

## LAMPIRAN

Lampiran 1 Hasil analisis ragam (ANOVA) pertambahan panjang akar tanaman

				Sum of Squares	df	Mean Square	F	Sig.
M1	Between Groups	(Combined)		0,000	4	0,000		
		Linear	Unweighted	0,000	1	0,000		
		Term	Weighted	0,000	1	0,000		
			Deviation	0,000	3	0,000		
				0,000	8	0,000		
	Within Groups				9			
	Total			0,000	9			
					3			
M2	Between Groups	(Combined)		3,465	4	,866	,864	,489
		Linear	Unweighted	1,663	1	1,663	1,658	,201
		Term	Weighted	1,976	1	1,976	1,971	,164
			Deviation	1,489	3	,496	,495	,687
				89,240	8	1,003		
	Within Groups				9			
	Total			92,706	9			
					3			
M3	Between Groups	(Combined)		1571,706	4	392,926	3,346	,013
		Linear	Unweighted	1069,511	1	1069,511	9,107	,003
		Term	Weighted	1178,273	1	1178,273	10,033	,002
			Deviation	393,433	3	131,144	1,117	,347
				10452,457	8	117,443		
	Within Groups				9			
	Total			12024,163	9			
					3			
M4	Between Groups	(Combined)		3623,569	4	905,892	3,952	,005
		Linear	Unweighted	1818,011	1	1818,011	7,932	,006
		Term	Weighted	2094,739	1	2094,739	9,139	,003
			Deviation	1528,831	3	509,610	2,223	,091

	Within Groups			20399,39	8	229,207			
				4	9				
	Total			24022,96	9				
				4	3				
M5	Between Groups	(Combined)		6713,268	4	1678,317	11,145	,000	
	Linear Term	Unweighted		3130,170	1	3130,170	20,786	,000	
		Weighted		3732,720	1	3732,720	24,787	,000	
		Deviation		2980,548	3	993,516	6,597	,000	
	Within Groups			13402,68	8	150,592			
				6	9				
	Total			20115,95	9				
				4	3				
M6	Between Groups	(Combined)		1910,994	4	477,748	1,636	,172	
	Linear Term	Unweighted		208,066	1	208,066	,712	,401	
		Weighted		293,811	1	293,811	1,006	,319	
		Deviation		1617,183	3	539,061	1,845	,145	
	Within Groups			25997,79	8	292,110			
				1	9				
	Total			27908,78	9				
				5	3				
M7	Between Groups	(Combined)		3444,613	4	861,153	3,983	,005	
	Linear Term	Unweighted		927,113	1	927,113	4,288	,041	
		Weighted		1228,376	1	1228,376	5,681	,019	
		Deviation		2216,237	3	738,746	3,417	,021	
	Within Groups			19242,70	8	216,210			
				1	9				
	Total			22687,31	9				
				4	3				
M8	Between Groups	(Combined)		2460,637	4	615,159	1,930	,112	
		Unweighted		1254,242	1	1254,242	3,935	,050	

		Linea	Weighted	1374,579	1	1374,579	4,313	,041
		r	Deviation	1086,057	3	362,019	1,136	,339
		Term						
		Within Groups		28367,903	89	318,740		
		Total		30828,540	93			
M9	Between	(Combined)		137,775	4	34,444	,377	,825
	Groups	Linea	Unweighte	31,139	1	31,139	,341	,561
		r	d					
		Term	Weighted	27,085	1	27,085	,296	,588
			Deviation	110,690	3	36,897	,403	,751
		Within Groups		8138,907	89	91,448		
		Total		8276,682	93			
M10	Between	(Combined)		64,182	4	16,045	,312	,869
	Groups	Linea	Unweighte	20,209	1	20,209	,393	,532
		r	d					
		Term	Weighted	16,083	1	16,083	,313	,577
			Deviation	48,099	3	16,033	,312	,817
		Within Groups		4573,718	89	51,390		
		Total		4637,900	93			
M11	Between	(Combined)		446,234	4	111,559	1,167	,331
	Groups	Linea	Unweighte	77,742	1	77,742	,813	,370
		r	d					
		Term	Weighted	52,176	1	52,176	,546	,462
			Deviation	394,058	3	131,353	1,374	,256
		Within Groups		8507,459	89	95,589		
		Total		8953,694	93			

## Lampiran 2 Hasil uji lanjut Tukey pertambahan panjang akar tanaman

Perlakuan	n	MST	Subset for alpha = 0.05	
			1	2
1	19	2	0	
2	23	2	0	
3	16	2	0	
4	15	2	0	
5	21	2	0,461	
1	19	3	0	
2	23	3	0	
3	16	3	0	
4	15	3	3,2107	3,2107
5	21	3		10,0852
2	23	4	0	
3	16	4	0	
1	19	4	3,4542	3,4542
4	15	4	5,12	5,12
5	21	4		16,1362
2	23	5	0	
3	16	5	0	
4	15	5	1,1213	
1	19	5	1,3984	
5	21	5		20,8376
3	16	6	1,7681	
2	23	6	2,37	
4	15	6	6,3927	
1	19	6	10,0321	
5	21	6	13,1771	
4	15	7	0,3093	
2	23	7	1,8552	
3	16	7	2,0494	
1	19	7	4,8316	4,8316
5	21	7		16,489
3	16	8	0	
2	23	8	1,263	
1	19	8	4,54	
4	15	8	8,044	
5	21	8	13,8095	
3	16	9	1,8675	
2	23	9	2,9052	
4	15	9	3,3347	
5	21	9	3,4252	



1	19	9	5,6347
4	15	10	1,57
2	23	10	1,5774
3	16	10	1,7163
5	21	10	2,1462
1	19	10	3,7495
1	19	11	0
5	21	11	0,481
2	23	11	0,7735
3	16	11	3,4763
4	15	11	6,1153

Lampiran 3 Hasil analisis ragam (ANOVA) pertambahan panjang rata-rata akar tanaman

		Sum of Squares	df	Mean Square	F	Sig.
Between Groups	(Combined)	847,178	4	211,795	7,146	,000
	Linear	370,038	1	370,038	12,485	,001
	Term	436,654	1	436,654	14,733	,000
	Weighted Deviation	410,524	3	136,841	4,617	,005
Within Groups		2637,757	89	29,638		
Total		3484,936	93			

Lampiran 4 Hasil uji lanjut Tukey pertambahan panjang rata-rata akar tanaman

Perlakuan	n	Subset for alpha = 0.05	
		1	2
2,00	23	,9770	
3,00	16	,9894	
1,00	19	3,0584	
4,00	15	3,2020	
5,00	21		8,8224
Sig.		,730	1,000

## Lampiran 5 Hasil analisis ragam (ANOVA) penambahan tinggi tanaman

				Sum of Squares	df	Mean Square	F	Sig.
M1	Between Groups	(Combined)		97,109	4	24,277	3,181	,017
		Linear	Unweighted	23,560	1	23,560	3,087	,082
		Term	Weighted	30,797	1	30,797	4,036	,048
			Deviation	66,312	3	22,104	2,897	,040
	Within Groups			679,144	89	7,631		
	Total			776,253	93			
M2	Between Groups	(Combined)		34,912	4	8,728	1,334	,263
		Linear	Unweighted	,562	1	,562	,086	,770
		Term	Weighted	,041	1	,041	,006	,937
			Deviation	34,870	3	11,623	1,777	,157
	Within Groups			582,154	89	6,541		
	Total			617,066	93			
M3	Between Groups	(Combined)		13,596	4	3,399	1,195	,319
		Linear	Unweighted	2,643	1	2,643	,929	,338
		Term	Weighted	2,837	1	2,837	,998	,321
			Deviation	10,759	3	3,586	1,261	,293
	Within Groups			253,145	89	2,844		
	Total			266,740	93			
M4	Between Groups	(Combined)		61,250	4	15,312	1,195	,319
		Linear	Unweighted	19,698	1	19,698	1,537	,218
		Term	Weighted	23,410	1	23,410	1,827	,180
			Deviation	37,840	3	12,613	,984	,404
	Within Groups			1140,396	89	12,813		
	Total			1201,645	93			
M5	Between Groups	(Combined)		149,751	4	37,438	1,654	,168
		Linear	Unweighted	68,797	1	68,797	3,040	,085
		Term	Weighted	79,226	1	79,226	3,501	,065
			Deviation	70,525	3	23,508	1,039	,379
	Within Groups			2013,981	89	22,629		
	Total			2163,732	93			
M6	Between Groups	(Combined)		527,461	4	131,865	3,230	,016
		Linear	Unweighted	268,855	1	268,855	6,586	,012
		Term	Weighted	310,356	1	310,356	7,603	,007
			Deviation	217,105	3	72,368	1,773	,158
	Within Groups			3633,002	89	40,820		
	Total			4160,463	93			
M7	Between Groups	(Combined)		76,007	4	19,002	2,031	,097
		Linear	Unweighted	39,584	1	39,584	4,230	,043
		Term	Weighted	45,316	1	45,316	4,843	,030
			Deviation	30,692	3	10,231	1,093	,356
	Within Groups			832,835	89	9,358		

	Total			908,842	93				
M8	Between Groups	(Combined Linear Term)	Unweighted	319,886	4	79,972	1,953	,109	
			Weighted	100,060	1	100,060	2,443	,122	
			Deviation	123,241	1	123,241	3,009	,086	
				196,645	3	65,548	1,601	,195	
	Within Groups			3644,666	89	40,951			
	Total			3964,552	93				
M9	Between Groups	(Combined Linear Term)	Unweighted	374,866	4	93,716	4,562	,002	
			Weighted	5,688	1	5,688	,277	,600	
			Deviation	17,526	1	17,526	,853	,358	
				357,340	3	119,113	5,798	,001	
	Within Groups			1828,300	89	20,543			
	Total			2203,166	93				
M10	Between Groups	(Combined Linear Term)	Unweighted	53,155	4	13,289	,787	,537	
			Weighted	8,594	1	8,594	,509	,478	
			Deviation	7,961	1	7,961	,471	,494	
				45,194	3	15,065	,892	,449	
	Within Groups			1503,312	89	16,891			
	Total			1556,467	93				
M11	Between Groups	(Combined Linear Term)	Unweighted	270,857	4	67,714	1,170	,329	
			Weighted	85,676	1	85,676	1,480	,227	
			Deviation	90,114	1	90,114	1,557	,215	
				180,742	3	60,247	1,041	,378	
	Within Groups			5150,689	89	57,873			
	Total			5421,545	93				

#### Lampiran 6 Hasil uji lanjut Tukey pertambahan tinggi tanaman

Perlakuan	n	MST	Subset for alpha = 0.05	
			1	2
5	21	1	0,301	
1	19	1	1,7395	1,7395
4	15	1	2,3733	2,3733
3	16	1		2,8525
2	23	1		2,9665
1	19	2	0,8632	
5	21	2	1,181	
3	16	2	1,6106	
4	15	2	2,286	
2	23	2	2,3857	
3	16	3	0,7713	
4	15	3	1,2433	
5	21	3	1,3419	
1	19	3	1,5847	
2	23	3	1,92	

3	16	4	0,5706	
4	15	4	1,2347	
1	19	4	1,3263	
2	23	4	1,3583	
5	21	4	2,9747	
2	23	5	0,5696	
3	16	5	0,6875	
1	19	5	1,6716	
4	15	5	2,0073	
5	21	5	3,9177	
2	23	6	0,4483	
3	16	6	0,7106	
1	19	6	1,8768	1,8768
4	15	6	2,5067	2,5067
5	21	6		6,709
3	16	7	0,3831	
2	23	7	0,6609	
1	19	7	0,7116	
4	15	7	0,986	
5	21	7	2,7981	
3	16	8	0,3781	
2	23	8	1,0939	
4	15	8	1,6907	
1	19	8	2,2721	
5	21	8	5,5495	
4	15	9	0,4187	
3	16	9	1,4819	
2	23	9	1,6191	1,6191
1	19	9	4,3258	4,3258
5	21	9		5,7786
3	16	10	0,4419	
2	23	10	0,9548	
1	19	10	1,8421	
5	21	10	2,0314	
4	15	10	2,672	
2	23	11	0,2857	
3	16	11	1	
1	19	11	2,9732	
5	21	11	4,1971	
4	15	11	4,4553	

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## Lampiran 7 Hasil analisis ragam (ANOVA) penambahan rata-rata tinggi tanaman

			Sum of Squares	df	Mean Square	F	Sig.
Between Groups	(Combined)		65,387	4	16,347	3,928	,006
	Linear Term	Unweighted	24,353	1	24,353	5,851	,018
		Weighted	28,454	1	28,454	6,837	,010
		Deviation	36,933	3	12,311	2,958	,037
Within Groups			370,408	89	4,162		
Total			435,795	93			

## Lampiran 8 Hasil uji lanjut Tukey penambahan tinggi rata-rata tanaman

Perlakuan	n	Subset for alpha = 0.05	
		1	2
2,00	23	,9770	
3,00	16	,9894	
1,00	19	3,0584	
4,00	15	3,2020	
5,00	21		8,8224
Sig.		,730	1,000

## Lampiran 9 Hasil analisis ragam (ANOVA) penambahan tunas tanaman

			Sum of Squares	df	Mean Square	F	Sig.
Between Groups	(Combined)		2,548	4	,637	,483	,748
	Linear Term	Unweighted	1,553	1	1,553	1,178	,281
		Weighted	1,457	1	1,457	1,105	,296
		Deviation	1,091	3	,364	,276	,843
Within Groups			117,324	89	1,318		
Total			119,872	93			

## Lampiran 10 Hasil uji lanjut Tukey penambahan tunas tanaman

Perlakuan	n	Subset for alpha = 0.05	
		1	
1,00	19	1,5263	
2,00	23	1,6087	
5,00	21	1,8095	
4,00	15	1,9333	
3,00	16	1,9375	
Sig.		,814	

## Lampiran 11 Hasil analisis ragam (ANOVA) penambahan daun tanaman

			Sum of Squares	df	Mean Square	F	Sig.
Between Groups	(Combined)		1104,759	4	276,190	4,510	,002
	Linear Term	Unweighted	378,229	1	378,229	6,176	,015
		Weighted	444,989	1	444,989	7,267	,008
		Deviation	659,770	3	219,923	3,591	,017
Within Groups			5450,220	89	61,238		
Total			6554,979	93			

## Lampiran 12 Hasil uji lanjut Tukey penambahan daun tanaman

Perlakuan	n	Subset for alpha = 0.05	
		1	2
3,00	16	2,1250	
2,00	23	4,6957	
4,00	15	5,9333	5,9333
1,00	19	6,0000	6,0000
5,00	21		12,3333
Sig.		,566	,106

## Lampiran 13 Hasil analisis ragam (ANOVA) penambahan biomassa tanaman

			Sum of Squares	df	Mean Square	F	Sig.
Between Groups	(Combined)		33,516	4	8,379	2,201	,075
	Linear Term	Unweighted	9,066	1	9,066	2,381	,126
		Weighted	10,906	1	10,906	2,865	,094
		Deviation	22,611	3	7,537	1,980	,123
Within Groups			338,815	89	3,807		
Total			372,331	93			

## Lampiran 14 Hasil uji lanjut Tukey penambahan biomassa tanaman

Perlakuan	n	Subset for alpha = 0.05	
		1	
3,00	16	,7106	
4,00	15	1,0240	
1,00	19	1,1526	
2,00	23	1,4413	
5,00	21	2,4376	
Sig.		,065	



## Lampiran 15 Hasil analisis ragam (ANOVA) penyusutan media tanam

			Sum of Squares	df	Mean Square	F	Sig.
Between Groups	(Combined)		33,923	4	8,481	2,260	,069
	Linear Term	Unweighted	11,390	1	11,390	3,035	,085
		Weighted	13,184	1	13,184	3,513	,064
		Deviation	20,739	3	6,913	1,842	,145
Within Groups			334,002	89	3,753		
Total			367,926	93			

## Lampiran 16 Hasil uji lanjut Tukey penyusutan media tanam

Perlakuan	n	Subset for alpha = 0.05	
		1	
3,00	16	,7031	
1,00	19	,9447	
4,00	15	,9853	
2,00	23	1,4287	
5,00	21	2,3729	
Sig.		,077	

## Lampiran 17 Hasil analisis ragam (ANOVA) kerontokan daun tanaman

			Sum of Squares	df	Mean Square	F	Sig.
Between Groups	(Combined)		,276	4	,069	1,030	,396
	Linear Term	Unweighted	,002	1	,002	,031	,861
		Weighted	,007	1	,007	,107	,744
		Deviation	,269	3	,090	1,338	,267
Within Groups			5,959	89	,067		
Total			6,235	93			

## Lampiran 18 Hasil uji lanjut Tukey kerontokan daun tanaman

Perlakuan	n	Subset for alpha = 0.05	
		1	
1,00	19	,0252	
5,00	21	,0430	
3,00	16	,0670	
4,00	15	,1009	
2,00	23	,1689	
Sig.		,451	



Lampiran 19 Gambar tanaman tidak berakar



Lampiran 20 Gambar tanaman berakar

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