POLA SEBARAN *FEEDING ROOTS* (AKAR TERSIER DAN KUARTER) TANAMAN KELAPA SAWIT *(Elaeis guineensis Jacq)* PADA BERBAGAI TUTUPAN LAHAN, JARAK DAN VARIASI KEDALAMAN GAMBUT DI PT. UMBUL MAS WISESA, LABUHAN BATU SELATAN

TESIS

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PROGRAM STUDI MAGISTER AGROTEKNOLOGI

FAKULTAS PERTANIAN

UNIVERSITAS ISLAM SUMATERA UTARA

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Tesis ini merupakan salah satu syarat untuk melakukan penelitian Program Studi Magister Agroteknologi pada Fakultas Pertanian Universitas Islam Sumatera Utara

Menyetujui,
Komisi Pembimbing

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LAMPIRAN

1. Hasil Analisis Sidik Ragam Bobot Basah Feeding Roots

```
UNIANOVA BBFR BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok
  /METHOD=SSTYPE(3)
  /INTERCEPT=EXCLUDE
  /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY DUNCAN LSD)
  /CRITERIA=ALPHA(0.05)
  /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan
Jarak*Kedalaman_Gambut*Tutupan_Lahan.
```

Univariate Analysis of Variance

Notes

Output Created		20-DEC-2024 19:57:04
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	135
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.

Syntax		UNIANOVA BBFR BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok /METHOD=SSTYPE(3) /INTERCEPT=EXCLUDE /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY DUNCAN LSD) /CRITERIA=ALPHA(0.05) /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan Jarak*Kedalaman_Gambut*Tutupan_Lahan.
Resources	Processor Time	00:00:00.09
	Elapsed Time	00:00:00.10

[DataSet2]

Between-Subjects Factors

		Value Label	N
Kedalaman Gambut	1.00	Kedalaman Gambut 0.5 m-1,.5 m	45

	2.00	Kedalaman Gambut 1.5 - 3 m	45
	3.00	Kedalaman Gambut >3m	45
	.00	Piringan dan Pasar Pikul	45
Tutupan Lahan	1.00	Rumpukan Pelepah	45
	2.00	Vegetasi di Gawangan Mati	45
	1.00	1 m	27
	2.00	2 m	27
Jarak ke Batang Kelapa Sawit	3.00	3 m	27
	4.00	4 m	27
	5.00	4.5 m	27
	1.00	Kelompok 1	45
Kelompok	2.00	Kelompok 2	45
	3.00	Kelompok 3	45

Tests of Between-Subjects Effects

Dependent Variable: Bobot Basah Feeding Roots

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	26512.239[a]	47	564.090	4.832	.000
Kedalaman_Gambut	109.952	2	54.976	.471	.626
Tutupan_Lahan	1640.593	2	820.296	7.026	.001
Jarak	4818.155	4	1204.539	10.318	.000
Kelompok	765.153	2	382.577	3.277	.042

Kedalaman_Gambut * Tutupan_Lahan	501.863	4	125.466	1.075	.374
Kedalaman_Gambut * Jarak	741.327	8	92.666	.794	.610
Tutupan_Lahan * Jarak	731.547	8	91.443	.783	.619
Kedalaman_Gambut * Tutupan_Lahan * Jarak	1614.965	16	100.935	.865	.611
Error	10273.442	88	116.744		
Total	36785.681	135			

a. R Squared = .721 (Adjusted R Squared = .572)

Post Hoc Tests

Kedalaman Gambut

Multiple Comparisons

Dependent Variable: Bobot Basah Feeding Roots

	(I) Kedalaman Gambut	(J) Kedalaman Gambut	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Tukey HSD	Kedalaman Gambut 0.5 m-1,.5 m	Kedalaman Gambut 1.5 - 3 m	-2.1498	2.27785	.614	-7.5802	3.2806
		Kedalaman Gambut >3m	-.6289	2.27785	.959	-6.0593	4.8015
	Kedalaman Gambut 1.5 - 3 m	Kedalaman Gambut 0.5 m-1,.5 m	2.1498	2.27785	.614	-3.2806	7.5802
		Kedalaman Gambut >3m	1.5209	2.27785	.783	-3.9095	6.9513
	Kedalaman Gambut >3m	Kedalaman Gambut 0.5 m-1,.5 m	.6289	2.27785	.959	-4.8015	6.0593
		Kedalaman Gambut 1.5 - 3 m	-1.5209	2.27785	.783	-6.9513	3.9095
LSD	Kedalaman Gambut 0.5 m-1,.5 m	Kedalaman Gambut 1.5 - 3 m	-2.1498	2.27785	.348	-6.6765	2.3770
		Kedalaman Gambut >3m	-.6289	2.27785	.783	-5.1556	3.8979
	Kedalaman Gambut 1.5 - 3 m	Kedalaman Gambut 0.5 m-1,.5 m	2.1498	2.27785	.348	-2.3770	6.6765

Kedalaman Gambut >3m	Kedalaman Gambut >3m	1.5209	2.27785	.506	-3.0059	6.0476
	Kedalaman Gambut 0.5 m-1,.5 m	.6289	2.27785	.783	-3.8979	5.1556
	Kedalaman Gambut 1.5 - 3 m	-1.5209	2.27785	.506	-6.0476	3.0059

Based on observed means.

The error term is Mean Square(Error) = 116.744.

Homogeneous Subsets

Bobot Basah Feeding Roots

	Kedalaman Gambut	N	Subset
			1
Tukey HSD[a,b]	Kedalaman Gambut 0.5 m-1,.5 m	45	9.8196
	Kedalaman Gambut >3m	45	10.4484
	Kedalaman Gambut 1.5 - 3 m	45	11.9693
	Sig.		.614
Duncan[a,b]	Kedalaman Gambut 0.5 m-1,.5 m	45	9.8196
	Kedalaman Gambut >3m	45	10.4484
	Kedalaman Gambut 1.5 - 3 m	45	11.9693
	Sig.		.379

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 116.744.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Tutupan Lahan

Multiple Comparisons

Dependent Variable: Bobot Basah Feeding Roots

	(I) Tutupan Lahan	(J) Tutupan Lahan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Tukey HSD	Piringan dan Pasar Pikul	Rumpukan Pelepah	6.8336*	2.27785	.010	1.4031	12.2640
		Vegetasi di Gawangan Mati	7.8511*	2.27785	.002	2.4207	13.2815
	Rumpukan Pelepah	Piringan dan Pasar Pikul	-6.8336*	2.27785	.010	-12.2640	-1.4031
		Vegetasi di Gawangan Mati	1.0176	2.27785	.896	-4.4129	6.4480
	Vegetasi di Gawangan Mati	Piringan dan Pasar Pikul	-7.8511*	2.27785	.002	-13.2815	-2.4207
		Rumpukan Pelepah	-1.0176	2.27785	.896	-6.4480	4.4129
LSD	Piringan dan Pasar Pikul	Rumpukan Pelepah	6.8336*	2.27785	.004	2.3068	11.3603
		Vegetasi di Gawangan Mati	7.8511*	2.27785	.001	3.3244	12.3779
	Rumpukan Pelepah	Piringan dan Pasar Pikul	-6.8336*	2.27785	.004	-11.3603	-2.3068
		Vegetasi di Gawangan Mati	1.0176	2.27785	.656	-3.5092	5.5443
	Vegetasi di Gawangan Mati	Piringan dan Pasar Pikul	-7.8511*	2.27785	.001	-12.3779	-3.3244
		Rumpukan Pelepah	-1.0176	2.27785	.656	-5.5443	3.5092

Based on observed means.

The error term is Mean Square(Error) = 116.744.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Bobot Basah Feeding Roots

	Tutupan Lahan	N	Subset	
			1	2
Tukey HSD[a,b]	Vegetasi di Gawangan Mati	45	7.7896	
	Rumpukan Pelepah	45	8.8071	

Duncan[a,b]	Piringan dan Pasar Pikul	45		15.6407
	Sig.		.896	1.000
	Vegetasi di Gawangan Mati	45	7.7896	
	Rumpukan Pelepah	45	8.8071	
	Piringan dan Pasar Pikul	45		15.6407
	Sig.		.656	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 116.744.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Jarak ke Batang Kelapa Sawit

Multiple Comparisons

Dependent Variable: Bobot Basah Feeding Roots

	(I) Jarak ke Batang Kelapa Sawit	(J) Jarak ke Batang Kelapa Sawit	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Tukey HSD	1 m	2 m	4.1889	2.94069	.614	-4.0014	12.3791
		3 m	10.9485*	2.94069	.003	2.7583	19.1388
		4 m	14.6485*	2.94069	.000	6.4583	22.8388
		4.5 m	15.2130*	2.94069	.000	7.0227	23.4032
	2 m	1 m	-4.1889	2.94069	.614	-12.3791	4.0014
		3 m	6.7596	2.94069	.155	-1.4306	14.9499
		4 m	10.4596*	2.94069	.005	2.2694	18.6499

LSD	3 m	4.5 m	11.0241*	2.94069	.003	2.8338	19.2143
		1 m	-10.9485*	2.94069	.003	-19.1388	-2.7583
		2 m	-6.7596	2.94069	.155	-14.9499	1.4306
		4 m	3.7000	2.94069	.717	-4.4903	11.8903
		4.5 m	4.2644	2.94069	.597	-3.9258	12.4547
	4 m	1 m	-14.6485*	2.94069	.000	-22.8388	-6.4583
		2 m	-10.4596*	2.94069	.005	-18.6499	-2.2694
		3 m	-3.7000	2.94069	.717	-11.8903	4.4903
		4.5 m	.5644	2.94069	1.000	-7.6258	8.7547
	4.5 m	1 m	-15.2130*	2.94069	.000	-23.4032	-7.0227
		2 m	-11.0241*	2.94069	.003	-19.2143	-2.8338
		3 m	-4.2644	2.94069	.597	-12.4547	3.9258
		4 m	-.5644	2.94069	1.000	-8.7547	7.6258
	1 m	2 m	4.1889	2.94069	.158	-1.6551	10.0329
		3 m	10.9485*	2.94069	.000	5.1045	16.7925
		4 m	14.6485*	2.94069	.000	8.8045	20.4925
		4.5 m	15.2130*	2.94069	.000	9.3690	21.0570
	2 m	1 m	-4.1889	2.94069	.158	-10.0329	1.6551
		3 m	6.7596*	2.94069	.024	.9156	12.6036
		4 m	10.4596*	2.94069	.001	4.6156	16.3036
		4.5 m	11.0241*	2.94069	.000	5.1801	16.8681
	3 m	1 m	-10.9485*	2.94069	.000	-16.7925	-5.1045
		2 m	-6.7596*	2.94069	.024	-12.6036	-.9156
		4 m	3.7000	2.94069	.212	-2.1440	9.5440
		4.5 m	4.2644	2.94069	.151	-1.5796	10.1085

4 m	1 m	-14.6485*	2.94069	.000	-20.4925	-8.8045
	2 m	-10.4596*	2.94069	.001	-16.3036	-4.6156
	3 m	-3.7000	2.94069	.212	-9.5440	2.1440
	4.5 m	.5644	2.94069	.848	-5.2796	6.4085
4.5 m	1 m	-15.2130*	2.94069	.000	-21.0570	-9.3690
	2 m	-11.0241*	2.94069	.000	-16.8681	-5.1801
	3 m	-4.2644	2.94069	.151	-10.1085	1.5796
	4 m	-.5644	2.94069	.848	-6.4085	5.2796

Based on observed means.

The error term is Mean Square(Error) = 116.744.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Bobot Basah Feeding Roots

	Jarak ke Batang Kelapa Sawit	N	Subset		
			1	2	3
Tukey HSD[a,b]	4.5 m	27	4.5326		
	4 m	27	5.0970		
	3 m	27	8.7970	8.7970	
	2 m	27		15.5567	15.5567
	1 m	27			19.7456
	Sig.		.597	.155	.614
Duncan[a,b]	4.5 m	27	4.5326		
	4 m	27	5.0970		
	3 m	27	8.7970		
	2 m	27		15.5567	

1 m	27		19.7456		
Sig.		.175	.158		

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 116.744.

a. Uses Harmonic Mean Sample Size = 27.000.

b. Alpha = 0.05.

Kelompok

Multiple Comparisons

Dependent Variable: Bobot Basah Feeding Roots

	(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Tukey HSD	Kelompok 1	Kelompok 2	-1.0440	2.27785	.891	-6.4744	4.3864
		Kelompok 3	-5.4907*	2.27785	.047	-10.9211	-.0602
	Kelompok 2	Kelompok 1	1.0440	2.27785	.891	-4.3864	6.4744
		Kelompok 3	-4.4467	2.27785	.130	-9.8771	.9838
	Kelompok 3	Kelompok 1	5.4907*	2.27785	.047	.0602	10.9211
		Kelompok 2	4.4467	2.27785	.130	-.9838	9.8771
LSD	Kelompok 1	Kelompok 2	-1.0440	2.27785	.648	-5.5708	3.4828
		Kelompok 3	-5.4907*	2.27785	.018	-10.0174	-.9639
	Kelompok 2	Kelompok 1	1.0440	2.27785	.648	-3.4828	5.5708
		Kelompok 3	-4.4467	2.27785	.054	-8.9734	.0801
	Kelompok 3	Kelompok 1	5.4907*	2.27785	.018	.9639	10.0174
		Kelompok 2	4.4467	2.27785	.054	-.0801	8.9734

Based on observed means.

The error term is Mean Square(Error) = 116.744.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Bobot Basah Feeding Roots

	Kelompok	N	Subset	
			1	2
Tukey HSD[a,b]	Kelompok 1	45	8.5676	
	Kelompok 2	45	9.6116	9.6116
	Kelompok 3	45		14.0582
	Sig.		.891	.130
Duncan[a,b]	Kelompok 1	45	8.5676	
	Kelompok 2	45	9.6116	9.6116
	Kelompok 3	45		14.0582
	Sig.		.648	.054

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 116.744.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

2. Hasil Analisis Sidik Ragam Berat Kering Feeding Roots

```
UNIANOVA BKFR BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok
  /METHOD=SSTYPE(3)
  /INTERCEPT=EXCLUDE
  /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY)
  /CRITERIA=ALPHA(0.05)
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Jarak*Kedalaman_Gambut*Tutupan_Lahan.
```

Univariate Analysis of VarianceNotes

Output Created	20-DEC-2024 20:07:19

Comments		
Input	Active Dataset	DataSet2
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	Split File	<none>
	N of Rows in Working Data File	135
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA BKFR BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok /METHOD=SSTYPE(3) /INTERCEPT=EXCLUDE /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY) /CRITERIA=ALPHA(0.05) /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan Jarak*Kedalaman_Gambut*Tutupan_Lahan.
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[DataSet2] **Between-Subjects Factors**

	Value Label	N

Kedalaman Gambut	1.00	Kedalaman Gambut 0.5 m-1,.5 m	45
	2.00	Kedalaman Gambut 1.5 - 3 m	45
	3.00	Kedalaman Gambut >3m	45
Tutupan Lahan	.00	Piringan dan Pasar Pikul	45
	1.00	Rumpukan Pelepah	45
	2.00	Vegetasi di Gawangan Mati	45
Jarak ke Batang Kelapa Sawit	1.00	1 m	27
	2.00	2 m	27
	3.00	3 m	27
	4.00	4 m	27
	5.00	4.5 m	27
Kelompok	1.00	Kelompok 1	45
	2.00	Kelompok 2	45
	3.00	Kelompok 3	45

Tests of Between-Subjects Effects

Dependent Variable: Berat Kering Feeding Roots

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	1630.522[a]	47	34.692	5.871	.000
Kedalaman_Gambut	2.045	2	1.023	.173	.841

Tutupan_Lahan	29.196	2	14.598	2.471	.090
Jarak	433.710	4	108.427	18.350	.000
Kelompok	8.920	2	4.460	.755	.473
Kedalaman_Gambut * Tutupan_Lahan	19.442	4	4.861	.823	.514
Kedalaman_Gambut * Jarak	28.065	8	3.508	.594	.781
Tutupan_Lahan * Jarak	28.457	8	3.557	.602	.774
Kedalaman_Gambut * Tutupan_Lahan * Jarak	41.351	16	2.584	.437	.968
Error	519.982	88	5.909		
Total	2150.504	135			

a. R Squared = .758 (Adjusted R Squared = .629)

Post Hoc Tests

Kedalaman Gambut

Multiple Comparisons

Dependent Variable: Berat Kering Feeding Roots

Tukey HSD

(I) Kedalaman Gambut	(J) Kedalaman Gambut	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kedalaman Gambut 0.5 m-1,.5 m	Kedalaman Gambut 1.5 - 3 m	.2027	.51246	.917	-1.0190	1.4244
	Kedalaman Gambut >3m	-.0920	.51246	.982	-1.3137	1.1297
Kedalaman Gambut 1.5 - 3 m	Kedalaman Gambut 0.5 m-1,.5 m	-.2027	.51246	.917	-1.4244	1.0190
	Kedalaman Gambut >3m	-.2947	.51246	.834	-1.5164	.9270
Kedalaman Gambut >3m	Kedalaman Gambut 0.5 m-1,.5 m	.0920	.51246	.982	-1.1297	1.3137
	Kedalaman Gambut 1.5 - 3 m	.2947	.51246	.834	-.9270	1.5164

Based on observed means.

The error term is Mean Square(Error) = 5.909.

Homogeneous Subsets

Berat Kering Feeding Roots

Tukey HSD[a,b]

Kedalaman Gambut	N	Subset
		1
Kedalaman Gambut 1.5 - 3 m	45	2.6089
Kedalaman Gambut 0.5 m-1,.5 m	45	2.8116
Kedalaman Gambut >3m	45	2.9036
Sig.		.834

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 5.909.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Tutupan Lahan

Multiple Comparisons

Dependent Variable: Berat Kering Feeding Roots

Tukey HSD

(I) Tutupan Lahan	(J) Tutupan Lahan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Piringan dan Pasar Pikul	Rumpukan Pelepah	.8867	.51246	.200	-.3350	2.1084
	Vegetasi di Gawangan Mati	1.0627	.51246	.101	-.1590	2.2844
Rumpukan Pelepah	Piringan dan Pasar Pikul	-.8867	.51246	.200	-2.1084	.3350
	Vegetasi di Gawangan Mati	.1760	.51246	.937	-1.0457	1.3977
Vegetasi di Gawangan Mati	Piringan dan Pasar Pikul	-1.0627	.51246	.101	-2.2844	.1590
	Rumpukan Pelepah	-.1760	.51246	.937	-1.3977	1.0457

Based on observed means.

The error term is Mean Square(Error) = 5.909.

Homogeneous Subsets

Berat Kering Feeding Roots

Tukey HSD[a,b]

Tutupan Lahan	N	Subset
		1
Vegetasi di Gawangan Mati	45	2.3618
Rumpukan Pelepah	45	2.5378
Piringan dan Pasar Pikul	45	3.4244
Sig.		.101

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 5.909.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Jarak ke Batang Kelapa Sawit

Multiple Comparisons

Dependent Variable: Berat Kering Feeding Roots

Tukey HSD

(I) Jarak ke Batang Kelapa Sawit	(J) Jarak ke Batang Kelapa Sawit	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1 m	2 m	2.3378*	.66159	.006	.4952	4.1804
	3 m	3.7848*	.66159	.000	1.9422	5.6274
	4 m	4.7774*	.66159	.000	2.9348	6.6200
	4.5 m	4.7100*	.66159	.000	2.8674	6.5526
2 m	1 m	-2.3378*	.66159	.006	-4.1804	-.4952
	3 m	1.4470	.66159	.194	-.3956	3.2896
	4 m	2.4396*	.66159	.004	.5970	4.2822
	4.5 m	2.3722*	.66159	.005	.5296	4.2148
3 m	1 m	-3.7848*	.66159	.000	-5.6274	-1.9422
	2 m	-1.4470	.66159	.194	-3.2896	.3956
	4 m	.9926	.66159	.565	-.8500	2.8352
	4.5 m	.9252	.66159	.630	-.9174	2.7678
4 m	1 m	-4.7774*	.66159	.000	-6.6200	-2.9348
	2 m	-2.4396*	.66159	.004	-4.2822	-.5970
	3 m	-.9926	.66159	.565	-2.8352	.8500
	4.5 m	-.0674	.66159	1.000	-1.9100	1.7752
4.5 m	1 m	-4.7100*	.66159	.000	-6.5526	-2.8674
	2 m	-2.3722*	.66159	.005	-4.2148	-.5296
	3 m	-.9252	.66159	.630	-2.7678	.9174
	4 m	.0674	.66159	1.000	-1.7752	1.9100

Based on observed means.

The error term is Mean Square(Error) = 5.909.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Berat Kering Feeding Roots

Tukey HSD[a,b]

Jarak ke Batang Kelapa Sawit	N	Subset		
		1	2	3
4 m	27	1.1193		
4.5 m	27	1.1867		
3 m	27	2.1119	2.1119	
2 m	27		3.5589	
1 m	27			5.8967
Sig.		.565	.194	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 5.909.

a. Uses Harmonic Mean Sample Size = 27.000.

b. Alpha = 0.05.

Kelompok

Multiple Comparisons

Dependent Variable: Berat Kering Feeding Roots

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kelompok 1	Kelompok 2	-.2840	.51246	.845	-1.5057	.9377

Kelompok 2	Kelompok 3	-.6287	.51246	.441	-1.8504	.5930
	Kelompok 1	.2840	.51246	.845	-.9377	1.5057
	Kelompok 3	-.3447	.51246	.780	-1.5664	.8770
Kelompok 3	Kelompok 1	.6287	.51246	.441	-.5930	1.8504
	Kelompok 2	.3447	.51246	.780	-.8770	1.5664

Based on observed means.

The error term is Mean Square(Error) = 5.909.

Homogeneous Subsets

Berat Kering Feeding Roots

Tukey HSD[a,b]

Kelompok	N	Subset
		1
Kelompok 1	45	2.4704
Kelompok 2	45	2.7544
Kelompok 3	45	3.0991
Sig.		.441

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 5.909.

a. Uses Harmonic Mean Sample Size = 45.000.

c. Alpha = 0.05.

3. Hasil Analisis Sidik Ragam Volume Feeding Roots

```
UNIANOVA VFR BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok
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  /INTERCEPT=EXCLUDE
  /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY)
  /CRITERIA=ALPHA(0.05)
  /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan
Jarak*Kedalaman_Gambut*Tutupan_Lahan.
```

Univariate Analysis of Variance

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA VFR BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok /METHOD=SSTYPE(3) /INTERCEPT=EXCLUDE /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY) /CRITERIA=ALPHA(0.05) /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan Jarak*Kedalaman_Gambut*Tutupan_Lahan.
Resources	Processor Time	00:00:00.06
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[DataSet2]

Between-Subjects Factors

		Value Label	N
Kedalaman Gambut	1.00	Kedalaman Gambut 0.5 m-1,.5 m	45
	2.00	Kedalaman Gambut 1.5 - 3 m	45
	3.00	Kedalaman Gambut >3m	45
	.00	Piringan dan Pasar Pikul	45
Tutupan Lahan	1.00	Rumpukan Pelepah	45
	2.00	Vegetasi di Gawangan Mati	45
Jarak ke Batang Kelapa Sawit	1.00	1 m	27
	2.00	2 m	27
	3.00	3 m	27
	4.00	4 m	27
	5.00	4.5 m	27
Kelompok	1.00	Kelompok 1	45
	2.00	Kelompok 2	45
	3.00	Kelompok 3	45

Tests of Between-Subjects Effects

Dependent Variable: Volume Feeding Roots

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	70963.933[a]	47	1509.871	5.252	.000

Kedalaman_Gambut	120.951	2	60.476	.210	.811
Tutupan_Lahan	3017.033	2	1508.516	5.247	.007
Jarak	12061.872	4	3015.468	10.489	.000
Kelompok	1132.492	2	566.246	1.970	.146
Kedalaman_Gambut * Tutupan_Lahan	1103.965	4	275.991	.960	.434
Kedalaman_Gambut * Jarak	1549.950	8	193.744	.674	.713
Tutupan_Lahan * Jarak	735.247	8	91.906	.320	.957
Kedalaman_Gambut * Tutupan_Lahan * Jarak	3091.245	16	193.203	.672	.814
Error	25299.938	88	287.499		
Total	96263.870	135			

a. R Squared = .737 (Adjusted R Squared = .597)

Post Hoc Tests

Kedalaman Gambut

Multiple Comparisons

Dependent Variable: Volume Feeding Roots

Tukey HSD

(I) Kedalaman Gambut	(J) Kedalaman Gambut	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kedalaman Gambut 0.5 m-1,.5 m	Kedalaman Gambut 1.5 - 3 m	-2.0293	3.57460	.838	-10.5512	6.4925
	Kedalaman Gambut >3m	-.0436	3.57460	1.000	-8.5654	8.4783
Kedalaman Gambut 1.5 - 3 m	Kedalaman Gambut 0.5 m-1,.5 m	2.0293	3.57460	.838	-6.4925	10.5512
	Kedalaman Gambut >3m	1.9858	3.57460	.844	-6.5361	10.5077

Kedalaman Gambut >3m	Kedalaman Gambut 0.5 m-1,.5 m	.0436	3.57460	1.000	-8.4783	8.5654
	Kedalaman Gambut 1.5 - 3 m	-1.9858	3.57460	.844	-10.5077	6.5361

Based on observed means.

The error term is Mean Square(Error) = 287.499.

Homogeneous Subsets

Volume Feeding Roots

Tukey HSD[a,b]

Kedalaman Gambut	N	Subset
		1
Kedalaman Gambut 0.5 m-1,.5 m	45	18.1949
Kedalaman Gambut >3m	45	18.2384
Kedalaman Gambut 1.5 - 3 m	45	20.2242
Sig.		.838

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 287.499.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Tutupan Lahan

Multiple Comparisons

Dependent Variable: Volume Feeding Roots

Tukey HSD

(I) Tutupan Lahan	(J) Tutupan Lahan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Piringan dan Pasar Pikul	Rumpukan Pelepah	9.5498*	3.57460	.024	1.0279	18.0717
	Vegetasi di Gawangan Mati	10.4467*	3.57460	.012	1.9248	18.9685

Rumpukan Pelepah	Piringan dan Pasar Pikul	-9.5498*	3.57460	.024	-18.0717	-1.0279
	Vegetasi di Gawangan Mati	.8969	3.57460	.966	-7.6250	9.4188
Vegetasi di Gawangan Mati	Piringan dan Pasar Pikul	-10.4467*	3.57460	.012	-18.9685	-1.9248
	Rumpukan Pelepah	-.8969	3.57460	.966	-9.4188	7.6250

Based on observed means.

The error term is Mean Square(Error) = 287.499.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Volume Feeding Roots

Tukey HSD[a,b]

Tutupan Lahan	N	Subset	
		1	2
Vegetasi di Gawangan Mati	45	15.1047	
Rumpukan Pelepah	45	16.0016	
Piringan dan Pasar Pikul	45		25.5513
Sig.		.966	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 287.499.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Jarak ke Batang Kelapa Sawit

Multiple Comparisons

Dependent Variable: Volume Feeding Roots

Tukey HSD

(I) Jarak ke Batang Kelapa Sawit	(J) Jarak ke Batang Kelapa Sawit		Std. Error	Sig.	95% Confidence Interval

		Mean Difference (I-J)			Lower Bound	Upper Bound
1 m	2 m	5.6822	4.61479	.733	-7.1706	18.5351
	3 m	16.1037*	4.61479	.007	3.2509	28.9566
	4 m	23.0696*	4.61479	.000	10.2168	35.9225
	4.5 m	23.7596*	4.61479	.000	10.9068	36.6125
2 m	1 m	-5.6822	4.61479	.733	-18.5351	7.1706
	3 m	10.4215	4.61479	.169	-2.4314	23.2743
	4 m	17.3874*	4.61479	.003	4.5346	30.2403
	4.5 m	18.0774*	4.61479	.002	5.2246	30.9303
3 m	1 m	-16.1037*	4.61479	.007	-28.9566	-3.2509
	2 m	-10.4215	4.61479	.169	-23.2743	2.4314
	4 m	6.9659	4.61479	.559	-5.8869	19.8188
	4.5 m	7.6559	4.61479	.464	-5.1969	20.5088
4 m	1 m	-23.0696*	4.61479	.000	-35.9225	-10.2168
	2 m	-17.3874*	4.61479	.003	-30.2403	-4.5346
	3 m	-6.9659	4.61479	.559	-19.8188	5.8869
	4.5 m	.6900	4.61479	1.000	-12.1628	13.5428
4.5 m	1 m	-23.7596*	4.61479	.000	-36.6125	-10.9068
	2 m	-18.0774*	4.61479	.002	-30.9303	-5.2246
	3 m	-7.6559	4.61479	.464	-20.5088	5.1969
	4 m	-.6900	4.61479	1.000	-13.5428	12.1628

Based on observed means.

The error term is Mean Square(Error) = 287.499.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Volume Feeding Roots

Tukey HSD[a,b]

Jarak ke Batang Kelapa Sawit	N	Subset		
		1	2	3
4.5 m	27	8.8493		
4 m	27	9.5393		
3 m	27	16.5052	16.5052	
2 m	27		26.9267	26.9267
1 m	27			32.6089
Sig.		.464	.169	.733

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 287.499.

a. Uses Harmonic Mean Sample Size = 27.000.

b. Alpha = 0.05.

Kelompok

Multiple Comparisons

Dependent Variable: Volume Feeding Roots

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kelompok 1	Kelompok 2	-2.1044	3.57460	.827	-10.6263	6.4174
	Kelompok 3	-6.9198	3.57460	.135	-15.4417	1.6021
Kelompok 2	Kelompok 1	2.1044	3.57460	.827	-6.4174	10.6263
	Kelompok 3	-4.8153	3.57460	.373	-13.3372	3.7065
Kelompok 3	Kelompok 1	6.9198	3.57460	.135	-1.6021	15.4417

Kelompok 2	4.8153	3.57460	.373	-3.7065	13.3372

Based on observed means.

The error term is Mean Square(Error) = 287.499.

Homogeneous Subsets

Volume Feeding Roots

Tukey HSD[a,b]

Kelompok	N	Subset
		1
Kelompok 1	45	15.8778
Kelompok 2	45	17.9822
Kelompok 3	45	22.7976
Sig.		.135

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 287.499.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

4. Hasil Analisis Sidik Ragam Luas Permukaan Feeding Roots

```
UNIANOVA LPFR BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok
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  /INTERCEPT=EXCLUDE
  /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY)
  /CRITERIA=ALPHA(0.05)
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  /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan
Jarak*Kedalaman_Gambut*Tutupan_Lahan.
```

Univariate Analysis of Variance

Notes

Output Created		20-DEC-2024 20:11:25
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA LPFR BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok /METHOD=SSTYPE(3) /INTERCEPT=EXCLUDE /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY) /CRITERIA=ALPHA(0.05) /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan Jarak*Kedalaman_Gambut*Tutupan_Lahan.
Resources	Processor Time	00:00:00.08

Elapsed Time	00:00:00.07

[DataSet2]

Between-Subjects Factors

		Value Label	N
Kedalaman Gambut	1.00	Kedalaman Gambut 0.5 m-1,.5 m	45
	2.00	Kedalaman Gambut 1.5 - 3 m	45
	3.00	Kedalaman Gambut >3m	45
	.00	Piringan dan Pasar Pikul	45
Tutupan Lahan	1.00	Rumpukan Pelepah	45
	2.00	Vegetasi di Gawangan Mati	45
Jarak ke Batang Kelapa Sawit	1.00	1 m	27
	2.00	2 m	27
	3.00	3 m	27
	4.00	4 m	27
	5.00	4.5 m	27
Kelompok	1.00	Kelompok 1	45
	2.00	Kelompok 2	45
	3.00	Kelompok 3	45

Tests of Between-Subjects Effects

Dependent Variable: Luas Permukaan Feeding Roots

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	111371090.444[a]	47	2369597.669	5.513	.000
Kedalaman_Gambut	388211.356	2	194105.678	.452	.638
Tutupan_Lahan	5176926.429	2	2588463.215	6.023	.004
Jarak	18078230.611	4	4519557.653	10.516	.000
Kelompok	1353706.176	2	676853.088	1.575	.213
Kedalaman_Gambut * Tutupan_Lahan	2363103.750	4	590775.938	1.375	.249
Kedalaman_Gambut * Jarak	2729111.031	8	341138.879	.794	.610
Tutupan_Lahan * Jarak	1899961.640	8	237495.205	.553	.814
Kedalaman_Gambut * Tutupan_Lahan * Jarak	5764629.121	16	360289.320	.838	.640
Error	37822186.959	88	429797.579		
Total	149193277.403	135			

a. R Squared = .746 (Adjusted R Squared = .611)

Post Hoc Tests

Kedalaman Gambut

Multiple Comparisons

Dependent Variable: Luas Permukaan Feeding Roots

Tukey HSD

(I) Kedalaman Gambut	(J) Kedalaman Gambut		Std. Error	Sig.	95% Confidence Interval

		Mean Difference (I-J)			Lower Bound	Upper Bound
Kedalaman Gambut 0.5 m-1,.5 m	Kedalaman Gambut 1.5 - 3 m	-126.1358	138.21040	.634	-455.6307	203.3591
	Kedalaman Gambut >3m	-31.3236	138.21040	.972	-360.8185	298.1714
Kedalaman Gambut 1.5 - 3 m	Kedalaman Gambut 0.5 m-1,.5 m	126.1358	138.21040	.634	-203.3591	455.6307
	Kedalaman Gambut >3m	94.8122	138.21040	.772	-234.6827	424.3071
Kedalaman Gambut >3m	Kedalaman Gambut 0.5 m-1,.5 m	31.3236	138.21040	.972	-298.1714	360.8185
	Kedalaman Gambut 1.5 - 3 m	-94.8122	138.21040	.772	-424.3071	234.6827

Based on observed means.

The error term is Mean Square(Error) = 429797.579.

Homogeneous Subsets

Luas Permukaan Feeding Roots

Tukey HSD[a,b]

Kedalaman Gambut	N	Subset 1
Kedalaman Gambut 0.5 m-1,.5 m	45	685.9664
Kedalaman Gambut >3m	45	717.2900
Kedalaman Gambut 1.5 - 3 m	45	812.1022
Sig.		.634

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 429797.579.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Tutupan Lahan

Multiple Comparisons

Dependent Variable: Luas Permukaan Feeding Roots

Tukey HSD

(I) Tutupan Lahan	(J) Tutupan Lahan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Piringan dan Pasar Pikul	Rumpukan Pelepah	407.1409*	138.21040	.011	77.6460	736.6358
	Vegetasi di Gawangan Mati	423.2098*	138.21040	.008	93.7149	752.7047
Rumpukan Pelepah	Piringan dan Pasar Pikul	-407.1409*	138.21040	.011	-736.6358	-77.6460
	Vegetasi di Gawangan Mati	16.0689	138.21040	.993	-313.4260	345.5638
Vegetasi di Gawangan Mati	Piringan dan Pasar Pikul	-423.2098*	138.21040	.008	-752.7047	-93.7149
	Rumpukan Pelepah	-16.0689	138.21040	.993	-345.5638	313.4260

Based on observed means.

The error term is Mean Square(Error) = 429797.579.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Luas Permukaan Feeding Roots

Tukey HSD[a,b]

Tutupan Lahan	N	Subset	
		1	2
Vegetasi di Gawangan Mati	45	592.0267	
Rumpukan Pelepah	45	608.0956	
Piringan dan Pasar Pikul	45		1015.2364
Sig.		.993	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 429797.579.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Jarak ke Batang Kelapa Sawit

Multiple Comparisons

Dependent Variable: Luas Permukaan Feeding Roots

Tukey HSD

(I) Jarak ke Batang Kelapa Sawit	(J) Jarak ke Batang Kelapa Sawit	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1 m	2 m	160.9681	178.42886	.895	-335.9822	657.9185
	3 m	572.2567*	178.42886	.016	75.3063	1069.2070
	4 m	873.2948*	178.42886	.000	376.3445	1370.2452
	4.5 m	900.0752*	178.42886	.000	403.1248	1397.0255
2 m	1 m	-160.9681	178.42886	.895	-657.9185	335.9822
	3 m	411.2885	178.42886	.153	-85.6618	908.2389
	4 m	712.3267*	178.42886	.001	215.3763	1209.2770
	4.5 m	739.1070*	178.42886	.001	242.1567	1236.0574
3 m	1 m	-572.2567*	178.42886	.016	-1069.2070	-75.3063
	2 m	-411.2885	178.42886	.153	-908.2389	85.6618
	4 m	301.0381	178.42886	.447	-195.9122	797.9885
	4.5 m	327.8185	178.42886	.359	-169.1318	824.7689
4 m	1 m	-873.2948*	178.42886	.000	-1370.2452	-376.3445

4.5 m	2 m	-712.3267*	178.42886	.001	-1209.2770	-215.3763
	3 m	-301.0381	178.42886	.447	-797.9885	195.9122
	4.5 m	26.7804	178.42886	1.000	-470.1700	523.7307
	1 m	-900.0752*	178.42886	.000	-1397.0255	-403.1248
	2 m	-739.1070*	178.42886	.001	-1236.0574	-242.1567
	3 m	-327.8185	178.42886	.359	-824.7689	169.1318
	4 m	-26.7804	178.42886	1.000	-523.7307	470.1700

Based on observed means.

The error term is Mean Square(Error) = 429797.579.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Luas Permukaan Feeding Roots

Tukey HSD[a,b]

Jarak ke Batang Kelapa Sawit	N	Subset		
		1	2	3
4.5 m	27	339.6967		
4 m	27	366.4770		
3 m	27	667.5152	667.5152	
2 m	27		1078.8037	1078.8037
1 m	27			1239.7719
Sig.		.359	.153	.895

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 429797.579.

a. Uses Harmonic Mean Sample Size = 27.000.

b. Alpha = 0.05.

Kelompok

Multiple Comparisons

Dependent Variable: Luas Permukaan Feeding Roots

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kelompok 1	Kelompok 2	-94.9233	138.21040	.772	-424.4182	234.5716
	Kelompok 3	-243.3333	138.21040	.189	-572.8282	86.1616
Kelompok 2	Kelompok 1	94.9233	138.21040	.772	-234.5716	424.4182
	Kelompok 3	-148.4100	138.21040	.533	-477.9049	181.0849
Kelompok 3	Kelompok 1	243.3333	138.21040	.189	-86.1616	572.8282
	Kelompok 2	148.4100	138.21040	.533	-181.0849	477.9049

Based on observed means.

The error term is Mean Square(Error) = 429797.579.

Homogeneous Subsets

Luas Permukaan Feeding Roots

Tukey HSD[a,b]

Kelompok	N	Subset
		1
Kelompok 1	45	625.7007
Kelompok 2	45	720.6240
Kelompok 3	45	869.0340
Sig.		.189

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 429797.579.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

5. Hasil Analisis Sidik Ragam Bobot Basah Akar mati

```
UNIANOVA BBAM BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok
  /METHOD=SSTYPE(3)
  /INTERCEPT=EXCLUDE
  /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY)
  /CRITERIA=ALPHA(0.05)
  /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan
Jarak*Kedalaman_Gambut*Tutupan_Lahan.
```

Univariate Analysis of Variance

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA BBAM BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok /METHOD=SSTYPE(3) /INTERCEPT=EXCLUDE /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY) /CRITERIA=ALPHA(0.05) /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan Jarak*Kedalaman_Gambut*Tutupan_Lahan.
Resources	Processor Time	00:00:00.08
	Elapsed Time	00:00:00.09

[DataSet2]

Between-Subjects Factors

		Value Label	N
Kedalaman Gambut	1.00	Kedalaman Gambut 0.5 m-1,.5 m	45
	2.00	Kedalaman Gambut 1.5 - 3 m	45
	3.00	Kedalaman Gambut >3m	45
Tutupan Lahan	.00	Piringan dan Pasar Pikul	45
	1.00	Rumpukan Pelepah	45
	2.00	Vegetasi di Gawangan Mati	45
Jarak ke Batang Kelapa Sawit	1.00	1 m	27
	2.00	2 m	27
	3.00	3 m	27
	4.00	4 m	27
	5.00	4.5 m	27
Kelompok	1.00	Kelompok 1	45
	2.00	Kelompok 2	45
	3.00	Kelompok 3	45

Tests of Between-Subjects Effects

Dependent Variable: Bobot Basah Akar Mati

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	73252.520[a]	47	1558.564	5.515	.000
Kedalaman_Gambut	2200.946	2	1100.473	3.894	.024
Tutupan_Lahan	738.828	2	369.414	1.307	.276
Jarak	33043.030	4	8260.757	29.231	.000
Kelompok	1633.703	2	816.852	2.890	.061
Kedalaman_Gambut * Tutupan_Lahan	1880.676	4	470.169	1.664	.166
Kedalaman_Gambut * Jarak	2974.254	8	371.782	1.316	.246
Tutupan_Lahan * Jarak	1178.655	8	147.332	.521	.838
Kedalaman_Gambut * Tutupan_Lahan * Jarak	2112.271	16	132.017	.467	.956
Error	24868.873	88	282.601		
Total	98121.393	135			

a. R Squared = .747 (Adjusted R Squared = .611)

Post Hoc Tests

Kedalaman Gambut

Multiple Comparisons

Dependent Variable: Bobot Basah Akar Mati

Tukey HSD

(I) Kedalaman Gambut	(J) Kedalaman Gambut	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kedalaman Gambut 0.5 m-1,.5 m	Kedalaman Gambut 1.5 - 3 m	-9.5956*	3.54401	.022	-18.0445	-1.1466
	Kedalaman Gambut >3m	-6.8736	3.54401	.134	-15.3225	1.5754
Kedalaman Gambut 1.5 - 3 m	Kedalaman Gambut 0.5 m-1,.5 m	9.5956*	3.54401	.022	1.1466	18.0445
	Kedalaman Gambut >3m	2.7220	3.54401	.724	-5.7270	11.1710
Kedalaman Gambut >3m	Kedalaman Gambut 0.5 m-1,.5 m	6.8736	3.54401	.134	-1.5754	15.3225
	Kedalaman Gambut 1.5 - 3 m	-2.7220	3.54401	.724	-11.1710	5.7270

Based on observed means.

The error term is Mean Square(Error) = 282.601.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Bobot Basah Akar Mati

Tukey HSD[a,b]

Kedalaman Gambut	N	Subset	
		1	2
Kedalaman Gambut 0.5 m-1,.5 m	45	8.7802	
Kedalaman Gambut >3m	45	15.6538	15.6538
Kedalaman Gambut 1.5 - 3 m	45		18.3758
Sig.		.134	.724

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 282.601.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Tutupan Lahan

Multiple Comparisons

Dependent Variable: Bobot Basah Akar Mati

Tukey HSD

(I) Tutupan Lahan	(J) Tutupan Lahan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Piringan dan Pasar Pikul	Rumpukan Pelepah	3.7360	3.54401	.545	-4.7130	12.1850
	Vegetasi di Gawangan Mati	5.6309	3.54401	.256	-2.8181	14.0799
Rumpukan Pelepah	Piringan dan Pasar Pikul	-3.7360	3.54401	.545	-12.1850	4.7130
	Vegetasi di Gawangan Mati	1.8949	3.54401	.855	-6.5541	10.3439
Vegetasi di Gawangan Mati	Piringan dan Pasar Pikul	-5.6309	3.54401	.256	-14.0799	2.8181
	Rumpukan Pelepah	-1.8949	3.54401	.855	-10.3439	6.5541

Based on observed means.

The error term is Mean Square(Error) = 282.601.

Homogeneous Subsets

Bobot Basah Akar Mati

Tukey HSD[a,b]

Tutupan Lahan	N	Subset
		1
Vegetasi di Gawangan Mati	45	11.7613
Rumpukan Pelepah	45	13.6562
Piringan dan Pasar Pikul	45	17.3922
Sig.		.256

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 282.601.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Jarak ke Batang Kelapa Sawit

Multiple Comparisons

Dependent Variable: Bobot Basah Akar Mati

Tukey HSD

(I) Jarak ke Batang Kelapa Sawit	(J) Jarak ke Batang Kelapa Sawit	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound

1 m	2 m	33.2070*	4.57530	.000	20.4642	45.9499
	3 m	38.9522*	4.57530	.000	26.2093	51.6951
	4 m	40.7044*	4.57530	.000	27.9616	53.4473
	4.5 m	41.0385*	4.57530	.000	28.2956	53.7814
2 m	1 m	-33.2070*	4.57530	.000	-45.9499	-20.4642
	3 m	5.7452	4.57530	.719	-6.9977	18.4881
	4 m	7.4974	4.57530	.477	-5.2455	20.2403
	4.5 m	7.8315	4.57530	.432	-4.9114	20.5744
3 m	1 m	-38.9522*	4.57530	.000	-51.6951	-26.2093
	2 m	-5.7452	4.57530	.719	-18.4881	6.9977
	4 m	1.7522	4.57530	.995	-10.9907	14.4951
	4.5 m	2.0863	4.57530	.991	-10.6566	14.8292
4 m	1 m	-40.7044*	4.57530	.000	-53.4473	-27.9616
	2 m	-7.4974	4.57530	.477	-20.2403	5.2455
	3 m	-1.7522	4.57530	.995	-14.4951	10.9907
	4.5 m	.3341	4.57530	1.000	-12.4088	13.0770
4.5 m	1 m	-41.0385*	4.57530	.000	-53.7814	-28.2956
	2 m	-7.8315	4.57530	.432	-20.5744	4.9114
	3 m	-2.0863	4.57530	.991	-14.8292	10.6566
	4 m	-.3341	4.57530	1.000	-13.0770	12.4088

Based on observed means.

The error term is Mean Square(Error) = 282.601.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Bobot Basah Akar Mati

Tukey HSD[a,b]

Jarak ke Batang Kelapa Sawit	N	Subset	
		1	2
4.5 m	27	4.0119	
4 m	27	4.3459	
3 m	27	6.0981	
2 m	27	11.8433	
1 m	27		45.0504
Sig.		.432	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 282.601.

a. Uses Harmonic Mean Sample Size = 27.000.

b. Alpha = 0.05.

Kelompok

Multiple Comparisons

Dependent Variable: Bobot Basah Akar Mati

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kelompok 1	Kelompok 2	3.7976	3.54401	.534	-4.6514	12.2465
	Kelompok 3	-4.7073	3.54401	.383	-13.1563	3.7416
Kelompok 2	Kelompok 1	-3.7976	3.54401	.534	-12.2465	4.6514
	Kelompok 3	-8.5049*	3.54401	.048	-16.9539	-.0559
Kelompok 3	Kelompok 1	4.7073	3.54401	.383	-3.7416	13.1563
	Kelompok 2	8.5049*	3.54401	.048	.0559	16.9539

Based on observed means.

The error term is Mean Square(Error) = 282.601.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Bobot Basah Akar Mati

Tukey HSD[a,b]

Kelompok	N	Subset	
		1	2
Kelompok 2	45	10.1691	
Kelompok 1	45	13.9667	13.9667
Kelompok 3	45		18.6740
Sig.		.534	.383

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 282.601.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

6. Hasil Analisis Sidik Ragam Bobot Basah Akar Pakis

```
UNIANOVA BBAP BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok
  /METHOD=SSTYPE(3)
  /INTERCEPT=EXCLUDE
  /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY)
  /CRITERIA=ALPHA(0.05)
  /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan
Jarak*Kedalaman_Gambut*Tutupan_Lahan.
```

Univariate Analysis of Variance

Notes

Output Created		20-DEC-2024 20:26:04
Comments		
Input	Active Dataset	DataSet2
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	N of Rows in Working Data File	135

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA BBAP BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok /METHOD=SSTYPE(3) /INTERCEPT=EXCLUDE /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY) /CRITERIA=ALPHA(0.05) /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan Jarak*Kedalaman_Gambut*Tutupan_Lahan.
Resources	Processor Time	00:00:00.06
	Elapsed Time	00:00:00.09

[DataSet2]

Between-Subjects Factors

		Value Label	N
Kedalaman Gambut	1.00	Kedalaman Gambut 0.5 m-1,.5 m	45

	2.00	Kedalaman Gambut 1.5 - 3 m	45
	3.00	Kedalaman Gambut >3m	45
	.00	Piringan dan Pasar Pikul	45
Tutupan Lahan	1.00	Rumpukan Pelepah	45
	2.00	Vegetasi di Gawangan Mati	45
	1.00	1 m	27
	2.00	2 m	27
Jarak ke Batang Kelapa Sawit	3.00	3 m	27
	4.00	4 m	27
	5.00	4.5 m	27
	1.00	Kelompok 1	45
Kelompok	2.00	Kelompok 2	45
	3.00	Kelompok 3	45

Tests of Between-Subjects Effects

Dependent Variable: Bobot Basah Akar Pakis

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	3462679.312[a]	47	73674.028	3.793	.000
Kedalaman_Gambut	285585.744	2	142792.872	7.351	.001
Tutupan_Lahan	407405.355	2	203702.677	10.486	.000

Jarak	685326.657	4	171331.664	8.820	.000
Kelompok	27943.581	2	13971.791	.719	.490
Kedalaman_Gambut * Tutupan_Lahan	175940.909	4	43985.227	2.264	.069
Kedalaman_Gambut * Jarak	277228.601	8	34653.575	1.784	.091
Tutupan_Lahan * Jarak	431181.923	8	53897.740	2.775	.009
Kedalaman_Gambut * Tutupan_Lahan * Jarak	358332.570	16	22395.786	1.153	.322
Error	1709451.750	88	19425.588		
Total	5172131.061	135			

a. R Squared = .669 (Adjusted R Squared = .493)

Post Hoc Tests

Kedalaman Gambut

Multiple Comparisons

Dependent Variable: Bobot Basah Akar Pakis

Tukey HSD

(I) Kedalaman Gambut	(J) Kedalaman Gambut	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kedalaman Gambut 0.5 m-1,.5 m	Kedalaman Gambut 1.5 - 3 m	-88.5484*	29.38298	.009	-158.5977	-18.4991

Kedalaman Gambut 1.5 - 3 m	Kedalaman Gambut >3m	-104.5976*	29.38298	.002	-174.6469	-34.5483
	Kedalaman Gambut 0.5 m-1,.5 m	88.5484*	29.38298	.009	18.4991	158.5977
Kedalaman Gambut >3m	Kedalaman Gambut >3m	-16.0491	29.38298	.849	-86.0984	54.0002
	Kedalaman Gambut 0.5 m-1,.5 m	104.5976*	29.38298	.002	34.5483	174.6469
	Kedalaman Gambut 1.5 - 3 m	16.0491	29.38298	.849	-54.0002	86.0984

Based on observed means.

The error term is Mean Square(Error) = 19425.588.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Bobot Basah Akar Pakis

Tukey HSD[a,b]

Kedalaman Gambut	N	Subset	
		1	2
Kedalaman Gambut 0.5 m-1,.5 m	45	13.2560	
Kedalaman Gambut 1.5 - 3 m	45		101.8044
Kedalaman Gambut >3m	45		117.8536
Sig.		1.000	.849

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 19425.588.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Tutupan Lahan

Multiple Comparisons

Dependent Variable: Bobot Basah Akar Pakis

Tukey HSD

(I) Tutupan Lahan	(J) Tutupan Lahan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Piringan dan Pasar Pikul	Rumpukan Pelepah	-101.5236*	29.38298	.002	-171.5729	-31.4743
	Vegetasi di Gawangan Mati	-127.2464*	29.38298	.000	-197.2957	-57.1971
Rumpukan Pelepah	Piringan dan Pasar Pikul	101.5236*	29.38298	.002	31.4743	171.5729
	Vegetasi di Gawangan Mati	-25.7229	29.38298	.657	-95.7722	44.3264
Vegetasi di Gawangan Mati	Piringan dan Pasar Pikul	127.2464*	29.38298	.000	57.1971	197.2957
	Rumpukan Pelepah	25.7229	29.38298	.657	-44.3264	95.7722

Based on observed means.

The error term is Mean Square(Error) = 19425.588.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Bobot Basah Akar Pakis

Tukey HSD[a,b]

Tutupan Lahan	N	Subset	
		1	2
Piringan dan Pasar Pikul	45	1.3813	
Rumpukan Pelepah	45		102.9049
Vegetasi di Gawangan Mati	45		128.6278
Sig.		1.000	.657

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 19425.588.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Jarak ke Batang Kelapa Sawit

Multiple Comparisons

Dependent Variable: Bobot Basah Akar Pakis

Tukey HSD

(I) Jarak ke Batang Kelapa Sawit	(J) Jarak ke Batang Kelapa Sawit	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1 m	2 m	-5.6589	37.93326	1.000	-111.3085	99.9908
	3 m	-53.6278	37.93326	.621	-159.2774	52.0219
	4 m	-164.2356*	37.93326	.000	-269.8852	-58.5859

2 m	4.5 m	-155.8289*	37.93326	.001	-261.4785	-50.1792
	1 m	5.6589	37.93326	1.000	-99.9908	111.3085
	3 m	-47.9689	37.93326	.713	-153.6185	57.6808
	4 m	-158.5767*	37.93326	.001	-264.2263	-52.9270
	4.5 m	-150.1700*	37.93326	.001	-255.8197	-44.5203
3 m	1 m	53.6278	37.93326	.621	-52.0219	159.2774
	2 m	47.9689	37.93326	.713	-57.6808	153.6185
	4 m	-110.6078*	37.93326	.035	-216.2574	-4.9581
	4.5 m	-102.2011	37.93326	.063	-207.8508	3.4485
4 m	1 m	164.2356*	37.93326	.000	58.5859	269.8852
	2 m	158.5767*	37.93326	.001	52.9270	264.2263
	3 m	110.6078*	37.93326	.035	4.9581	216.2574
	4.5 m	8.4067	37.93326	.999	-97.2430	114.0563
4.5 m	1 m	155.8289*	37.93326	.001	50.1792	261.4785
	2 m	150.1700*	37.93326	.001	44.5203	255.8197
	3 m	102.2011	37.93326	.063	-3.4485	207.8508
	4 m	-8.4067	37.93326	.999	-114.0563	97.2430

Based on observed means.

The error term is Mean Square(Error) = 19425.588.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Bobot Basah Akar Pakis

Tukey HSD[a,b]

Jarak ke Batang Kelapa Sawit	N	Subset		
		1	2	3
1 m	27	1.7678		
2 m	27	7.4267		
3 m	27	55.3956	55.3956	
4.5 m	27		157.5967	157.5967
4 m	27			166.0033
Sig.		.621	.063	.999

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 19425.588.

a. Uses Harmonic Mean Sample Size = 27.000.

b. Alpha = 0.05.

Kelompok

Multiple Comparisons

Dependent Variable: Bobot Basah Akar Pakis

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kelompok 1	Kelompok 2	31.9664	29.38298	.524	-38.0829	102.0157
	Kelompok 3	28.8309	29.38298	.591	-41.2184	98.8802

Kelompok 2	Kelompok 1	-31.9664	29.38298	.524	-102.0157	38.0829
	Kelompok 3	-3.1356	29.38298	.994	-73.1849	66.9137
Kelompok 3	Kelompok 1	-28.8309	29.38298	.591	-98.8802	41.2184
	Kelompok 2	3.1356	29.38298	.994	-66.9137	73.1849

Based on observed means.

The error term is Mean Square(Error) = 19425.588.

Homogeneous Subsets

Bobot Basah Akar Pakis

Tukey HSD[a,b]

Kelompok	N	Subset
		1
Kelompok 2	45	65.9373
Kelompok 3	45	69.0729
Kelompok 1	45	97.9038
Sig.		.524

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 19425.588.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

7. Hasil Analisis Sidik Ragam Volume Akar Mati

```
UNIANOVA VAM BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok
  /METHOD=SSTYPE(3)
  /INTERCEPT=EXCLUDE
  /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY)
  /CRITERIA=ALPHA(0.05)
  /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan
Jarak*Kedalaman_Gambut*Tutupan_Lahan.
```

Univariate Analysis of Variance

Notes

Output Created		20-DEC-2024 20:27:46
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	135
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.

Syntax		UNIANOVA VAM BY Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok /METHOD=SSTYPE(3) /INTERCEPT=EXCLUDE /POSTHOC=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok(TUKEY) /CRITERIA=ALPHA(0.05) /DESIGN=Kedalaman_Gambut Tutupan_Lahan Jarak Kelompok Kedalaman_Gambut*Tutupan_Lahan Jarak*Kedalaman_Gambut Jarak*Tutupan_Lahan Jarak*Kedalaman_Gambut*Tutupan_Lahan.
Resources	Processor Time	00:00:00.06
	Elapsed Time	00:00:00.09

[DataSet2]

Between-Subjects Factors

		Value Label	N
Kedalaman Gambut	1.00	Kedalaman Gambut 0.5 m-1,.5 m	45
	2.00	Kedalaman Gambut 1.5 - 3 m	45
	3.00	Kedalaman Gambut >3m	45

	.00	Piringan dan Pasar Pikul	45
Tutupan Lahan	1.00	Rumpukan Pelepah	45
	2.00	Vegetasi di Gawangan Mati	45
	1.00	1 m	27
	2.00	2 m	27
Jarak ke Batang Kelapa Sawit	3.00	3 m	27
	4.00	4 m	27
	5.00	4.5 m	27
	1.00	Kelompok 1	45
Kelompok	2.00	Kelompok 2	45
	3.00	Kelompok 3	45

Tests of Between-Subjects Effects

Dependent Variable: Volume Akar Mati

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	225111.385[a]	47	4789.604	3.713	.000
Kedalaman_Gambut	10312.759	2	5156.379	3.998	.022
Tutupan_Lahan	4191.272	2	2095.636	1.625	.203
Jarak	92282.249	4	23070.562	17.887	.000
Kelompok	1002.993	2	501.496	.389	.679
Kedalaman_Gambut * Tutupan_Lahan	2456.922	4	614.230	.476	.753
Kedalaman_Gambut * Jarak	14914.978	8	1864.372	1.445	.189

Tutupan_Lahan * Jarak	11630.344	8	1453.793	1.127	.353
Kedalaman_Gambut *	7128.262	16	445.516	.345	.990
Tutupan_Lahan * Jarak					
Error	113501.576	88	1289.791		
Total	338612.961	135			

a. R Squared = .665 (Adjusted R Squared = .486)

Post Hoc Tests

Kedalaman Gambut

Multiple Comparisons

Dependent Variable: Volume Akar Mati

Tukey HSD

(I) Kedalaman Gambut	(J) Kedalaman Gambut	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kedalaman Gambut 0.5 m-1,.5 m	Kedalaman Gambut 1.5 - 3 m	-21.2649*	7.57126	.017	-39.3149	-3.2149
	Kedalaman Gambut >3m	-12.7800	7.57126	.216	-30.8300	5.2700
Kedalaman Gambut 1.5 - 3 m	Kedalaman Gambut 0.5 m-1,.5 m	21.2649*	7.57126	.017	3.2149	39.3149
	Kedalaman Gambut >3m	8.4849	7.57126	.504	-9.5651	26.5349
Kedalaman Gambut >3m	Kedalaman Gambut 0.5 m-1,.5 m	12.7800	7.57126	.216	-5.2700	30.8300
	Kedalaman Gambut 1.5 - 3 m	-8.4849	7.57126	.504	-26.5349	9.5651

Based on observed means.

The error term is Mean Square(Error) = 1289.791.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Volume Akar Mati

Tukey HSD[a,b]

Kedalaman Gambut	N	Subset	
		1	2
Kedalaman Gambut 0.5 m-1,.5 m	45	13.1756	
Kedalaman Gambut >3m	45	25.9556	25.9556
Kedalaman Gambut 1.5 - 3 m	45		34.4404
Sig.		.216	.504

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1289.791.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Tutupan Lahan

Multiple Comparisons

Dependent Variable: Volume Akar Mati

Tukey HSD

(I) Tutupan Lahan	(J) Tutupan Lahan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Piringan dan Pasar Pikul	Rumpukan Pelepah	12.4002	7.57126	.235	-5.6497	30.4502
	Vegetasi di Gawangan Mati	11.1382	7.57126	.310	-6.9117	29.1882
Rumpukan Pelepah	Piringan dan Pasar Pikul	-12.4002	7.57126	.235	-30.4502	5.6497
	Vegetasi di Gawangan Mati	-1.2620	7.57126	.985	-19.3120	16.7880
Vegetasi di Gawangan Mati	Piringan dan Pasar Pikul	-11.1382	7.57126	.310	-29.1882	6.9117
	Rumpukan Pelepah	1.2620	7.57126	.985	-16.7880	19.3120

Based on observed means.

The error term is Mean Square(Error) = 1289.791.

Homogeneous Subsets

Volume Akar Mati

Tukey HSD[a,b]

Tutupan Lahan	N	Subset
		1
Rumpukan Pelepah	45	19.9698
Vegetasi di Gawangan Mati	45	21.2318

Piringan dan Pasar Pikul	45	32.3700
Sig.		.235

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1289.791.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Jarak ke Batang Kelapa Sawit

Multiple Comparisons

Dependent Variable: Volume Akar Mati

Tukey HSD

(I) Jarak ke Batang Kelapa Sawit	(J) Jarak ke Batang Kelapa Sawit	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1 m	2 m	54.6000*	9.77446	.000	27.3767	81.8233
	3 m	63.0037*	9.77446	.000	35.7804	90.2270
	4 m	68.8270*	9.77446	.000	41.6037	96.0503
	4.5 m	69.4981*	9.77446	.000	42.2749	96.7214
2 m	1 m	-54.6000*	9.77446	.000	-81.8233	-27.3767
	3 m	8.4037	9.77446	.911	-18.8196	35.6270
	4 m	14.2270	9.77446	.594	-12.9963	41.4503
	4.5 m	14.8981	9.77446	.550	-12.3251	42.1214
3 m	1 m	-63.0037*	9.77446	.000	-90.2270	-35.7804

	2 m	-8.4037	9.77446	.911	-35.6270	18.8196
	4 m	5.8233	9.77446	.975	-21.4000	33.0466
	4.5 m	6.4944	9.77446	.963	-20.7288	33.7177
	1 m	-68.8270*	9.77446	.000	-96.0503	-41.6037
4 m	2 m	-14.2270	9.77446	.594	-41.4503	12.9963
	3 m	-5.8233	9.77446	.975	-33.0466	21.4000
	4.5 m	.6711	9.77446	1.000	-26.5522	27.8944
	1 m	-69.4981*	9.77446	.000	-96.7214	-42.2749
4.5 m	2 m	-14.8981	9.77446	.550	-42.1214	12.3251
	3 m	-6.4944	9.77446	.963	-33.7177	20.7288
	4 m	-.6711	9.77446	1.000	-27.8944	26.5522

Based on observed means.

The error term is Mean Square(Error) = 1289.791.

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Volume Akar Mati

Tukey HSD[a,b]

Jarak ke Batang Kelapa Sawit	N	Subset	
		1	2
4.5 m	27	6.2115	
4 m	27	6.8826	
3 m	27	12.7059	

2 m	27	21.1096	
1 m	27		75.7096
Sig.		.550	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1289.791.

a. Uses Harmonic Mean Sample Size = 27.000.

b. Alpha = 0.05.

Kelompok

Multiple Comparisons

Dependent Variable: Volume Akar Mati

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kelompok 1	Kelompok 2	-1.3207	7.57126	.983	-19.3706	16.7293
	Kelompok 3	-6.3282	7.57126	.682	-24.3782	11.7217
Kelompok 2	Kelompok 1	1.3207	7.57126	.983	-16.7293	19.3706
	Kelompok 3	-5.0076	7.57126	.786	-23.0575	13.0424
Kelompok 3	Kelompok 1	6.3282	7.57126	.682	-11.7217	24.3782
	Kelompok 2	5.0076	7.57126	.786	-13.0424	23.0575

Based on observed means.

The error term is Mean Square(Error) = 1289.791.

Homogeneous Subsets

Volume Akar Mati

Tukey HSD[a,b]

Kelompok	N	Subset
		1
Kelompok 1	45	21.9742
Kelompok 2	45	23.2949
Kelompok 3	45	28.3024
Sig.		.682

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1289.791.

a. Uses Harmonic Mean Sample Size = 45.000.

b. Alpha = 0.05.

Flowchart Study Akar di Peat Soil Area

Survey lokasi pelaksanaan study

Pengukuran untuk pancang titik sampel

Pemasangan patok sampel

Patok sampel sudah terpasang di pasar pikul, rumpukan dan gawangan mati

Peletakan kotak sampel

Kotak sampel diketok hingga masuk ke dalam tanah

Kotak sampel telah masuk secara keseluruhan

Proses pengeluaran kotak sampel

Angkat kotak sampel beserta tanah di dalamnya

Kotak sampel diletakkan di atas karung dan dipisahkan akar dengan tanah

Proses pemisahan akar dengan tanah

Penyaringan akar agar tidak ada sampel akar yg tertinggal

Sampel akar dicuci dan dipisahkan sesuai kelompok akar.

Bungkus masing masing kelompok akar dengan plastik

Sampel akar di bawa ke laboratorium

Sampel akar dituang kedalam wadah sesuai label yg telah disediakan

Sampel akar ditimbang untuk mendapatkan berat basah akar

Pengukuran volume sampel akar

Pengukuran panjang akar sekaligus menghitung jumlah sampel akar

Sampel akar dipersiapkan untuk proses pengeringan

Pengeringan sampel akar menggunakan Oven Memmert UF 55

Setelah kering sampel akar ditimbang untuk mendapatkan berat kering

Data : 1 . Berat Basah Akar
2 . Volume Akar
3 . Jumlah Akar
4 . Panjang Akar
5 . Berat Kering Akar