

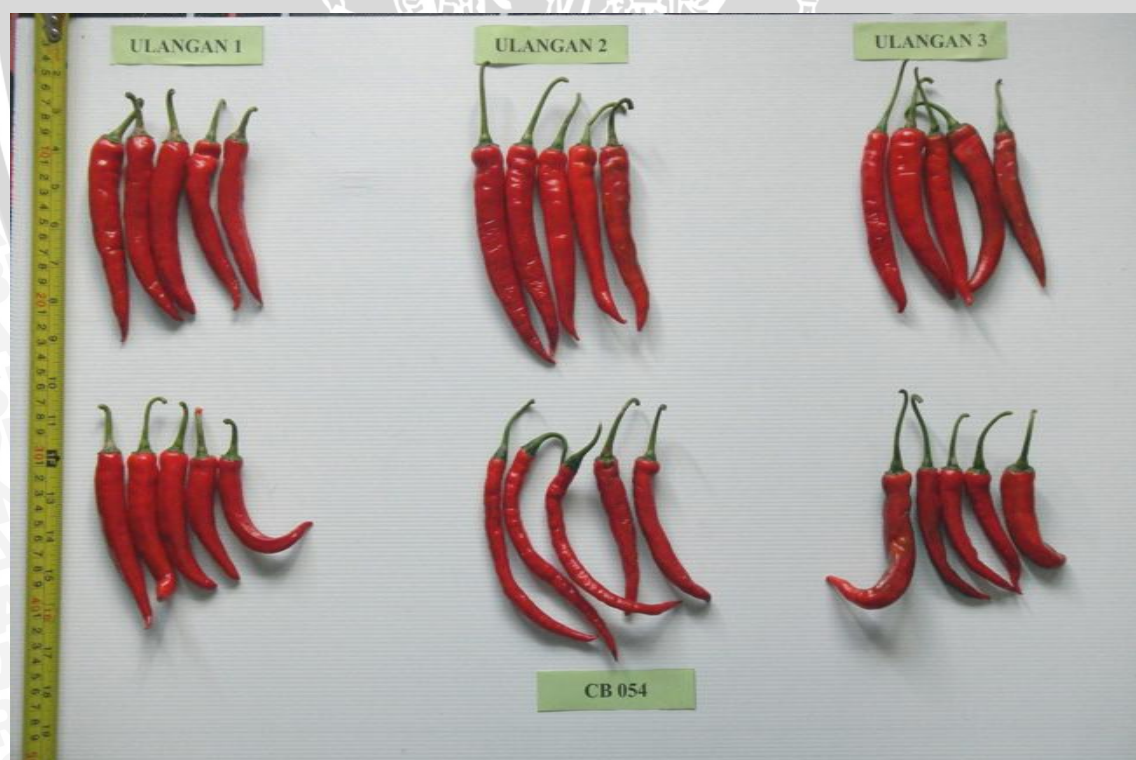
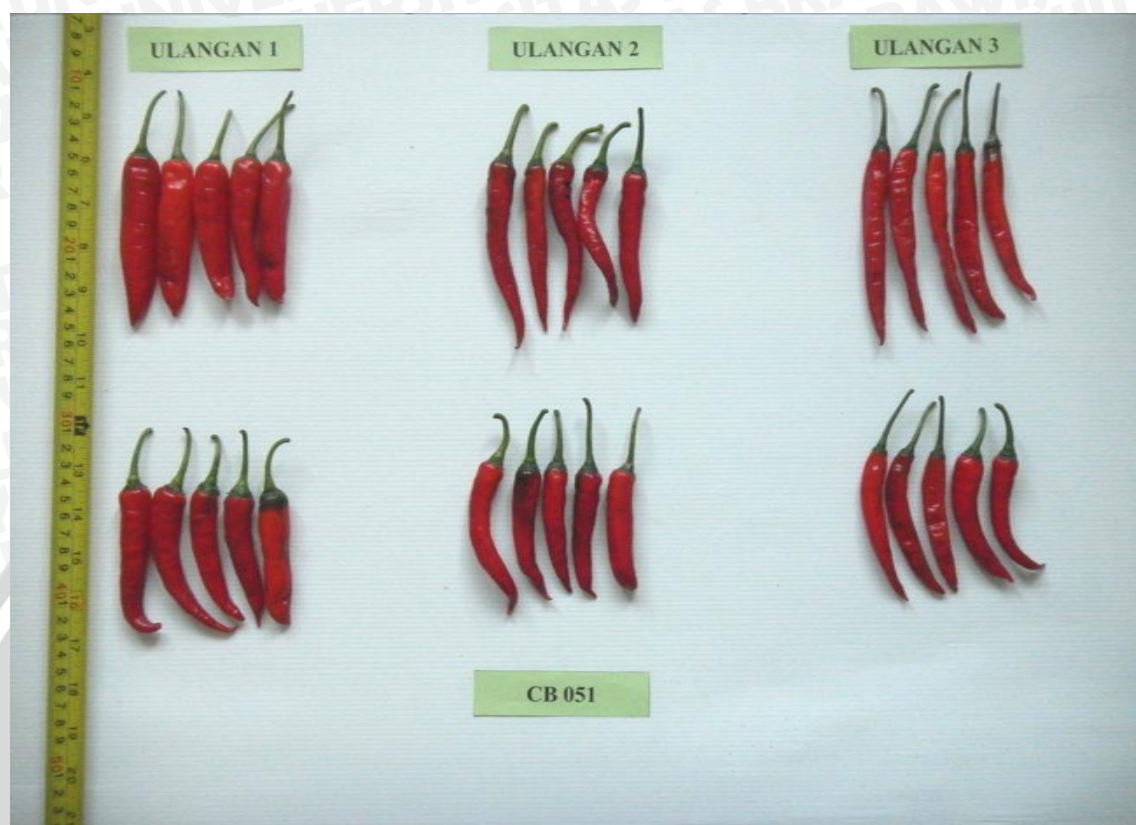


Lampiran 2. Kondisi Lapangan



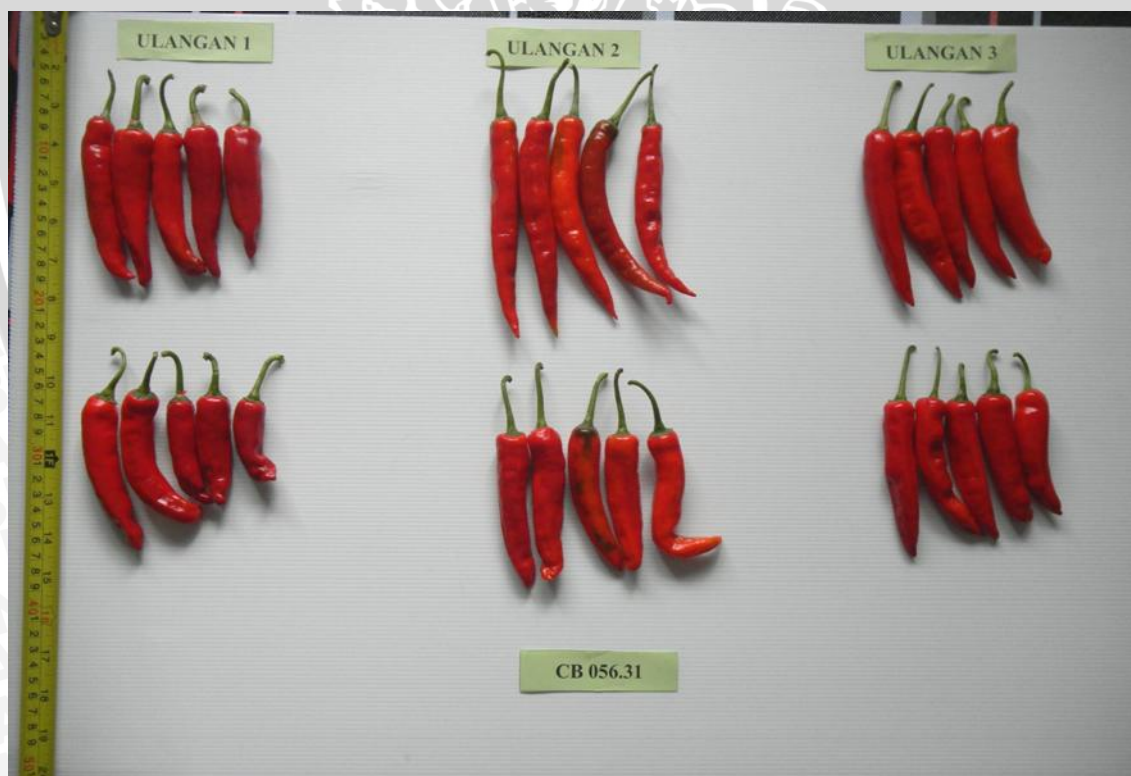
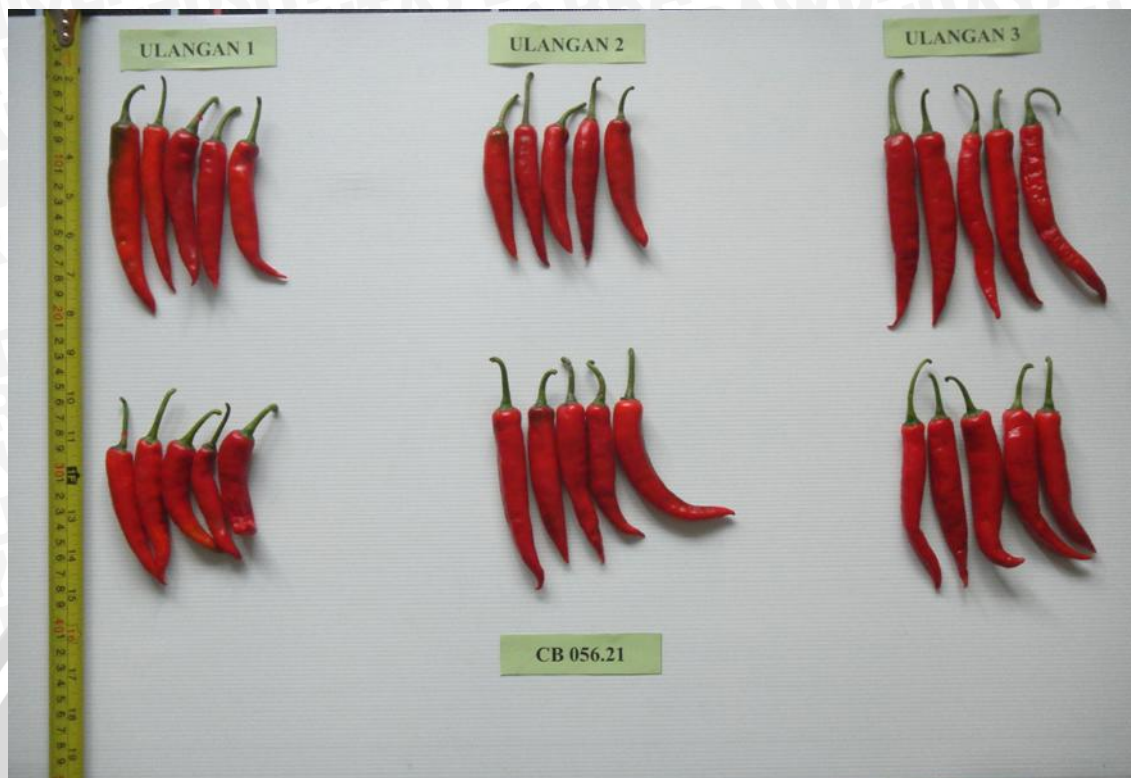
Gambar 2. Kondisi lahan percobaan

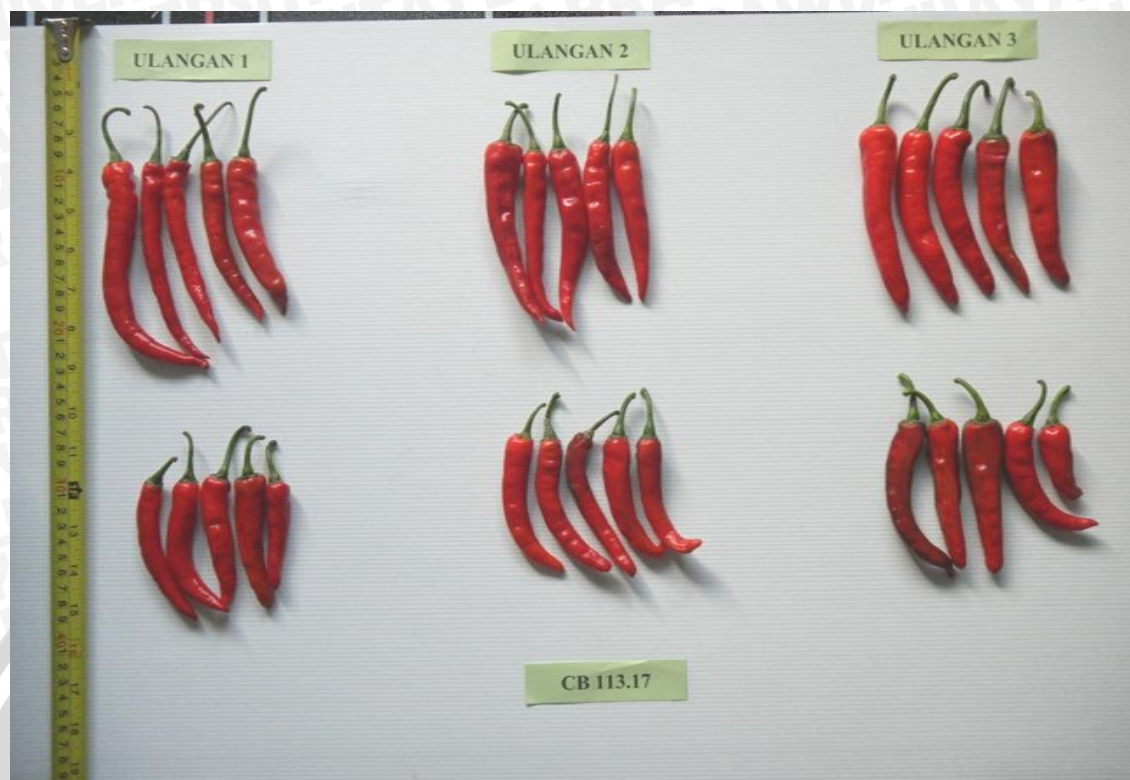
Lampiran 3. Buah 10 Genotip Cabai











Gambar 3. Buah 10 genotip cabai : CB 051, CB 054, CB 055, CB 053.23, CB 053.24, CB 053.33, CB 056.21, CB 056.31, CB 113.17, CB 113.18

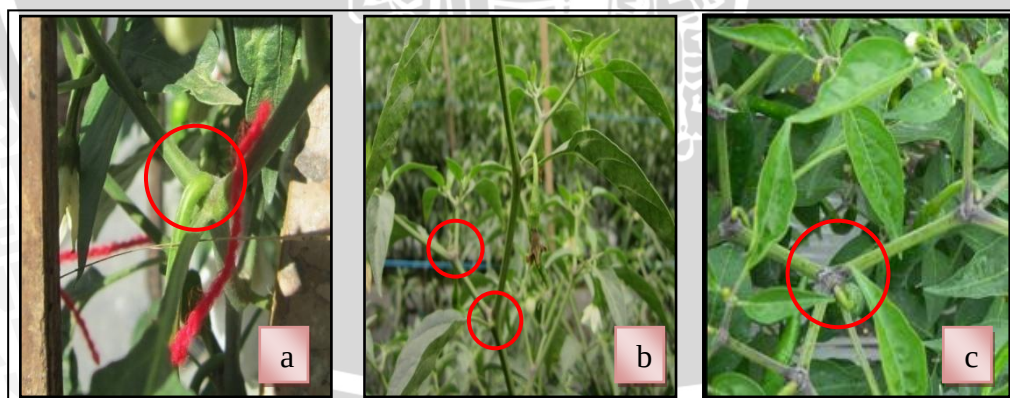
Lampiran 4. Foto Keragaman Karakter Kualitatif Tanaman



(1)



(2)



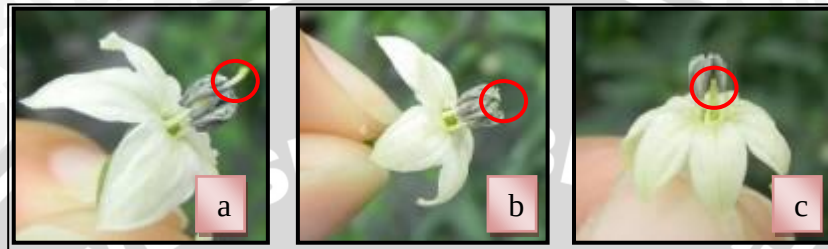
(3)

Gambar 4. Keragaman Karakter Kualitatif Tanaman :

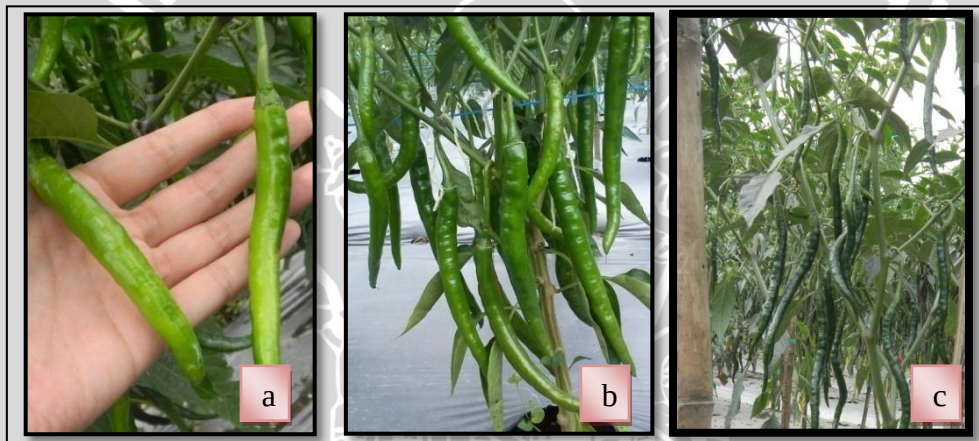
- 1) Tipe pertumbuhan : (a) tipe tegak dan (b) kompak
- 2) Warna batang : (a) warna hijau, (b) hijau dengan strip ungu dan (c) ungu gelap
- 3) Warna buku batang : (a) warna hijau, (b) ungu muda dan (c) ungu



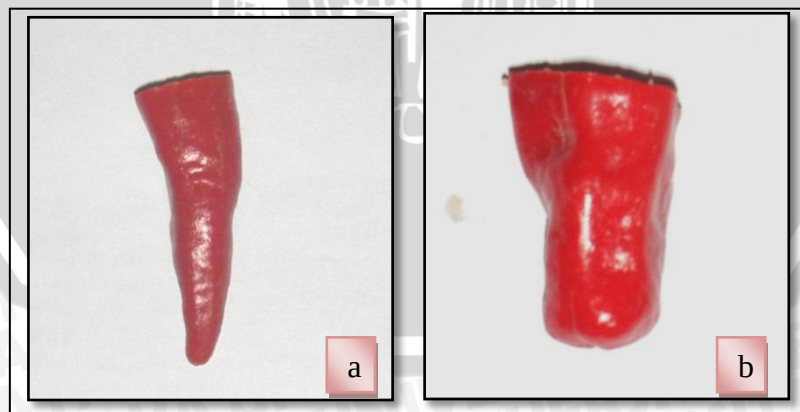
(4)



(5)



(6)

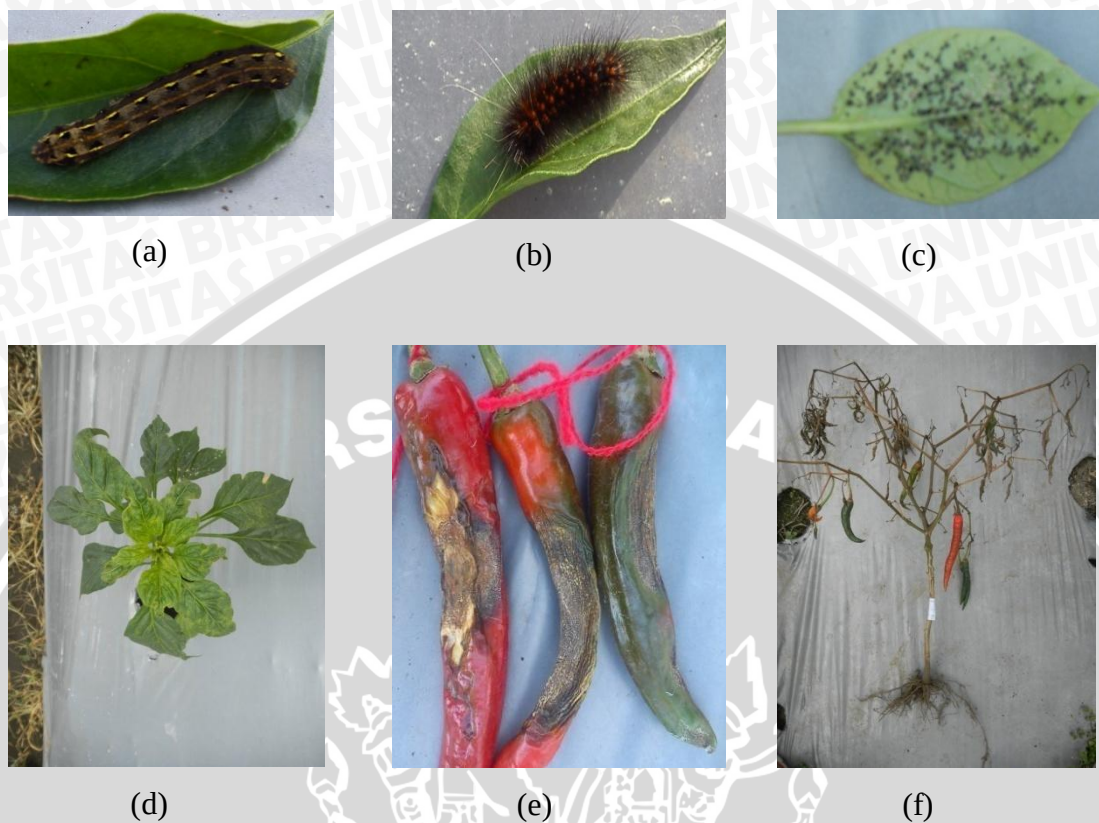


(7)

Gambar 5 . Keragaman Karakter Kualitatif Tanaman :

- 4) Warna kepala sari : (a) warna biru pucat, (b) biru dan (c) ungu
- 5) Posisi putik saat bunga mekar : (a) keluar, (b) sama tinggi dan (c) masuk
- 6) Warna buah muda : (a) warna hijau muda, (b) hijau dan (c) hijau tua
- 7) Bentuk ujung buah : (a) tajam dan (b) tumpul

Lampiran 5. Hama dan Penyakit yang Menyerang Tanaman Cabai



Gambar 6. Hama dan Penyakit yang menyerang tanaman cabai (a) Ulat grayak, (b) Ulat bulu, (c) Kutu daun, (d) Geminivirus, (e) Antraknosa dan (f) Layu Fusarium.

Lampiran 6. Hasil perhitungan analisis ragam

Tabel 1. Analisis berat per buah

SK	DB	JK	KT	F HIT	F TABEL	
					5%	1%
ULANGAN	2	1,91	0,95	0,20 ^{tn}	3,55	6,01
GENOTIP	9	384,49	42,72	8,78 ^{**}	2,46	3,60
GALAT	18	87,58	4,87			
TOTAL	29	473,97				

Keterangan : * = nyata pada taraf 5%

** = sangat nyata pada taraf 1%

tn = tidak nyata

Tabel 2. Analisis panjang buah

SK	DB	JK	KT	F HIT	F TABEL	
					5%	1%
ULANGAN	2	2,32	1,16	1,69 ^{tn}	3,55	6,01
GENOTIP	9	57,26	6,36	9,25 ^{**}	2,46	3,60
GALAT	18	12,39	0,69			
TOTAL	29	71,97				

Keterangan : * = nyata pada taraf 5%

** = sangat nyata pada taraf 1%

tn = tidak nyata

Tabel 3. Analisis panjang tangkai

SK	DB	JK	KT	F HIT	F TABEL	
					5%	1%
ULANGAN	2	0,55	0,27	1,84 ^{tn}	3,55	6,01
GENOTIP	9	9,03	1,00	6,73 ^{**}	2,46	3,60
GALAT	18	2,68	0,15			
TOTAL	29	12,26				

Keterangan : * = nyata pada taraf 5%

** = sangat nyata pada taraf 1%

tn = tidak nyata

Tabel 4. Analisis diameter buah

SK	DB	JK	KT	F HIT	F TABEL	
					5%	1%
ULANGAN	2	6,94	3,47	1,69 ^{tn}	3,55	6,01
GENOTIP	9	127,88	14,21	6,92 ^{**}	2,46	3,60
GALAT	18	36,98	2,05			
TOTAL	29	171,80				

Keterangan : * = nyata pada taraf 5%

** = sangat nyata pada taraf 1%

tn = tidak nyata

Tabel 5. Analisis tebal daging buah

SK	DB	JK	KT	F HIT	F TABEL	
					5%	1%
ULANGAN	2	0,01	0,00	0,06 ^{tn}	3,55	6,01
GENOTIP	9	1,16	0,13	2,26 ^{tn}	2,46	3,60
GALAT	18	1,02	0,06			
TOTAL	29	2,18				

Keterangan : * = nyata pada taraf 5%

** = sangat nyata pada taraf 1%

tn = tidak nyata

Tabel 6. Analisis umur berbunga

SK	DB	JK	KT	F HIT	F TABEL	
					5%	1%
ULANGAN	2	30,47	15,23	0,56 ^{tn}	3,55	6,01
GENOTIP	9	704,97	78,33	2,86 [*]	2,46	3,60
GALAT	18	493,53	27,42			
TOTAL	29	1228,97				

Keterangan : * = nyata pada taraf 5%

** = sangat nyata pada taraf 1%

tn = tidak nyata

Tabel 7. Analisis umur panen

SK	DB	JK	KT	F HIT	F TABEL	
					5%	1%
ULANGAN	2	61,67	30,83	3,58*	3,55	6,01
GENOTIP	9	367,50	40,83	4,74**	2,46	3,60
GALAT	18	155,00	8,61			
TOTAL	29	584,17				

Keterangan : * = nyata pada taraf 5%

** = sangat nyata pada taraf 1%

tn = tidak nyata

Tabel 8. Analisis jumlah buah per tanaman

SK	DB	JK	KT	F HIT	F TABEL	
					5%	1%
ULANGAN	2	12,59	6,30	0,06 ^{tn}	3,55	6,01
GENOTIP	9	1880,75	208,97	2,12 ^{tn}	2,46	3,60
GALAT	18	1771,99	98,44			
TOTAL	29	3665,34				

Keterangan : * = nyata pada taraf 5%

** = sangat nyata pada taraf 1%

tn = tidak nyata

Tabel 9. Analisis bobot buah per tanaman

SK	DB	JK	KT	F HIT	F TABEL	
					5%	1%
ULANGAN	2	2953,71	1476,86	0,58 ^{tn}	3,55	6,01
GENOTIP	9	141083,63	15675,96	6,17**	2,46	3,60
GALAT	18	45714,79	2539,71			
TOTAL	29	189752,13				

Keterangan : * = nyata pada taraf 5%

** = sangat nyata pada taraf 1%

tn = tidak nyata

Lampiran 7. Perhitungan Koefisien Keragaman Genotip, Koefisien Keragaman Fenotip dan Heritabilitas

Rumus dari koefisien keragaman genotip dan fenotip yaitu :

$$KKG = \frac{\sqrt{\sigma_g^2}}{\bar{x}} \times 100\% \quad \text{dan} \quad KKF = \frac{\sqrt{\sigma_p^2}}{\bar{x}} \times 100\%$$

Keterangan : KKG = Koefisien keragaman genotip

KKF = Koefisien keragaman fenotip

σ_g^2 = ragam genotip

σ_p^2 = ragam fenotipe

$\bar{x}$ = rata-rata seluruh populasi tiap karakter tanaman

Rumus dari heritabilitas yaitu :

$$h^2 = \frac{\sigma_g^2}{(\sigma_g^2 + \sigma_e^2)} = \frac{\sigma_g^2}{(\sigma_p^2)}$$

1. Berat per buah (g)

$$\sigma_e^2 = KTG = 4,87$$

$$\sigma_g^2 = \frac{KTP - KTG}{U} = \frac{42,72 - 4,87}{3} = 12,62$$

$$\sigma_p^2 = \sigma_g^2 + \left(\frac{\sigma_e^2}{U}\right) = 12,62 + \left(\frac{4,87}{3}\right) = 14,24$$

$$KKG = \frac{\sqrt{\sigma_g^2}}{\bar{x}} \times 100\% = 8,92\%$$

$$KKF = \frac{\sqrt{\sigma_p^2}}{\bar{x}} \times 100\% = 9,48\%$$

$$h^2 = \frac{\sigma_g^2}{(\sigma_g^2 + \sigma_e^2)} = \frac{\sigma_g^2}{(\sigma_p^2)} = 0,89$$

2. Panjang buah (cm)

$$\sigma_e^2 = KTG = 0,69$$

$$\sigma_g^2 = \frac{KTP - KTG}{U} = \frac{6,36 - 0,69}{3} = 1,89$$

$$\sigma_p^2 = \sigma_g^2 + \left(\frac{\sigma_e^2}{U} \right) = 1,89 + \left(\frac{0,69}{3} \right) = 2,12$$

$$KKG = \frac{\sqrt{\sigma_g^2}}{\bar{x}} \times 100\% = 3,91\%$$

$$KKF = \frac{\sqrt{\sigma_p^2}}{\bar{x}} \times 100\% = 4,14\%$$

$$h^2 = \frac{\sigma_g^2}{(\sigma_g^2 + \sigma_e^2)} = \frac{\sigma_g^2}{(\sigma_p^2)} = 0,89$$

3. Panjang tangkai buah (cm)

$$\sigma_e^2 = KTG = 0,15$$

$$\sigma_g^2 = \frac{KTP - KTG}{U} = \frac{1,00 - 0,15}{3} = 0,28$$

$$\sigma_p^2 = \sigma_g^2 + \left(\frac{\sigma_e^2}{U} \right) = 0,28 + \left(\frac{0,15}{3} \right) = 0,33$$

$$KKG = \frac{\sqrt{\sigma_g^2}}{\bar{x}} \times 100\% = 4,44\%$$

$$KKF = \frac{\sqrt{\sigma_p^2}}{\bar{x}} \times 100\% = 4,81\%$$

$$h^2 = \frac{\sigma_g^2}{(\sigma_g^2 + \sigma_e^2)} = \frac{\sigma_g^2}{(\sigma_p^2)} = 0,85$$

4. Diameter buah (mm)

$$\sigma_e^2 = KTG = 2,05$$

$$\sigma_g^2 = \frac{KTP - KTG}{U} = \frac{14,21 - 2,05}{3} = 4,05$$

$$\sigma_p^2 = \sigma_g^2 + \left(\frac{\sigma_e^2}{U} \right) = 4,05 + \left(\frac{2,05}{3} \right) = 4,74$$

$$KKG = \frac{\sqrt{\sigma_g^2}}{\bar{x}} \times 100\% = 4,17\%$$

$$KKF = \frac{\sqrt{\sigma_p^2}}{\bar{x}} \times 100\% = 4,51\%$$

$$h^2 = \frac{\sigma_g^2}{(\sigma_g^2 + \sigma_e^2)} = \frac{\sigma_g^2}{(\sigma_p^2)} = 0,86$$

5. Tebal daging buah (mm)

$$\sigma_e^2 = KTG = 0,06$$

$$\sigma_g^2 = \frac{KTP - KTG}{U} = \frac{0,13 - 0,06}{3} = 0,02$$

$$\sigma_p^2 = \sigma_g^2 + \left(\frac{\sigma_e^2}{U}\right) = 0,02 + \left(\frac{0,06}{3}\right) = 0,04$$

$$KKG = \frac{\sqrt{\sigma_g^2}}{\bar{x}} \times 100\% = 2,48\%$$

$$KKF = \frac{\sqrt{\sigma_p^2}}{\bar{x}} \times 100\% = 3,32\%$$

$$h^2 = \frac{\sigma_g^2}{(\sigma_g^2 + \sigma_e^2)} = \frac{\sigma_g^2}{(\sigma_p^2)} = 0,56$$

6. Umur berbunga (HST)

$$\sigma_e^2 = KTG = 27,42$$

$$\sigma_g^2 = \frac{KTP - KTG}{U} = \frac{78,33 - 27,42}{3} = 16,97$$

$$\sigma_p^2 = \sigma_g^2 + \left(\frac{\sigma_e^2}{U}\right) = 16,97 + \left(\frac{27,42}{3}\right) = 26,11$$

$$KKG = \frac{\sqrt{\sigma_g^2}}{\bar{x}} \times 100\% = 3,35\%$$

$$KKF = \frac{\sqrt{\sigma_p^2}}{\bar{x}} \times 100\% = 4,15\%$$

$$h^2 = \frac{\sigma_g^2}{(\sigma_g^2 + \sigma_e^2)} = \frac{\sigma_g^2}{(\sigma_p^2)} = 0,65$$

7. Umur panen (HST)

$$\sigma_e^2 = KTG = 8,61$$

$$\sigma_g^2 = \frac{KTP - KTG}{U} = \frac{40,83 - 8,61}{3} = 10,74$$

$$\sigma_p^2 = \sigma_g^2 + \left(\frac{\sigma_e^2}{U}\right) = 8,61 + \left(\frac{10,74}{3}\right) = 13,61$$

$$KKG = \frac{\sqrt{\sigma_g^2}}{\bar{x}} \times 100\% = 1,09\%$$

$$KKF = \frac{\sqrt{\sigma_p^2}}{\bar{x}} \times 100\% = 1,23\%$$

$$h^2 = \frac{\sigma_g^2}{(\sigma_g^2 + \sigma_e^2)} = \frac{\sigma_g^2}{(\sigma_p^2)} = 0,79$$

8. Jumlah buah per tanaman

$$\sigma_e^2 = KTG = 98,44$$

$$\sigma_g^2 = \frac{KTP - KTG}{U} = \frac{208,97 - 98,44}{3} = 36,84$$

$$\sigma_p^2 = \sigma_g^2 + \left(\frac{\sigma_e^2}{U}\right) = 98,44 + \left(\frac{36,84}{3}\right) = 69,66$$

$$KKG = \frac{\sqrt{\sigma_g^2}}{\bar{x}} \times 100\% = 7,05\%$$

$$KKF = \frac{\sqrt{\sigma_p^2}}{\bar{x}} \times 100\% = 9,70\%$$

$$h^2 = \frac{\sigma_g^2}{(\sigma_g^2 + \sigma_e^2)} = \frac{\sigma_g^2}{(\sigma_p^2)} = 0,53$$

9. Bobot buah per tanaman (g)

$$\sigma_e^2 = KTG = 2539,71$$

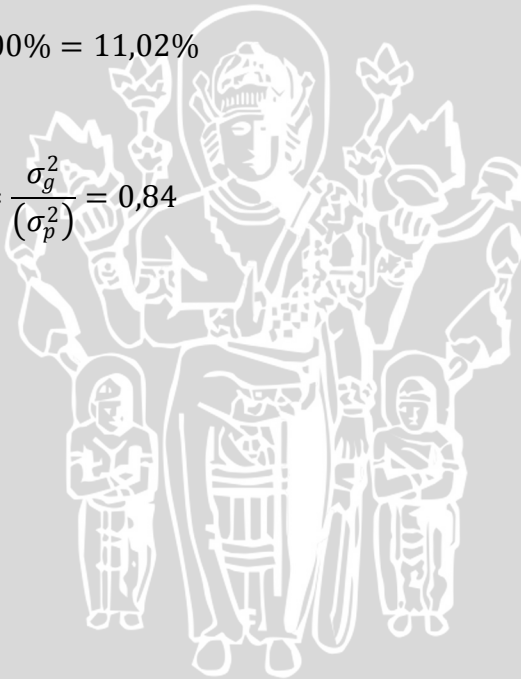
$$\sigma_g^2 = \frac{KTP - KTG}{U} = \frac{15675,96 - 2539,71}{3} = 4378,75$$

$$\sigma_p^2 = \sigma_g^2 + \left(\frac{\sigma_e^2}{U} \right) = 4378,75 + \left(\frac{2539,71}{3} \right) = 5225,32$$

$$KKG = \frac{\sqrt{\sigma_g^2}}{\bar{x}} \times 100\% = 10,09\%$$

$$KKF = \frac{\sqrt{\sigma_p^2}}{\bar{x}} \times 100\% = 11,02\%$$

$$h^2 = \frac{\sigma_g^2}{(\sigma_g^2 + \sigma_e^2)} = \frac{\sigma_g^2}{(\sigma_p^2)} = 0,84$$



Lampiran 8. Data Curah Hujan Tahun 2013



BADAN METEOROLOGI KLIMATOLOGI DAN GEOFISIKA
STASIUN KLIMATOLOGI KARANGPLOSO

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DATA CURAH HUJAN TAHUN 2013

Nama Pos : *Pujon (Malang)*

No.	Unsur Klimatologi	Satuan	Jan	Feb	Mar	Apr	May	Jun	Jul	Agts	Sep	Okt	Nop	Des
1	Curah Hujan	Millimeter	848	427	307	443	162	131	189	8	-	94	325,5	676
2	Hari Hujan	Hari	28	22	17	15	13	13	12	31	-	31	17	23
3	Hujan Maximum	Millimeter	84	74	56	120	32	32	49	8	-	38	65	106

Malang, 15 Januari 2014
 Kepala Stasiun Klimatologi Karangploso
 Kasek, Observasi dan Informasi

 Rahmatullah Adli, SP
 NIP. 19700216 199203 1 001

