

The GLM Procedure

Tukey's Studentized Range (HSD) Test for SI

NOTE: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	18
Error Mean Square	0.760117
Critical Value of Studentized Range	5.07051
Minimum Significant Difference	2.5523

Means with the same letter are not significantly different.

Tukey Grouping	Mean	N	Treatment
A	17.5200	3	4
B	16.6467	3	8
B	15.7600	3	9
B	15.1133	3	6
B	14.1667	3	7
D	12.4267	3	2
D	11.7200	3	3
D	10.8533	3	1
D	10.1400	3	5
E	9.6200	3	0

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey

Least Squares Means for Effect Treatment
t for H0: LSMean(i)=LSMean(j) / Pr > |t|

Dependent Variable: SI

i/j	6	7	8	9	10
1	-0.73048	-7.71687	-6.38702	-9.87085	-8.62529
	0.9988	<.0001	0.0002	<.0001	<.0001
2	1.00207	-5.98432	-4.65447	-8.1383	-6.89274
	0.9883	0.0004	0.0057	<.0001	<.0001
3	3.212242	-3.77415	-2.4443	-5.92813	-4.68257
	0.1014	0.0345	0.3571	0.0004	0.0054
4	2.219537	-4.76685	-3.43701	-6.92084	-5.67527
	0.4786	0.0046	0.0666	<.0001	0.0007
5	10.36721	3.380814	4.710664	1.226833	2.472396
	<.0001	0.0740	0.0051	0.9578	0.3433
6		-6.98639	-5.65654	-9.14037	-7.89481
		<.0001	0.0007	<.0001	<.0001
7	6.986392		1.329849	-2.15398	-0.90842
	<.0001		0.9332	0.5169	0.9941
8	5.656543	-1.32985		-3.48383	-2.23827
	0.0007	0.9332		0.0608	0.4678
9	9.140374	2.153982	3.483831		1.245563
	<.0001	0.5169	0.0608		0.9539
10	7.894811	0.908418	2.238268	-1.24556	
	<.0001	0.9941	0.4678	0.9539	

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey

Treatment	SI LSMEAN	LSMEAN Number
0	9.6200000	1
1	10.8533333	2
2	12.4266667	3
3	11.7200000	4
4	17.5200000	5
5	10.1400000	6
6	15.1133333	7
7	14.1666667	8
8	16.6466667	9
9	15.7600000	10

Least Squares Means for Effect Treatment
t for H0: LSmean(i)=LSmean(j) / Pr > |t|

Dependent Variable: SI

i/j	1	2	3	4	5
1		-1.73255 0.7650	-3.94272 0.0246	-2.95002 0.1615	-11.0977 <.0001
2	1.73255 0.7650		-2.21017 0.4840	-1.21747 0.9597	-9.36514 <.0001
3	3.942723 0.0246	2.210172 0.4840		0.992705 0.9890	-7.15496 <.0001
4	2.950018 0.1615	1.217468 0.9597	-0.9927 0.9890		-8.14767 <.0001
5	11.09769 <.0001	9.365137 <.0001	7.154965 <.0001	8.147669 <.0001	
6	0.730481 0.9988	-1.00207 0.9883	-3.21224 0.1014	-2.21954 0.4786	-10.3672 <.0001
7	7.716873 <.0001	5.984323 0.0004	3.77415 0.0345	4.766855 0.0046	-3.38081 0.0740
8	6.387023 0.0002	4.654473 0.0057	2.444301 0.3571	3.437005 0.0666	-4.71066 0.0051
9	9.870854 <.0001	8.138304 <.0001	5.928132 0.0004	6.920836 <.0001	-1.22683 0.9578
10	8.625291 <.0001	6.892741 <.0001	4.682569 0.0054	5.675273 0.0007	-2.4724 0.3433