y IJK^2) - FK \\
 &= (17)^2 + (16)^2 + (12)^2 + (12)^2 + \dots + (16)^2 - 9884,18 \\
 JK \text{ Total} &= 500,82
 \end{aligned}$$

C. Menghitung JK_{Kelompok}

$$\begin{aligned}
 JK \text{ Kelompok} &= \frac{TK^2}{\text{Perlakuan}} - FK \\
 &= \frac{(65,00)^2 + (65,00)^2 + (79,00)^2 + \dots + (72,00)^2}{5} - 9884,18 \\
 JK \text{ Kelompok} &= 43,62000
 \end{aligned}$$

D. Menghitung JK_{Perlakuan}

$$\begin{aligned}
 JK \text{ Perlakuan} &= \frac{\text{Jumlah Perlakuan}^2}{\text{Ulangan}} - FK \\
 &= \frac{(155,00)^2 + (162,00)^2 + (129,00)^2 + \dots + (128,00)^2}{10} - 9884,18 \\
 JK \text{ Perlakuan} &= 109,3200
 \end{aligned}$$

E. Menghitung JK_{Galat}

$$\begin{aligned}
 JK_{Galat} &= JK_{Total} - JK_{Kelompok} - JK_{Perlakuan} \\
 &= 500,82 - 43,62000 - 109,3200 \\
 JK_{Galat} &= \mathbf{347,8800}
 \end{aligned}$$

Analisis of Variance (ANOVA) Jumlah Daun

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	9	43,620	4,847	0,502	2,15
PERLAKUAN	4	109,320	27,330	2,828	2,63
GALAT	36	347,880	9,663		
TOTAL	49	500,820			

$$\begin{aligned}
 \text{F. } KT_{Perlakuan} &= \frac{JK_{Perlakuan}}{DB_{Perlakuan}} = \frac{109,3200}{4} \\
 &= \mathbf{27,33}
 \end{aligned}$$

$$\begin{aligned}
 \text{G. } KT_{Galat} &= \frac{JK_{Galat}}{DB_{Galat}} = \frac{347,8800}{36} \\
 &= \mathbf{9,67}
 \end{aligned}$$

$$\begin{aligned}
 \text{H. } F - \text{Hitung Perlakuan} &= \frac{KT_{Perlakuan}}{KT_{Galat}} = \frac{27,33}{9,67} \\
 &= \mathbf{2,83}
 \end{aligned}$$

$$\begin{aligned}
 \text{I. Koefisien Keragaman} &= \frac{\sqrt{KT_{Galat}}}{y} \times 100\% \\
 &= \frac{\sqrt{9,67}}{14,06} \times 100\% \\
 &= \mathbf{22,11}
 \end{aligned}$$

$$\begin{aligned}
 \text{J. Uji BNT 5\%} &= t_{\alpha}(v) \times \sqrt{\frac{2 \times KT_{Galat}}{Ulangan}} \\
 &= t_{0.05}(36) \times \sqrt{\frac{2 \times 9,67}{10}} \\
 &= 2.042 \times \sqrt{\frac{2 \times 9,67}{10}} \\
 &= \mathbf{2,839}
 \end{aligned}$$

Lampiran 4. C. Analisis Sidik Ragam Jumlah Daun 4 MST

PERLAKUAN	ULANGAN										TOTAL.P	RATA
	1	2	3	4	5	6	7	8	9	10		
P1	25	19	23	20	35	24	34	30	37	24	271,00	27,10
P2	26	16	33	36	37	28	20	27	37	24	284,00	28,40
P3	15	16	33	24	21	28	20	27	23	24	231,00	23,10
P4	12	18	18	23	27	27	17	22	29	17	210,00	21,00
P5	17	22	23	20	16	16	10	23	15	34	196,00	19,60
	95,00	91,00	130,00	123,00	136,00	123,00	101,00	129,00	141,00	123,00	1192,00	23,84
TK	TK1	TK2	TK3	TK4	TK5	TK6	TK7	TK8	TK9	TK10	TKJK	Ȳijk

A. Menghitung FK

$$\begin{aligned}
 FK &= \frac{T_{ijk}^2}{\text{Ulangan} \times \text{Perlakuan}} \\
 &= \frac{196,00}{10 \times 5} \\
 FK &= 28417,28
 \end{aligned}$$

B. Menghitung JK_{Total}

$$\begin{aligned}
 JK \text{ Total} &= T(Y \text{ IJK}^2) - FK \\
 &= (25)^2 + (19)^2 + (23)^2 + (20)^2 + \dots + (34)^2 - 28417,28 \\
 JK \text{ Total} &= 2354,72
 \end{aligned}$$

C. Menghitung JK_{Kelompok}

$$\begin{aligned}
 JK \text{ Kelompok} &= \frac{TK^2}{\text{Perlakuan}} - FK \\
 &= \frac{(95,00)^2 + (91,00)^2 + (130,00)^2 + \dots + (123,00)^2}{5} - 28417,28 \\
 JK \text{ Kelompok} &= 545,12000
 \end{aligned}$$

D. Menghitung JK_{Perlakuan}

$$\begin{aligned}
 JK \text{ Perlakuan} &= \frac{\text{Jumlah Perlakuan}^2}{\text{Ulangan}} - FK \\
 &= \frac{(271,00)^2 + (284,00)^2 + (231,00)^2 + \dots + (196,00)^2}{10} - 28417,28 \\
 JK \text{ Perlakuan} &= 580,1200
 \end{aligned}$$

E. Menghitung JK_{Galat}

$$\begin{aligned}
 JK_{Galat} &= JK_{Total} - JK_{Kelompok} - JK_{Perlakuan} \\
 &= 2354,72 - 545,12000 - 580,1200 \\
 JK_{Galat} &= \mathbf{1229,4800}
 \end{aligned}$$

Analisis of Variance (ANOVA) Jumlah Daun

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	9	992,100	110,233	3,228	2,15
PERLAKUAN	4	580,120	145,030	4,247	2,63
GALAT	36	1229,480	34,152		
TOTAL	49	2475,880			

$$\begin{aligned}
 \text{F. } KT_{Perlakuan} &= \frac{JK_{Perlakuan}}{DB_{Perlakuan}} = \frac{580,1200}{4} \\
 &= \mathbf{145,04}
 \end{aligned}$$

$$\begin{aligned}
 \text{G. } KT_{Galat} &= \frac{JK_{Galat}}{DB_{Galat}} = \frac{1229,4800}{36} \\
 &= \mathbf{34,16}
 \end{aligned}$$

$$\begin{aligned}
 \text{H. } F - \text{Hitung Perlakuan} &= \frac{KT_{Perlakuan}}{KT_{Galat}} = \frac{145,04}{34,16} \\
 &= \mathbf{4,25}
 \end{aligned}$$

$$\begin{aligned}
 \text{I. Koefisien Keragaman} &= \frac{\sqrt{KT_{Galat}}}{y} \times 100\% \\
 &= \frac{\sqrt{34,16}}{23,84} \times 100\% \\
 &= \mathbf{24,51}
 \end{aligned}$$

$$\begin{aligned}
 \text{J. Uji BNT 5\%} &= t_{\alpha}(v) \times \sqrt{\frac{2 \times KT_{Galat}}{Ulangan}} \\
 &= t_{0.05}(36) \times \sqrt{\frac{2 \times 34,16}{10}} \\
 &= 2.042 \times \sqrt{\frac{2 \times 34,16}{10}} \\
 &= \mathbf{5,337}
 \end{aligned}$$

Lampiran 4. D. Analisis Sidik Ragam Jumlah Daun 5 MST

PERLAKUAN	ULANGAN										T.P	R.R
	1	2	3	4	5	6	7	8	9	10		
P1	27	34	40	42	46	34	27	34	48	31	363,00	36,30
P2	26	34	31	32	46	17	81	36	46	30	379,00	37,90
P3	25	32	28	29	31	31	32	34	32	31	305,00	30,50
P4	26	20	26	32	31	26	32	36	29	30	288,00	28,80
P5	23	25	30	25	20	31	28	28	26	28	264,00	26,40
	127,00	145,00	155,00	160,00	174,00	139,00	200,00	168,00	181,00	150,00	1599,00	31,98
TK	TK1	TK2	TK3	TK4	TK5	TK6	TK7	TK8	TK9	TK10	TIJK	Ŷ_{ijk}

A. Menghitung FK

$$\begin{aligned}
 FK &= \frac{T_{ijk}^2}{\text{Ulangan} \times \text{Perlakuan}} \\
 &= \frac{1599,00^2}{10 \times 5} \\
 FK &= 51136,02
 \end{aligned}$$

B. Menghitung JK_{Total}

$$\begin{aligned}
 JK \text{ Total} &= T(Y IJK^2) - FK \\
 &= (27)^2 + (34)^2 + (40)^2 + (42)^2 + \dots + (28)^2 - 51136,02 \\
 JK \text{ Total} &= 4532,98
 \end{aligned}$$

C. Menghitung JK_{Kelompok}

$$\begin{aligned}
 JK \text{ Kelompok} &= \frac{TK^2}{\text{Perlakuan}} - FK \\
 &= \frac{(127,00)^2 + (145,00)^2 + (155,00)^2 + \dots + (150,00)^2}{5} - 51136,02
 \end{aligned}$$

$$JK \text{ Kelompok} = 836,18000$$

D. Menghitung JK_{Perlakuan}

$$\begin{aligned}
 JK \text{ Perlakuan} &= \frac{\text{Jumlah Perlakuan}^2}{\text{Ulangan}} - FK \\
 &= \frac{(363,00)^2 + (379,00)^2 + (305,00)^2 + \dots + (264,00)^2}{10} - 51136,02
 \end{aligned}$$

$$JK \text{ Perlakuan} = 971,4800$$

E. Menghitung JK_{Galat}

$$\begin{aligned}
 JK_{Galat} &= JK_{Total} - JK_{Kelompok} - JK_{Perlakuan} \\
 &= 4532,98 - 836,18000 - 971,4800 \\
 JK_{Galat} &= \mathbf{2725,3200}
 \end{aligned}$$

Analisis of Variance (ANOVA) Jumlah Daun

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	9	836,180	92,909	1,227	2,15
PERLAKUAN	4	971,480	242,870	3,208	2,63
GALAT	36	2725,320	75,703		
TOTAL	49	2475,880			

$$\begin{aligned}
 \text{F. } KT_{Perlakuan} &= \frac{JK_{Perlakuan}}{DB_{Perlakuan}} = \frac{971,4800}{4} \\
 &= \mathbf{242,88}
 \end{aligned}$$

$$\begin{aligned}
 \text{G. } KT_{Galat} &= \frac{JK_{Galat}}{DB_{Galat}} = \frac{2725,3200}{36} \\
 &= \mathbf{75,71}
 \end{aligned}$$

$$\begin{aligned}
 \text{H. } F - \text{Hitung Perlakuan} &= \frac{KT_{Perlakuan}}{KT_{Galat}} = \frac{242,88}{75,71} \\
 &= \mathbf{3,21}
 \end{aligned}$$

$$\begin{aligned}
 \text{I. Koefisien Keragaman} &= \frac{\sqrt{KT_{Galat}}}{y} \times 100\% \\
 &= \frac{\sqrt{75,71}}{31,98} \times 100\% \\
 &= \mathbf{27,21}
 \end{aligned}$$

$$\begin{aligned}
 \text{J. Uji BNT 5\%} &= t_{\alpha}(v) \times \sqrt{\frac{2 \times KT_{Galat}}{Ulangan}} \\
 &= t_{0.05}(36) \times \sqrt{\frac{2 \times 75,71}{10}} \\
 &= 2.042 \times \sqrt{\frac{2 \times 75,71}{10}} \\
 &= \mathbf{7,946}
 \end{aligned}$$

Lampiran 5. Analisis Sidik Ragam Berat Basah Tanaman Kangkung Darat

PERLAKUAN	ULANGAN										TOTAL P	RATA
	1	2	3	4	5	6	7	8	9	10		
P1	32,0	29,0	32,0	39,0	13,0	35,0	24,0	38,0	34,0	33,0	309,00	30,90
P2	37,0	38,0	31,0	45,0	30,0	20,0	78,0	38,0	42,0	43,0	402,00	40,20
P3	12,0	20,0	22,0	29,0	37,0	14,0	23,0	18,0	53,0	23,0	251,00	25,10
P4	12,0	20,0	22,0	13,0	37,0	14,0	23,0	18,0	53,0	23,0	235,00	23,50
P5	12,0	9,0	32,0	18,0	13,0	11,0	24,0	19,0	21,0	25,0	184,00	18,40
	105,00	116,00	139,00	144,00	130,00	94,00	172,00	131,00	203,00	147,00	1381,00	27,62
TK	TK1	TK2	TK3	TK4	TK5	TK6	TK7	TK8	TK9	TK10	TIJK	Ŷijk

A. Menghitung FK

$$\begin{aligned}
 FK &= \frac{T_{ijk}^2}{\text{Ulangan} \times \text{Perlakuan}} \\
 &= \frac{184,00^2}{10 \times 5} \\
 FK &= 38143,22
 \end{aligned}$$

B. Menghitung JK_{Total}

$$\begin{aligned}
 JK \text{ Total} &= T(Y IJK^2) - FK \\
 &= (32,0)^2 + (29,0)^2 + (32,0)^2 + \dots + (25,0)^2 - 38143,22 \\
 JK \text{ Total} &= \mathbf{8609,78}
 \end{aligned}$$

C. Menghitung JK_{Kelompok}

$$\begin{aligned}
 JK \text{ Kelompok} &= \frac{TK^2}{\text{Perlakuan}} - FK \\
 &= \frac{(105,00)^2 + (116,00)^2 + (139,00)^2 + \dots + (147,00)^2}{5} - 38143,22 \\
 JK \text{ Kelompok} &= \mathbf{1824,18000}
 \end{aligned}$$

D. Menghitung JK_{Perlakuan}

$$\begin{aligned}
 JK \text{ Perlakuan} &= \frac{\text{Jumlah Perlakuan}^2}{\text{Ulangan}} - FK \\
 &= \frac{(309,00)^2 + (402,00)^2 + (251,00)^2 + \dots + (184,00)^2}{10} - 38143,22 \\
 JK \text{ Perlakuan} &= \mathbf{2773,4800}
 \end{aligned}$$

E. Menghitung JK_{Galat}

$$\begin{aligned}
 JK_{Galat} &= JK_{Total} - JK_{Kelompok} - JK_{Perlakuan} \\
 &= 8609,78 - 1824,1800 - 2773,4800 \\
 JK_{Galat} &= \mathbf{4012,1200}
 \end{aligned}$$

Analisis of Variance (ANOVA) Berat Basah Tanaman

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	9	1824,180	202,687	1,819	4,46
PERLAKUAN	4	2773,480	693,370	6,221	3,64
GALAT	36	4012,120	111,448		
TOTAL	49	8609,780			

$$\text{F. } KT_{Perlakuan} = \frac{JK_{Perlakuan}}{DB_{Perlakuan}} = \frac{2773,4800}{4}$$

$$= \mathbf{693,38}$$

$$\text{G. } KT_{Galat} = \frac{JK_{Galat}}{DB_{Galat}} = \frac{4012,1200}{36}$$

$$= \mathbf{111,45}$$

$$\text{H. } F - \text{Hitung Perlakuan} = \frac{KT_{Perlakuan}}{KT_{Galat}} = \frac{693,38}{111,45}$$

$$= \mathbf{6,23}$$

$$\text{I. Koefisien Keragaman} = \frac{\sqrt{KT_{Galat}}}{y} \times 100\%$$

$$= \frac{\sqrt{111,45}}{27,62} \times 100\%$$

$$= \mathbf{38,22}$$

$$\text{J. Uji BNT 5\%} = t_{\alpha}(v) \times \sqrt{\frac{2 \times KT_{Galat}}{Ulangan}}$$

$$= t_{0.05}(36) \times \sqrt{\frac{2 \times 111,45}{10}}$$

$$= 2.042 \times \sqrt{\frac{2 \times 111,45}{10}}$$

$$= \mathbf{9,641}$$

Lampiran 6. Analisis Sidik Ragam Berat Akar Tanaman Kangkung Darat

PERLAKUAN	ULANGAN										TOTAL P	RATA
	1	2	3	4	5	6	7	8	9	10		
P1	5,0	5,0	5,0	6,0	6,0	7,0	7,0	8,0	9,0	6,0	64,00	6,40
P2	8,0	5,0	6,0	8,0	7,0	8,0	8,0	5,0	12,0	5,0	72,00	7,20
P3	6,0	4,0	6,0	5,0	6,0	8,0	7,0	6,0	5,0	5,0	58,00	5,80
P4	4,0	2,0	5,0	3,0	3,0	5,0	5,0	5,0	5,0	7,0	44,00	4,40
P5	2,0	1,0	2,0	3,0	3,0	5,0	3,0	9,0	5,0	5,0	38,00	3,80
	25,00	17,00	24,00	25,00	25,00	33,00	30,00	33,00	36,00	28,00	276,00	5,52
TK	TK1	TK2	TK3	TK4	TK5	TK6	TK7	TK8	TK9	TK10	TIJK	Ŷijk

A. Menghitung FK

$$\begin{aligned}
 FK &= \frac{T_{ijk}^2}{\text{Ulangan} \times \text{Perlakuan}} \\
 &= \frac{38,00^2}{10 \times 5} \\
 FK &= 1523,52
 \end{aligned}$$

B. Menghitung JK_{Total}

$$\begin{aligned}
 JK \text{ Total} &= T(Y IJK^2) - FK \\
 &= (5,0)^2 + (5,0)^2 + (5,0)^2 + (6,0)^2 + \dots + (5,0)^2 - 1523,52 \\
 JK \text{ Total} &= 214,48
 \end{aligned}$$

C. Menghitung JK_{Kelompok}

$$\begin{aligned}
 JK \text{ Kelompok} &= \frac{TK^2}{\text{Perlakuan}} - FK \\
 &= \frac{(25,00)^2 + (17,00)^2 + (24,00)^2 + \dots + (28,00)^2}{5} - 1523,52 \\
 JK \text{ Kelompok} &= \mathbf{56,08000}
 \end{aligned}$$

D. Menghitung JK_{Perlakuan}

$$\begin{aligned}
 JK \text{ Perlakuan} &= \frac{\text{Jumlah Perlakuan}^2}{\text{Ulangan}} - FK \\
 &= \frac{(64,00)^2 + (72,00)^2 + (58,00)^2 + \dots + (38,00)^2}{10} - 1523,52 \\
 JK \text{ Perlakuan} &= \mathbf{78,8800}
 \end{aligned}$$

E. Menghitung JK_{Galat}

$$\begin{aligned}
 JK_{Galat} &= JK_{Total} - JK_{Kelompok} - JK_{Perlakuan} \\
 &= 214,48 - 56,08000 - 78,8800 \\
 JK_{Galat} &= \mathbf{79,5200}
 \end{aligned}$$

Analisis of Variance (ANOVA) Berat Akar Tanaman

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	9	56,080	6,231	2,821	4,46
PERLAKUAN	4	78,880	19,720	8,928	3,64
GALAT	36	79,520	2,209		
TOTAL	49	214,480			

$$\begin{aligned}
 \text{F. } KT_{Perlakuan} &= \frac{JK_{Perlakuan}}{DB_{Perlakuan}} = \frac{78,8800}{4} \\
 &= \mathbf{19,72}
 \end{aligned}$$

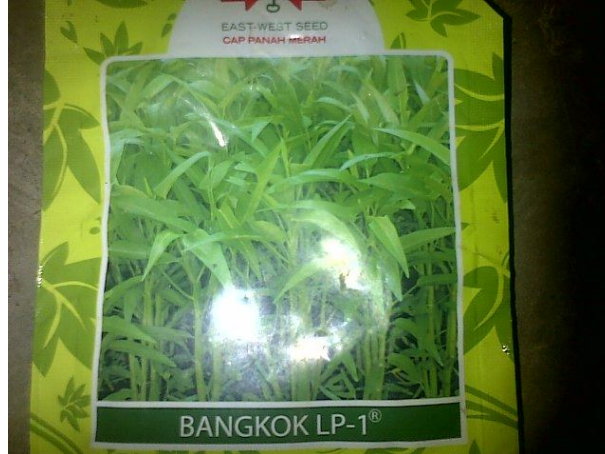
$$\begin{aligned}
 \text{G. } KT_{Galat} &= \frac{JK_{Galat}}{DB_{Galat}} = \frac{79,5200}{36} \\
 &= \mathbf{2,21}
 \end{aligned}$$

$$\begin{aligned}
 \text{H. } F - \text{Hitung Perlakuan} &= \frac{KT_{Perlakuan}}{KT_{Galat}} = \frac{19,72}{2,21} \\
 &= \mathbf{8,93}
 \end{aligned}$$

$$\begin{aligned}
 \text{I. Koefisien Keragaman} &= \frac{\sqrt{KT_{Galat}}}{y} \times 100\% \\
 &= \frac{\sqrt{2,21}}{5,52} \times 100\% \\
 &= \mathbf{62,92}
 \end{aligned}$$

$$\begin{aligned}
 \text{J. Uji BNT 5\%} &= t_{\alpha}(v) \times \sqrt{\frac{2 \times KT_{Galat}}{Ulangan}} \\
 &= t_{0.05}(36) \times \sqrt{\frac{2 \times 2,21}{10}} \\
 &= 2.042 \times \sqrt{\frac{2 \times 2,21}{10}} \\
 &= \mathbf{1,357}
 \end{aligned}$$

Lampiran 7. Dokumentasi Penelitian



Gambar 1: Varietas kangkung darat



Gambar 2: Takaran air



Gambar 3: Penimbangan tanah



Gambar 4: Pembuatan naungan



Gambar 5: Lahan penelitian



Gambar 6: Pengukuran tinggi tanaman

Gambar 7 : Penimbangan berat basah dan berat akar

