

DAFTAR PUSTAKA

- Adnan, 2015. Pengaruh Pupuk NPK dan Pupuk Organik Terhadap Pertumbuhan Bibit Kelapa Sawit (*Elaeis guineensis* Jacq) di *Main Nursery*. *Jurnal Agro industri Perkebunan Vol 3 No 2*.
- Amini, S., & Syamdidi. (2016). Konsentrasi Unsur Hara pada Media dan Pertumbuhan *Chlorella vulgaris* dengan Pupuk Anorganik Teknis dan Analisis. *Jurnal Perikanan Universitas Gadjah Mada*, 8(2): 201–206.
- Arifin, S.Z., Maryana, dan Subroto. 2013. Pertumbuhan bibit asam manis (Sweet tamarind) pada berbagai jenis tanah. Prosiding Seminar Nasional Kemandirian Pangan dan Energi. pp. 291-295. ISSN 978-602-14235-0-9.
- Kasno, A., Trustinah, & Wijanarko, A. (2017). Identifikasi Teknologi Budidaya Koro Pedang di Lahan Kering. Prosiding Seminar Hasil Penelitian Tanaman Aneka Kacang Dan Umbi. *balitkabi-litbang-pertanian.go.id* : 5 (10), 648–657
- Kuvaini, A., 2014, Pengaruh Perbedaan Komposisi Media Tanam Terhadap Pertumbuhan Bibit Kelapa Sawit pada Tahap Pre-nursery <https://www.researchgate.net/publication/335528249>. Diakses 01 Januari 2019.
- Lubis, R., E., & Widanarko. (2011). *Buku Pintar Kelapa Sawit*. Jakarta Selatan: PT. Agromedia Pustaka.
- Madusari, S. (2015). Respons Pertumbuhan Bibit Kelapa Sawit (*Elaeis guineensis* Jacq.) Terhadap Pemberian Abu Boiler Pada Media Tanam Pre-Nursery. *Jurnal Citra Widya Edukasi*, 2012, 11–17. http://journal.cwe.ac.id/index.php/jurnal_citrawidyaedukasi/article/view/99
- Manahan, S., Idwar, & Wardati. (2016). Pengaruh Pupuk NPK Dan Kascing Terhadap Pertumbuhan Kelapa Sawit (*Elaeis guineensis* Jacq.) Fase Main Nursery. *Universitas Riau JOM Faperta*, 3(2), 1.
- Nikiyuluw, V., Soplanit, R. dan Siregar, A. 2018. Efisiensi pemberian air dan kompos terhadap mineralisasi NPK pada tanah Regosol. *Jurnal Budidaya Pertanian* 14(2):105-112.
- Perdamean, M., (2017). *Kupas Tuntas Agribisnis Kelapa Sawit*. Jakarta: Penebar Swadaya.

- Prasetyo, Rohmiyati dan Hastuti (2018) Pengaruh Dosis Pupuk Organik (Senyawa Humat) Terhadap Pertumbuhan Bibit Kelapa Sawit pada Jenis Tanah yang Berbeda. *Jurnal Agromast*. Vol . 3 . No 1 April 2018.
- Purtomo, T., Mujanah, S., Susanti, T. W. 2014. Pengaruh Penggunaan Pupuk Anorganik hayati Terhadap Sifat Kimia Tanah Pertanian di Kecamatan Pare Kabupaten Kediri. *Jurnal Agroknow*. 2(1): 51-58
- Raintung, J.S.M. 2010. Pengolahan Tanah dan Hasil Kedelai (*Glycine max* L. Merill). *Soil Environment* 8(2): 65-68
- Rohmiyati, S.M. Hastuti, P. B dan Mahessa, G.R. 2018. Aplikasi Bioslury Padat Terhadap Pertumbuhan Bibit Kelapa Sawit Pre Nursery Pada Berbagai Jenis Tanah. *Jurnal Agroista*. 02 (2) : 194 –195.
- Saputro, N. A., Setyawati, E. R., & Hastuti, P. B. (2017). Pengaruh konsentrasi urin kambing feremntasi dan komposisi media tanam terhadap pertumbuhan bibit kelapa sawit (*Elaeis guineensis* Jacq.) di pre nursery. *Jurnal AGROMAST*, 2(1), 1–14. <http://www.tjyybjb.ac.cn/CN/article/downloadArticleFile.do?attachType=PDF&id=9987>
- Sarwandy. Rohmiyati, S.M dan Andayani, N. 2017. Pertumbuhan Berapa Varietas Bibit Kelapa Sawit di Pre Nursery pada Beberapa Jenis Tanah. *Jurnal Agromast* 2 (2) : 11.
- Segara, B., Hawalid, H., & Moelyahadi, Y. (2015). Pengaruh Komposisi Media Tanam Dan Pupuk NPK Makjemuk Terhadap Pertumbuhan Bibit Kelapa Sawit (*Elaeis guineensis* Jacq.) Pada Stadia Pre Nursery. *Jurnal Klorofil*, X(2), 68–75.
- Setyorini. Hartati dan Damania. (2020) Pertumbuhan Bibit Kelapa Sawit di Pre Nursery Dengan Pemberian Pupuk Organik Cair Kulit Pisang dan Pupuk NPK. *Jurnal Pertanian* SSN 16.93 – 2877. EISSN 2502 – 0455. *Agritop*, Vol . 18.(1): 98- 106.
- Sitorus, C. M. V., Setyorini, T., & Suryanti, S. (2021). Pengaruh Pupuk NPK Dan Pupuk Silika Terhadap Pertumbuhan Bibit Kelapa Sawit (*Elaeis guineensis* Jacq.) Di Pembibitan Utama. *Agroista : Journal Agrotechnology*, 5(2). <https://doi.org/10.55180/agi.v5i2.104>
- Sofyan, S., Rinarti, E. M., dan Duryat, 2014, Pemanfaatan Limbah Teh, Sekam Padi,dan Arang Sekam Sebagai Media Tumbuh Bibit Trembesi (*Samanea saman*), *Jurnal Sylva Lestari*, 2 (2): 61-70.

Wibowo, S.F. *at al* (2021). Pengaruh Dosis Arang Sekam Pada Beberapa Jenis Tanah Terhadap Pertumbuhan Bibit Kelapa Sawit di *Pre Nursery*. *Journal Agromas*, Vol. 6, No 1. April. 2021.

LAMPIRAN

Lampiran 1. Sidik ragam tinggi bibit

Tests of Between-Subjects Effects

Dependent Variable: Tinggi Bibit

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	28.458 ^a	11	2,587	,900	,547
Intercept	30145,933	1	30145,933	10486,454	,000
Dosis	18,947	3	6,316	2,197	,101
volume	1,227	2	,614	,213	,809
Dosis * volume	8,284	6	1,381	,480	,820
Error	137,988	48	2,875		
Total	30312,380	60			
Corrected Total	166,447	59			

a. R Squared = .171 (Adjusted R Squared = -.019)

Lampiran 2. Diameter batang

Tests of Between-Subjects Effects

Dependent Variable: Diameter Batang

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3.362 ^a	11	,306	1,020	,444
Intercept	3420,150	1	3420,150	11410,008	,000
Dosis	2,043	3	,681	2,272	,092
volume	,837	2	,419	1,396	,257
Dosis * volume	,482	6	,080	,268	,949
Error	14,388	48	,300		
Total	3437,900	60			
Corrected Total	17,750	59			

a. R Squared = .189 (Adjusted R Squared = .004)

Lampiran 3. Sidik ragam Jumlah Daun

Tests of Between-Subjects Effects

Dependent Variable: Jumlah daun

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.933 ^a	11	,176	,680	,750
Intercept	1041,667	1	1041,667	4032,258	,000
Dosis	,200	3	,067	,258	,855
Volime	,533	2	,267	1,032	,364
Dosis * Volime	1,200	6	,200	,774	,594
Error	12,400	48	,258		
Total	1056,000	60			
Corrected Total	14,333	59			

a. R Squared = .135 (Adjusted R Squared = -.063)

Lampiran 4. Sidik ragam berat segar tajuk

Tests of Between-Subjects Effects

Dependent Variable: berat segar tajuk

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.219 ^a	11	,020	1,139	,353
Intercept	18,559	1	18,559	1059,824	,000
Dosis	,084	3	,028	1,603	,201
volume	,046	2	,023	1,309	,279
Dosis * volume	,089	6	,015	,851	,537
Error	,841	48	,018		
Total	19,619	60			
Corrected Total	1,060	59			

a. R Squared = .207 (Adjusted R Squared = .025)

Lampiran 5. Berat kering tajuk

Tests of Between-Subjects Effects

Dependent Variable: Berat kering tajuk

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.219 ^a	11	.020	1,139	,353
Intercept	18,559	1	18,559	1059,824	,000
Dosis	,084	3	,028	1,603	,201
volume	,046	2	,023	1,309	,279
Dosis * volume	,089	6	,015	,851	,537
Error	,841	48	,018		
Total	19,619	60			
Corrected Total	1,060	59			

a. R Squared = .207 (Adjusted R Squared = .025)

Lampiran 6. Berat Segar Akar

Tests of Between-Subjects Effects

Dependent Variable: Berat Segar Akar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	5.924 ^a	11	,539	,428	,936
Intercept	1153,080	1	1153,080	917,045	,000
Dosis	1,047	3	,349	,278	,841
volume	,369	2	,185	,147	,864
Dosis * volume	4,507	6	,751	,597	,731
Error	60,355	48	1,257		
Total	1219,358	60			
Corrected Total	66,279	59			

a. R Squared = .089 (Adjusted R Squared = -.119)

Lampiran 7. Berat Kering Akar

Tests of Between-Subjects Effects

Dependent Variable: Berat Kering Akar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3.326 ^a	11	,302	,718	,715
Intercept	317,538	1	317,538	754,499	,000
Dosis	1,549	3	,516	1,227	,310
volume	,923	2	,461	1,096	,342
Dosis * volume	,855	6	,142	,339	,913
Error	20,201	48	,421		
Total	341,066	60			
Corrected Total	23,527	59			

a. R Squared = .141 (Adjusted R Squared = -.055)

Lampiran 8. Panjang Akar

Tests of Between-Subjects Effects

Dependent Variable: Panjang Akar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	296.153 ^a	11	26,923	1,540	,148
Intercept	38001,667	1	38001,667	2174,216	,000
Dosis	20,603	3	6,868	,393	,759
volume	76,201	2	38,101	2,180	,124
Dosis * volume	199,349	6	33,225	1,901	,100
Error	838,960	48	17,478		
Total	39136,780	60			
Corrected Total	1135,113	59			

a. R Squared = .261 (Adjusted R Squared = .092)

Lampiran 9. Berat Segar Tanaman

Tests of Between-Subjects Effects

Dependent Variable: Berat Segar Tanaman

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	18.493 ^a	11	1,681	1,056	,415
Intercept	2435,888	1	2435,888	1530,663	,000
Dosis volume	4,065	3	1,355	,851	,473
Dosis * volume	1,926	2	,963	,605	,550
Error	12,502	6	2,084	1,309	,271
Total	76,387	48	1,591		
Corrected Total	2530,768	60			
	94,880	59			

a. R Squared = .195 (Adjusted R Squared = .010)

Lampiran 10. Berat Kering Tanaman

Tests of Between-Subjects Effects

Dependent Variable: Berat Kering Tanaman

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3.383 ^a	11	,308	,718	,715
Intercept	500,075	1	500,075	1167,781	,000
Dosis volume	1,986	3	,662	1,546	,215
Dosis * volume	,768	2	,384	,897	,415
Error	,629	6	,105	,245	,959
Total	20,555	48	,428		
Corrected Total	524,013	60			
	23,938	59			

a. R Squared = .141 (Adjusted R Squared = -.055)

Lampiran 11. Luas Daun

Tests of Between-Subjects Effects

Dependent Variable: Luas Daun

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	6601.600 ^a	11	600,145	1,310	,248
Intercept	1446312,109	1	1446312,109	3158,083	,000
Dosis	3424,902	3	1141,634	2,493	,071
volume	1255,320	2	627,660	1,371	,264
Dosis * volume	1921,378	6	320,230	,699	,651
Error	21982,635	48	457,972		
Total	1474896,344	60			
Corrected Total	28584,235	59			

a. R Squared = .231 (Adjusted R Squared = .055)

Lampiran 12. Layout penelitian

P3T3U3	P1T3U4	P3T1U1	P3T1U4	P1T2U1	P1T1U3
P3T1U2	P2T2U5	P0T2U2	P0T3U5	P3T3U1	P0T1U3
P0T2U4	P3T3U4	P0T3U3	P2T3U4	P0T1U4	P1T1U2
P2T1U5	P3T1U3	P0T3U1	P1T3U3	P1T3U5	P3T3U2
P3T1U5	P2T3U2	P2T2U1	P3T2U3	P1T3U2	P0T3U4
P0T2U1	P1T1U1	P3T2U5	P0T1U5	P1T1U5	P1T3U1
P0T2U3	P2T3U3	P3T2U4	P2T2U4	P2T2U2	P0T1U2
P0T1U1	P3T3U5	P3T2U1	P2T3U1	P1T2U4	P0T2U5
P1T2U2	P2T1U4	P2T1U3	P3T2U2	P2T3U5	P2T1U1
P1T2U5	P1T2U3	P0T3U2	P1T1U4	P2T2U3	P2T1U2

1. Faktor pertama yaitu dosis pupuk anorganik NPK yang terdiri dari 4 aras yaitu :
 - P0 = kontrol
 - P1 = 0,2 g/polybag
 - P2 = 0,4 g/polybag
 - P3 = 0,6 g/polybag
2. Faktor kedua menggunakan media tanam yang terdiri dari 3 aras yaitu:
 - T1 = Tanah Regosol + Sekam Padi Bakar (1 : 1)
 - T2 = Tanah Latosol + Sekam Padi Bakar (1 : 1)
 - T3 = Tanah Grumosol + Sekam Padi Bakar (1 : 1)

Gambar 1. Dokumentasi Pelaksanaan penelitian



Gambar 2. Dokumentasi Pelaksanaan penelitian

