

Lampiran 1. Gambar Hasil Respon Pertumbuhan dan Regenerasi Tanaman Jagung Pulut (*Zea mays* Var. *ceratina*) Hasil Induksi Mutasi Menggunakan *ethyl methane sulfonate* (EMS).

Konsentrasi EMS 20 ppm lama perendaman ½ jam



Konsentrasi EMS 20 ppm lama perendaman 1 jam



EMS 40 ppm lama pperendaman ½ jam



Konsentrasi EMS 40 ppm lama perendaman 1 jam.





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Nomor : 378/UN60.3.1/PP/2022
Lampiran : -
Perihal : Surat Izin Penelitian

Kefamenanu, 06 April 2022

Yth. Kepala Laboratorium Pendidikan Biologi Universitas Timor

Di –
Tempat

Dengan hormat,

Sesuai perihal surat diatas, maka bersama ini kami mohon untuk diberikan ijin kepada mahasiswa kami dari Program Studi Pendidikan Biologi Fakultas Ilmu Pendidikan Universitas Timor atas nama Fransiska Anjelica Kosat, NPM: 33170091 untuk melaksanakan penelitian yang bertempat/berlokasi di Sekolah Bapak/Ibu Pimpin. Penelitian ini dimaksudkan untuk memenuhi persyaratan dalam penyelesaian Skripsi atau Tugas Akhir mahasiswa tersebut. Judul penelitian tertera sebagai berikut : **“Induksi Mutasi Dan Seleksi In Vitro Menggunakan Ethyl Methane Sulfonate (EMS) Untuk Ketahanan Jagung Pulut (*Zea Mays* Var.Ceratina) Terhadap Cekaman Kekeringan”**.

Demikian permohonan ini kami sampaikan. atas perhatian dan kerjasamanya kami mengucapkan terima kasih.

Wakil Dekan Bidang Akademik &
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Menerangkan bahwa mahasiswa tersebut di bawah ini :


Nama : Fransisca Anjelica Kosat
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Telah selesai melakukan penelitian di Laboratorium Biologi, terhitung mulai tanggal 02 Juli 2021 sampai dengan tanggal 07 Februari 2022, untuk memperoleh data dalam rangka penyusunan skripsi yang berjudul :

" INDUKSI MUTASI DAN REGENERASI MENGGUNAKAN ETHYL METHANE SULFONATE (EMS) UNTUK KETAHANAN JAGUNG PULUT (ZEA MAYS VAR. CERATINA)".

Demikian surat keterangan ini dibuat dan diberikan kepada yang bersangkutan untuk dipergunakan seperlunya,

Kefamenanu, 06 Juni 2022
Kepala Laboratorium Biologi


Maria Yustiningsih, S.Si., M.Si
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ONEWAY HMA HMT J.A T.Ta P.A BY Perlakuan
 /STATISTICS DESCRIPTIVES HOMOGENEITY
 /MISSING ANALYSIS
 /POSTHOC=DUKEY DUNCAN LSD ALPHA(0.05).

Oneway

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
						Lower Bound	Upper Bound
Hari Muncul Akar	S0	5	.7588	.35889	.16050	.3132	1.2044
	S1	5	.5832	.38183	.17076	.1091	1.0573
	S2	5	.3998	.33540	.14999	-.0167	.8163
	S3	5	.4500	.41496	.18558	-.0652	.9652
	S4	5	.3140	.32561	.14562	-.0903	.7183
	Total	25	.5012	.36891	.07378	.3489	.6534
Hari Muncul Tunas	S0	5	.3110	.16887	.07552	.1013	.5207
	S1	5	.1500	.10872	.04862	.0150	.2850
	S2	5	.2334	.21552	.09638	-.0342	.5010
	S3	5	.0710	.07100	.03175	-.0172	.1592
	S4	5	.0692	.06883	.03078	-.0163	.1547
	Total	25	.1669	.15908	.03182	.1013	.2326
Jumlah Akar	S0	5	.7776	.50688	.22668	.1482	1.4070
	S1	5	.6166	.38003	.16995	.1447	1.0885
	S2	5	.4498	.38457	.17198	-.0277	.9273
	S3	5	.3712	.34750	.15540	-.0603	.8027
	S4	5	.3140	.32561	.14562	-.0903	.7183
	Total	25	.5058	.39922	.07984	.3411	.6706
Tinggi Tanaman	S0	5	2.7798	2.26223	1.01170	-.0291	5.5887
	S1	5	2.1632	2.01212	.89985	-.3352	4.6616
	S2	5	1.0704	1.08591	.48563	-.2779	2.4187
	S3	5	.8302	.84133	.37626	-.2145	1.8749
	S4	5	.4528	.56922	.25456	-.2540	1.1596
	Total	25	1.4593	1.63943	.32789	.7826	2.1360
Panjang Akar	S0	5	.6102	.36638	.16385	.1553	1.0651
	S1	5	.2185	.17562	.07854	.0005	.4366
	S2	5	.2303	.18256	.08164	.0036	.4570
	S3	5	.1682	.17661	.07898	-.0511	.3875
	S4	5	.1228	.12700	.05680	-.0349	.2805
	Total	25	.2700	.26948	.05390	.1588	.3812

Descriptives

		Minimum	Maximum
Hari Muncul Akar	S0	.23	1.20
	S1	.00	1.00
	S2	.00	.75
	S3	.00	.83
	S4	.00	.71
	Total	.00	1.20
Hari Muncul Tunas	S0	.11	.54
	S1	.00	.25
	S2	.00	.58
	S3	.00	.14
	S4	.00	.14
	Total	.00	.58
Jumlah Akar	S0	.01	1.40
	S1	.00	1.00
	S2	.00	.83
	S3	.00	.71
	S4	.00	.71
	Total	.00	1.40
Tinggi Tanaman	S0	.04	5.65
	S1	.00	4.44
	S2	.00	2.64
	S3	.00	1.88
	S4	.00	1.37
	Total	.00	5.65
Panjang Akar	S0	.10	.89
	S1	.00	.39
	S2	.00	.42
	S3	.00	.42
	S4	.00	.28
	Total	.00	.89

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hari Muncul Akar	.321	4	20	.861
Hari Muncul Tunas	1.462	4	20	.251

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Hari Muncul Akar	Between Groups	.605	4	.151	1.137	.368
	Within Groups	2.661	20	.133		
	Total	3.266	24			
Hari Muncul Tunas	Between Groups	.221	4	.055	2.862	.050
	Within Groups	.386	20	.019		
	Total	.607	24			
Jumlah Akar	Between Groups	.721	4	.180	1.161	.357
	Within Groups	3.104	20	.155		
	Total	3.825	24			
Tinggi Tanaman	Between Groups	18.996	4	4.749	2.087	.121
	Within Groups	45.509	20	2.275		
	Total	64.506	24			
Panjang Akar	Between Groups	.760	4	.190	3.866	.017
	Within Groups	.983	20	.049		
	Total	1.743	24			

Post Hoc Tests

Multiple Comparisons

Dependent Variable		(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.
Hari Muncul Akar	Tukey HSD	S0	S1	.17560	.23070	.939
			S2	.35900	.23070	.540
			S3	.30880	.23070	.671
			S4	.44480	.23070	.335
		S1	S0	-.17560	.23070	.939
			S2	.18340	.23070	.929
			S3	.13320	.23070	.977
			S4	.26920	.23070	.769
		S2	S0	-.35900	.23070	.540
			S1	-.18340	.23070	.929
			S3	-.05020	.23070	.999
			S4	.08580	.23070	.996
		S3	S0	-.30880	.23070	.671
			S1	-.13320	.23070	.977
			S2	.05020	.23070	.999
			S4	.13600	.23070	.975
S4	S0	-.44480	.23070	.335		
	S1	-.26920	.23070	.769		

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	95% Confidence Interval		
			Lower Bound	Upper Bound	
Hari Muncul Akar	Tukey HSD	S0	S1	-.5148	.8660
			S2	-.3314	1.0494
			S3	-.3816	.9992
			S4	-.2456	1.1352
		S1	S0	-.8660	.5148
			S2	-.5070	.8738
			S3	-.5572	.8236
			S4	-.4212	.9596
		S2	S0	-1.0494	.3314
			S1	-.8738	.5070
			S3	-.7406	.6402
			S4	-.6046	.7762
		S3	S0	-.9992	.3816
			S1	-.8236	.5572
			S2	-.6402	.7406
			S4	-.5544	.8264
S4	S0	-1.1352	.2456		
	S1	-.9596	.4212		

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	
LSD		S2	-.08580	.23070	.996	
		S3	-.13600	.23070	.975	
	S0	S1	.17560	.23070	.455	
		S2	.35900	.23070	.135	
		S3	.30880	.23070	.196	
		S4	.44480	.23070	.068	
	S1	S0	-.17560	.23070	.455	
		S2	.18340	.23070	.436	
		S3	.13320	.23070	.570	
		S4	.26920	.23070	.257	
	S2	S0	-.35900	.23070	.135	
		S1	-.18340	.23070	.436	
		S3	-.05020	.23070	.830	
		S4	.08580	.23070	.714	
	S3	S0	-.30880	.23070	.196	
		S1	-.13320	.23070	.570	
		S2	.05020	.23070	.830	
		S4	.13600	.23070	.562	
	S4	S0	-.44480	.23070	.068	
		S1	-.26920	.23070	.257	
S2		-.08580	.23070	.714		
S3		-.13600	.23070	.562		
Hari Muncul Tunas	Tukey HSD	S0	S1	.16100	.08789	.384
			S2	.07760	.08789	.900
			S3	.24000	.08789	.084
			S4	.24180	.08789	.081
		S1	S0	-.16100	.08789	.384
			S2	-.08340	.08789	.874
			S3	.07900	.08789	.894
			S4	.08080	.08789	.886
		S2	S0	-.07760	.08789	.900
			S1	.08340	.08789	.874
			S3	.16240	.08789	.376
			S4	.16420	.08789	.365
		S3	S0	-.24000	.08789	.084
			S1	-.07900	.08789	.894
			S2	-.16240	.08789	.376
			S4	.00180	.08789	1.000
		S4	S0	-.24180	.08789	.081
			S1	-.08080	.08789	.886

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	95% Confidence Interval	
			Lower Bound	Upper Bound
LSD	S0	S2	-.7762	.6046
		S3	-.8264	.5544
	S1	S0	-.3056	.6568
		S2	-.1222	.8402
		S3	-.1724	.7900
		S4	-.0364	.9260
	S2	S0	-.6568	.3056
		S1	-.2978	.6646
		S3	-.3480	.6144
		S4	-.2120	.7504
	S3	S0	-.8402	.1222
		S1	-.6646	.2978
		S2	-.5314	.4310
		S4	-.3954	.5670
	S4	S0	-.7900	.1724
		S1	-.6144	.3480
		S2	-.4310	.5314
		S3	-.3452	.6172
	S0	S1	-.9260	.0364
		S2	-.7504	.2120
S3		-.5670	.3954	
S4		-.6172	.3452	
Hari Muncul Tunas	S0	S1	-.1020	.4240
		S2	-.1854	.3406
		S3	-.0230	.5030
		S4	-.0212	.5048
	S1	S0	-.4240	.1020
		S2	-.3464	.1796
		S3	-.1840	.3420
		S4	-.1822	.3438
	S2	S0	-.3406	.1854
		S1	-.1796	.3464
		S3	-.1006	.4254
		S4	-.0988	.4272
	S3	S0	-.5030	.0230
		S1	-.3420	.1840
		S2	-.4254	.1006
		S4	-.2612	.2648
	S4	S0	-.5048	.0212
		S1	-.3438	.1822

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.		
LSD	S0	S2	-.16420	.08789	.365		
		S3	-.00180	.08789	1.000		
	S1	S1	.16100	.08789	.082		
		S2	.07760	.08789	.388		
		S3	.24000*	.08789	.013		
		S4	.24180*	.08789	.012		
	S2	S0	-.16100	.08789	.082		
		S1	-.08340	.08789	.354		
		S3	.07900	.08789	.379		
		S4	.08080	.08789	.369		
	S3	S0	-.07760	.08789	.388		
		S1	.08340	.08789	.354		
		S3	.16240	.08789	.079		
		S4	.16420	.08789	.076		
	S4	S0	-.24000*	.08789	.013		
		S1	-.07900	.08789	.379		
		S2	-.16240	.08789	.079		
		S4	.00180	.08789	.984		
	Jumlah Akar	Tukey HSD	S0	S1	.16100	.24916	.965
				S2	.32780	.24916	.685
S3				.40640	.24916	.496	
S4				.46360	.24916	.369	
S1		S0	-.16100	.24916	.965		
		S2	.16680	.24916	.961		
		S3	.24540	.24916	.859		
		S4	.30260	.24916	.743		
S2		S0	-.32780	.24916	.685		
		S1	-.16680	.24916	.961		
		S3	.07860	.24916	.998		
		S4	.13580	.24916	.981		
S3	S0	-.40640	.24916	.496			
	S1	-.24540	.24916	.859			
	S2	-.07860	.24916	.998			
	S4	.05720	.24916	.999			
S4	S0	-.46360	.24916	.369			
	S1	-.30260	.24916	.743			

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	95% Confidence Interval	
			Lower Bound	Upper Bound
LSD	S0	S2	-.4272	.0988
		S3	-.2648	.2612
		S1	-.0223	.3443
		S2	-.1057	.2609
	S1	S3	.0567	.4233
		S4	.0585	.4251
		S0	-.3443	.0223
		S2	-.2667	.0999
	S2	S3	-.1043	.2623
		S4	-.1025	.2641
		S0	-.2609	.1057
		S1	-.0999	.2667
	S3	S3	-.0209	.3457
		S4	-.0191	.3475
		S0	-.4233	-.0567
		S1	-.2623	.1043
S4	S2	-.3457	.0209	
	S4	-.1815	.1851	
	S0	-.4251	-.0585	
	S1	-.2641	.1025	
Tukey HSD	S0	S2	-.3475	.0191
		S3	-.1851	.1815
		S1	-.5846	.9066
		S2	-.4178	1.0734
	S1	S3	-.3392	1.1520
		S4	-.2820	1.2092
		S0	-.9066	.5846
		S2	-.5788	.9124
	S2	S3	-.5002	.9910
		S4	-.4430	1.0482
		S0	-1.0734	.4178
		S1	-.9124	.5788
	S3	S3	-.6670	.8242
		S4	-.6098	.8814
		S0	-1.1520	.3392
		S1	-.9910	.5002
S4	S2	-.8242	.6670	
	S4	-.6884	.8028	
	S0	-1.2092	.2820	
	S1	-1.0482	.4430	

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	
LSD	S0	S2	-.13580	.24916	.981	
		S3	-.05720	.24916	.999	
	S1	S0	.16100	.24916	.526	
		S2	.32780	.24916	.203	
		S3	.40640	.24916	.119	
		S4	.46360	.24916	.078	
	S2	S0	-.16100	.24916	.526	
		S1	.16680	.24916	.511	
		S3	.24540	.24916	.336	
		S4	.30260	.24916	.239	
	S3	S0	-.32780	.24916	.203	
		S1	-.16680	.24916	.511	
		S2	.07860	.24916	.756	
		S4	.13580	.24916	.592	
	S4	S0	-.40640	.24916	.119	
		S1	-.24540	.24916	.336	
		S2	-.07860	.24916	.756	
		S3	.05720	.24916	.821	
	S0	S1	-.46360	.24916	.078	
		S2	-.30260	.24916	.239	
S3		-.13580	.24916	.592		
S4		-.05720	.24916	.821		
Tinggi Tanaman	Tukey HSD	S0	S1	.61660	.95404	.965
			S2	1.70940	.95404	.405
			S3	1.94960	.95404	.282
			S4	2.32700	.95404	.146
		S1	S0	-.61660	.95404	.965
			S2	1.09280	.95404	.781
			S3	1.33300	.95404	.636
			S4	1.71040	.95404	.405
		S2	S0	-1.70940	.95404	.405
			S1	-1.09280	.95404	.781
			S3	.24020	.95404	.999
			S4	.61760	.95404	.965
		S3	S0	-1.94960	.95404	.282
			S1	-1.33300	.95404	.636
			S2	-.24020	.95404	.999
			S4	.37740	.95404	.994
		S4	S0	-2.32700	.95404	.146
			S1	-1.71040	.95404	.405

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	95% Confidence Interval	
			Lower Bound	Upper Bound
LSD	S0	S2	-.8814	.6098
		S3	-.8028	.6884
	S1	S0	-.3587	.6807
		S2	-.1919	.8475
		S3	-.1133	.9261
		S4	-.0561	.9833
	S2	S0	-.6807	.3587
		S1	-.3529	.6865
		S3	-.2743	.7651
		S4	-.2171	.8223
	S3	S0	-.8475	.1919
		S1	-.6865	.3529
		S2	-.4411	.5983
		S4	-.3839	.6555
	S4	S0	-.9261	.1133
		S1	-.7651	.2743
		S2	-.5983	.4411
		S3	-.4625	.5769
	S0	S1	-.9833	.0561
		S2	-.8223	.2171
S3		-.6555	.3839	
S4		-.5769	.4625	
Tukey HSD	S0	S1	-2.2382	3.4714
		S2	-1.1454	4.5642
		S3	-.9052	4.8044
		S4	-.5278	5.1818
	S1	S0	-3.4714	2.2382
		S2	-1.7620	3.9476
		S3	-1.5218	4.1878
		S4	-1.1444	4.5652
	S2	S0	-4.5642	1.1454
		S1	-3.9476	1.7620
		S3	-2.6146	3.0950
		S4	-2.2372	3.4724
	S3	S0	-4.8044	.9052
		S1	-4.1878	1.5218
		S2	-3.0950	2.6146
		S4	-2.4774	3.2322
	S4	S0	-5.1818	.5278
		S1	-4.5652	1.1444

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.
LSD	S0	S2	-.61760	.95404	.965
		S3	-.37740	.95404	.994
	S1	S0	.61660	.95404	.525
		S2	1.70940	.95404	.088
		S3	1.94960	.95404	.054
		S4	2.32700*	.95404	.024
	S2	S0	-.61660	.95404	.525
		S1	1.09280	.95404	.266
		S3	1.33300	.95404	.178
		S4	1.71040	.95404	.088
	S3	S0	-1.70940	.95404	.088
		S1	-1.09280	.95404	.266
		S2	.24020	.95404	.804
		S4	.61760	.95404	.525
	S4	S0	-1.94960	.95404	.054
		S1	-1.33300	.95404	.178
		S2	-.24020	.95404	.804
		S3	.37740	.95404	.697
	S0	S1	-2.32700*	.95404	.024
		S2	-1.71040	.95404	.088
S3		-.61760	.95404	.525	
S4		-.37740	.95404	.697	
Panjang Akar	S0	S1	.39166	.14021	.075
		S2	.37990	.14021	.088
	S1	S0	.44200*	.14021	.036
		S2	.48740*	.14021	.018
		S3	-.39166	.14021	.075
		S4	-.01176	.14021	1.000
	S2	S0	.05034	.14021	.996
		S1	.09574	.14021	.958
		S3	-.37990	.14021	.088
		S4	.01176	.14021	1.000
	S3	S0	.06210	.14021	.991
		S1	.10750	.14021	.937
		S2	-.44200*	.14021	.036
		S4	-.05034	.14021	.996
	S4	S0	-.06210	.14021	.991
		S1	.04540	.14021	.997
		S2	-.48740*	.14021	.018
		S3	-.09574	.14021	.958

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.
LSD	S0	S2	-.61760	.95404	.965
		S3	-.37740	.95404	.994
		S1	.61660	.95404	.525
		S2	1.70940	.95404	.088
	S1	S3	1.94960	.95404	.054
		S4	2.32700*	.95404	.024
		S0	-.61660	.95404	.525
		S2	1.09280	.95404	.266
	S2	S3	1.33300	.95404	.178
		S4	1.71040	.95404	.088
		S0	-1.70940	.95404	.088
		S1	-1.09280	.95404	.266
	S3	S3	.24020	.95404	.804
		S4	.61760	.95404	.525
		S0	-1.94960	.95404	.054
		S1	-1.33300	.95404	.178
	S4	S2	-.24020	.95404	.804
		S4	.37740	.95404	.697
		S0	-2.32700*	.95404	.024
		S1	-1.71040	.95404	.088
Panjang Akar	S0	S2	-.61760	.95404	.525
		S3	-.37740	.95404	.697
		S1	.39166	.14021	.075
		S2	.37990	.14021	.088
	S1	S3	.44200*	.14021	.036
		S4	.48740*	.14021	.018
		S0	-.39166	.14021	.075
		S2	-.01176	.14021	1.000
	S2	S3	.05034	.14021	.996
		S4	.09574	.14021	.958
		S0	-.37990	.14021	.088
		S1	.01176	.14021	1.000
	S3	S3	.06210	.14021	.991
		S4	.10750	.14021	.937
		S0	-.44200*	.14021	.036
		S1	-.05034	.14021	.996
	S4	S2	-.06210	.14021	.991
		S4	.04540	.14021	.997
		S0	-.48740*	.14021	.018
		S1	-.09574	.14021	.958

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	95% Confidence Interval	
			Lower Bound	Upper Bound
LSD	S0	S2	-3.4724	2.2372
		S3	-3.2322	2.4774
		S1	-1.3735	2.6067
		S4	.3369	4.3171
	S1	S0	-2.6067	1.3735
		S2	-.2807	3.6995
		S3	-.0405	3.9397
		S4	.3369	4.3171
	S2	S0	-3.6995	.2807
		S1	-3.0829	.8973
		S3	-1.7499	2.2303
		S4	-1.3725	2.6077
	S3	S0	-3.9397	.0405
		S1	-3.3231	.6571
		S2	-2.2303	1.7499
		S4	-1.6127	2.3675
S4	S0	-4.3171	-.3369	
	S1	-3.7005	.2797	
	S2	-2.6077	1.3725	
	S3	-2.3675	1.6127	
Panjang Akar Tukey HSD	S0	S1	-.0279	.8112
		S2	-.0397	.7995
		S3	.0224	.8616
		S4	.0678	.9070
	S1	S0	-.8112	.0279
		S2	-.4313	.4078
		S3	-.3692	.4699
		S4	-.3238	.5153
	S2	S0	-.7995	.0397
		S1	-.4078	.4313
		S3	-.3575	.4817
		S4	-.3121	.5271
	S3	S0	-.8616	-.0224
		S1	-.4699	.3692
		S2	-.4817	.3575
		S4	-.3742	.4650
S4	S0	-.9070	-.0678	
	S1	-.5153	.3238	

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.
LSD		S2	-.10750	.14021	.937
		S3	-.04540	.14021	.997
	S0	S1	.39166*	.14021	.011
		S2	.37990*	.14021	.013
		S3	.44200*	.14021	.005
		S4	.48740*	.14021	.002
	S1	S0	-.39166*	.14021	.011
		S2	-.01176	.14021	.934
		S3	.05034	.14021	.723
		S4	.09574	.14021	.503
	S2	S0	-.37990*	.14021	.013
		S1	.01176	.14021	.934
		S3	.06210	.14021	.663
		S4	.10750	.14021	.452
	S3	S0	-.44200*	.14021	.005
		S1	-.05034	.14021	.723
S2		-.06210	.14021	.663	
S4		.04540	.14021	.749	
S4	S0	-.48740*	.14021	.002	
	S1	-.09574	.14021	.503	
	S2	-.10750	.14021	.452	
	S3	-.04540	.14021	.749	

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	95% Confidence Interval	
			Lower Bound	Upper Bound
LSD		S2	-.5271	.3121
		S3	-.4650	.3742
	S0	S1	.0992	.6841
		S2	.0874	.6724
		S3	.1495	.7345
		S4	.1949	.7799
	S1	S0	-.6841	-.0992
		S2	-.3042	.2807
		S3	-.2421	.3428
		S4	-.1967	.3882
	S2	S0	-.6724	-.0874
		S1	-.2807	.3042
		S3	-.2304	.3546
		S4	-.1850	.4000
	S3	S0	-.7345	-.1495
		S1	-.3428	.2421
S2		-.3546	.2304	
S4		-.2471	.3379	
S4	S0	-.7799	-.1949	
	S1	-.3882	.1967	
	S2	-.4000	.1850	
	S3	-.3379	.2471	

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

Homogeneous Subsets

Hari Muncul Akar

	Perlakuan	N	Subset for alpha = 0.05	
			1	
Tukey HSD ^a	S4	5	.3140	
	S2	5	.3998	
	S3	5	.4500	
	S1	5	.5832	
	S0	5	.7588	
	Sig.			.335
Duncan ^a	S4	5	.3140	
	S2	5	.3998	
	S3	5	.4500	
	S1	5	.5832	
	S0	5	.7588	
	Sig.			.097

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

Hari Muncul Tunas

	Perlakuan	N	Subset for alpha = 0.05	
			1	2
Tukey HSD ^a	S4	5	.0692	
	S3	5	.0710	
	S1	5	.1500	
	S2	5	.2334	
	S0	5	.3110	
	Sig.			.081
Duncan ^a	S4	5	.0692	
	S3	5	.0710	
	S1	5	.1500	.1500
	S2	5	.2334	.2334
	S0	5		.3110
	Sig.			.101

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

Jumlah Akar

		N	Subset for alpha = 0.05	
Perlakuan			1	
Tukey HSD ^a	S4	5	.3140	
	S3	5	.3712	
	S2	5	.4498	
	S1	5	.6166	
	S0	5	.7776	
	Sig.			.369
Duncan ^a	S4	5	.3140	
	S3	5	.3712	
	S2	5	.4498	
	S1	5	.6166	
	S0	5	.7776	
	Sig.			.109

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

Tinggi Tanaman

		N	Subset for alpha = 0.05	
Perlakuan			1	2
Tukey HSD ^a	S4	5	.4528	
	S3	5	.8302	
	S2	5	1.0704	
	S1	5	2.1632	
	S0	5	2.7798	
	Sig.			.146
Duncan ^a	S4	5	.4528	
	S3	5	.8302	.8302
	S2	5	1.0704	1.0704
	S1	5	2.1632	2.1632
	S0	5		2.7798
	Sig.			.115

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.