LAMPIRAN

Lampiran 1. Deskripsi Benih Kedelai Varietas Argomulyo dan Gepak Kuning

Varietas Argomulyo

Dilepas tahun : 1998
Nama calon varietas : Argomulyo
SK Mentan : 880/Kpts/TP.240/11/98
Asal : Introduksidari Thailand oleh PT. Nestle Indonesia tahun 1988 dengan nama asal Nakhon Sawan I
Tipe pertumbuhan : Determinate
Warna hipokotil : Ungu
Warna epikotil : Hijau
Warna daun : Daun
Warna bulu batang : Coklat
Warna bunga : Ungu
Warna kulit biji : Hijau muda
Warna polong tua : Coklat
Warna biji : Kuning
Bentuk daun : Lonjong
Percabangan : 3-4 cabang
Umur berbunga : 35 hari
Umur polong masak : 80-82 hari
Tinggi tanaman : 40 cm
Bobot 100 biji : 16 gram
Rata-rata hasil : 2,04 ton/ha
Potensi hasil : 1,5 – 2 ton/ha
Kandungan protein : 39,4%
Kandungan lemak : 20,8%
Ketahanan tehadap
- Hama : -
- Penyakit : Toleran karat daun

Daerah sebaran adaptasi : -
Sifat-sifat lain : -
Pemulia : RPP. Rodiah, C. Ismail, Gatot Sunyoto, dan Sumarno
Peneliti : -
Pengusul : -

Varietas Gepak Kuning

Dilepas tahun : 2008
Nama calon varietas : Gepak kuning
SK Mentan : -
Asal : Seleksi varietas lokal Gepak Kuning
Tipe pertumbuhan : Determinit
Warna hipokotil : Ungu
Warna epikotil : Hijau
Warna daun : Hijau
Warna bulu batang : Coklat
Warna bunga : Ungu
Warna kulit biji : Kuning muda-kehijauan
Warna polong tua : Coklat
Warna biji : Kuning
Bentuk daun : Lonjong
Percabangan : Agak tegak
Umur berbunga : 28 hari
Umur polong masak : 73 hari
Tinggi tanaman : 55 cm
Bobot 100 biji : 8,25 gram
Rata-rata hasil : 2,22 ton/ha
Potensi hasil : 2,86 ton/ha
Kandungan protein : 35,38%
Kandungan lemak : 15,10%
Ketahanan tehadap

- Hama : Agak tahan terhadap ulat grayak, *Aphis* sp., ulat penggulung daun, dan *Phaedonia* sp.
- Penyakit : -

Daerah sebaran adaptasi : Beradaptasi baik di lahan sawah dan tegal, baik pada musim hujan maupun kemarau
Sifat-sifat lain : Kadar rendemen tahu tinggi
Pemulia : M. Muchlish Adie
Peneliti : Soenardi, Mohammad Maksum, Soepriyanto, Yudi Nasrul, Suparman Yudi Hartono, Soni sapta Mawardi, Susanto, Paulus Iwan Sutadi, Noor Sasongko, dan Romodhon
Pengusul : Pemerintah Daerah Kabupaten Ponorogo, Jawa Timur

Lampiran 2.Sidik Ragam dan Uji Lanjut Tinggi Tanaman Kedelai 14, 28,42, dan 56 HST

Sidik Ragam Tinggi Tanaman Kedelai 14 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	1500,369	1	1500,369	2077434,092	,000
	Error	,002	3	,001[a]		
VARIETAS	Hypothesis	,385	1	,385	587,390	,000
	Error	,010	15	,001[b]		
MEDIA_TANAM	Hypothesis	,281	2	,141	214,633	,000
	Error	,010	15	,001[b]		
KELOMPOK	Hypothesis	,002	3	,001	1,102	,379
	Error	,010	15	,001[b]		
VARIETAS * MEDIA_T	Hypothesis	,023	2	,012	17,739	,000
	Error	,010	15	,001[b]		

Sidik Ragam Tinggi Tanaman Kedelai 28 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	8707,755	1	8707,755	16200474,612	,000
	Error	,002	3	,001[a]		
VARIETAS	Hypothesis	8,202	1	8,202	10073,741	,000
	Error	,012	15	,001[b]		
MEDIA_TANAM	Hypothesis	,177	2	,088	108,582	,000
	Error	,012	15	,001[b]		
KELOMPOK	Hypothesis	,002	3	,001	,660	,589
	Error	,012	15	,001[b]		
VARIETAS *	Hypothesis	,142	2	,071	87,364	,000
MEDIA_TANAM	Error	,012	15	,001[b]		

Sidik Ragam Tinggi Tanaman Kedelai 42 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	28478,437	1	28478,437	19216939,819	,000
	Error	,004	3	,001[a]		
VARIETAS	Hypothesis	75,580	1	75,580	122176,118	,000
	Error	,009	15	,001[b]		
MEDIA_TANAM	Hypothesis	27,698	2	13,849	22387,032	,000
	Error	,009	15	,001[b]		
KELOMPOK	Hypothesis	,004	3	,001	2,396	,109
	Error	,009	15	,001[b]		
VARIETAS *	Hypothesis	1,401	2	,700	1132,322	,000
MEDIA_TANAM	Error	,009	15	,001[b]		

Sidik Ragam Tinggi Tanaman Kedelai 56 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	60260,282	1	60260,282	174949204,839	,000
	Error	,001	3	,000[a]		
VARIETAS	Hypothesis	317,990	1	317,990	378059,921	,000
	Error	,013	15	,001[b]		
MEDIA_TANAM	Hypothesis	20,794	2	10,397	12360,798	,000
	Error	,013	15	,001[b]		
KELOMPOK	Hypothesis	,001	3	,000	,410	,748
	Error	,013	15	,001[b]		
VARIETAS *	Hypothesis	5,235	2	2,618	3112,237	,000
MEDIA_TANAM	Error	,013	15	,001[b]		

Hasil Uji Lanjut Tinggi Tanaman Kedelai

Kombinasi Perlakuan	14 HST	28 HST	42 HST	56 HST
V1M1 (Argomulyo & Media 1)	7.59a	18.33a	31.36a	44.58a
V1M2 (Argomulyo & Media 2)	7.86b	18.42b	33.24b	47.36b
V1M3 (Argomulyo & Media 3)	7.89b	18.64c	33.44c	47.47c
V2M1 (G.Kuning & Media 1)	7.92c	19.53d	34.54d	53.04d
V2M2 (G.Kuning & Media 2)	8.04d	19.76f	37.47f	54.54f
V2M3 (G.Kuning & Media 3)	8.14e	19.61e	36.65e	53.65e

Lampiran 3. Sidik Ragam dan Uji Lanjut Diameter Batang Tanaman Kedelai 14, 28,42, dan 56 HST

Sidik Ragam Diameter Batang Tanaman Kedelai 14 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	114,669	1	114,669	1214140,412	,000
	Error	,000	3	9,444E-5[a]		
VARIETAS	Hypothesis	,308	1	,308	527,452	,000
	Error	,009	15	,001[b]		
MEDIA_TANAM	Hypothesis	,117	2	,058	99,974	,000
	Error	,009	15	,001[b]		
KELOMPOK	Hypothesis	,000	3	9,444E-5	,162	,921
	Error	,009	15	,001[b]		
VARIETAS *	Hypothesis	,063	2	,032	54,247	,000
MEDIA_TANAM	Error	,009	15	,001[b]		

Sidik Ragam Diameter Batang Tanaman Kedelai 28 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	621,082	1	621,082	1536697,742	,000
	Error	,001	3	,000[a]		
VARIETAS	Hypothesis	,917	1	,917	1060,564	,000
	Error	,013	15	,001[b]		
MEDIA_TANAM	Hypothesis	,046	2	,023	26,880	,000
	Error	,013	15	,001[b]		
KELOMPOK	Hypothesis	,001	3	,000	,468	,709
	Error	,013	15	,001[b]		
VARIETAS *	Hypothesis	,024	2	,012	14,094	,000
MEDIA_TANAM	Error	,013	15	,001[b]		

Sidik Ragam Diameter Batang Tanaman Kedelai 42 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	1603,772	1	1603,772	11663792,758	,000
	Error	,000	3	,000[a]		
VARIETAS	Hypothesis	3,046	1	3,046	3307,805	,000
	Error	,014	15	,001[b]		
MEDIA_TANAM	Hypothesis	,316	2	,158	171,805	,000
	Error	,014	15	,001[b]		
KELOMPOK	Hypothesis	,000	3	,000	,149	,929
	Error	,014	15	,001[b]		
VARIETAS *	Hypothesis	,126	2	,063	68,213	,000
MEDIA_TANAM	Error	,014	15	,001[b]		

Sidik Ragam Diameter Batang Tanaman Kedelai 56 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	1960,234	1	1960,234	3493485,891	,000
	Error	,002	3	,001[a]		
VARIETAS	Hypothesis	7,415	1	7,415	8447,259	,000
	Error	,013	15	,001[b]		
MEDIA_TANAM	Hypothesis	,422	2	,211	240,622	,000
	Error	,013	15	,001[b]		
KELOMPOK	Hypothesis	,002	3	,001	,639	,601
	Error	,013	15	,001[b]		
VARIETAS *	Hypothesis	,212	2	,106	120,850	,000
MEDIA_TANAM	Error	,013	15	,001[b]		

Hasil Uji Lanjut Diameter Batang Tanaman Kedelai

Kombinasi Perlakuan	14 HST	28 HST	42 HST	56 HST
V1M1 (Argomulyo & Media 1)	1.91a	4.85a	7.73a	8.29a
V1M2 (Argomulyo & Media 2)	2.12b	4.90b	7.83b	8.42b
V1M3 (Argomulyo & Media 3)	2.20c	4.93b	7.89c	8.74c
V2M1 (G.Kuning & Media 1)	2.28d	5.21c	8.30d	9.43d
V2M2 (G.Kuning & Media 2)	2.30d	5.38e	8.74f	9.74f
V2M3 (G.Kuning & Media 3)	2.32e	5.27d	8.54e	9.61e

Lampiran 4. Sidik Ragam dan Uji Lanjut Jumlah Daun Tanaman Kedelai 14, 28,42, dan 56 HST

Sidik Ragam Jumlah Daun Tanaman Kedelai 14 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	315,375	1	315,375	4841,991	,000
	Error	,195	3	,065[a]		
VARIETAS	Hypothesis	1,058	1	1,058	41,452	,000
	Error	,383	15	,026[b]		
MEDIA_TANAM	Hypothesis	,253	2	,126	4,945	,022
	Error	,383	15	,026[b]		
KELOMPOK	Hypothesis	,195	3	,065	2,551	,095
	Error	,383	15	,026[b]		
VARIETAS *	Hypothesis	,198	2	,099	3,879	,044
MEDIA_TANAM	Error	,383	15	,026[b]		

Sidik Ragam Jumlah Daun Tanaman Kedelai 28 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	3996,937	1	3996,937	61670,546	,000
	Error	,194	3	,065[a]		
VARIETAS	Hypothesis	4,987	1	4,987	106,281	,000
	Error	,704	15	,047[b]		
MEDIA_TANAM	Hypothesis	1,082	2	,541	11,531	,001
	Error	,704	15	,047[b]		
KELOMPOK	Hypothesis	,194	3	,065	1,381	,287
	Error	,704	15	,047[b]		
VARIETAS *	Hypothesis	,462	2	,231	4,928	,023
MEDIA_TANAM	Error	,704	15	,047[b]		

Sidik Ragam Jumlah Daun Tanaman Kedelai 42 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	22011,138	1	22011,138	496927,736	,000
	Error	,133	3	,044[a]		
VARIETAS	Hypothesis	58,844	1	58,844	1515,643	,000
	Error	,582	15	,039[b]		
MEDIA_TANAM	Hypothesis	5,692	2	2,846	73,299	,000
	Error	,582	15	,039[b]		
KELOMPOK	Hypothesis	,133	3	,044	1,141	,365
	Error	,582	15	,039[b]		
VARIETAS *	Hypothesis	2,305	2	1,153	29,689	,000
MEDIA_TANAM	Error	,582	15	,039[b]		

Sidik Ragam Jumlah Daun Tanaman Kedelai 56 HST

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	51639,493	1	51639,493	70955028,298	,000
	Error	,002	3	,001[a]		
VARIETAS	Hypothesis	585,094	1	585,094	703989,806	,000
	Error	,012	15	,001[b]		
MEDIA_TANAM	Hypothesis	13,098	2	6,549	7879,968	,000
	Error	,012	15	,001[b]		
KELOMPOK	Hypothesis	,002	3	,001	,876	,476
	Error	,012	15	,001[b]		
VARIETAS *	Hypothesis	3,023	2	1,512	1818,725	,000
MEDIA_TANAM	Error	,012	15	,001[b]		

Hasil Uji Lanjut Jumlah Daun Tanaman Kedelai

Kombinasi Perlakuan	14 HST	28 HST	42 HST	56 HST
V1M1 (Argomulyo & Media 1)	3.25a	12.33a	27.63a	40.60a
V1M2 (Argomulyo & Media 2)	3.33a	12.49a	29.17b	41.67b
V1M3 (Argomulyo & Media 3)	3.67b	12.53a	29.36b	42.08c
V2M1 (G.Kuning & Media 1)	3.75b	12.90b	31.57c	50.14d
V2M2 (G.Kuning & Media 2)	3.83b	13.74c	32.20d	52.53f
V2M3 (G.Kuning & Media 3)	3.92c	13.44c	31.78c	51.30e

Lampiran 5. Sidik Ragam dan Uji Lanjut Hasil Produksi Tanaman Kedelai

Sidik Ragam Jumlah Polong Kedelai

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	179410,552	1	179410,552	2198735946,062	,000
	Error	,000	3	8,160E-5[a]		
VARIETAS	Hypothesis	16596,089	1	16596,089	27740407,433	,000
	Error	,009	15	,001[b]		
MEDIA_TANAM	Hypothesis	39,794	2	19,897	33257,527	,000
	Error	,009	15	,001[b]		
KELOMPOK	Hypothesis	,000	3	8,160E-5	,136	,937
	Error	,009	15	,001[b]		
VARIETAS *	Hypothesis	6,201	2	3,100	5182,146	,000
MEDIA_TANAM	Error	,009	15	,001[b]		

Sidik Ragam Berat Basah Polong Kedelai

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	110035,521	1	110035,521	30534,570	,000
	Error	10,811	3	3,604[a]		
VARIETAS	Hypothesis	2711,713	1	2711,713	816,117	,000
	Error	49,841	15	3,323[b]		
MEDIA_TANAM	Hypothesis	57,702	2	28,851	8,683	,003
	Error	49,841	15	3,323[b]		
KELOMPOK	Hypothesis	10,811	3	3,604	1,085	,386
	Error	49,841	15	3,323[b]		
VARIETAS *	Hypothesis	42,783	2	21,391	6,438	,010
MEDIA_TANAM	Error	49,841	15	3,323[b]		

Sidik Ragam Berat Kering Polong Kedelai

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	27717,033	1	27717,033	24934942,273	,000
	Error	,003	3	,001[a]		
VARIETAS	Hypothesis	524,192	1	524,192	686631,483	,000
	Error	,011	15	,001[b]		
MEDIA_TANAM	Hypothesis	31,039	2	15,519	20328,450	,000
	Error	,011	15	,001[b]		
KELOMPOK	Hypothesis	,003	3	,001	1,456	,266
	Error	,011	15	,001[b]		
VARIETAS *	Hypothesis	20,559	2	10,280	13465,126	,000
MEDIA_TANAM	Error	,011	15	,001[b]		

Sidik Ragam Jumlah Biji Kedelai

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	802193,441	1	802193,441	940853087,541	,000
	Error	,003	3	,001[a]		
VARIETAS	Hypothesis	55984,530	1	55984,530	92901315,278	,000
	Error	,009	15	,001[b]		
MEDIA_TANAM	Hypothesis	122,773	2	61,387	101865,754	,000
	Error	,009	15	,001[b]		
KELOMPOK	Hypothesis	,003	3	,001	1,415	,277
	Error	,009	15	,001[b]		
VARIETAS *	Hypothesis	37,981	2	18,991	31513,127	,000
MEDIA_TANAM	Error	,009	15	,001[b]		

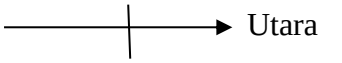
Sidik Ragam Berat Biji Kedelai

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	11488,021	1	11488,021	17619500,197	,000
	Error	,002	3	,001[a]		
VARIETAS	Hypothesis	12,255	1	12,255	21462,992	,000
	Error	,009	15	,001[b]		
MEDIA_TANAM	Hypothesis	16,129	2	8,064	14123,619	,000
	Error	,009	15	,001[b]		
KELOMPOK	Hypothesis	,002	3	,001	1,142	,364
	Error	,009	15	,001[b]		
VARIETAS *	Hypothesis	8,103	2	4,052	7095,755	,000
MEDIA_TANAM	Error	,009	15	,001[b]		

Hasil Uji Lanjut Produksi Tanaman Kedelai

Kombinasi Perlakuan	Jumlah Polong	Berat Basah Polong	Berat Kering Polong	Jumlah Biji	Berat Kering Biji	Berat 100 Biji
V1M1 (Argo & Media 1)	58.69a	56.26a	28.88a	130.63a	19.69a	15.07d
V1M2 (Argo & Media 2)	60.21b	57.30b	29.45b	134.64b	21.21b	15.75e
V1M3 (Argo & Media 3)	61.59c	57.69c	29.61c	138.49c	21.75c	16.30f
V2M1 (G.Kng & Media 1)	110.60d	75.69d	36.29d	228.79d	22.59e	9.52a
V2M2 (G.Kng & Media 2)	114.24f	82.32f	41.29f	233.04f	23.64f	9.97c
V2M3 (G.Kng & Media 3)	113.43e	79.02e	38.40e	231.54e	22.39d	9.65b

Lampiran 6. Denah Perlakuan



U1	U2	U3	U4
V1M1	V1M2	V2M2	V2M3
V1M2	V2M3	V1M3	V2M2
V1M3	V2M2	V2M1	V1M1
V2M1	V1M1	V2M3	V1M2
V2M2	V1M3	V1M1	V2M1
V2M3	V2M1	V1M2	V1M3

Lampiran 7. Dokumentasi Penelitian

Gambar 1. Persiapan media tanam

Gambar 2. Pemberian *Trichoderma* sp. 15 gram per polybag

Gambar 3. Penanaman benih kedelai

Gambar 4. Penyiraman rutin setiap hari

Gambar 5. Tanaman kedelai umur 7 HST

Gambar 6. Pemupukan NPK 200 ml per tanaman

Gambar 7. Pengamatan tinggi tanaman 14 HST

Gambar 8. Pengamatan diameter batang 14 HST

Gambar 9. Pengamatan jumlah daun 14 HST

Gambar 10. Penyiangan sekitar media tanam

Gambar 11. Penyulaman

Gambar 12. Pengendalian hama dengan insectisida

Gambar 13. Pemasangan ajir tanaman

Gambar 14. Pemupukan daun

Gambar 15. Pemanenan kedelai varietas Gepak Kuning 75 HST

Gambar 16. Pemanenan kedelai varietas Argomulyo 81 HST

Gambar 17. Penghitungan dan penimbangan berat basah polong

Gambar 18. Penjemuran polong

Gambar 19. Penimbangan berat kering polong

Gambar 20. Penimbangan berat kering biji