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LAMPIRAN

Lampiran 1. Sidik ragam berat segar akar primer

Tests of Between-Subjects Effects						
Dependent Variable: Berat_Segar_Akar_Primer						
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	
Corrected Model	8680,541 ^a	15	578,703	4,875	0,000	
Intercept	6164,200	1	6164,200	51,932	0,000	
Jarak	1260,060	3	420,020	3,539	0,025	
Kedalaman	5580,140	3	1860,047	15,670	0,000	
Jarak * Kedalaman	1840,342	9	204,482	1,723	0,124	
Error	3798,331	32	118,698			
Total	18643,072	48				
Corrected Total	12478,872	47				

Berat_Segar_Akar_Primer				
Duncan _{a,b}				
		Subset		
Jarak	N	1	2	
J3	12	6,1042		
J4	12	8,0567		
J2	12	11,6608	11,6608	
J1	12		19,5075	
Sig.		0,247	0,087	

Berat_Segar_Akar_Primer				
Duncan _{a,b}				
		Subset		
Kedalaman	N	1	2	
K4	12	2,2658		
K3	12	5,1517		
K1	12	8,2700		
K2	12		29,6417	
Sig.		0,212	1,000	

Lampiran 2. Sidik ragam berat segar sekunder

Tests of Between-Subjects Effects					
Dependent Variable: Berat_Segar_Akar_Sekunder					
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1805,413 ^a	15	120,361	4,037	0,000
Intercept	4909,417	1	4909,417	164,679	0,000
Jarak	101,569	3	33,856	1,136	0,349
Kedalaman	1257,127	3	419,042	14,056	0,000
Jarak * Kedalaman	446,717	9	49,635	1,665	0,139
Error	953,987	32	29,812		
Total	7668,816	48			
Corrected Total	2759,400	47			

Berat_Segar_Akar_Sekunder		
Duncan _{a,b}		
Jarak	N	Subset
		1
J4	12	8,5842
J3	12	8,7908
J2	12	11,1450
J1	12	11,9333
Sig.		0,180

Berat_Segar_Akar_Sekunder			
Duncan _{a,b}			
Kedalaman	N	Subset	
		1	2
K4	12	4,0050	
K3	12	6,2483	
K1	12		13,9217
K2	12		16,2783
Sig.		0,322	0,298

Lampiran 3. Sidik ragam berat segar tersier

Tests of Between-Subjects Effects					
Dependent Variable: Berat_Segar_Akar_Tersier					
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	252919.791 ^a	15	16861,319	5,677	0,000
Intercept	235023,633	1	235023,633	79,130	0,000
Jarak	21955,330	3	7318,443	2,464	0,080
Kedalaman	196054,638	3	65351,546	22,003	0,000
Jarak * Kedalaman	34909,823	9	3878,869	1,306	0,272
Error	95042,695	32	2970,084		
Total	582986,119	48			
Corrected Total	347962,486	47			

Berat_Segar_Akar_Tersier			
Duncan _{a,b}	N	Subset	
		1	2
Jarak			
J4	12	51,9650	
J3	12	55,7675	
J2	12	66,2750	66,2750
J1	12		105,8875
Sig.		0,550	0,085

Berat_Segar_Akar_Tersier			
Duncan _{a,b}	N	Subset	
		1	2
Kedalaman			
K4	12	18,2200	
K3	12	26,5733	
K2	12	57,3483	
K1	12		177,7533
Sig.		0,105	1,000

Lampiran 4. Sidik ragam berat segar akar total

Tests of Between-Subjects Effects					
Dependent Variable: Berat_Segar_Akar_Total					
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	305697.999 ^a	15	20379,867	6,130	0,000
Intercept	401160,102	1	401160,102	120,660	0,000
Jarak	36772,881	3	12257,627	3,687	0,022
Kedalaman	231049,418	3	77016,473	23,165	0,000
Jarak * Kedalaman	37875,700	9	4208,411	1,266	0,293
Error	106390,759	32	3324,711		
Total	813248,860	48			
Corrected Total	412088,758	47			

Berat_Segar_Akar_Total			
Duncan _{a,b}		Subset	
Jarak	N	1	2
J4	12	68,6058	
J3	12	70,6625	
J2	12	89,0808	
J1	12		137,3283
Sig.		0,419	1,000

Berat_Segar_Akar_Total				
Duncan _{a,b}		Subset		
Kedalaman	N	1	2	3
K4	12	24,4908		
K3	12	37,9733		
K2	12		103,2683	
K1	12			199,9450
Sig.		0,571	1,000	1,000

Lampiran 5. Sidik Ragam kepadatan akar primer

Tests of Between-Subjects Effects						
Dependent Variable: Kepadatan_P						
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	
Corrected Model	82.389 ^a	15	5,493	4,930	0,000	
Intercept	47,128	1	47,128	42,304	0,000	
Jarak	9,383	3	3,128	2,807	0,055	
Kedalaman	50,690	3	16,897	15,167	0,000	
Jarak * Kedalaman	22,316	9	2,480	2,226	0,047	
Error	35,649	32	1,114			
Total	165,166	48				
Corrected Total	118,038	47				

Kepadatan_P					
Duncan _a					
Interaksi	N	Subset for alpha = 0.05			
		1	2	3	4
J4K4	3	0,0347			
J3K4	3	0,0527			
J3K3	3	0,0900			
J2K4	3	0,1080			
J4K3	3	0,1127			
J4K1	3	0,1293			
J1K4	3	0,3573	0,3573		
J2K3	3	0,5193	0,5193		
J1K1	3	0,6300	0,6300		
J2K1	3	0,6930	0,6930		
J3K2	3	0,7443	0,7443		
J1K3	3	0,7573	0,7573		
J3K1	3	1,4333	1,4333	1,4333	
J4K2	3		2,2563	2,2563	
J2K2	3			2,9470	
J1K2	3				4,9887
Sig.		0,181	0,065	0,106	1,000

Lampiran 6. Sidik ragam kepadatan akar sekunder

Tests of Between-Subjects Effects					
Dependent Variable:	Kepadatan_S				
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	8,620 ^a	15	0,575	3,615	0,001
Intercept	21,977	1	21,977	138,263	0,000
Jarak	1,737	3	0,579	3,642	0,023
Kedalaman	5,802	3	1,934	12,167	0,000
Jarak * Kedalaman	1,081	9	0,120	0,756	0,656
Error	5,086	32	0,159		
Total	35,683	48			
Corrected Total	13,706	47			

Kepadatan_S			
Duncan _{ab}			
		Subset	
Jarak	N	1	2
J4	12	0,5147	
J3	12	0,5283	
J2	12	0,6764	0,6764
J1	12		0,9873
Sig.		0,357	0,065

Kepadatan_S			
Duncan _{ab}			
		Subset	
Kedalaman	N	1	2
K4	12	0,2757	
K3	12	0,4019	
K2	12		0,9173
K1	12		1,1118
Sig.		0,444	0,241

Lampiran 7. Sidik ragam kepadatan akar tersier

Tests of Between-Subjects Effects					
Dependent Variable:	Kepadatan_T				
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1000.437 ^a	15	66,696	7,553	0,000
Intercept	961,776	1	961,776	108,921	0,000
Jarak	78,658	3	26,219	2,969	0,046
Kedalaman	821,561	3	273,854	31,014	0,000
Jarak * Kedalaman	100,218	9	11,135	1,261	0,295
Error	282,562	32	8,830		
Total	2244,775	48			
Corrected Total	1282,999	47			

Kepadatan_T			
Duncan _{ab}			
		Subset	
Jarak	N	1	2
J3	12	3,3478	
J4	12	3,8056	
J2	12	4,1084	
J1	12		6,6433
Sig.		0,560	1,000

Kepadatan_T			
Duncan _{ab}			
		Subset	
Kedalaman	N	1	2
K4	12	1,4031	
K3	12	1,7894	
K2	12	3,1604	
K1	12		11,5522
Sig.		0,181	1,000

Lampiran 8. Sidik ragam kepadatan total

Tests of Between-Subjects Effects					
Dependent Variable:	Kepadatan_Total				
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1308.405 ^a	15	87,227	6,551	0,000
Intercept	1811,522	1	1811,522	136,041	0,000
Jarak	172,811	3	57,604	4,326	0,011
Kedalaman	1013,296	3	337,765	25,365	0,000
Jarak * Kedalaman	122,298	9	13,589	1,020	0,445
Error	426,112	32	13,316		
Total	3546,039	48			
Corrected Total	1734,517	47			

Kepadatan_Total			
Duncan _{ab}			
		Subset	
Jarak	N	1	2
J3	12	4,4556	
J4	12	4,9529	
J2	12	5,8512	
J1	12		9,3135
Sig.		0,385	1,000

Kepadatan_Total				
Duncan _{ab}				
		Subset		
Kedalaman	N	1	2	3
K4	12	1,8164		
K3	12	2,5608		
K2	12		6,8113	
K1	12			13,3848
Sig.		0,621	1,000	1,000

Lampiran 9. Sidik ragam jumlah akar primer

Tests of Between-Subjects Effects					
Dependent Variable:	Jumlah_Akar_Primer				
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1535,250 ^a	15	102,350	2,586	0,012
Intercept	1850,083	1	1850,083	46,739	0,000
Jarak	190,250	3	63,417	1,602	0,208
Kedalaman	1046,417	3	348,806	8,812	0,000
Jarak * Kedalaman	298,583	9	33,176	0,838	0,587
Error	1266,667	32	39,583		
Total	4652,000	48			
Corrected Total	2801,917	47			

Jumlah_Akar_Primer		
Duncan _{a,b}		
	N	Subset
Jarak		1
J3	12	4,17
J4	12	4,33
J2	12	7,67
J1	12	8,67
Sig.		0,118

Jumlah_Akar_Primer		
Duncan _{a,b}		
	N	Subset
Kedalaman		1 2
K4	12	1,92
K3	12	4,00
K1	12	4,83
K2	12	14,08
Sig.		0,293 1,000

Lampiran 10. Sidik ragam jumlah akar sekunder

Tests of Between-Subjects Effects					
Dependent Variable:		Jumlah_Akar_Sekunder			
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	19751,917 ^a	15	1316,794	2,424	0,017
Intercept	64680,083	1	64680,083	119,061	0,000
Jarak	3702,917	3	1234,306	2,272	0,099
Kedalaman	12204,083	3	4068,028	7,488	0,001
Jarak * Kedalaman	3844,917	9	427,213	0,786	0,630
Error	17384,000	32	543,250		
Total	101816,000	48			
Corrected Total	37135,917	47			

Jumlah_Akar_Sekunder			
Duncan _{a,b}		Subset	
Jarak	N	1	2
J3	12	25,3333	
J4	12	35,1667	35,1667
J2	12	36,3333	36,3333
J1	12		50,0000
Sig.		0,284	0,150

Jumlah_Akar_Sekunder			
Duncan _{a,b}		Subset	
Kedalaman	N	1	2
K4	12	20,1667	
K3	12	22,7500	
K1	12		45,5000
K2	12		58,4167
Sig.		0,788	0,184

Lampiran 11. Sidik ragam jumlah akar tersier

Tests of Between-Subjects Effects					
Dependent Variable:	Jumlah_Akar_Tersier				
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2196412724,646 ^a	15	146427514,976	5,654	0,000
Intercept	2046854621,021	1	2046854621,021	79,042	0,000
Jarak	197019710,229	3	65673236,743	2,536	0,074
Kedalaman	1695200990,063	3	565066996,688	21,821	0,000
Jarak * Kedalaman	304192024,354	9	33799113,817	1,305	0,273
Error	828665777,333	32	25895805,542		
Total	5071933123,000	48			
Corrected Total	3025078501,979	47			

Jumlah_Akar_Tersier			
Duncan _{a,b}			
		Subset	
Jarak	N	1	2
J4	12	4791,25	
J3	12	5212,08	
J2	12	6189,83	6189,83
J1	12		9927,42
Sig.		0,532	0,081

Jumlah_Akar_Tersier			
Duncan _{a,b}			
		Subset	
Kedalaman	N	1	2
K4	12	1701,17	
K3	12	2517,33	
K2	12	5349,42	
K1	12		16552,67
Sig.		0,106	1,000

Lampiran 12. Sidik ragam berat volume tanah (BV)

Tests of Between-Subjects Effects					
Dependent Variable:	BV				
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1,640 ^a	15	0,109	2,559	0,013
Intercept	64,429	1	64,429	1508,012	0,000
Jarak	0,056	3	0,019	0,439	0,727
Kedalaman	0,990	3	0,330	7,725	0,001
Jarak * Kedalaman	0,593	9	0,066	1,543	0,175
Error	1,367	32	0,043		
Total	67,436	48			
Corrected Total	3,007	47			

BV		
Duncan _{a,b}		
		Subset
Jarak	N	1
J1	12	1,106167
J3	12	1,150000
J4	12	1,186417
J2	12	1,191667
Sig.		0,364

BV			
Duncan _{a,b}			
		Subset	
Kedalaman	N	1	2
K1	12	0,927833	
K2	12		1,154417
K3	12		1,247083
K4	12		1,304917
Sig.		1,000	0,101

Lampiran 13. Sidik ragam berat jenis tanah (BJ)

Tests of Between-Subjects Effects					
Dependent Variable:	BJ				
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1,025 ^a	15	0,068	2,060	0,042
Intercept	248,444	1	248,444	7487,850	0,000
Jarak	0,058	3	0,019	0,583	0,631
Kedalaman	0,702	3	0,234	7,049	0,001
Jarak * Kedalaman	0,266	9	0,030	0,890	0,544
Error	1,062	32	0,033		
Total	250,531	48			
Corrected Total	2,087	47			

BJ		
Duncan _{a,b}		
		Subset
Jarak	N	1
J1	12	2,21810
J2	12	2,27954
J3	12	2,29155
J4	12	2,31108
Sig.		0,263

BJ			
Duncan _{a,b}			
		Subset	
Kedalaman	N	1	2
K1	12	2,06851	
K2	12		2,31188
K4	12		2,35532
K3	12		2,36455
Sig.		1,000	0,511

Lampiran 14. Sidik ragam porositas

Tests of Between-Subjects Effects					
Dependent Variable:	Porositas				
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1707,435 ^a	15	113,829	2,571	0,012
Intercept	118037,887	1	118037,887	2666,145	0,000
Jarak	78,284	3	26,095	0,589	0,626
Kedalaman	828,015	3	276,005	6,234	0,002
Jarak * Kedalaman	801,136	9	89,015	2,011	0,071
Error	1416,732	32	44,273		
Total	121162,054	48			
Corrected Total	3124,167	47			

Porositas		
Duncan _{a,b}		
		Subset
Jarak	N	1
J2	12	47,8780
J4	12	48,9283
J3	12	50,3623
J1	12	51,1895
Sig.		0,275

Porositas			
Duncan _{a,b}			
		Subset	
Kedalaman	N	1	2
K4	12	44,6631	
K3	12	47,3801	
K2	12	50,4753	50,4753
K1	12		55,8398
Sig.		0,050	0,057

Lampiran 15. Korelasi pearson

		Correlations										
		BV	Porositas	BSP	BSS	BST	KAP	KAS	KAT	JAP	JAS	JAT
BV	Pearson Correlation	1	-.958**	-.093	-.363	-.638**	-.054	-.512**	-.624**	-.008	-.233	-.637**
	Sig. (2-tailed)		0,000	0,528	0,011	0,000	0,716	0,000	0,000	0,955	0,111	0,000
	N	48	48	48	48	48	48	48	48	48	48	48
Porositas	Pearson Correlation	-.958**	1	0,100	.375**	.590**	0,055	.481**	.540**	-.008	0,221	.589**
	Sig. (2-tailed)	0,000		0,497	0,009	0,000	0,711	0,001	0,000	0,956	0,131	0,000
	N	48	48	48	48	48	48	48	48	48	48	48
BSP	Pearson Correlation	-.093	0,100	1	.490**	0,053	.972**	.576**	0,109	.886**	.828**	0,054
	Sig. (2-tailed)	0,528	0,497		0,000	0,721	0,000	0,000	0,462	0,000	0,000	0,713
	N	48	48	48	48	48	48	48	48	48	48	48
BSS	Pearson Correlation	-.363	.375**	.490**	1	.583**	.463**	.835**	.488**	.402**	.544**	.583**
	Sig. (2-tailed)	0,011	0,009	0,000		0,000	0,001	0,000	0,000	0,005	0,000	0,000
	N	48	48	48	48	48	48	48	48	48	48	48
BST	Pearson Correlation	-.638**	.590**	0,053	.583**	1	0,033	.664**	.898**	-.034	0,218	1,000**
	Sig. (2-tailed)	0,000	0,000	0,721	0,000		0,826	0,000	0,000	0,819	0,137	0,000
	N	48	48	48	48	48	48	48	48	48	48	48
KAP	Pearson Correlation	-.054	0,055	.972**	.463**	0,033	1	.553**	0,112	.924**	.832**	0,034
	Sig. (2-tailed)	0,716	0,711	0,000	0,001	0,826		0,000	0,447	0,000	0,000	0,820
	N	48	48	48	48	48	48	48	48	48	48	48
KAS	Pearson Correlation	-.512**	.481**	.576**	.835**	.664**	.553**	1	.709**	.515**	.757**	.665**
	Sig. (2-tailed)	0,000	0,001	0,000	0,000	0,000	0,000		0,000	0,000	0,000	0,000
	N	48	48	48	48	48	48	48	48	48	48	48
KAT	Pearson Correlation	-.624**	.540**	0,109	.488**	.898**	0,112	.709**	1	0,085	.359	.899**
	Sig. (2-tailed)	0,000	0,000	0,462	0,000	0,000	0,447	0,000		0,566	0,012	0,000
	N	48	48	48	48	48	48	48	48	48	48	48
JAP	Pearson Correlation	-.008	-.008	.886**	.402**	-.034	.924**	.515**	0,085	1	.822**	-.033
	Sig. (2-tailed)	0,955	0,956	0,000	0,005	0,819	0,000	0,000	0,566		0,000	0,826
	N	48	48	48	48	48	48	48	48	48	48	48
JAS	Pearson Correlation	-.233	0,221	.828**	.544**	0,218	.832**	.757**	.359	.822**	1	0,217
	Sig. (2-tailed)	0,111	0,131	0,000	0,000	0,137	0,000	0,000	0,012	0,000		0,138
	N	48	48	48	48	48	48	48	48	48	48	48
JAT	Pearson Correlation	-.637**	.589**	0,054	.583**	1,000**	0,034	.665**	.899**	-.033	0,217	1
	Sig. (2-tailed)	0,000	0,000	0,713	0,000	0,000	0,820	0,000	0,000	0,826	0,138	
	N	48	48	48	48	48	48	48	48	48	48	48

** . Correlation is significant at the 0.01 level (2-tailed).
* . Correlation is significant at the 0.05 level (2-tailed).

Lampiran 16. Dokumentasi penelitian



Survey lahan



Pembersihan permukaan tanah



Pengukuran jarak



Pembuatan petak sampel



Pengukuran kedalaman



Pemotongan sampel



Pemindahan sampel



Pencucian atau pemisahan akar dengan tanah



Proses penghitungan jumlah akar primer, sekunder dan tersier



Akar primer, sekunder dan tersier



Proses kering angin



Proses pengovenan akar



Penimbangan berat kering akar



Proses kering angin



Pengayakan tanah yang sudah kering angin (2 mm)



Pengovenan tanah yang sudah diayak menggunakan botol timbang



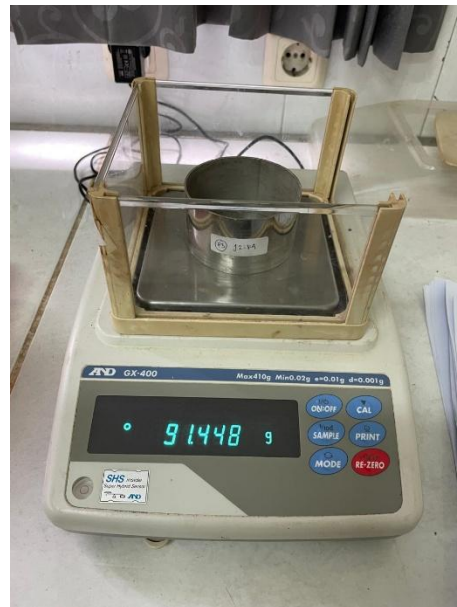
Penimbangan botol timbang yang telah di oven



Persiapan pengovenan ring sampel tanah



Proses pengovenan ring sampel tanah



Penimbangan ring sampel setelah pengovenan



Persiapan alat piknometer untuk mencari berat jenis tanah



Proses pemasukan tanah yang sudah di ayak (2 mm) kedalam piknometer



Proses pengendapan



Proses penimbangan piknometer yang sudah mengendap semalaman