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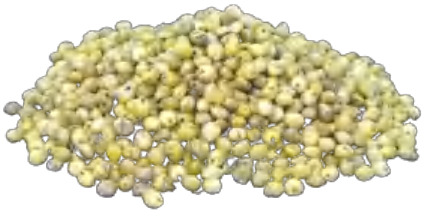
LAMPIRAN

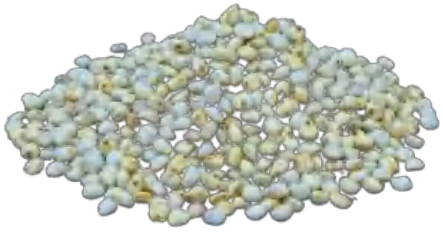
(a)



(b)

(c)

(d)

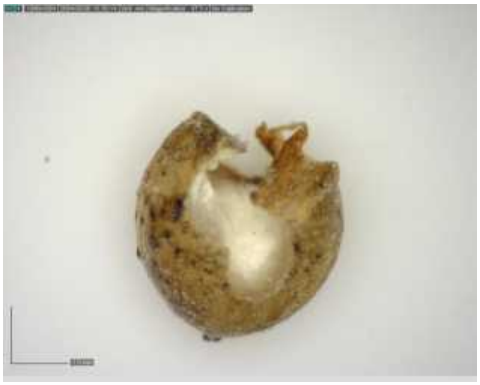


(e)

(f)

Lampiran Gambar 1. Kultivar Sorgum yang Digunakan dalam Penelitian: (a) Suri-4; (b) Kawali; (c) Super-2; (d) Soper-6; (e) Super-1; (f) Numbu

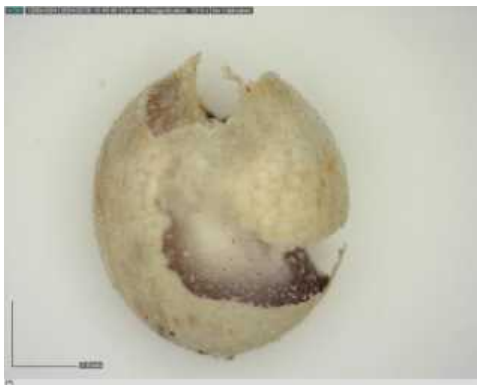
(a)



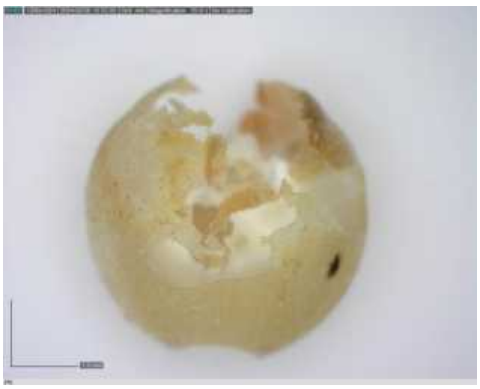
(b)

(c)

(d)



(e)



(f)

2. Kerusakan biji sorgum yang disebabkan oleh serangan hama *rhyzopertha dominica* pada setiap kultivar: (a) Suri-4; (b) Kawali; (c) Super-2; (d) Soper-6; (e) Super-1; (f) Numbu

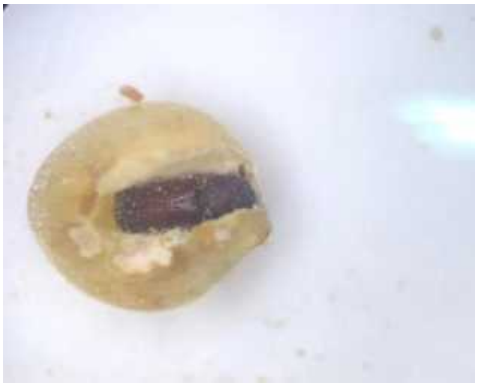
(a)

(b)

(c)

(d)

(e)



(f)

Lampiran Gambar 3. Fase hidup *Rhyzopertha dominica*: (a) telur pada permukaan biji; (b) larva; (c) larva pada biji sorgum; (d) pupa; (e) pupa di dalam biji sorgum; (f) imago di dalam biji sorgum

(a)

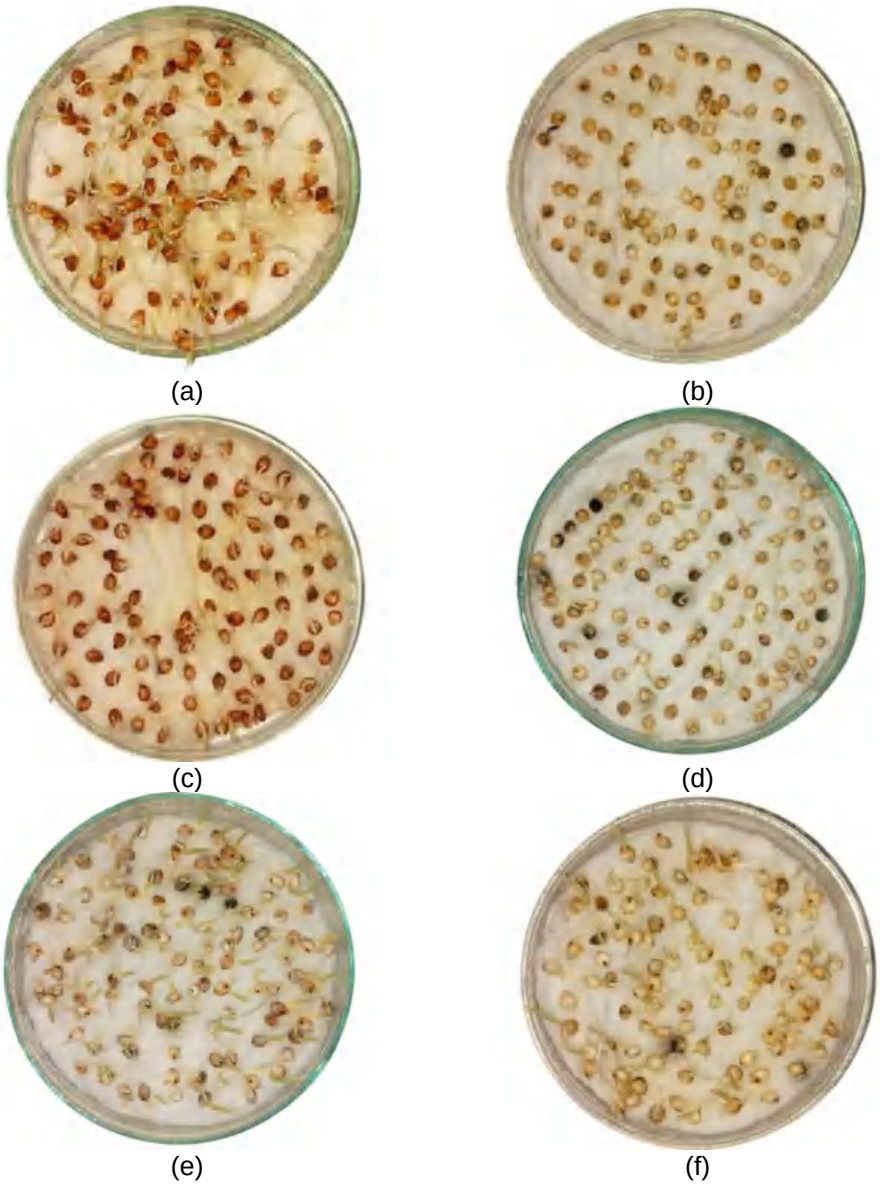
(b)

(c)

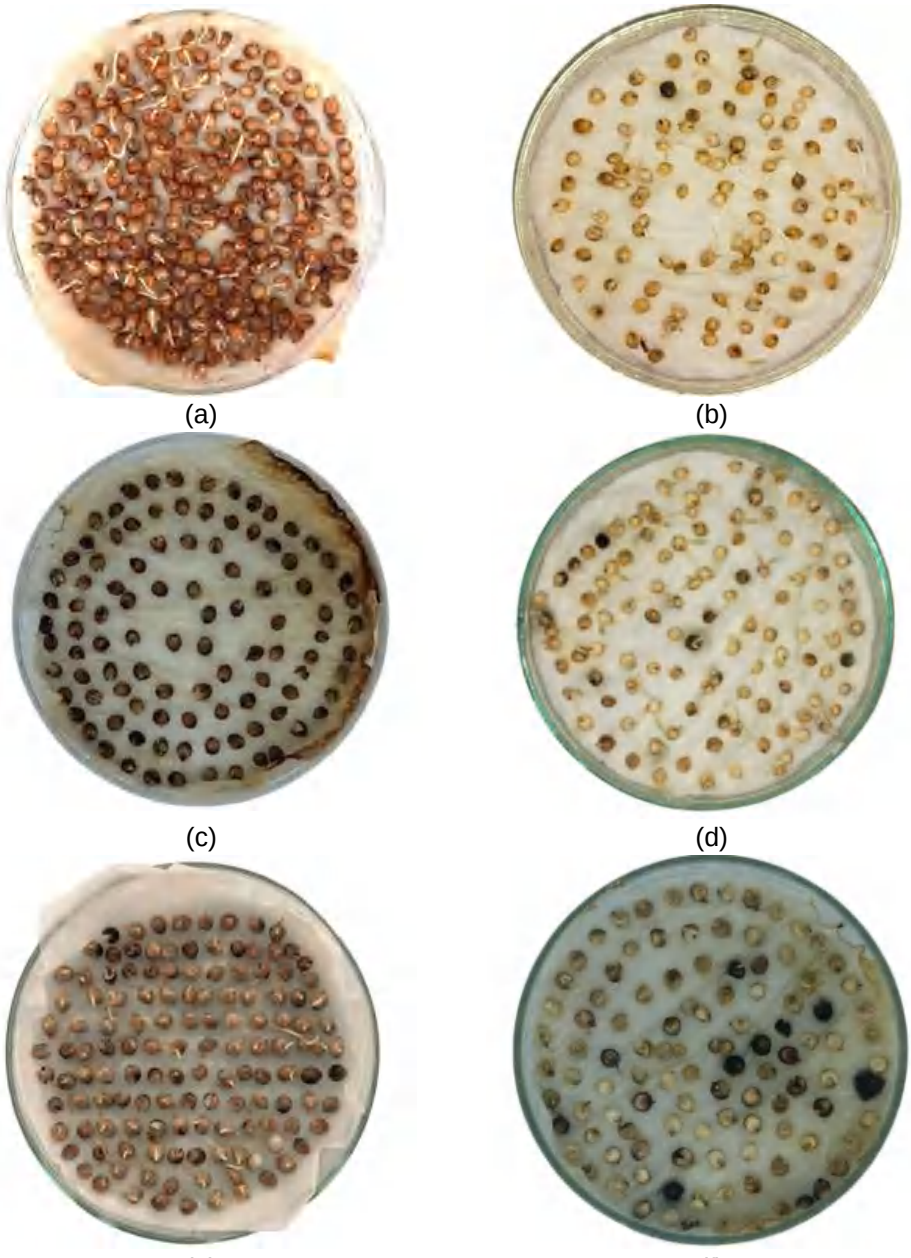
(d)

Lampiran Gambar 4. Perbedaan morfologi jantan dan betina *Rhyzopertha dominica*: (a) imago jantan; (b) imago betina; (c) dorsal; (d) ventral

.



Lampiran Gambar 5. Hasil uji perkecambahan benih awal: (a) Suri-4; (b) Kawali; (c) Super-2; (d) Soper-6; (e) Super-1; (f) Numbu



(a) (b)

(c) (d)

(e) (f)

Lampiran Gambar 6. Hasil uji perkecambahan benih perlakuan akibat serangan serangga *R. dominica*: (a) Suri-4; (b) Kawali; (c) Super-2; (d) Soper-6; (e) Super-1; (f) Numbu

Lampiran Tabel 1. Analisis ragam variabel pengamatan uji kepekaan enam kultivar sorgum terhadap *Rhyzopertha dominica*

		Sum of Squares	df	Mean Square	F	Sig.
Mortalitas Imago Infestasi	Between Groups	173.333	5	34.667	2.936	.041
	Within Groups	212.500	18	11.806		
	Total	385.833	23			
Telur	Between Groups	6320.375	5	1264.075	5.107	.004
	Within Groups	4455.250	18	247.514		
	Total	10775.625	23			
Imago	Between Groups	9933.208	5	1986.642	3.872	.015
	Within Groups	9234.750	18	513.042		
	Total	19167.958	23			
jantan	Between Groups	9044.833	5	1808.967	4.226	.010
	Within Groups	7704.500	18	428.028		
	Total	16749.333	23			
betina	Between Groups	414.875	5	82.975	1.122	.384
	Within Groups	1330.750	18	73.931		
	Total	1745.625	23			
Kesintasan Pradewasa	Between Groups	854.512	5	170.902	2.008	.126
	Within Groups	1532.122	18	85.118		
	Total	2386.634	23			
Median Developmental Period	Between Groups	35.000	5	7.000	1.669	.193
	Within Groups	75.500	18	4.194		
	Total	110.500	23			
	Between Groups	15.422	5	3.084	8.779	.000

		Sum of Squares	df	Mean Square	F	Sig.
	Within Groups	6.324	18	.351		
	Total	21.746	23			
Indeks Pertumbuhan	Between Groups	.000	5	.000	.577	.717
	Within Groups	.000	18	.000		
	Total	.000	23			
Biji Rusak	Between Groups	80.357	5	16.071	2.881	.044
	Within Groups	100.405	18	5.578		
	Total	180.762	23			
Penurunan Berat Pakan	Between Groups	12.507	5	2.501	1.653	.197
	Within Groups	27.232	18	1.513		
	Total	39.740	23			
Debu Gerekan	Between Groups	1.337	5	.267	5.768	.002
	Within Groups	.835	18	.046		
	Total	2.172	23			

		Sum of Squares	df	Mean Square	F	Sig.
Viabilitas Awal	Between Groups	182.208	5	36.442	2.312	.087
	Within Groups	283.750	18	15.764		
	Total	465.958	23			
Viabilitas Akhir	Between Groups	167.333	5	33.467	3.912	.014
	Within Groups	154.000	18	8.556		
	Total	321.333	23			

Lampiran Tabel 2. Deskripsi sorgum kultivar Suri-4

Variabel	Deskripsi
Tahun dilepas	22 November 2014
Asal	Merupakan perbaikan galur Intoduksi galur 15020, introduksi dari ICRISAT, India tahun 2002
Umur	Berbunga 50% : ± 55 hst Panen : ± 95 hst
Tinggi tanaman	± 239,4 cm
Kedudukan tangkai	Di pucuk
Sifat/bentuk malai	Terbuka/Terkulai
Panjang malai	± 29 cm
Warna biji	Cokelat tua kemerahan
Ukuran biji	Panjang
Kadar protein	± 15,42%
Kadar lemak	± 3,96%
Kadar karbohidrat	± 64,93%
Kadar Gula (Brix)	± 15,05%
Kadar tanin	± 0,013% b.k
Bobot 1000 biji	± 32,4 gram
Rata-rata hasil	± 4,8 t/ha (KA 10%)
Potensi hasil	± 5,7 t/ha (KA 10%)
Ketahanan	Tahan terhadap hama *Aphis*, agak tahan terhadap penyakit antraknosa, dan bercak daun
	Fatmawati dan Muahmmad Azrai

Lampiran Tabel 3 Deskripsi sorgum kultivar Kawali

Variabel	Deskripsi
Tahun dilepas	22 Oktober 2001
Asal	India
Umur	Berbunga 50% : ± 70 hst Panen : ± 100–110 hst
Tinggi tanaman	± 135 cm
Kedudukan tangkai	Di pucuk
Sifat/bentuk malai	Kompak/Elips
Panjang malai	± 28–29 cm
Bentuk biji	Bulat
Sifat Biji	Mudah Rontok
Warna biji	Krem
Ukuran biji	3,2; 3,0; 3,4 mm
Kadar protein	± 8,81%
Kadar lemak	± 1,97%
Kadar karbohidrat	± 87,87%
Bobot 1000 biji	± 30 gram
Rata-rata hasil	± 2,96 t/ha (KA 10%)
Potensi hasil	± 4,0–5,0 t/ha (KA 10%)
Ketahanan	Agak tahan terhadap hama *Aphis*, tahan terhadap penyakit karat, dan bercak daun.
Daerah sebaran	Dapat ditanam di lahan sawah dan tegalan

Lampiran Tabel 4. Deskripsi sorgum kultivar Super-2

Variabel	Deskripsi
Tahun dilepas	18 Desember 2013
Asal	Perbaikan galur 15021, introduksi dari ICRISAT
Umur	Berbunga 50% : ± 60 hst Panen : ± 115–120 hst
Tinggi tanaman	± 229,7 cm
Kedudukan tangkai	Di pucuk
Sifat/bentuk malai	Agak terserat/Simetris
Panjang malai	± 26 cm
Warna biji	Krem kemerahan
Ukuran biji	Panjang 4,63 mm, lebar 3,6 mm, diameter 2,92 mm
Kadar protein	± 9,2%
Kadar lemak	± 3,1%
Kadar karbohidrat	± 75,6%
Kadar Gula (Brix)	± 12,7%
Kadar tanin	± 0,3%
Bobot 1000 biji	± 30,1 gram
Rata-rata hasil	± 3,0 t/ha (KA 10%)
Potensi hasil	± 6,3 t/ha (KA 10%)
Ketahanan	Tahan hama *Aphis*, agak tahan antraknosa, karat, dan hawar daun
	Marcia B. P, Sigit B. S, Nuning A, Aviv A, Sumarni S, Fatmawati R, M. Azrai

Lampiran Tabel 5. Deskripsi sorgum kultivar Soper-6

Variabel	Deskripsi
Tahun dilepas	2019
Asal	Perbaikan galur introduksi KT247-1-1-1, introduksi dari ICRISAT, India tahun 2002
Umur	Berbunga 50% : ± 64 hst Panen : ± 111 hst
Sifat tanaman	Tidak membentuk anakan dan dapat diratun
Tinggi tanaman	± 181 cm
Kedudukan tangkai	Di pucuk
Sifat/bentuk malai	Kompak/Simetris
Warna/Ukuran biji	Krem/Kecil
Kadar protein	± 15,05%
Kadar lemak	± 2,82%
Kadar karbohidrat	± 66,88%
Kadar tanin	± 0,07%
Bobot 1000 biji	± 24,92 gram
Rata-rata hasil	± 4,5 t/ha (KA 10%)
Potensi hasil	± 6,0 t/ha (KA 10%)
Ketahanan	Tahan terhadap hama *Aphis*, sangat tahan terhadap penyakit karat dan tahan penyakit antraknosa
	Fatmawati dan muhammad Azrai, Amin Nur, Karlina S, Aviv Andriani, dan Roy Efendi

Lampiran Tabel 6. Deskripsi sorgum kultivar Super-1

Variabel	Deskripsi
Tahun dilepas	18 Desember 2013
Asal	Perbaikan populasi Watar Hamu Putih hasil koleksi plasma nutfah Balitsereal dari Pulau Sumba, Nusa Tenggara Timur
Umur	Berbunga 50% : ± 56 hst Panen : ± 105–110 hst
Tinggi tanaman	± 204,8 cm
Kedudukan tangkai	Di pucuk
Sifat/Bentuk malai	Kompak/Lonjong
Panjang malai	± 26,7 cm
Warna biji	Putih
Kadar protein	± 12,9%
Kadar lemak	± 2,2%
Kadar karbohidrat	± 71,3%
Kadar Gula (Brix)	± 13,5%
Kadar tanin	± 0,11%
Bobot 1000 biji	± 28,0 gram
Rata-rata hasil	± 2,6 t/ha (KA 10%)
Potensi hasil	± 5,7 t/ha (KA 10%)
	Tahan hama *Aphis*, tahan antraknosa, karat, dan hawar daun
	Marcia B. P, Sigit B. S, Fatmawati R, Amin Nur, Muzdalifah, Nuning A, Sumarni Singgih, M. Azrai

Lampiran Tabel 7. Deskripsi sorgum kultivar Numbu

Variabel	Deskripsi
Tahun dilepas	22 Oktober 2001
Asal	India
Umur	Berbunga 50% : ± 69 hst Panen : ± 100–105 hst
Tinggi tanaman	± 187 cm
Kedudukan tangkai	Di pucuk
Sifat/bentuk malai	Kompak/Elips
Panjang malai	± 22–23 cm
Bentuk biji	Bulat lonjong
Sifat Biji	Mudah Rontok
Warna biji	Krem
Ukuran biji	4,2; 4,8; 4,4 mm
Kadar protein	± 9,12%
Kadar lemak	± 3,94%
Kadar karbohidrat	± 84,58%
Bobot 1000 biji	± 36–37 gram
Rata-rata hasil	± 3,11 t/ha (KA 10%)
Potensi hasil	± 4,0–5,0 t/ha (KA 10%)
	Tahan terhadap hama *Aphis*, tahan terhadap penyakit karat, dan bercak daun.
	Dapat ditanam di lahan sawah dan tegalan