

The GLM Procedure

Class Level Information		
Class	Levels	Values
replicate	4	1 2 3 4
treatment	6	1 2 3 4 5 6
number	6	5 6 7 8 9 10

Number of Observations Read	144
Number of Observations Used	140

The GLM Procedure

Dependent Variable: assessment

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	52	81448.63538	1566.31991	1512.99	<.0001
Error	87	90.06670	1.03525		
Corrected Total	139	81538.70207			

R-Square	Coeff Var	Root MSE	assessment Mean
0.998895	3.682680	1.017472	27.62857

Source	DF	Type I SS	Mean Square	F Value	Pr > F
replicate	3	22.28572	7.42857	7.18	0.0002
number	5	3155.90305	631.18061	609.69	<.0001
treatment	5	78058.05560	15611.61112	15080.0	<.0001
treatment*number	24	57.74334	2.40597	2.32	0.0024
replicate*treatment	15	154.64767	10.30984	9.96	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
replicate	3	24.70753	8.23584	7.96	<.0001
number	5	448.92343	89.78469	86.73	<.0001
treatment	5	78058.05560	15611.61112	15080.0	<.0001
treatment*number	24	57.74334	2.40597	2.32	0.0024
replicate*treatment	15	154.64767	10.30984	9.96	<.0001

The GLM Procedure

Source	Type III Expected Mean Square
replicate	$\text{Var}(\text{Error}) + 5.8065 \text{Var}(\text{replicate}*\text{treatment}) + 34.839 \text{Var}(\text{replicate})$
number	$\text{Var}(\text{Error}) + Q(\text{number}, \text{treatment}*\text{number})$
treatment	$\text{Var}(\text{Error}) + 5.8 \text{Var}(\text{replicate}*\text{treatment}) + Q(\text{treatment}, \text{treatment}*\text{number})$
treatment*number	$\text{Var}(\text{Error}) + Q(\text{treatment}*\text{number})$
replicate*treatment	$\text{Var}(\text{Error}) + 5.8286 \text{Var}(\text{replicate}*\text{treatment})$

**The GLM Procedure
Least Squares Means**

Error: LINES display is not produced for effect treatment and dependent variable assessment because of non-estimable least-squares means.

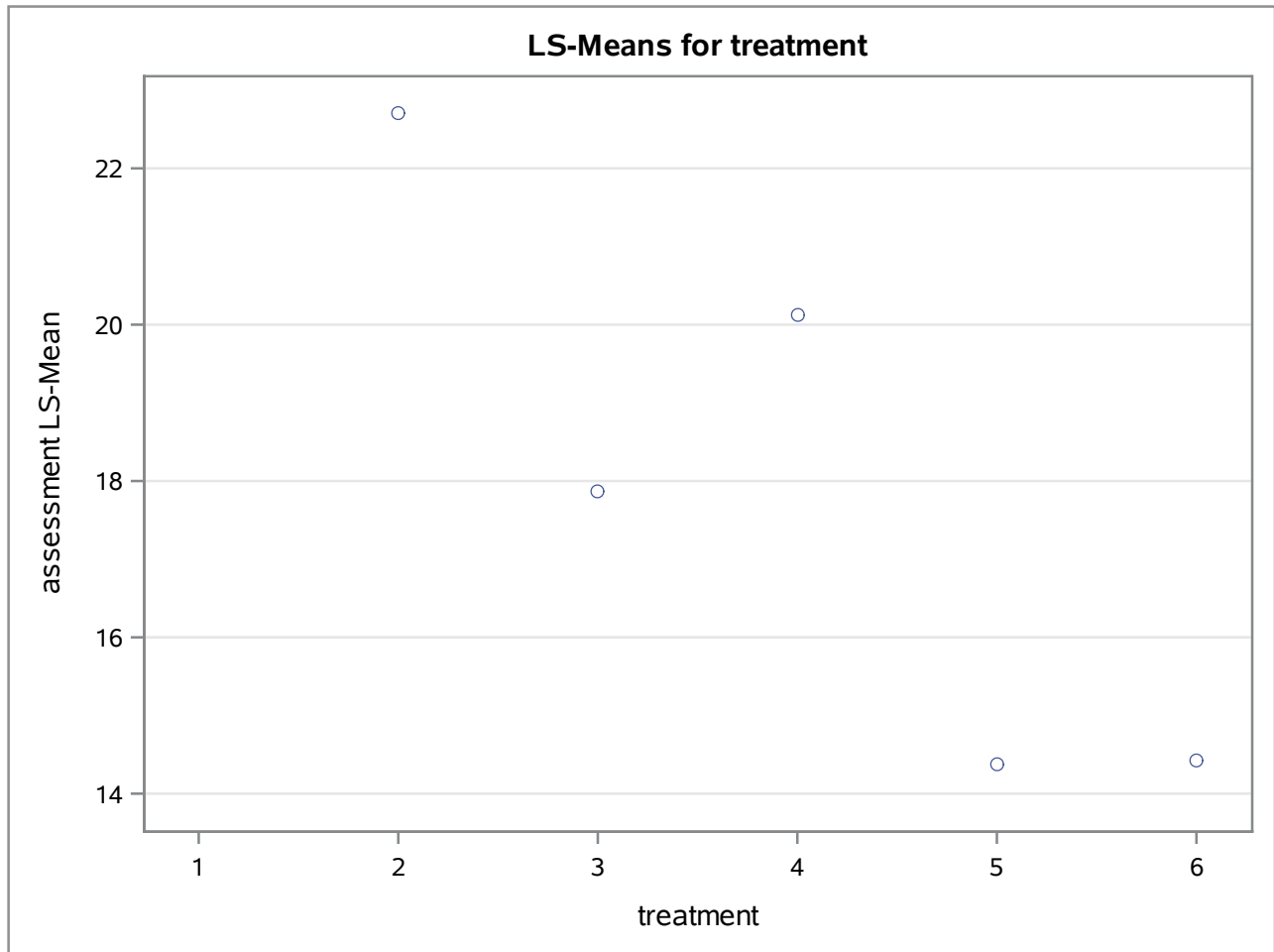
The GLM Procedure
 Least Squares Means
 Adjustment for Multiple Comparisons: Tukey-Kramer

Standard Errors and Probabilities Calculated Using the Type III MS for replicate*treatment as an Error Term

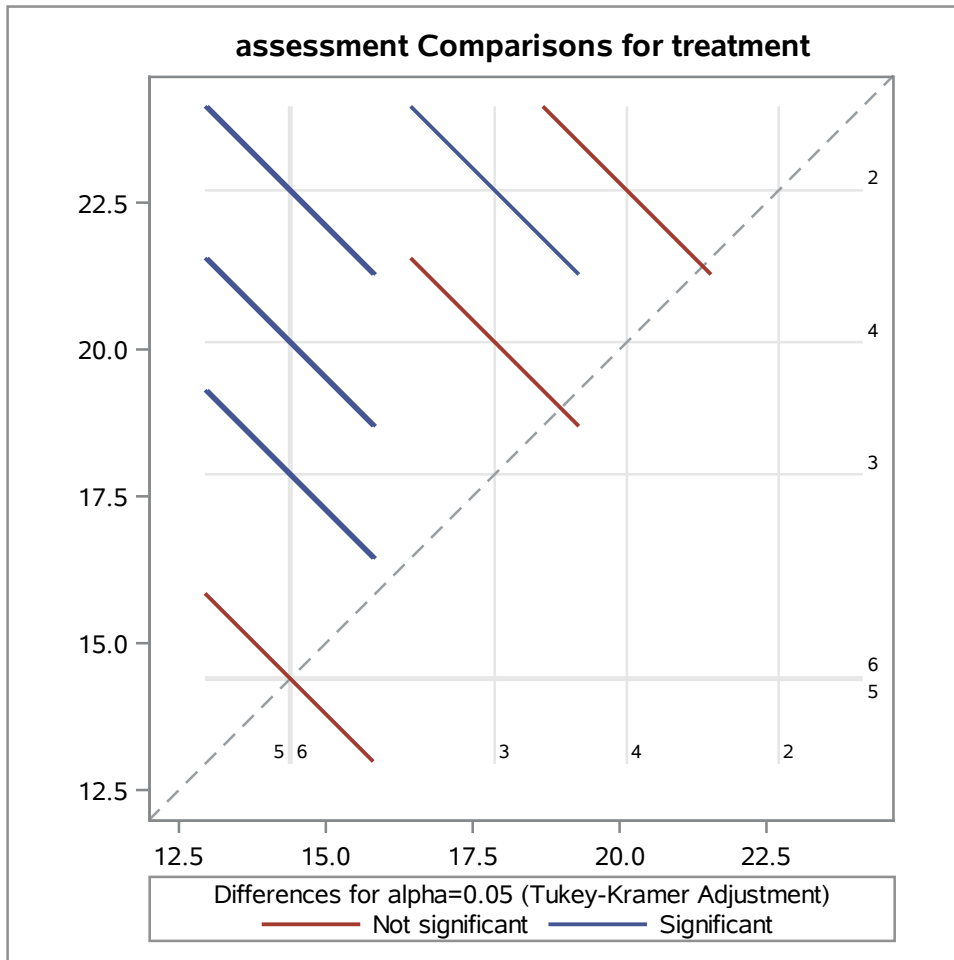
treatment	assessment LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
1	Non-est	.	.	1
2	22.7083355	0.6554211	<.0001	2
3	17.8750019	0.6554211	<.0001	3
4	20.1250020	0.6554211	<.0001	4
5	14.3750014	0.6554211	<.0001	5
6	14.4166683	0.6554211	<.0001	6

Least Squares Means for effect treatment Pr > |t| for H0: LSMean(i)=LSMean(j) Dependent Variable: assessment						
i/j	1	2	3	4	5	6
1
2	.		0.0009	0.0867	<.0001	<.0001
3	.	0.0009		0.1613	0.0134	0.0147
4	.	0.0867	0.1613		0.0001	0.0002
5	.	<.0001	0.0134	0.0001		1.0000
6	.	<.0001	0.0147	0.0002	1.0000	

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



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



Error: LINES display is not produced for effect treatment and dependent variable assessment because of non-estimable least-squares means.

**The GLM Procedure
Least Squares Means**

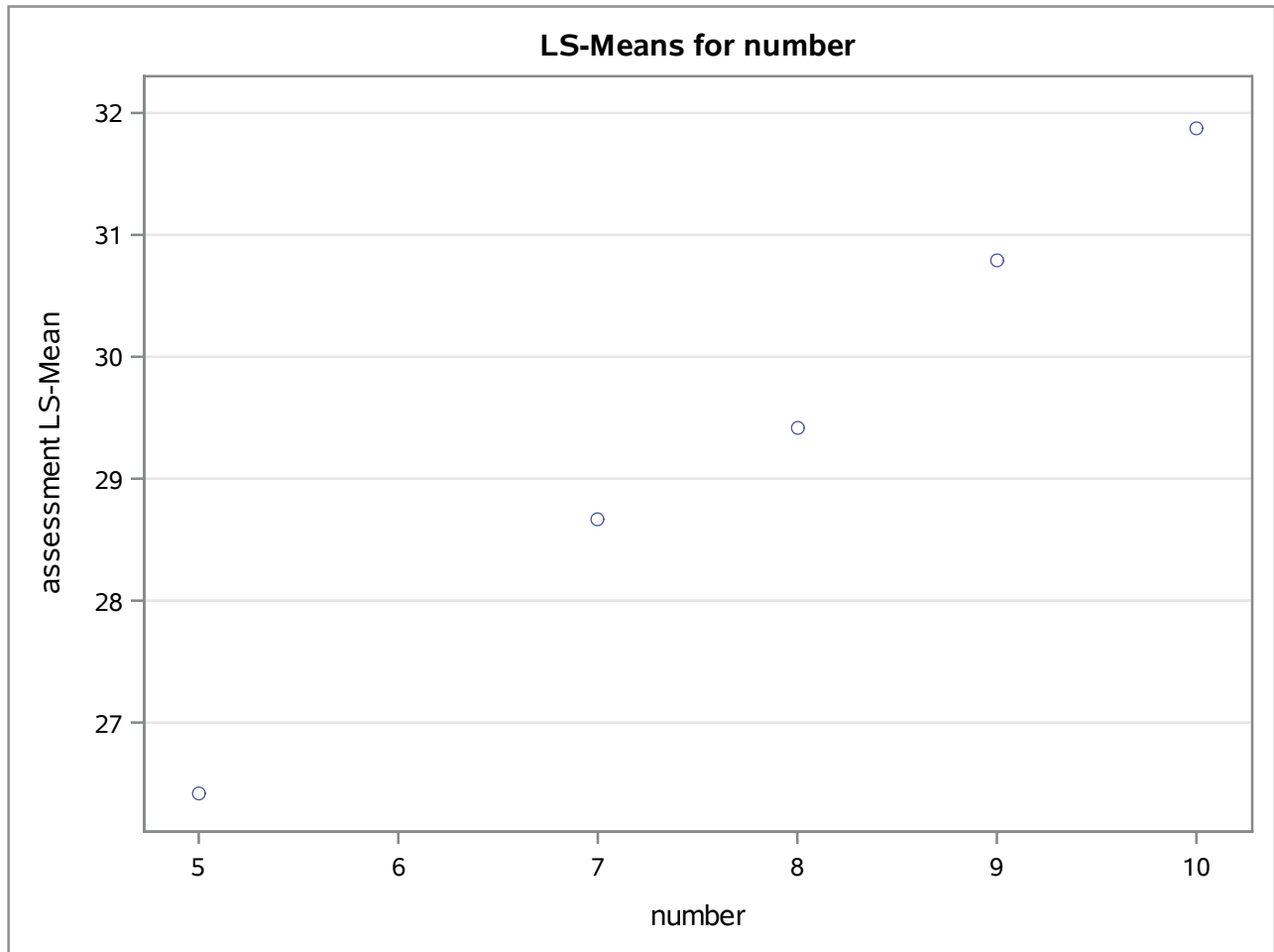
Error: LINES display is not produced for effect number and dependent variable assessment because of non-estimable least-squares means.

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

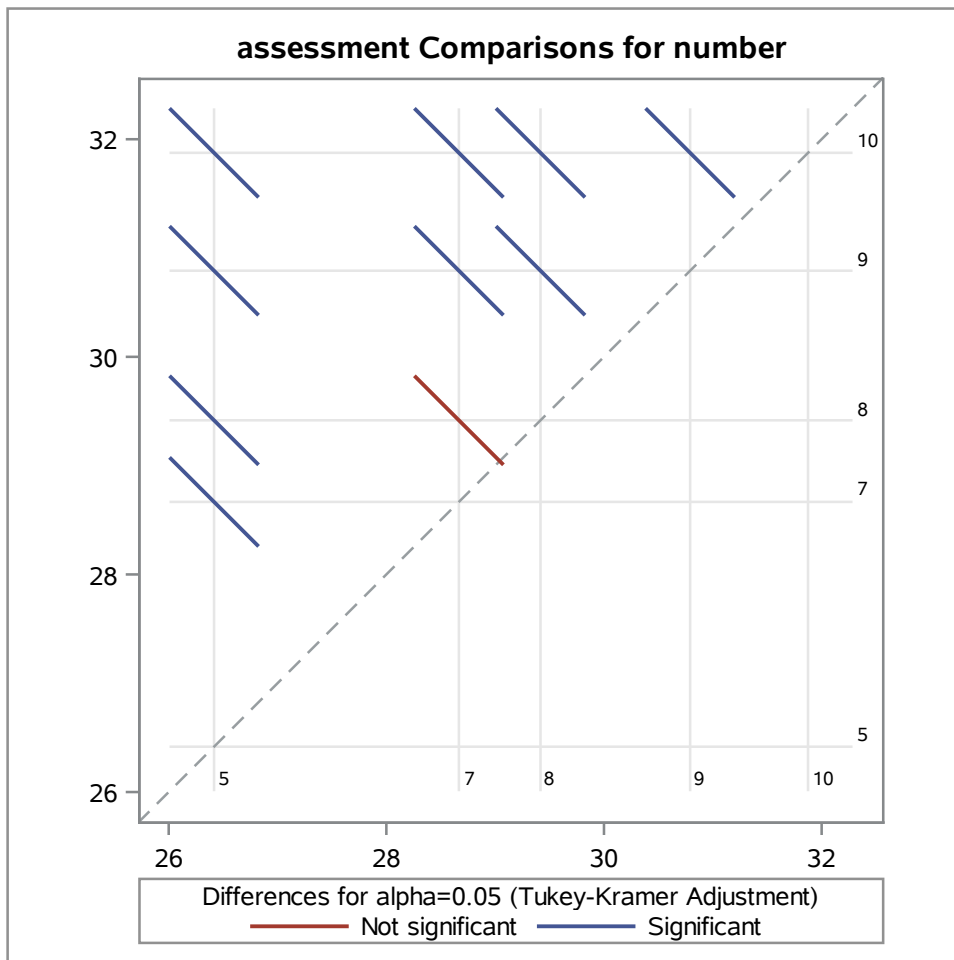
number	assessment LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
5	26.4166693	0.2076906	<.0001	1
6	Non-est	.	.	2
7	28.6666695	0.2076906	<.0001	3
8	29.4166697	0.2076906	<.0001	4
9	30.7916698	0.2076906	<.0001	5
10	31.8750032	0.2076906	<.0001	6

Least Squares Means for effect number Pr > |t| for H0: LSMean(i)=LSMean(j)						
Dependent Variable: assessment						
i/j	1	2	3	4	5	6
1		.	<.0001	<.0001	<.0001	<.0001
2	.		.	.	.	.
3	<.0001	.		0.0884	<.0001	<.0001
4	<.0001	.	0.0884		0.0001	<.0001
5	<.0001	.	<.0001	0.0001		0.0035
6	<.0001	.	<.0001	<.0001	0.0035	

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



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



Error: LINES display is not produced for effect number and dependent variable assessment because of non-estimable least-squares means.

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

treatment	number	assessment LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
1	5	81.5000080	0.5087360	<.0001	1
1	7	85.0000085	0.5087360	<.0001	2
1	8	85.7500087	0.5087360	<.0001	3
1	9	88.2500090	0.5087360	<.0001	4
1	10	89.5000090	0.5087360	<.0001	5
2	5	21.0000020	0.5087360	<.0001	6
2	6	22.0000020	0.5087360	<.0001	7
2	7	22.2500020	0.5087360	<.0001	8
2	8	22.7500022	0.5087360	<.0001	9
2	9	23.5000022	0.5087360	<.0001	10
2	10	24.7500025	0.5087360	<.0001	11
3	5	15.2500017	0.5087360	<.0001	12
3	6	16.7500017	0.5087360	<.0001	13
3	7	17.2500017	0.5087360	<.0001	14
3	8	18.0000020	0.5087360	<.0001	15
3	9	19.2500020	0.5087360	<.0001	16
3	10	20.7500020	0.5087360	<.0001	17
4	5	16.7500020	0.5087360	<.0001	18
4	6	18.2500020	0.5087360	<.0001	19
4	7	19.2500020	0.5087360	<.0001	20
4	8	21.0000020	0.5087360	<.0001	21
4	9	22.7500022	0.5087360	<.0001	22
4	10	22.7500020	0.5087360	<.0001	23
5	5	11.7500010	0.5087360	<.0001	24
5	6	13.0000010	0.5087360	<.0001	25
5	7	13.7500010	0.5087360	<.0001	26
5	8	14.0000015	0.5087360	<.0001	27
5	9	16.0000017	0.5087360	<.0001	28
5	10	17.7500020	0.5087360	<.0001	29
6	5	12.2500012	0.5087360	<.0001	30
6	6	14.0000015	0.5087360	<.0001	31
6	7	14.5000018	0.5087360	<.0001	32
6	8	15.0000017	0.5087360	<.0001	33
6	9	15.0000018	0.5087360	<.0001	34
6	10	15.7500017	0.5087360	<.0001	35

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

Least Squares Means for effect treatment*number Pr > |t| for H0: LSMean(i)=LSMean(j)													
Dependent Variable: assessment													
i/j	1	2	3	4	5	6	7	8	9	10	11	12	13
1		0.0023	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
2	0.0023		1.0000	0.0082	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
3	<.0001	1.0000		0.1832	0.0006	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
4	<.0001	0.0082	0.1832		0.9983	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
5	<.0001	<.0001	0.0006	0.9983		<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
6	<.0001	<.0001	<.0001	<.0001	<.0001		1.0000	0.9983	0.8639	0.1832	0.0006	<.0001	<.0001
7	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000		1.0000	1.0000	0.9742	0.0744	<.0001	<.0001
8	<.0001	<.0001	<.0001	<.0001	<.0001	0.9983	1.0000		1.0000	0.9983	0.1832	<.0001	<.0001
9	<.0001	<.0001	<.0001	<.0001	<.0001	0.8639	1.0000	1.0000		1.0000	0.6381	<.0001	<.0001
10	<.0001	<.0001	<.0001	<.0001	<.0001	0.1832	0.9742	0.9983	1.0000		0.9983	<.0001	<.0001
11	<.0001	<.0001	<.0001	<.0001	<.0001	0.0006	0.0744	0.1832	0.6381	0.9983		<.0001	<.0001
12	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001		0.9742
13	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.9742	
14	<.0001	<.0001	<.0001	<.0001	<.0001	0.0006	<.0001	<.0001	<.0001	<.0001	<.0001	0.6381	1.0000
15	<.0001	<.0001	<.0001	<.0001	<.0001	0.0262	0.0002	<.0001	<.0001	<.0001	<.0001	0.0744	0.9983
16	<.0001	<.0001	<.0001	<.0001	<.0001	0.8639	0.0744	0.0262	0.0023	<.0001	<.0001	0.0002	0.1832
17	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	0.9983	0.9742	0.6381	0.0744	0.0002	<.0001	0.0002
18	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.9742	1.0000
19	<.0001	<.0001	<.0001	<.0001	<.0001	0.0744	0.0006	0.0002	<.0001	<.0001	<.0001	0.0262	0.9742
20	<.0001	<.0001	<.0001	<.0001	<.0001	0.8639	0.0744	0.0262	0.0023	<.0001	<.0001	0.0002	0.1832
21	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	1.0000	0.9983	0.8639	0.1832	0.0006	<.0001	<.0001
22	<.0001	<.0001	<.0001	<.0001	<.0001	0.8639	1.0000	1.0000	1.0000	1.0000	0.6381	<.0001	<.0001
23	<.0001	<.0001	<.0001	<.0001	<.0001	0.8639	1.0000	1.0000	1.0000	1.0000	0.6381	<.0001	<.0001
24	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.0023	<.0001
25	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.3789	0.0006
26	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.9742	0.0262
27	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.9983	0.0744
28	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	1.0000
29	<.0001	<.0001	<.0001	<.0001	<.0001	0.0082	<.0001	<.0001	<.0001	<.0001	<.0001	0.1832	1.0000
30	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.0262	<.0001
31	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.9983	0.0744
32	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	0.3789
33	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	0.8639

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

Least Squares Means for effect treatment*number Pr > |t| for H0: LSMean(i)=LSMean(j)													
Dependent Variable: assessment													
i/j	14	15	16	17	18	19	20	21	22	23	24	25	26
1	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
2	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
3	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
4	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
5	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
6	0.0006	0.0262	0.8639	1.0000	<.0001	0.0744	0.8639	1.0000	0.8639	0.8639	<.0001	<.0001	<.0001
7	<.0001	0.0002	0.0744	0.9983	<.0001	0.0006	0.0744	1.0000	1.0000	1.0000	<.0001	<.0001	<.0001
8	<.0001	<.0001	0.0262	0.9742	<.0001	0.0002	0.0262	0.9983	1.0000	1.0000	<.0001	<.0001	<.0001
9	<.0001	<.0001	0.0023	0.6381	<.0001	<.0001	0.0023	0.8639	1.0000	1.0000	<.0001	<.0001	<.0001
10	<.0001	<.0001	<.0001	0.0744	<.0001	<.0001	<.0001	0.1832	1.0000	1.0000	<.0001	<.0001	<.0001
11	<.0001	<.0001	<.0001	0.0002	<.0001	<.0001	<.0001	0.0006	0.6381	0.6381	<.0001	<.0001	<.0001
12	0.6381	0.0744	0.0002	<.0001	0.9742	0.0262	0.0002	<.0001	<.0001	<.0001	0.0023	0.3789	0.9742
13	1.0000	0.9983	0.1832	0.0002	1.0000	0.9742	0.1832	<.0001	<.0001	<.0001	<.0001	0.0006	0.0262
14		1.0000	0.6381	0.0023	1.0000	1.0000	0.6381	0.0006	<.0001	<.0001	<.0001	<.0001	0.0023
15	1.0000		0.9983	0.0744	0.9983	1.0000	0.9983	0.0262	<.0001	<.0001	<.0001	<.0001	<.0001
16	0.6381	0.9983		0.9742	0.1832	1.0000	1.0000	0.8639	0.0023	0.0023	<.0001	<.0001	<.0001
17	0.0023	0.0744	0.9742		0.0002	0.1832	0.9742	1.0000	0.6381	0.6381	<.0001	<.0001	<.0001
18	1.0000	0.9983	0.1832	0.0002		0.9742	0.1832	<.0001	<.0001	<.0001	<.0001	0.0006	0.0262
19	1.0000	1.0000	1.0000	0.1832	0.9742		1.0000	0.0744	<.0001	<.0001	<.0001	<.0001	<.0001
20	0.6381	0.9983	1.0000	0.9742	0.1832	1.0000		0.8639	0.0023	0.0023	<.0001	<.0001	<.0001
21	0.0006	0.0262	0.8639	1.0000	<.0001	0.0744	0.8639		0.8639	0.8639	<.0001	<.0001	<.0001
22	<.0001	<.0001	0.0023	0.6381	<.0001	<.0001	0.0023	0.8639		1.0000	<.0001	<.0001	<.0001
23	<.0001	<.0001	0.0023	0.6381	<.0001	<.0001	0.0023	0.8639	1.0000		<.0001	<.0001	<.0001
24	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001		0.9983	0.6381
25	<.0001	<.0001	<.0001	<.0001	0.0006	<.0001	<.0001	<.0001	<.0001	<.0001	0.9983		1.0000
26	0.0023	<.0001	<.0001	<.0001	0.0262	<.0001	<.0001	<.0001	<.0001	<.0001	0.6381	1.0000	
27	0.0082	0.0002	<.0001	<.0001	0.0744	<.0001	<.0001	<.0001	<.0001	<.0001	0.3789	1.0000	1.0000
28	0.9983	0.6381	0.0082	<.0001	1.0000	0.3789	0.0082	<.0001	<.0001	<.0001	<.0001	0.0262	0.3789
29	1.0000	1.0000	0.9742	0.0262	1.0000	1.0000	0.9742	0.0082	<.0001	<.0001	<.0001	<.0001	0.0002
30	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	1.0000	0.9742
31	0.0082	0.0002	<.0001	<.0001	0.0744	<.0001	<.0001	<.0001	<.0001	<.0001	0.3789	1.0000	1.0000
32	0.0744	0.0023	<.0001	<.0001	0.3789	0.0006	<.0001	<.0001	<.0001	<.0001	0.0744	0.9742	1.0000
33	0.3789	0.0262	<.0001	<.0001	0.8639	0.0082	<.0001	<.0001	<.0001	<.0001	0.0082	0.6381	0.9983

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

Least Squares Means for effect treatment*number Pr > |t| for H0: LSMean(i)=LSMean(j)									
Dependent Variable: assessment									
ij	27	28	29	30	31	32	33	34	35
1	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
2	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
3	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
4	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
5	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
6	<.0001	<.0001	0.0082	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
7	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
8	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
9	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
10	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
11	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
12	0.9983	1.0000	0.1832	0.0262	0.9983	1.0000	1.0000	1.0000	1.0000
13	0.0744	1.0000	1.0000	<.0001	0.0744	0.3789	0.8639	0.8639	1.0000
14	0.0082	0.9983	1.0000	<.0001	0.0082	0.0744	0.3789	0.3789	0.9742
15	0.0002	0.6381	1.0000	<.0001	0.0002	0.0023	0.0262	0.0262	0.3789
16	<.0001	0.0082	0.9742	<.0001	<.0001	<.0001	<.0001	<.0001	0.0023
17	<.0001	<.0001	0.0262	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
18	0.0744	1.0000	1.0000	<.0001	0.0744	0.3789	0.8639	0.8639	1.0000
19	<.0001	0.3789	1.0000	<.0001	<.0001	0.0006	0.0082	0.0082	0.1832
20	<.0001	0.0082	0.9742	<.0001	<.0001	<.0001	<.0001	<.0001	0.0023
21	<.0001	<.0001	0.0082	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
22	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
23	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
24	0.3789	<.0001	<.0001	1.0000	0.3789	0.0744	0.0082	0.0082	0.0002
25	1.0000	0.0262	<.0001	1.0000	1.0000	0.9742	0.6381	0.6381	0.0744
26	1.0000	0.3789	0.0002	0.9742	1.0000	1.0000	0.9983	0.9983	0.6381
27		0.6381	0.0006	0.8639	1.0000	1.0000	1.0000	1.0000	0.8639
28	0.6381		0.8639	0.0006	0.6381	0.9742	1.0000	1.0000	1.0000
29	0.0006	0.8639		<.0001	0.0006	0.0082	0.0744	0.0744	0.6381
30	0.8639	0.0006	<.0001		0.8639	0.3789	0.0744	0.0744	0.0023
31	1.0000	0.6381	0.0006	0.8639		1.0000	1.0000	1.0000	0.8639
32	1.0000	0.9742	0.0082	0.3789	1.0000		1.0000	1.0000	0.9983
33	1.0000	1.0000	0.0744	0.0744	1.0000	1.0000		1.0000	1.0000

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

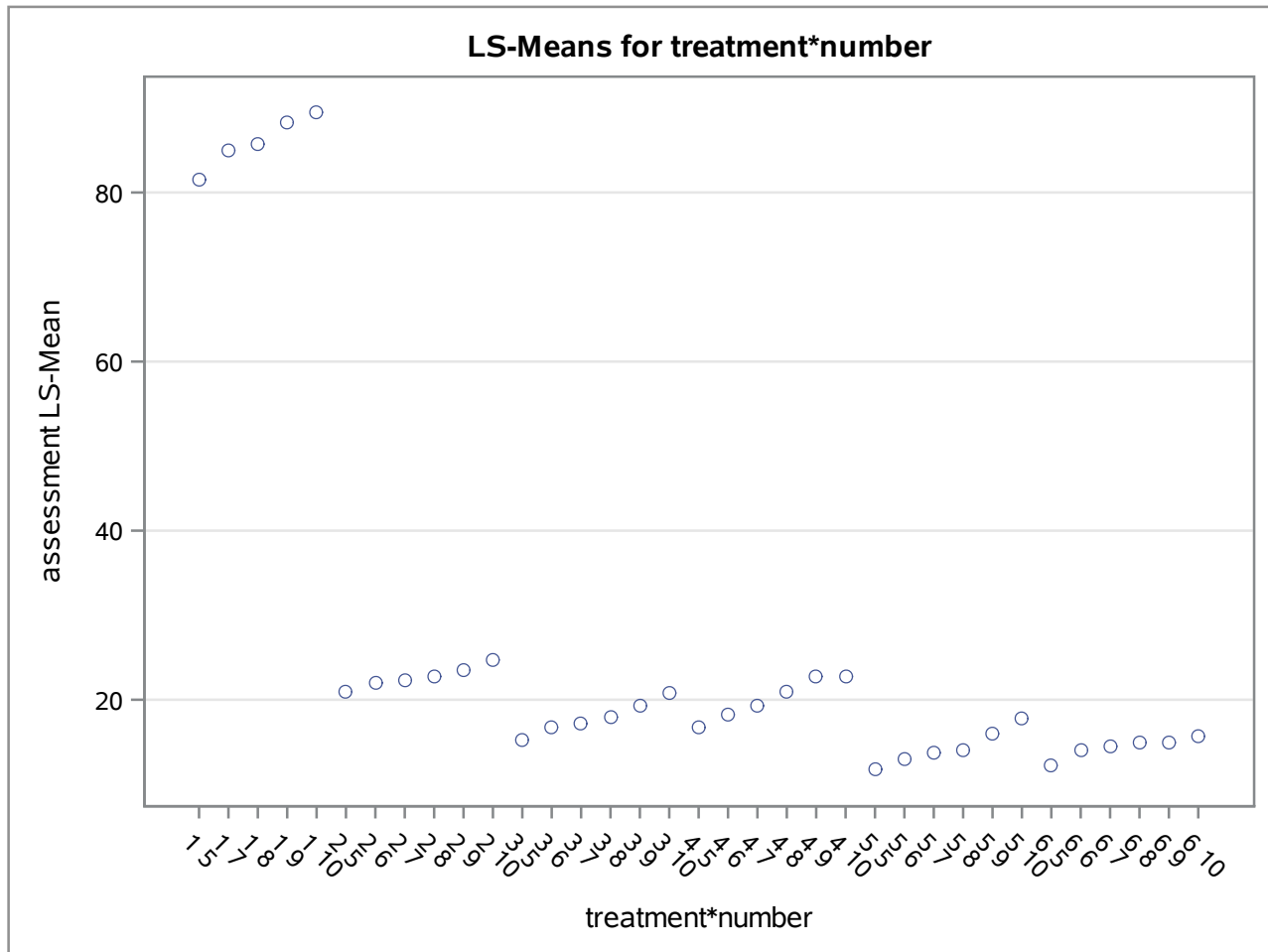
Least Squares Means for effect treatment*number Pr > |t| for H0: LSMean(i)=LSMean(j) Dependent Variable: assessment													
<i>ij</i>	1	2	3	4	5	6	7	8	9	10	11	12	13
34	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	0.8639
35	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	1.0000

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

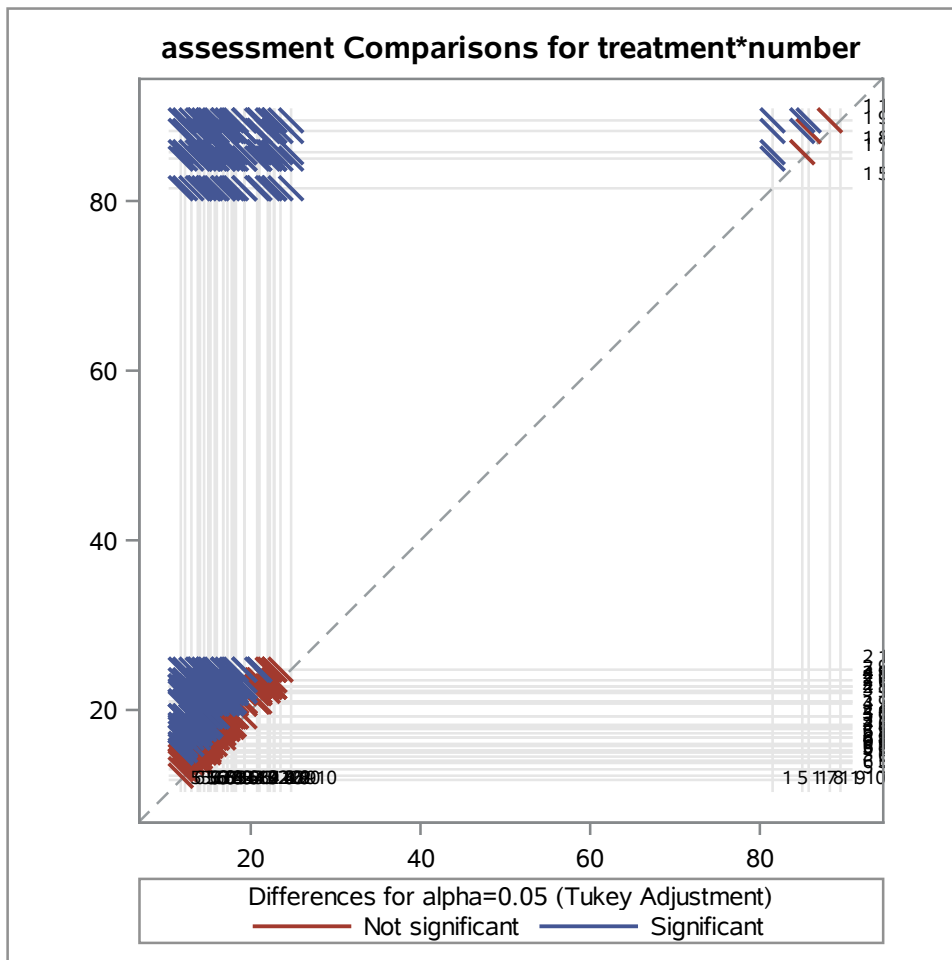
Least Squares Means for effect treatment*number Pr > |t| for H0: LSMean(i)=LSMean(j)													
Dependent Variable: assessment													
ij	14	15	16	17	18	19	20	21	22	23	24	25	26
34	0.3789	0.0262	<.0001	<.0001	0.8639	0.0082	<.0001	<.0001	<.0001	<.0001	0.0082	0.6381	0.9983
35	0.9742	0.3789	0.0023	<.0001	1.0000	0.1832	0.0023	<.0001	<.0001	<.0001	0.0002	0.0744	0.6381

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

Least Squares Means for effect treatment*number Pr > |t| for H0: LSMean(i)=LSMean(j) Dependent Variable: assessment									
ij	27	28	29	30	31	32	33	34	35
34	1.0000	1.0000	0.0744	0.0744	1.0000	1.0000	1.0000		1.0000
35	0.8639	1.0000	0.6381	0.0023	0.8639	0.9983	1.0000	1.0000	



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



Tukey Comparison Lines for Least Squares Means of treatment*number									
LS-means with the same letter are not significantly different.									
						assessment LSMEAN	treatment	number	LSMEAN Number
			A			89.50001	1	10	5
			A						
	B		A			88.25001	1	9	4
	B								
	B		C			85.75001	1	8	3
			C						
			C			85.00001	1	7	2
			D			81.50001	1	5	1
			E			24.75000	2	10	11
			E						

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

Tukey Comparison Lines for Least Squares Means of treatment*number									
LS-means with the same letter are not significantly different.									
						assessment LSMEAN	treatment	number	LSMEAN Number
	F		E			23.50000	2	9	10
	F		E						
	F		E			22.75000	4	9	22
	F		E						
	F		E			22.75000	2	8	9
	F		E						
	F		E			22.75000	4	10	23
	F		E						
	F		E			22.25000	2	7	8
	F		E						
	F		E		G	22.00000	2	6	7
	F				G				
	F		H		G	21.00000	4	8	21
	F		H		G				
	F		H		G	21.00000	2	5	6
	F		H		G				
	F	I	H		G	20.75000	3	10	17
		I	H		G				
	J	I	H		G	19.25000	4	7	20
	J	I	H		G				
	J	I	H		G	19.25000	3	9	16
	J	I	H						
	J	I	H		K	18.25000	4	6	19
	J	I			K				
	J	I	L		K	18.00000	3	8	15
	J		L		K				
	J	M	L		K	17.75000	5	10	29
	J	M	L		K				
N	J	M	L		K	17.25000	3	7	14
N	J	M	L		K				
N	J	M	L		K	16.75000	4	5	18
N	J	M	L		K				
N	J	M	L		K	16.75000	3	6	13

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

Tukey Comparison Lines for Least Squares Means of treatment*number										
LS-means with the same letter are not significantly different.										
							assessment LSMEAN	treatment	number	LSMEAN Number
N		M	L		K	O				
N	P	M	L		K	O	16.00000	5	9	28
N	P	M	L		K	O				
N	P	M	L	Q	K	O	15.75000	6	10	35
N	P	M	L	Q		O				
N	P	M	L	Q		O	15.25000	3	5	12
N	P	M		Q		O				
N	P	M	R	Q		O	15.00000	6	9	34
N	P	M	R	Q		O				
N	P	M	R	Q		O	15.00000	6	8	33
N	P		R	Q		O				
N	P		R	Q	S	O	14.50000	6	7	32
	P		R	Q	S	O				
	P		R	Q	S	O	14.00000	5	8	27
	P		R	Q	S	O				
	P		R	Q	S	O	14.00000	6	6	31
	P		R	Q	S					
	P		R	Q	S		13.75000	5	7	26
			R	Q	S					
			R	Q	S		13.00000	5	6	25
			R		S					
			R		S		12.25000	6	5	30
					S					
					S		11.75000	5	5	24

The GLM Procedure

Dependent Variable: assessment

Tests of Hypotheses Using the Type III MS for replicate*treatment as an Error Term					
Source	DF	Type III SS	Mean Square	F Value	Pr > F
treatment	5	78058.05560	15611.61112	1514.24	<.0001
replicate	3	24.70753	8.23584	0.80	0.5136

Obs	_NAME_	treatment	LSMEAN	STDERR	NUMBER	COV1	COV2	COV3	COV4	COV5	COV6
1	assessment	1	.	.	1	.	.	.	.	.	.
2	assessment	2	22.7083	0.65542	2	.	0.42958	0.00000	0.00000	0.00000	0.00000
3	assessment	3	17.8750	0.65542	3	.	0.00000	0.42958	0.00000	0.00000	0.00000
4	assessment	4	20.1250	0.65542	4	.	0.00000	0.00000	0.42958	0.00000	0.00000
5	assessment	5	14.3750	0.65542	5	.	0.00000	0.00000	0.00000	0.42958	0.00000
6	assessment	6	14.4167	0.65542	6	.	0.00000	0.00000	0.00000	0.00000	0.42958

Split Plot - Linear Model

Obs	_NAME_	number	LSMEAN	STDERR	NUMBER2	COV1	COV2	COV3	COV4	COV5	COV6
1	assessment	5	26.4167	0.20769	1	0.043135	.	0.000000	0.000000	0.000000	0.000000
2	assessment	6	.	.	2	.	.	.	.	.	.
3	assessment	7	28.6667	0.20769	3	0.000000	.	0.043135	0.000000	0.000000	0.000000
4	assessment	8	29.4167	0.20769	4	0.000000	.	0.000000	0.043135	0.000000	0.000000
5	assessment	9	30.7917	0.20769	5	0.000000	.	0.000000	0.000000	0.043135	0.000000
6	assessment	10	31.8750	0.20769	6	0.000000	.	0.000000	0.000000	0.000000	0.043135

Split Plot - Linear Model

Obs	_NAME_	treatment	number	LSMEAN	STDERR	NUMBER2	COV1	COV2	COV3	COV4	COV5	COV6	COV7
23	assessment	4	10	22.7500	0.50874	23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
24	assessment	5	5	11.7500	0.50874	24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
25	assessment	5	6	13.0000	0.50874	25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
26	assessment	5	7	13.7500	0.50874	26	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
27	assessment	5	8	14.0000	0.50874	27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
28	assessment	5	9	16.0000	0.50874	28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
29	assessment	5	10	17.7500	0.50874	29	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
30	assessment	6	5	12.2500	0.50874	30	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
31	assessment	6	6	14.0000	0.50874	31	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
32	assessment	6	7	14.5000	0.50874	32	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
33	assessment	6	8	15.0000	0.50874	33	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Obs	COV8	COV9	COV10	COV11	COV12	COV13	COV14	COV15	COV16	COV17	COV18	COV19	COV20	COV21
23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
26	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
29	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
30	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
31	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
32	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
33	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Obs	COV22	COV23	COV24	COV25	COV26	COV27	COV28	COV29	COV30	COV31	COV32	COV33	COV34	COV35
23	0.00000	0.25881	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
24	0.00000	0.00000	0.25881	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
25	0.00000	0.00000	0.00000	0.25881	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
26	0.00000	0.00000	0.00000	0.00000	0.25881	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
27	0.00000	0.00000	0.00000	0.00000	0.00000	0.25881	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.25881	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
29	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.25881	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
30	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.25881	0.00000	0.00000	0.00000	0.00000	0.00000
31	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.25881	0.00000	0.00000	0.00000	0.00000
32	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.25881	0.00000	0.00000	0.00000
33	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.25881	0.00000	0.00000

The Mixed Procedure

Model Information	
Data Set	WORK.STACKED
Dependent Variable	assessment
Covariance Structure	Variance Components
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Class Level Information		
Class	Levels	Values
replicate	4	1 2 3 4
treatment	6	1 2 3 4 5 6
number	6	5 6 7 8 9 10

Dimensions	
Covariance Parameters	3
Columns in X	48
Columns in Z	28
Subjects	1
Max Obs per Subject	140

Number of Observations	
Number of Observations Read	144
Number of Observations Used	140
Number of Observations Not Used	4

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	444.49269962	
1	2	390.85776706	0.00000000

Convergence criteria met.

The Mixed Procedure

Covariance Parameter Estimates	
Cov Parm	Estimate
replicate	0
replicate*treatment	1.5273
Residual	1.0356

Fit Statistics	
-2 Res Log Likelihood	390.9
AIC (Smaller is Better)	394.9
AICC (Smaller is Better)	395.0
BIC (Smaller is Better)	393.6

Solution for Random Effects							
Effect	replicate	treatment	Estimate	Std Err Pred	DF	t Value	Pr > |t|
replicate	1		0	.	.	.	.
replicate	2		0	.	.	.	.
replicate	3		0	.	.	.	.
replicate	4		0	.	.	.	.
replicate*treatment	1	1	-0.8806	0.7201	87	-1.22	0.2247
replicate*treatment	1	2	1.0108	0.7058	87	1.43	0.1557
replicate*treatment	1	3	1.4600	0.7058	87	2.07	0.0415
replicate*treatment	1	4	-0.7113	0.7058	87	-1.01	0.3163
replicate*treatment	1	5	0.1123	0.7058	87	0.16	0.8739
replicate*treatment	1	6	-2.1713	0.7058	87	-3.08	0.0028
replicate*treatment	2	1	0.5283	0.7201	87	0.73	0.4651
replicate*treatment	2	2	0.4118	0.7058	87	0.58	0.5611
replicate*treatment	2	3	0.7113	0.7058	87	1.01	0.3163
replicate*treatment	2	4	0.03744	0.7058	87	0.05	0.9578
replicate*treatment	2	5	0.4118	0.7058	87	0.58	0.5611
replicate*treatment	2	6	0.5241	0.7058	87	0.74	0.4597
replicate*treatment	3	1	1.7612	0.7201	87	2.45	0.0165
replicate*treatment	3	2	-0.9359	0.7058	87	-1.33	0.1883
replicate*treatment	3	3	-0.3369	0.7058	87	-0.48	0.6343
replicate*treatment	3	4	0.1872	0.7058	87	0.27	0.7915
replicate*treatment	3	5	0.7113	0.7058	87	1.01	0.3163
replicate*treatment	3	6	0.2246	0.7058	87	0.32	0.7511

The Mixed Procedure

Solution for Random Effects							
Effect	replicate	treatment	Estimate	Std Err Pred	DF	t Value	Pr > |t|
replicate*treatment	4	1	-1.4089	0.7201	87	-1.96	0.0536
replicate*treatment	4	2	-0.4867	0.7058	87	-0.69	0.4923
replicate*treatment	4	3	-1.8344	0.7058	87	-2.60	0.0110
replicate*treatment	4	4	0.4867	0.7058	87	0.69	0.4923
replicate*treatment	4	5	-1.2354	0.7058	87	-1.75	0.0836
replicate*treatment	4	6	1.4226	0.7058	87	2.02	0.0469

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
number	5	87	86.70	<.0001
treatment	5	15	1795.89	<.0001
treatment*number	24	87	2.32	0.0024

The PLM Procedure

Store Information	
Item Store	WORK.SPLITMIXED
Data Set Created From	WORK.STACKED
Created By	PROC MIXED
Date Created	12NOV18:16:48:34
Response Variable	assessment
Distribution	Normal
Class Variables	replicate treatment number
Model Effects	Intercept number treatment treatment*number

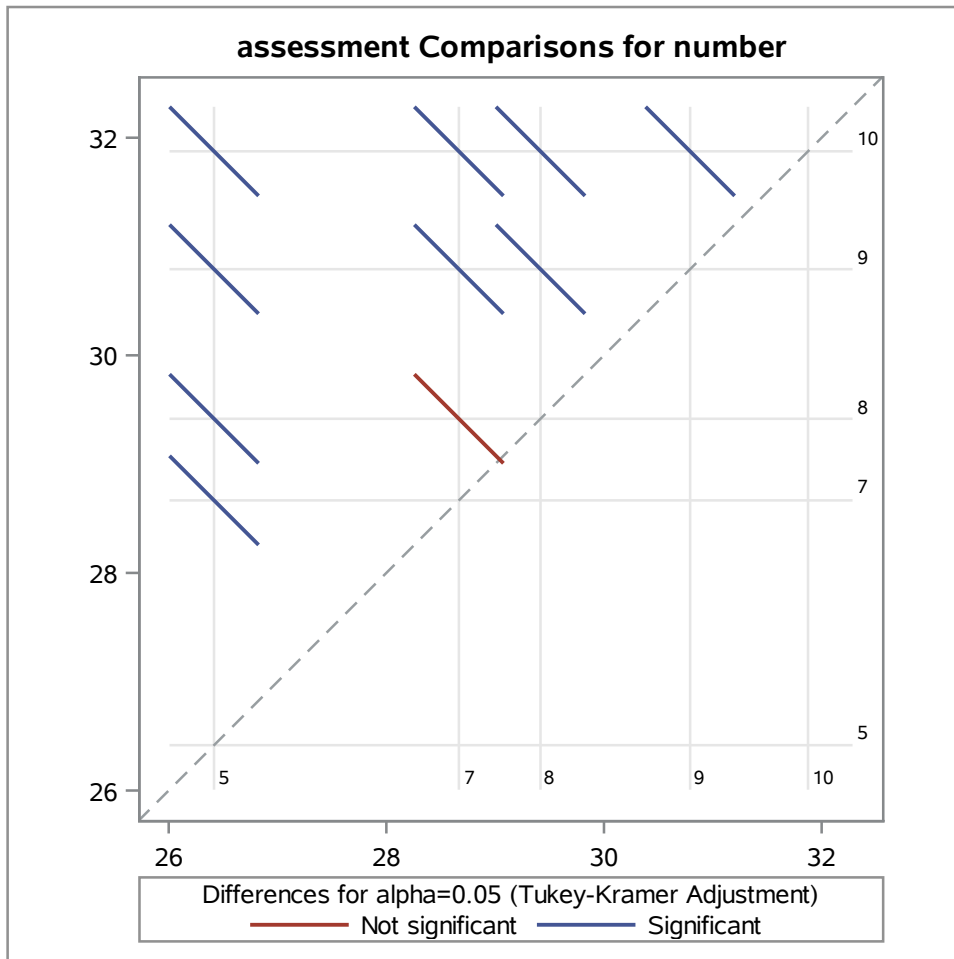
Class Level Information		
Class	Levels	Values
replicate	4	1 2 3 4
treatment	6	1 2 3 4 5 6
number	6	5 6 7 8 9 10

number Least Squares Means														
number	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Cov1	Cov2	Cov3	Cov4	Cov5	Cov6
5	26.4167	0.3268	87	80.84	<.0001	0.05	25.7672	27.0662	0.1068	.	0.06364	0.06364	0.06364	0.06364
6	Non-est	.	.	.	.	.	.	.	.	.	.	.	.	.
7	28.6667	0.3268	87	87.72	<.0001	0.05	28.0172	29.3162	0.06364	.	0.1068	0.06364	0.06364	0.06364
8	29.4167	0.3268	87	90.02	<.0001	0.05	28.7672	30.0662	0.06364	.	0.06364	0.1068	0.06364	0.06364
9	30.7917	0.3268	87	94.23	<.0001	0.05	30.1422	31.4412	0.06364	.	0.06364	0.06364	0.1068	0.06364
10	31.8750	0.3268	87	97.54	<.0001	0.05	31.2255	32.5245	0.06364	.	0.06364	0.06364	0.06364	0.1068

number Least Squares Means						
number	Corr1	Corr2	Corr3	Corr4	Corr5	Corr6
5	1.0000	.	0.5959	0.5959	0.5959	0.5959
6	.	.	.	.	.	.
7	0.5959	.	1.0000	0.5959	0.5959	0.5959
8	0.5959	.	0.5959	1.0000	0.5959	0.5959
9	0.5959	.	0.5959	0.5959	1.0000	0.5959
10	0.5959	.	0.5959	0.5959	0.5959	1.0000

The PLM Procedure

Differences of number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
number	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper	Adj Lower	Adj Upper
5	6	Non-est	.	.	.	.	.	.	.	.	.	.
5	7	-2.2500	0.2938	87	-7.66	<.0001	<.0001	0.05	-2.8339	-1.6661	-3.0684	-1.4316
5	8	-3.0000	0.2938	87	-10.21	<.0001	<.0001	0.05	-3.5839	-2.4161	-3.8184	-2.1816
5	9	-4.3750	0.2938	87	-14.89	<.0001	<.0001	0.05	-4.9589	-3.7911	-5.1934	-3.5566
5	10	-5.4583	0.2938	87	-18.58	<.0001	<.0001	0.05	-6.0422	-4.8744	-6.2767	-4.6399
6	7	Non-est	.	.	.	.	.	.	.	.	.	.
6	8	Non-est	.	.	.	.	.	.	.	.	.	.
6	9	Non-est	.	.	.	.	.	.	.	.	.	.
6	10	Non-est	.	.	.	.	.	.	.	.	.	.
7	8	-0.7500	0.2938	87	-2.55	0.0124	0.0885	0.05	-1.3339	-0.1661	-1.5684	0.06840
7	9	-2.1250	0.2938	87	-7.23	<.0001	<.0001	0.05	-2.7089	-1.5411	-2.9434	-1.3066
7	10	-3.2083	0.2938	87	-10.92	<.0001	<.0001	0.05	-3.7922	-2.6244	-4.0267	-2.3899
8	9	-1.3750	0.2938	87	-4.68	<.0001	0.0001	0.05	-1.9589	-0.7911	-2.1934	-0.5566
8	10	-2.4583	0.2938	87	-8.37	<.0001	<.0001	0.05	-3.0422	-1.8744	-3.2767	-1.6399
9	10	-1.0833	0.2938	87	-3.69	0.0004	0.0035	0.05	-1.6672	-0.4994	-1.9017	-0.2649



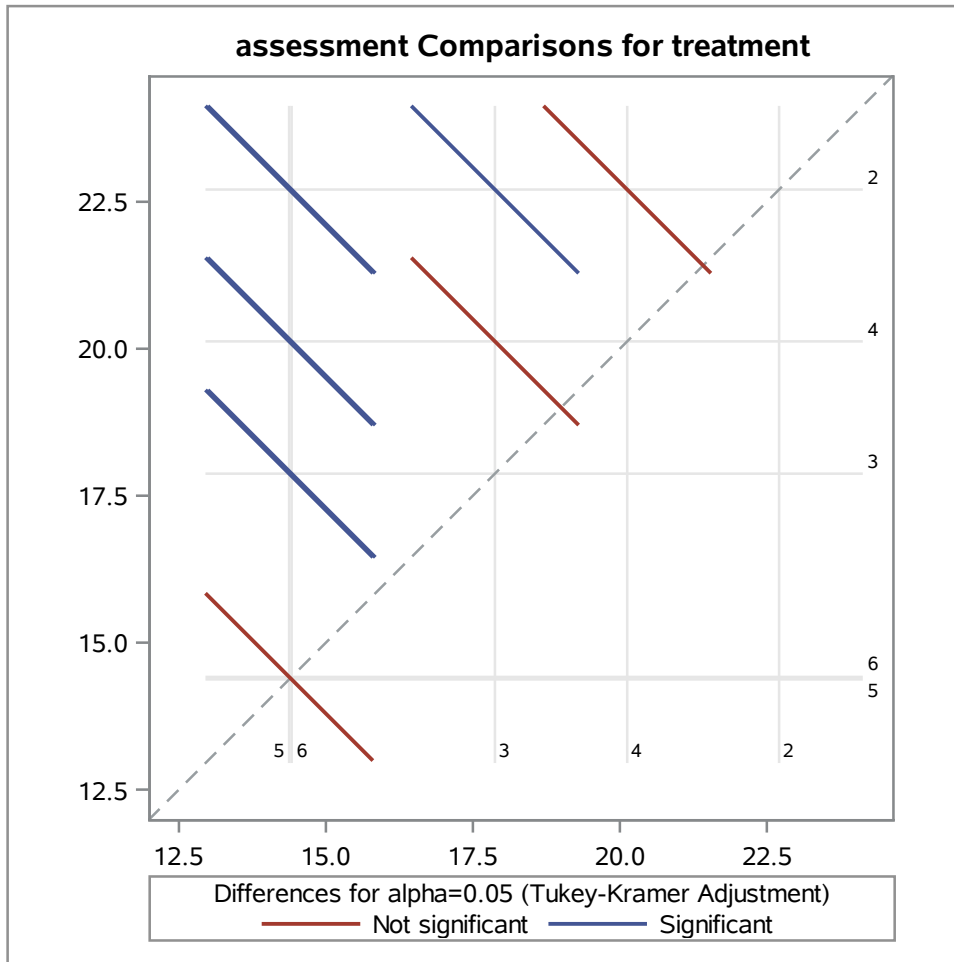
The PLM Procedure

treatment Least Squares Means															
treatment	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Cov1	Cov2	Cov3	Cov4	Cov5	Cov6	Corr1
1	Non-est	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2	22.7083	0.6519	15	34.83	<.0001	0.05	21.3189	24.0978	.	0.4250	.	.	.	.	.
3	17.8750	0.6519	15	27.42	<.0001	0.05	16.4855	19.2645	.	.	0.4250	.	.	.	.
4	20.1250	0.6519	15	30.87	<.0001	0.05	18.7355	21.5145	.	.	.	0.4250	.	.	.
5	14.3750	0.6519	15	22.05	<.0001	0.05	12.9855	15.7645	.	.	.	.	0.4250	.	.
6	14.4167	0.6519	15	22.12	<.0001	0.05	13.0272	15.8061	.	.	.	.	.	0.4250	.

treatment Least Squares Means					
treatment	Corr2	Corr3	Corr4	Corr5	Corr6
1
2	1.0000	.	.	.	.
3	.	1.0000	.	.	.
4	.	.	1.0000	.	.
5	.	.	.	1.0000	.
6	1.0000

Differences of treatment Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	_treatment	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper	Adj Lower	Adj Upper
1	2	Non-est	.	.	.	.	.	.	.	.	.	.
1	3	Non-est	.	.	.	.	.	.	.	.	.	.
1	4	Non-est	.	.	.	.	.	.	.	.	.	.
1	5	Non-est	.	.	.	.	.	.	.	.	.	.
1	6	Non-est	.	.	.	.	.	.	.	.	.	.
2	3	4.8333	0.9219	15	5.24	<.0001	0.0008	0.05	2.8683	6.7984	1.9865	7.6801
2	4	2.5833	0.9219	15	2.80	0.0134	0.0844	0.05	0.6183	4.5484	-0.2635	5.4301
2	5	8.3333	0.9219	15	9.04	<.0001	<.0001	0.05	6.3683	10.2984	5.4865	11.1801
2	6	8.2917	0.9219	15	8.99	<.0001	<.0001	0.05	6.3267	10.2567	5.4449	11.1385
3	4	-2.2500	0.9219	15	-2.44	0.0275	0.1578	0.05	-4.2150	-0.2850	-5.0968	0.5968
3	5	3.5000	0.9219	15	3.80	0.0018	0.0129	0.05	1.5350	5.4650	0.6532	6.3468
3	6	3.4583	0.9219	15	3.75	0.0019	0.0141	0.05	1.4933	5.4234	0.6115	6.3051
4	5	5.7500	0.9219	15	6.24	<.0001	0.0001	0.05	3.7850	7.7150	2.9032	8.5968
4	6	5.7083	0.9219	15	6.19	<.0001	0.0001	0.05	3.7433	7.6734	2.8615	8.5551
5	6	-0.04167	0.9219	15	-0.05	0.9645	1.0000	0.05	-2.0067	1.9234	-2.8885	2.8051

The PLM Procedure



The PLM Procedure

treatment*number Least Squares Means														
treatment	number	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Cov1	Cov2	Cov3	Cov4	Cov5
1	5	81.5000	0.8004	87	101.82	<.0001	0.05	79.9090	83.0910	0.6407	0.3818	0.3818	0.3818	0.3818
1	7	85.0000	0.8004	87	106.19	<.0001	0.05	83.4090	86.5910	0.3818	0.6407	0.3818	0.3818	0.3818
1	8	85.7500	0.8004	87	107.13	<.0001	0.05	84.1590	87.3410	0.3818	0.3818	0.6407	0.3818	0.3818
1	9	88.2500	0.8004	87	110.25	<.0001	0.05	86.6590	89.8410	0.3818	0.3818	0.3818	0.6407	0.3818
1	10	89.5000	0.8004	87	111.81	<.0001	0.05	87.9090	91.0910	0.3818	0.3818	0.3818	0.3818	0.6407
2	5	21.0000	0.8004	87	26.24	<.0001	0.05	19.4090	22.5910					
2	6	22.0000	0.8004	87	27.48	<.0001	0.05	20.4090	23.5910					
2	7	22.2500	0.8004	87	27.80	<.0001	0.05	20.6590	23.8410					
2	8	22.7500	0.8004	87	28.42	<.0001	0.05	21.1590	24.3410					
2	9	23.5000	0.8004	87	29.36	<.0001	0.05	21.9090	25.0910					
2	10	24.7500	0.8004	87	30.92	<.0001	0.05	23.1590	26.3410					
3	5	15.2500	0.8004	87	19.05	<.0001	0.05	13.6590	16.8410					
3	6	16.7500	0.8004	87	20.93	<.0001	0.05	15.1590	18.3410					
3	7	17.2500	0.8004	87	21.55	<.0001	0.05	15.6590	18.8410					
3	8	18.0000	0.8004	87	22.49	<.0001	0.05	16.4090	19.5910					
3	9	19.2500	0.8004	87	24.05	<.0001	0.05	17.6590	20.8410					
3	10	20.7500	0.8004	87	25.92	<.0001	0.05	19.1590	22.3410					
4	5	16.7500	0.8004	87	20.93	<.0001	0.05	15.1590	18.3410					
4	6	18.2500	0.8004	87	22.80	<.0001	0.05	16.6590	19.8410					
4	7	19.2500	0.8004	87	24.05	<.0001	0.05	17.6590	20.8410					
4	8	21.0000	0.8004	87	26.24	<.0001	0.05	19.4090	22.5910					
4	9	22.7500	0.8004	87	28.42	<.0001	0.05	21.1590	24.3410					
4	10	22.7500	0.8004	87	28.42	<.0001	0.05	21.1590	24.3410					
5	5	11.7500	0.8004	87	14.68	<.0001	0.05	10.1590	13.3410					
5	6	13.0000	0.8004	87	16.24	<.0001	0.05	11.4090	14.5910					
5	7	13.7500	0.8004	87	17.18	<.0001	0.05	12.1590	15.3410					
5	8	14.0000	0.8004	87	17.49	<.0001	0.05	12.4090	15.5910					
5	9	16.0000	0.8004	87	19.99	<.0001	0.05	14.4090	17.5910					
5	10	17.7500	0.8004	87	22.18	<.0001	0.05	16.1590	19.3410					
6	5	12.2500	0.8004	87	15.30	<.0001	0.05	10.6590	13.8410					
6	6	14.0000	0.8004	87	17.49	<.0001	0.05	12.4090	15.5910					
6	7	14.5000	0.8004	87	18.11	<.0001	0.05	12.9090	16.0910					
6	8	15.0000	0.8004	87	18.74	<.0001	0.05	13.4090	16.5910					
6	9	15.0000	0.8004	87	18.74	<.0001	0.05	13.4090	16.5910					
6	10	15.7500	0.8004	87	19.68	<.0001	0.05	14.1590	17.3410					

The PLM Procedure

treatment*number Least Squares Means

treatment	number	Cov20	Cov21	Cov22	Cov23	Cov24	Cov25	Cov26	Cov27	Cov28	Cov29	Cov30	Cov31	Cov32	Cov33
1	5														
1	7														
1	8														
1	9														
1	10														
2	5														
2	6														
2	7														
2	8														
2	9														
2	10														
3	5														
3	6														
3	7														
3	8														
3	9														
3	10														
4	5	0.3818	0.3818	0.3818	0.3818										
4	6	0.3818	0.3818	0.3818	0.3818										
4	7	0.6407	0.3818	0.3818	0.3818										
4	8	0.3818	0.6407	0.3818	0.3818										
4	9	0.3818	0.3818	0.6407	0.3818										
4	10	0.3818	0.3818	0.3818	0.6407										
5	5					0.6407	0.3818	0.3818	0.3818	0.3818	0.3818				
5	6					0.3818	0.6407	0.3818	0.3818	0.3818	0.3818				
5	7					0.3818	0.3818	0.6407	0.3818	0.3818	0.3818				
5	8					0.3818	0.3818	0.3818	0.6407	0.3818	0.3818				
5	9					0.3818	0.3818	0.3818	0.3818	0.6407	0.3818				
5	10					0.3818	0.3818	0.3818	0.3818	0.3818	0.6407				
6	5											0.6407	0.3818	0.3818	0.3818
6	6											0.3818	0.6407	0.3818	0.3818
6	7											0.3818	0.3818	0.6407	0.3818
6	8											0.3818	0.3818	0.3818	0.6407
6	9											0.3818	0.3818	0.3818	0.3818
6	10											0.3818	0.3818	0.3818	0.3818

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
1	5	1	7	-3.5000	0.7196	87	-4.86	<.0001	0.0023	0.05	-4.9303	-2.0697
1	5	1	8	-4.2500	0.7196	87	-5.91	<.0001	<.0001	0.05	-5.6803	-2.8197
1	5	1	9	-6.7500	0.7196	87	-9.38	<.0001	<.0001	0.05	-8.1803	-5.3197
1	5	1	10	-8.0000	0.7196	87	-11.12	<.0001	<.0001	0.05	-9.4303	-6.5697
1	5	2	5	60.5000	1.1320	87	53.44	<.0001	<.0001	0.05	58.2500	62.7500
1	5	2	6	59.5000	1.1320	87	52.56	<.0001	<.0001	0.05	57.2500	61.7500
1	5	2	7	59.2500	1.1320	87	52.34	<.0001	<.0001	0.05	57.0000	61.5000
1	5	2	8	58.7500	1.1320	87	51.90	<.0001	<.0001	0.05	56.5000	61.0000
1	5	2	9	58.0000	1.1320	87	51.24	<.0001	<.0001	0.05	55.7500	60.2500
1	5	2	10	56.7500	1.1320	87	50.13	<.0001	<.0001	0.05	54.5000	59.0000
1	5	3	5	66.2500	1.1320	87	58.52	<.0001	<.0001	0.05	64.0000	68.5000
1	5	3	6	64.7500	1.1320	87	57.20	<.0001	<.0001	0.05	62.5000	67.0000
1	5	3	7	64.2500	1.1320	87	56.76	<.0001	<.0001	0.05	62.0000	66.5000
1	5	3	8	63.5000	1.1320	87	56.10	<.0001	<.0001	0.05	61.2500	65.7500
1	5	3	9	62.2500	1.1320	87	54.99	<.0001	<.0001	0.05	60.0000	64.5000
1	5	3	10	60.7500	1.1320	87	53.67	<.0001	<.0001	0.05	58.5000	63.0000
1	5	4	5	64.7500	1.1320	87	57.20	<.0001	<.0001	0.05	62.5000	67.0000
1	5	4	6	63.2500	1.1320	87	55.87	<.0001	<.0001	0.05	61.0000	65.5000
1	5	4	7	62.2500	1.1320	87	54.99	<.0001	<.0001	0.05	60.0000	64.5000
1	5	4	8	60.5000	1.1320	87	53.44	<.0001	<.0001	0.05	58.2500	62.7500
1	5	4	9	58.7500	1.1320	87	51.90	<.0001	<.0001	0.05	56.5000	61.0000
1	5	4	10	58.7500	1.1320	87	51.90	<.0001	<.0001	0.05	56.5000	61.0000
1	5	5	5	69.7500	1.1320	87	61.62	<.0001	<.0001	0.05	67.5000	72.0000
1	5	5	6	68.5000	1.1320	87	60.51	<.0001	<.0001	0.05	66.2500	70.7500
1	5	5	7	67.7500	1.1320	87	59.85	<.0001	<.0001	0.05	65.5000	70.0000
1	5	5	8	67.5000	1.1320	87	59.63	<.0001	<.0001	0.05	65.2500	69.7500
1	5	5	9	65.5000	1.1320	87	57.86	<.0001	<.0001	0.05	63.2500	67.7500
1	5	5	10	63.7500	1.1320	87	56.32	<.0001	<.0001	0.05	61.5000	66.0000
1	5	6	5	69.2500	1.1320	87	61.17	<.0001	<.0001	0.05	67.0000	71.5000
1	5	6	6	67.5000	1.1320	87	59.63	<.0001	<.0001	0.05	65.2500	69.7500
1	5	6	7	67.0000	1.1320	87	59.19	<.0001	<.0001	0.05	64.7500	69.2500
1	5	6	8	66.5000	1.1320	87	58.75	<.0001	<.0001	0.05	64.2500	68.7500
1	5	6	9	66.5000	1.1320	87	58.75	<.0001	<.0001	0.05	64.2500	68.7500
1	5	6	10	65.7500	1.1320	87	58.08	<.0001	<.0001	0.05	63.5000	68.0000

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
1	5	1	7	-6.3493	-0.6507
1	5	1	8	-7.0993	-1.4007
1	5	1	9	-9.5993	-3.9007
1	5	1	10	-10.8493	-5.1507
1	5	2	5	56.0177	64.9824
1	5	2	6	55.0177	63.9824
1	5	2	7	54.7677	63.7324
1	5	2	8	54.2677	63.2324
1	5	2	9	53.5177	62.4824
1	5	2	10	52.2677	61.2324
1	5	3	5	61.7677	70.7324
1	5	3	6	60.2677	69.2324
1	5	3	7	59.7677	68.7324
1	5	3	8	59.0177	67.9824
1	5	3	9	57.7677	66.7324
1	5	3	10	56.2677	65.2324
1	5	4	5	60.2677	69.2324
1	5	4	6	58.7677	67.7324
1	5	4	7	57.7677	66.7324
1	5	4	8	56.0177	64.9824
1	5	4	9	54.2677	63.2324
1	5	4	10	54.2677	63.2324
1	5	5	5	65.2677	74.2324
1	5	5	6	64.0177	72.9824
1	5	5	7	63.2677	72.2324
1	5	5	8	63.0177	71.9824
1	5	5	9	61.0177	69.9824
1	5	5	10	59.2677	68.2324
1	5	6	5	64.7677	73.7324
1	5	6	6	63.0177	71.9824
1	5	6	7	62.5177	71.4824
1	5	6	8	62.0177	70.9824
1	5	6	9	62.0177	70.9824
1	5	6	10	61.2677	70.2324

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
1	7	1	8	-0.7500	0.7196	87	-1.04	0.3002	1.0000	0.05	-2.1803	0.6803
1	7	1	9	-3.2500	0.7196	87	-4.52	<.0001	0.0082	0.05	-4.6803	-1.8197
1	7	1	10	-4.5000	0.7196	87	-6.25	<.0001	<.0001	0.05	-5.9303	-3.0697
1	7	2	5	64.0000	1.1320	87	56.54	<.0001	<.0001	0.05	61.7500	66.2500
1	7	2	6	63.0000	1.1320	87	55.65	<.0001	<.0001	0.05	60.7500	65.2500
1	7	2	7	62.7500	1.1320	87	55.43	<.0001	<.0001	0.05	60.5000	65.0000
1	7	2	8	62.2500	1.1320	87	54.99	<.0001	<.0001	0.05	60.0000	64.5000
1	7	2	9	61.5000	1.1320	87	54.33	<.0001	<.0001	0.05	59.2500	63.7500
1	7	2	10	60.2500	1.1320	87	53.22	<.0001	<.0001	0.05	58.0000	62.5000
1	7	3	5	69.7500	1.1320	87	61.62	<.0001	<.0001	0.05	67.5000	72.0000
1	7	3	6	68.2500	1.1320	87	60.29	<.0001	<.0001	0.05	66.0000	70.5000
1	7	3	7	67.7500	1.1320	87	59.85	<.0001	<.0001	0.05	65.5000	70.0000
1	7	3	8	67.0000	1.1320	87	59.19	<.0001	<.0001	0.05	64.7500	69.2500
1	7	3	9	65.7500	1.1320	87	58.08	<.0001	<.0001	0.05	63.5000	68.0000
1	7	3	10	64.2500	1.1320	87	56.76	<.0001	<.0001	0.05	62.0000	66.5000
1	7	4	5	68.2500	1.1320	87	60.29	<.0001	<.0001	0.05	66.0000	70.5000
1	7	4	6	66.7500	1.1320	87	58.97	<.0001	<.0001	0.05	64.5000	69.0000
1	7	4	7	65.7500	1.1320	87	58.08	<.0001	<.0001	0.05	63.5000	68.0000
1	7	4	8	64.0000	1.1320	87	56.54	<.0001	<.0001	0.05	61.7500	66.2500
1	7	4	9	62.2500	1.1320	87	54.99	<.0001	<.0001	0.05	60.0000	64.5000
1	7	4	10	62.2500	1.1320	87	54.99	<.0001	<.0001	0.05	60.0000	64.5000
1	7	5	5	73.2500	1.1320	87	64.71	<.0001	<.0001	0.05	71.0000	75.5000
1	7	5	6	72.0000	1.1320	87	63.60	<.0001	<.0001	0.05	69.7500	74.2500
1	7	5	7	71.2500	1.1320	87	62.94	<.0001	<.0001	0.05	69.0000	73.5000
1	7	5	8	71.0000	1.1320	87	62.72	<.0001	<.0001	0.05	68.7500	73.2500
1	7	5	9	69.0000	1.1320	87	60.95	<.0001	<.0001	0.05	66.7500	71.2500
1	7	5	10	67.2500	1.1320	87	59.41	<.0001	<.0001	0.05	65.0000	69.5000
1	7	6	5	72.7500	1.1320	87	64.27	<.0001	<.0001	0.05	70.5000	75.0000
1	7	6	6	71.0000	1.1320	87	62.72	<.0001	<.0001	0.05	68.7500	73.2500
1	7	6	7	70.5000	1.1320	87	62.28	<.0001	<.0001	0.05	68.2500	72.7500
1	7	6	8	70.0000	1.1320	87	61.84	<.0001	<.0001	0.05	67.7500	72.2500
1	7	6	9	70.0000	1.1320	87	61.84	<.0001	<.0001	0.05	67.7500	72.2500
1	7	6	10	69.2500	1.1320	87	61.17	<.0001	<.0001	0.05	67.0000	71.5000
1	8	1	9	-2.5000	0.7196	87	-3.47	0.0008	0.1835	0.05	-3.9303	-1.0697

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
1	7	1	8	-3.5993	2.0993
1	7	1	9	-6.0993	-0.4007
1	7	1	10	-7.3493	-1.6507
1	7	2	5	59.5177	68.4824
1	7	2	6	58.5177	67.4824
1	7	2	7	58.2677	67.2324
1	7	2	8	57.7677	66.7324
1	7	2	9	57.0177	65.9824
1	7	2	10	55.7677	64.7324
1	7	3	5	65.2677	74.2324
1	7	3	6	63.7677	72.7324
1	7	3	7	63.2677	72.2324
1	7	3	8	62.5177	71.4824
1	7	3	9	61.2677	70.2324
1	7	3	10	59.7677	68.7324
1	7	4	5	63.7677	72.7324
1	7	4	6	62.2677	71.2324
1	7	4	7	61.2677	70.2324
1	7	4	8	59.5177	68.4824
1	7	4	9	57.7677	66.7324
1	7	4	10	57.7677	66.7324
1	7	5	5	68.7677	77.7324
1	7	5	6	67.5177	76.4824
1	7	5	7	66.7677	75.7324
1	7	5	8	66.5177	75.4824
1	7	5	9	64.5177	73.4824
1	7	5	10	62.7677	71.7324
1	7	6	5	68.2677	77.2324
1	7	6	6	66.5177	75.4824
1	7	6	7	66.0177	74.9824
1	7	6	8	65.5177	74.4824
1	7	6	9	65.5177	74.4824
1	7	6	10	64.7677	73.7324
1	8	1	9	-5.3493	0.3493

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
1	8	1	10	-3.7500	0.7196	87	-5.21	<.0001	0.0006	0.05	-5.1803	-2.3197
1	8	2	5	64.7500	1.1320	87	57.20	<.0001	<.0001	0.05	62.5000	67.0000
1	8	2	6	63.7500	1.1320	87	56.32	<.0001	<.0001	0.05	61.5000	66.0000
1	8	2	7	63.5000	1.1320	87	56.10	<.0001	<.0001	0.05	61.2500	65.7500
1	8	2	8	63.0000	1.1320	87	55.65	<.0001	<.0001	0.05	60.7500	65.2500
1	8	2	9	62.2500	1.1320	87	54.99	<.0001	<.0001	0.05	60.0000	64.5000
1	8	2	10	61.0000	1.1320	87	53.89	<.0001	<.0001	0.05	58.7500	63.2500
1	8	3	5	70.5000	1.1320	87	62.28	<.0001	<.0001	0.05	68.2500	72.7500
1	8	3	6	69.0000	1.1320	87	60.95	<.0001	<.0001	0.05	66.7500	71.2500
1	8	3	7	68.5000	1.1320	87	60.51	<.0001	<.0001	0.05	66.2500	70.7500
1	8	3	8	67.7500	1.1320	87	59.85	<.0001	<.0001	0.05	65.5000	70.0000
1	8	3	9	66.5000	1.1320	87	58.75	<.0001	<.0001	0.05	64.2500	68.7500
1	8	3	10	65.0000	1.1320	87	57.42	<.0001	<.0001	0.05	62.7500	67.2500
1	8	4	5	69.0000	1.1320	87	60.95	<.0001	<.0001	0.05	66.7500	71.2500
1	8	4	6	67.5000	1.1320	87	59.63	<.0001	<.0001	0.05	65.2500	69.7500
1	8	4	7	66.5000	1.1320	87	58.75	<.0001	<.0001	0.05	64.2500	68.7500
1	8	4	8	64.7500	1.1320	87	57.20	<.0001	<.0001	0.05	62.5000	67.0000
1	8	4	9	63.0000	1.1320	87	55.65	<.0001	<.0001	0.05	60.7500	65.2500
1	8	4	10	63.0000	1.1320	87	55.65	<.0001	<.0001	0.05	60.7500	65.2500
1	8	5	5	74.0000	1.1320	87	65.37	<.0001	<.0001	0.05	71.7500	76.2500
1	8	5	6	72.7500	1.1320	87	64.27	<.0001	<.0001	0.05	70.5000	75.0000
1	8	5	7	72.0000	1.1320	87	63.60	<.0001	<.0001	0.05	69.7500	74.2500
1	8	5	8	71.7500	1.1320	87	63.38	<.0001	<.0001	0.05	69.5000	74.0000
1	8	5	9	69.7500	1.1320	87	61.62	<.0001	<.0001	0.05	67.5000	72.0000
1	8	5	10	68.0000	1.1320	87	60.07	<.0001	<.0001	0.05	65.7500	70.2500
1	8	6	5	73.5000	1.1320	87	64.93	<.0001	<.0001	0.05	71.2500	75.7500
1	8	6	6	71.7500	1.1320	87	63.38	<.0001	<.0001	0.05	69.5000	74.0000
1	8	6	7	71.2500	1.1320	87	62.94	<.0001	<.0001	0.05	69.0000	73.5000
1	8	6	8	70.7500	1.1320	87	62.50	<.0001	<.0001	0.05	68.5000	73.0000
1	8	6	9	70.7500	1.1320	87	62.50	<.0001	<.0001	0.05	68.5000	73.0000
1	8	6	10	70.0000	1.1320	87	61.84	<.0001	<.0001	0.05	67.7500	72.2500
1	9	1	10	-1.2500	0.7196	87	-1.74	0.0859	0.9983	0.05	-2.6803	0.1803
1	9	2	5	67.2500	1.1320	87	59.41	<.0001	<.0001	0.05	65.0000	69.5000
1	9	2	6	66.2500	1.1320	87	58.52	<.0001	<.0001	0.05	64.0000	68.5000

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
1	8	1	10	-6.5993	-0.9007
1	8	2	5	60.2677	69.2324
1	8	2	6	59.2677	68.2324
1	8	2	7	59.0177	67.9824
1	8	2	8	58.5177	67.4824
1	8	2	9	57.7677	66.7324
1	8	2	10	56.5177	65.4824
1	8	3	5	66.0177	74.9824
1	8	3	6	64.5177	73.4824
1	8	3	7	64.0177	72.9824
1	8	3	8	63.2677	72.2324
1	8	3	9	62.0177	70.9824
1	8	3	10	60.5177	69.4824
1	8	4	5	64.5177	73.4824
1	8	4	6	63.0177	71.9824
1	8	4	7	62.0177	70.9824
1	8	4	8	60.2677	69.2324
1	8	4	9	58.5177	67.4824
1	8	4	10	58.5177	67.4824
1	8	5	5	69.5177	78.4824
1	8	5	6	68.2677	77.2324
1	8	5	7	67.5177	76.4824
1	8	5	8	67.2677	76.2324
1	8	5	9	65.2677	74.2324
1	8	5	10	63.5177	72.4824
1	8	6	5	69.0177	77.9824
1	8	6	6	67.2677	76.2324
1	8	6	7	66.7677	75.7324
1	8	6	8	66.2677	75.2324
1	8	6	9	66.2677	75.2324
1	8	6	10	65.5177	74.4824
1	9	1	10	-4.0993	1.5993
1	9	2	5	62.7677	71.7324
1	9	2	6	61.7677	70.7324

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
1	9	2	7	66.0000	1.1320	87	58.30	<.0001	<.0001	0.05	63.7500	68.2500
1	9	2	8	65.5000	1.1320	87	57.86	<.0001	<.0001	0.05	63.2500	67.7500
1	9	2	9	64.7500	1.1320	87	57.20	<.0001	<.0001	0.05	62.5000	67.0000
1	9	2	10	63.5000	1.1320	87	56.10	<.0001	<.0001	0.05	61.2500	65.7500
1	9	3	5	73.0000	1.1320	87	64.49	<.0001	<.0001	0.05	70.7500	75.2500
1	9	3	6	71.5000	1.1320	87	63.16	<.0001	<.0001	0.05	69.2500	73.7500
1	9	3	7	71.0000	1.1320	87	62.72	<.0001	<.0001	0.05	68.7500	73.2500
1	9	3	8	70.2500	1.1320	87	62.06	<.0001	<.0001	0.05	68.0000	72.5000
1	9	3	9	69.0000	1.1320	87	60.95	<.0001	<.0001	0.05	66.7500	71.2500
1	9	3	10	67.5000	1.1320	87	59.63	<.0001	<.0001	0.05	65.2500	69.7500
1	9	4	5	71.5000	1.1320	87	63.16	<.0001	<.0001	0.05	69.2500	73.7500
1	9	4	6	70.0000	1.1320	87	61.84	<.0001	<.0001	0.05	67.7500	72.2500
1	9	4	7	69.0000	1.1320	87	60.95	<.0001	<.0001	0.05	66.7500	71.2500
1	9	4	8	67.2500	1.1320	87	59.41	<.0001	<.0001	0.05	65.0000	69.5000
1	9	4	9	65.5000	1.1320	87	57.86	<.0001	<.0001	0.05	63.2500	67.7500
1	9	4	10	65.5000	1.1320	87	57.86	<.0001	<.0001	0.05	63.2500	67.7500
1	9	5	5	76.5000	1.1320	87	67.58	<.0001	<.0001	0.05	74.2500	78.7500
1	9	5	6	75.2500	1.1320	87	66.47	<.0001	<.0001	0.05	73.0000	77.5000
1	9	5	7	74.5000	1.1320	87	65.81	<.0001	<.0001	0.05	72.2500	76.7500
1	9	5	8	74.2500	1.1320	87	65.59	<.0001	<.0001	0.05	72.0000	76.5000
1	9	5	9	72.2500	1.1320	87	63.82	<.0001	<.0001	0.05	70.0000	74.5000
1	9	5	10	70.5000	1.1320	87	62.28	<.0001	<.0001	0.05	68.2500	72.7500
1	9	6	5	76.0000	1.1320	87	67.14	<.0001	<.0001	0.05	73.7500	78.2500
1	9	6	6	74.2500	1.1320	87	65.59	<.0001	<.0001	0.05	72.0000	76.5000
1	9	6	7	73.7500	1.1320	87	65.15	<.0001	<.0001	0.05	71.5000	76.0000
1	9	6	8	73.2500	1.1320	87	64.71	<.0001	<.0001	0.05	71.0000	75.5000
1	9	6	9	73.2500	1.1320	87	64.71	<.0001	<.0001	0.05	71.0000	75.5000
1	9	6	10	72.5000	1.1320	87	64.05	<.0001	<.0001	0.05	70.2500	74.7500
1	10	2	5	68.5000	1.1320	87	60.51	<.0001	<.0001	0.05	66.2500	70.7500
1	10	2	6	67.5000	1.1320	87	59.63	<.0001	<.0001	0.05	65.2500	69.7500
1	10	2	7	67.2500	1.1320	87	59.41	<.0001	<.0001	0.05	65.0000	69.5000
1	10	2	8	66.7500	1.1320	87	58.97	<.0001	<.0001	0.05	64.5000	69.0000
1	10	2	9	66.0000	1.1320	87	58.30	<.0001	<.0001	0.05	63.7500	68.2500
1	10	2	10	64.7500	1.1320	87	57.20	<.0001	<.0001	0.05	62.5000	67.0000

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
1	9	2	7	61.5177	70.4824
1	9	2	8	61.0177	69.9824
1	9	2	9	60.2677	69.2324
1	9	2	10	59.0177	67.9824
1	9	3	5	68.5177	77.4824
1	9	3	6	67.0177	75.9824
1	9	3	7	66.5177	75.4824
1	9	3	8	65.7677	74.7324
1	9	3	9	64.5177	73.4824
1	9	3	10	63.0177	71.9824
1	9	4	5	67.0177	75.9824
1	9	4	6	65.5177	74.4824
1	9	4	7	64.5177	73.4824
1	9	4	8	62.7677	71.7324
1	9	4	9	61.0177	69.9824
1	9	4	10	61.0177	69.9824
1	9	5	5	72.0177	80.9824
1	9	5	6	70.7677	79.7324
1	9	5	7	70.0177	78.9824
1	9	5	8	69.7677	78.7324
1	9	5	9	67.7677	76.7324
1	9	5	10	66.0177	74.9824
1	9	6	5	71.5177	80.4824
1	9	6	6	69.7677	78.7324
1	9	6	7	69.2677	78.2324
1	9	6	8	68.7677	77.7324
1	9	6	9	68.7677	77.7324
1	9	6	10	68.0177	76.9824
1	10	2	5	64.0177	72.9824
1	10	2	6	63.0177	71.9824
1	10	2	7	62.7677	71.7324
1	10	2	8	62.2677	71.2324
1	10	2	9	61.5177	70.4824
1	10	2	10	60.2677	69.2324

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
1	10	3	5	74.2500	1.1320	87	65.59	<.0001	<.0001	0.05	72.0000	76.5000
1	10	3	6	72.7500	1.1320	87	64.27	<.0001	<.0001	0.05	70.5000	75.0000
1	10	3	7	72.2500	1.1320	87	63.82	<.0001	<.0001	0.05	70.0000	74.5000
1	10	3	8	71.5000	1.1320	87	63.16	<.0001	<.0001	0.05	69.2500	73.7500
1	10	3	9	70.2500	1.1320	87	62.06	<.0001	<.0001	0.05	68.0000	72.5000
1	10	3	10	68.7500	1.1320	87	60.73	<.0001	<.0001	0.05	66.5000	71.0000
1	10	4	5	72.7500	1.1320	87	64.27	<.0001	<.0001	0.05	70.5000	75.0000
1	10	4	6	71.2500	1.1320	87	62.94	<.0001	<.0001	0.05	69.0000	73.5000
1	10	4	7	70.2500	1.1320	87	62.06	<.0001	<.0001	0.05	68.0000	72.5000
1	10	4	8	68.5000	1.1320	87	60.51	<.0001	<.0001	0.05	66.2500	70.7500
1	10	4	9	66.7500	1.1320	87	58.97	<.0001	<.0001	0.05	64.5000	69.0000
1	10	4	10	66.7500	1.1320	87	58.97	<.0001	<.0001	0.05	64.5000	69.0000
1	10	5	5	77.7500	1.1320	87	68.68	<.0001	<.0001	0.05	75.5000	80.0000
1	10	5	6	76.5000	1.1320	87	67.58	<.0001	<.0001	0.05	74.2500	78.7500
1	10	5	7	75.7500	1.1320	87	66.92	<.0001	<.0001	0.05	73.5000	78.0000
1	10	5	8	75.5000	1.1320	87	66.70	<.0001	<.0001	0.05	73.2500	77.7500
1	10	5	9	73.5000	1.1320	87	64.93	<.0001	<.0001	0.05	71.2500	75.7500
1	10	5	10	71.7500	1.1320	87	63.38	<.0001	<.0001	0.05	69.5000	74.0000
1	10	6	5	77.2500	1.1320	87	68.24	<.0001	<.0001	0.05	75.0000	79.5000
1	10	6	6	75.5000	1.1320	87	66.70	<.0001	<.0001	0.05	73.2500	77.7500
1	10	6	7	75.0000	1.1320	87	66.25	<.0001	<.0001	0.05	72.7500	77.2500
1	10	6	8	74.5000	1.1320	87	65.81	<.0001	<.0001	0.05	72.2500	76.7500
1	10	6	9	74.5000	1.1320	87	65.81	<.0001	<.0001	0.05	72.2500	76.7500
1	10	6	10	73.7500	1.1320	87	65.15	<.0001	<.0001	0.05	71.5000	76.0000
2	5	2	6	-1.0000	0.7196	87	-1.39	0.1682	1.0000	0.05	-2.4303	0.4303
2	5	2	7	-1.2500	0.7196	87	-1.74	0.0859	0.9983	0.05	-2.6803	0.1803
2	5	2	8	-1.7500	0.7196	87	-2.43	0.0171	0.8641	0.05	-3.1803	-0.3197
2	5	2	9	-2.5000	0.7196	87	-3.47	0.0008	0.1835	0.05	-3.9303	-1.0697
2	5	2	10	-3.7500	0.7196	87	-5.21	<.0001	0.0006	0.05	-5.1803	-2.3197
2	5	3	5	5.7500	1.1320	87	5.08	<.0001	0.0010	0.05	3.5000	8.0000
2	5	3	6	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
2	5	3	7	3.7500	1.1320	87	3.31	0.0013	0.2633	0.05	1.5000	6.0000
2	5	3	8	3.0000	1.1320	87	2.65	0.0096	0.7325	0.05	0.7500	5.2500
2	5	3	9	1.7500	1.1320	87	1.55	0.1258	0.9998	0.05	-0.5000	4.0000

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
1	10	3	5	69.7677	78.7324
1	10	3	6	68.2677	77.2324
1	10	3	7	67.7677	76.7324
1	10	3	8	67.0177	75.9824
1	10	3	9	65.7677	74.7324
1	10	3	10	64.2677	73.2324
1	10	4	5	68.2677	77.2324
1	10	4	6	66.7677	75.7324
1	10	4	7	65.7677	74.7324
1	10	4	8	64.0177	72.9824
1	10	4	9	62.2677	71.2324
1	10	4	10	62.2677	71.2324
1	10	5	5	73.2677	82.2324
1	10	5	6	72.0177	80.9824
1	10	5	7	71.2677	80.2324
1	10	5	8	71.0177	79.9824
1	10	5	9	69.0177	77.9824
1	10	5	10	67.2677	76.2324
1	10	6	5	72.7677	81.7324
1	10	6	6	71.0177	79.9824
1	10	6	7	70.5177	79.4824
1	10	6	8	70.0177	78.9824
1	10	6	9	70.0177	78.9824
1	10	6	10	69.2677	78.2324
2	5	2	6	-3.8493	1.8493
2	5	2	7	-4.0993	1.5993
2	5	2	8	-4.5993	1.0993
2	5	2	9	-5.3493	0.3493
2	5	2	10	-6.5993	-0.9007
2	5	3	5	1.2677	10.2323
2	5	3	6	-0.2323	8.7323
2	5	3	7	-0.7323	8.2323
2	5	3	8	-1.4823	7.4823
2	5	3	9	-2.7323	6.2323

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
2	5	3	10	0.2500	1.1320	87	0.22	0.8257	1.0000	0.05	-2.0000	2.5000
2	5	4	5	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
2	5	4	6	2.7500	1.1320	87	2.43	0.0172	0.8654	0.05	0.5000	5.0000
2	5	4	7	1.7500	1.1320	87	1.55	0.1258	0.9998	0.05	-0.5000	4.0000
2	5	4	8	-115E-16	1.1320	87	-0.00	1.0000	1.0000	0.05	-2.2500	2.2500
2	5	4	9	-1.7500	1.1320	87	-1.55	0.1258	0.9998	0.05	-4.0000	0.5000
2	5	4	10	-1.7500	1.1320	87	-1.55	0.1258	0.9998	0.05	-4.0000	0.5000
2	5	5	5	9.2500	1.1320	87	8.17	<.0001	<.0001	0.05	7.0000	11.5000
2	5	5	6	8.0000	1.1320	87	7.07	<.0001	<.0001	0.05	5.7500	10.2500
2	5	5	7	7.2500	1.1320	87	6.40	<.0001	<.0001	0.05	5.0000	9.5000
2	5	5	8	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
2	5	5	9	5.0000	1.1320	87	4.42	<.0001	0.0116	0.05	2.7500	7.2500
2	5	5	10	3.2500	1.1320	87	2.87	0.0051	0.5684	0.05	1.0000	5.5000
2	5	6	5	8.7500	1.1320	87	7.73	<.0001	<.0001	0.05	6.5000	11.0000
2	5	6	6	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
2	5	6	7	6.5000	1.1320	87	5.74	<.0001	<.0001	0.05	4.2500	8.7500
2	5	6	8	6.0000	1.1320	87	5.30	<.0001	0.0004	0.05	3.7500	8.2500
2	5	6	9	6.0000	1.1320	87	5.30	<.0001	0.0004	0.05	3.7500	8.2500
2	5	6	10	5.2500	1.1320	87	4.64	<.0001	0.0054	0.05	3.0000	7.5000
2	6	2	7	-0.2500	0.7196	87	-0.35	0.7291	1.0000	0.05	-1.6803	1.1803
2	6	2	8	-0.7500	0.7196	87	-1.04	0.3002	1.0000	0.05	-2.1803	0.6803
2	6	2	9	-1.5000	0.7196	87	-2.08	0.0400	0.9743	0.05	-2.9303	-0.06973
2	6	2	10	-2.7500	0.7196	87	-3.82	0.0002	0.0745	0.05	-4.1803	-1.3197
2	6	3	5	6.7500	1.1320	87	5.96	<.0001	<.0001	0.05	4.5000	9.0000
2	6	3	6	5.2500	1.1320	87	4.64	<.0001	0.0054	0.05	3.0000	7.5000
2	6	3	7	4.7500	1.1320	87	4.20	<.0001	0.0241	0.05	2.5000	7.0000
2	6	3	8	4.0000	1.1320	87	3.53	0.0007	0.1591	0.05	1.7500	6.2500
2	6	3	9	2.7500	1.1320	87	2.43	0.0172	0.8654	0.05	0.5000	5.0000
2	6	3	10	1.2500	1.1320	87	1.10	0.2725	1.0000	0.05	-1.0000	3.5000
2	6	4	5	5.2500	1.1320	87	4.64	<.0001	0.0054	0.05	3.0000	7.5000
2	6	4	6	3.7500	1.1320	87	3.31	0.0013	0.2633	0.05	1.5000	6.0000
2	6	4	7	2.7500	1.1320	87	2.43	0.0172	0.8654	0.05	0.5000	5.0000
2	6	4	8	1.0000	1.1320	87	0.88	0.3795	1.0000	0.05	-1.2500	3.2500
2	6	4	9	-0.7500	1.1320	87	-0.66	0.5094	1.0000	0.05	-3.0000	1.5000

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
2	5	3	10	-4.2323	4.7323
2	5	4	5	-0.2323	8.7323
2	5	4	6	-1.7323	7.2323
2	5	4	7	-2.7323	6.2323
2	5	4	8	-4.4823	4.4823
2	5	4	9	-6.2323	2.7323
2	5	4	10	-6.2323	2.7323
2	5	5	5	4.7677	13.7323
2	5	5	6	3.5177	12.4823
2	5	5	7	2.7677	11.7323
2	5	5	8	2.5177	11.4823
2	5	5	9	0.5177	9.4823
2	5	5	10	-1.2323	7.7323
2	5	6	5	4.2677	13.2323
2	5	6	6	2.5177	11.4823
2	5	6	7	2.0177	10.9823
2	5	6	8	1.5177	10.4823
2	5	6	9	1.5177	10.4823
2	5	6	10	0.7677	9.7323
2	6	2	7	-3.0993	2.5993
2	6	2	8	-3.5993	2.0993
2	6	2	9	-4.3493	1.3493
2	6	2	10	-5.5993	0.0993
2	6	3	5	2.2677	11.2323
2	6	3	6	0.7677	9.7323
2	6	3	7	0.2677	9.2323
2	6	3	8	-0.4823	8.4823
2	6	3	9	-1.7323	7.2323
2	6	3	10	-3.2323	5.7323
2	6	4	5	0.7677	9.7323
2	6	4	6	-0.7323	8.2323
2	6	4	7	-1.7323	7.2323
2	6	4	8	-3.4823	5.4823
2	6	4	9	-5.2323	3.7323

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
2	6	4	10	-0.7500	1.1320	87	-0.66	0.5094	1.0000	0.05	-3.0000	1.5000
2	6	5	5	10.2500	1.1320	87	9.05	<.0001	<.0001	0.05	8.0000	12.5000
2	6	5	6	9.0000	1.1320	87	7.95	<.0001	<.0001	0.05	6.7500	11.2500
2	6	5	7	8.2500	1.1320	87	7.29	<.0001	<.0001	0.05	6.0000	10.5000
2	6	5	8	8.0000	1.1320	87	7.07	<.0001	<.0001	0.05	5.7500	10.2500
2	6	5	9	6.0000	1.1320	87	5.30	<.0001	0.0004	0.05	3.7500	8.2500
2	6	5	10	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
2	6	6	5	9.7500	1.1320	87	8.61	<.0001	<.0001	0.05	7.5000	12.0000
2	6	6	6	8.0000	1.1320	87	7.07	<.0001	<.0001	0.05	5.7500	10.2500
2	6	6	7	7.5000	1.1320	87	6.63	<.0001	<.0001	0.05	5.2500	9.7500
2	6	6	8	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
2	6	6	9	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
2	6	6	10	6.2500	1.1320	87	5.52	<.0001	0.0002	0.05	4.0000	8.5000
2	7	2	8	-0.5000	0.7196	87	-0.69	0.4890	1.0000	0.05	-1.9303	0.9303
2	7	2	9	-1.2500	0.7196	87	-1.74	0.0859	0.9983	0.05	-2.6803	0.1803
2	7	2	10	-2.5000	0.7196	87	-3.47	0.0008	0.1835	0.05	-3.9303	-1.0697
2	7	3	5	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
2	7	3	6	5.5000	1.1320	87	4.86	<.0001	0.0024	0.05	3.2500	7.7500
2	7	3	7	5.0000	1.1320	87	4.42	<.0001	0.0116	0.05	2.7500	7.2500
2	7	3	8	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
2	7	3	9	3.0000	1.1320	87	2.65	0.0096	0.7325	0.05	0.7500	5.2500
2	7	3	10	1.5000	1.1320	87	1.33	0.1886	1.0000	0.05	-0.7500	3.7500
2	7	4	5	5.5000	1.1320	87	4.86	<.0001	0.0024	0.05	3.2500	7.7500
2	7	4	6	4.0000	1.1320	87	3.53	0.0007	0.1591	0.05	1.7500	6.2500
2	7	4	7	3.0000	1.1320	87	2.65	0.0096	0.7325	0.05	0.7500	5.2500
2	7	4	8	1.2500	1.1320	87	1.10	0.2725	1.0000	0.05	-1.0000	3.5000
2	7	4	9	-0.5000	1.1320	87	-0.44	0.6598	1.0000	0.05	-2.7500	1.7500
2	7	4	10	-0.5000	1.1320	87	-0.44	0.6598	1.0000	0.05	-2.7500	1.7500
2	7	5	5	10.5000	1.1320	87	9.28	<.0001	<.0001	0.05	8.2500	12.7500
2	7	5	6	9.2500	1.1320	87	8.17	<.0001	<.0001	0.05	7.0000	11.5000
2	7	5	7	8.5000	1.1320	87	7.51	<.0001	<.0001	0.05	6.2500	10.7500
2	7	5	8	8.2500	1.1320	87	7.29	<.0001	<.0001	0.05	6.0000	10.5000
2	7	5	9	6.2500	1.1320	87	5.52	<.0001	0.0002	0.05	4.0000	8.5000
2	7	5	10	4.5000	1.1320	87	3.98	0.0001	0.0477	0.05	2.2500	6.7500

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
2	6	4	10	-5.2323	3.7323
2	6	5	5	5.7677	14.7323
2	6	5	6	4.5177	13.4823
2	6	5	7	3.7677	12.7323
2	6	5	8	3.5177	12.4823
2	6	5	9	1.5177	10.4823
2	6	5	10	-0.2323	8.7323
2	6	6	5	5.2677	14.2323
2	6	6	6	3.5177	12.4823
2	6	6	7	3.0177	11.9823
2	6	6	8	2.5177	11.4823
2	6	6	9	2.5177	11.4823
2	6	6	10	1.7677	10.7323
2	7	2	8	-3.3493	2.3493
2	7	2	9	-4.0993	1.5993
2	7	2	10	-5.3493	0.3493
2	7	3	5	2.5177	11.4823
2	7	3	6	1.0177	9.9823
2	7	3	7	0.5177	9.4823
2	7	3	8	-0.2323	8.7323
2	7	3	9	-1.4823	7.4823
2	7	3	10	-2.9823	5.9823
2	7	4	5	1.0177	9.9823
2	7	4	6	-0.4823	8.4823
2	7	4	7	-1.4823	7.4823
2	7	4	8	-3.2323	5.7323
2	7	4	9	-4.9823	3.9823
2	7	4	10	-4.9823	3.9823
2	7	5	5	6.0177	14.9823
2	7	5	6	4.7677	13.7323
2	7	5	7	4.0177	12.9823
2	7	5	8	3.7677	12.7323
2	7	5	9	1.7677	10.7323
2	7	5	10	0.01765	8.9823

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
2	7	6	5	10.0000	1.1320	87	8.83	<.0001	<.0001	0.05	7.7500	12.2500
2	7	6	6	8.2500	1.1320	87	7.29	<.0001	<.0001	0.05	6.0000	10.5000
2	7	6	7	7.7500	1.1320	87	6.85	<.0001	<.0001	0.05	5.5000	10.0000
2	7	6	8	7.2500	1.1320	87	6.40	<.0001	<.0001	0.05	5.0000	9.5000
2	7	6	9	7.2500	1.1320	87	6.40	<.0001	<.0001	0.05	5.0000	9.5000
2	7	6	10	6.5000	1.1320	87	5.74	<.0001	<.0001	0.05	4.2500	8.7500
2	8	2	9	-0.7500	0.7196	87	-1.04	0.3002	1.0000	0.05	-2.1803	0.6803
2	8	2	10	-2.0000	0.7196	87	-2.78	0.0067	0.6384	0.05	-3.4303	-0.5697
2	8	3	5	7.5000	1.1320	87	6.63	<.0001	<.0001	0.05	5.2500	9.7500
2	8	3	6	6.0000	1.1320	87	5.30	<.0001	0.0004	0.05	3.7500	8.2500
2	8	3	7	5.5000	1.1320	87	4.86	<.0001	0.0024	0.05	3.2500	7.7500
2	8	3	8	4.7500	1.1320	87	4.20	<.0001	0.0241	0.05	2.5000	7.0000
2	8	3	9	3.5000	1.1320	87	3.09	0.0027	0.4036	0.05	1.2500	5.7500
2	8	3	10	2.0000	1.1320	87	1.77	0.0808	0.9977	0.05	-0.2500	4.2500
2	8	4	5	6.0000	1.1320	87	5.30	<.0001	0.0004	0.05	3.7500	8.2500
2	8	4	6	4.5000	1.1320	87	3.98	0.0001	0.0477	0.05	2.2500	6.7500
2	8	4	7	3.5000	1.1320	87	3.09	0.0027	0.4036	0.05	1.2500	5.7500
2	8	4	8	1.7500	1.1320	87	1.55	0.1258	0.9998	0.05	-0.5000	4.0000
2	8	4	9	-105E-16	1.1320	87	-0.00	1.0000	1.0000	0.05	-2.2500	2.2500
2	8	4	10	2.5E-7	1.1320	87	0.00	1.0000	1.0000	0.05	-2.2500	2.2500
2	8	5	5	11.0000	1.1320	87	9.72	<.0001	<.0001	0.05	8.7500	13.2500
2	8	5	6	9.7500	1.1320	87	8.61	<.0001	<.0001	0.05	7.5000	12.0000
2	8	5	7	9.0000	1.1320	87	7.95	<.0001	<.0001	0.05	6.7500	11.2500
2	8	5	8	8.7500	1.1320	87	7.73	<.0001	<.0001	0.05	6.5000	11.0000
2	8	5	9	6.7500	1.1320	87	5.96	<.0001	<.0001	0.05	4.5000	9.0000
2	8	5	10	5.0000	1.1320	87	4.42	<.0001	0.0116	0.05	2.7500	7.2500
2	8	6	5	10.5000	1.1320	87	9.28	<.0001	<.0001	0.05	8.2500	12.7500
2	8	6	6	8.7500	1.1320	87	7.73	<.0001	<.0001	0.05	6.5000	11.0000
2	8	6	7	8.2500	1.1320	87	7.29	<.0001	<.0001	0.05	6.0000	10.5000
2	8	6	8	7.7500	1.1320	87	6.85	<.0001	<.0001	0.05	5.5000	10.0000
2	8	6	9	7.7500	1.1320	87	6.85	<.0001	<.0001	0.05	5.5000	10.0000
2	8	6	10	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
2	9	2	10	-1.2500	0.7196	87	-1.74	0.0859	0.9983	0.05	-2.6803	0.1803
2	9	3	5	8.2500	1.1320	87	7.29	<.0001	<.0001	0.05	6.0000	10.5000

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
2	7	6	5	5.5177	14.4823
2	7	6	6	3.7677	12.7323
2	7	6	7	3.2677	12.2323
2	7	6	8	2.7677	11.7323
2	7	6	9	2.7677	11.7323
2	7	6	10	2.0177	10.9823
2	8	2	9	-3.5993	2.0993
2	8	2	10	-4.8493	0.8493
2	8	3	5	3.0177	11.9823
2	8	3	6	1.5177	10.4823
2	8	3	7	1.0177	9.9823
2	8	3	8	0.2677	9.2323
2	8	3	9	-0.9823	7.9823
2	8	3	10	-2.4823	6.4823
2	8	4	5	1.5177	10.4823
2	8	4	6	0.01765	8.9823
2	8	4	7	-0.9823	7.9823
2	8	4	8	-2.7323	6.2323
2	8	4	9	-4.4823	4.4823
2	8	4	10	-4.4823	4.4823
2	8	5	5	6.5177	15.4823
2	8	5	6	5.2677	14.2323
2	8	5	7	4.5177	13.4823
2	8	5	8	4.2677	13.2323
2	8	5	9	2.2677	11.2323
2	8	5	10	0.5177	9.4823
2	8	6	5	6.0177	14.9823
2	8	6	6	4.2677	13.2323
2	8	6	7	3.7677	12.7323
2	8	6	8	3.2677	12.2323
2	8	6	9	3.2677	12.2323
2	8	6	10	2.5177	11.4823
2	9	2	10	-4.0993	1.5993
2	9	3	5	3.7677	12.7323

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
2	9	3	6	6.7500	1.1320	87	5.96	<.0001	<.0001	0.05	4.5000	9.0000
2	9	3	7	6.2500	1.1320	87	5.52	<.0001	0.0002	0.05	4.0000	8.5000
2	9	3	8	5.5000	1.1320	87	4.86	<.0001	0.0024	0.05	3.2500	7.7500
2	9	3	9	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
2	9	3	10	2.7500	1.1320	87	2.43	0.0172	0.8654	0.05	0.5000	5.0000
2	9	4	5	6.7500	1.1320	87	5.96	<.0001	<.0001	0.05	4.5000	9.0000
2	9	4	6	5.2500	1.1320	87	4.64	<.0001	0.0054	0.05	3.0000	7.5000
2	9	4	7	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
2	9	4	8	2.5000	1.1320	87	2.21	0.0298	0.9486	0.05	0.2500	4.7500
2	9	4	9	0.7500	1.1320	87	0.66	0.5094	1.0000	0.05	-1.5000	3.0000
2	9	4	10	0.7500	1.1320	87	0.66	0.5094	1.0000	0.05	-1.5000	3.0000
2	9	5	5	11.7500	1.1320	87	10.38	<.0001	<.0001	0.05	9.5000	14.0000
2	9	5	6	10.5000	1.1320	87	9.28	<.0001	<.0001	0.05	8.2500	12.7500
2	9	5	7	9.7500	1.1320	87	8.61	<.0001	<.0001	0.05	7.5000	12.0000
2	9	5	8	9.5000	1.1320	87	8.39	<.0001	<.0001	0.05	7.2500	11.7500
2	9	5	9	7.5000	1.1320	87	6.63	<.0001	<.0001	0.05	5.2500	9.7500
2	9	5	10	5.7500	1.1320	87	5.08	<.0001	0.0010	0.05	3.5000	8.0000
2	9	6	5	11.2500	1.1320	87	9.94	<.0001	<.0001	0.05	9.0000	13.5000
2	9	6	6	9.5000	1.1320	87	8.39	<.0001	<.0001	0.05	7.2500	11.7500
2	9	6	7	9.0000	1.1320	87	7.95	<.0001	<.0001	0.05	6.7500	11.2500
2	9	6	8	8.5000	1.1320	87	7.51	<.0001	<.0001	0.05	6.2500	10.7500
2	9	6	9	8.5000	1.1320	87	7.51	<.0001	<.0001	0.05	6.2500	10.7500
2	9	6	10	7.7500	1.1320	87	6.85	<.0001	<.0001	0.05	5.5000	10.0000
2	10	3	5	9.5000	1.1320	87	8.39	<.0001	<.0001	0.05	7.2500	11.7500
2	10	3	6	8.0000	1.1320	87	7.07	<.0001	<.0001	0.05	5.7500	10.2500
2	10	3	7	7.5000	1.1320	87	6.63	<.0001	<.0001	0.05	5.2500	9.7500
2	10	3	8	6.7500	1.1320	87	5.96	<.0001	<.0001	0.05	4.5000	9.0000
2	10	3	9	5.5000	1.1320	87	4.86	<.0001	0.0024	0.05	3.2500	7.7500
2	10	3	10	4.0000	1.1320	87	3.53	0.0007	0.1591	0.05	1.7500	6.2500
2	10	4	5	8.0000	1.1320	87	7.07	<.0001	<.0001	0.05	5.7500	10.2500
2	10	4	6	6.5000	1.1320	87	5.74	<.0001	<.0001	0.05	4.2500	8.7500
2	10	4	7	5.5000	1.1320	87	4.86	<.0001	0.0024	0.05	3.2500	7.7500
2	10	4	8	3.7500	1.1320	87	3.31	0.0013	0.2633	0.05	1.5000	6.0000
2	10	4	9	2.0000	1.1320	87	1.77	0.0808	0.9977	0.05	-0.2500	4.2500

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
2	9	3	6	2.2677	11.2323
2	9	3	7	1.7677	10.7323
2	9	3	8	1.0177	9.9823
2	9	3	9	-0.2323	8.7323
2	9	3	10	-1.7323	7.2323
2	9	4	5	2.2677	11.2323
2	9	4	6	0.7677	9.7323
2	9	4	7	-0.2323	8.7323
2	9	4	8	-1.9823	6.9823
2	9	4	9	-3.7323	5.2323
2	9	4	10	-3.7323	5.2323
2	9	5	5	7.2677	16.2323
2	9	5	6	6.0177	14.9823
2	9	5	7	5.2677	14.2323
2	9	5	8	5.0177	13.9823
2	9	5	9	3.0177	11.9823
2	9	5	10	1.2677	10.2323
2	9	6	5	6.7677	15.7323
2	9	6	6	5.0177	13.9823
2	9	6	7	4.5177	13.4823
2	9	6	8	4.0177	12.9823
2	9	6	9	4.0177	12.9823
2	9	6	10	3.2677	12.2323
2	10	3	5	5.0177	13.9823
2	10	3	6	3.5177	12.4823
2	10	3	7	3.0177	11.9823
2	10	3	8	2.2677	11.2323
2	10	3	9	1.0177	9.9823
2	10	3	10	-0.4823	8.4823
2	10	4	5	3.5177	12.4823
2	10	4	6	2.0177	10.9823
2	10	4	7	1.0177	9.9823
2	10	4	8	-0.7323	8.2323
2	10	4	9	-2.4823	6.4823

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
2	10	4	10	2.0000	1.1320	87	1.77	0.0808	0.9977	0.05	-0.2500	4.2500
2	10	5	5	13.0000	1.1320	87	11.48	<.0001	<.0001	0.05	10.7500	15.2500
2	10	5	6	11.7500	1.1320	87	10.38	<.0001	<.0001	0.05	9.5000	14.0000
2	10	5	7	11.0000	1.1320	87	9.72	<.0001	<.0001	0.05	8.7500	13.2500
2	10	5	8	10.7500	1.1320	87	9.50	<.0001	<.0001	0.05	8.5000	13.0000
2	10	5	9	8.7500	1.1320	87	7.73	<.0001	<.0001	0.05	6.5000	11.0000
2	10	5	10	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
2	10	6	5	12.5000	1.1320	87	11.04	<.0001	<.0001	0.05	10.2500	14.7500
2	10	6	6	10.7500	1.1320	87	9.50	<.0001	<.0001	0.05	8.5000	13.0000
2	10	6	7	10.2500	1.1320	87	9.05	<.0001	<.0001	0.05	8.0000	12.5000
2	10	6	8	9.7500	1.1320	87	8.61	<.0001	<.0001	0.05	7.5000	12.0000
2	10	6	9	9.7500	1.1320	87	8.61	<.0001	<.0001	0.05	7.5000	12.0000
2	10	6	10	9.0000	1.1320	87	7.95	<.0001	<.0001	0.05	6.7500	11.2500
3	5	3	6	-1.5000	0.7196	87	-2.08	0.0400	0.9743	0.05	-2.9303	-0.06973
3	5	3	7	-2.0000	0.7196	87	-2.78	0.0067	0.6384	0.05	-3.4303	-0.5697
3	5	3	8	-2.7500	0.7196	87	-3.82	0.0002	0.0745	0.05	-4.1803	-1.3197
3	5	3	9	-4.0000	0.7196	87	-5.56	<.0001	0.0002	0.05	-5.4303	-2.5697
3	5	3	10	-5.5000	0.7196	87	-7.64	<.0001	<.0001	0.05	-6.9303	-4.0697
3	5	4	5	-1.5000	1.1320	87	-1.33	0.1886	1.0000	0.05	-3.7500	0.7500
3	5	4	6	-3.0000	1.1320	87	-2.65	0.0096	0.7325	0.05	-5.2500	-0.7500
3	5	4	7	-4.0000	1.1320	87	-3.53	0.0007	0.1591	0.05	-6.2500	-1.7500
3	5	4	8	-5.7500	1.1320	87	-5.08	<.0001	0.0010	0.05	-8.0000	-3.5000
3	5	4	9	-7.5000	1.1320	87	-6.63	<.0001	<.0001	0.05	-9.7500	-5.2500
3	5	4	10	-7.5000	1.1320	87	-6.63	<.0001	<.0001	0.05	-9.7500	-5.2500
3	5	5	5	3.5000	1.1320	87	3.09	0.0027	0.4036	0.05	1.2500	5.7500
3	5	5	6	2.2500	1.1320	87	1.99	0.0500	0.9863	0.05	0.000014	4.5000
3	5	5	7	1.5000	1.1320	87	1.33	0.1886	1.0000	0.05	-0.7500	3.7500
3	5	5	8	1.2500	1.1320	87	1.10	0.2725	1.0000	0.05	-1.0000	3.5000
3	5	5	9	-0.7500	1.1320	87	-0.66	0.5094	1.0000	0.05	-3.0000	1.5000
3	5	5	10	-2.5000	1.1320	87	-2.21	0.0298	0.9486	0.05	-4.7500	-0.2500
3	5	6	5	3.0000	1.1320	87	2.65	0.0096	0.7325	0.05	0.7500	5.2500
3	5	6	6	1.2500	1.1320	87	1.10	0.2725	1.0000	0.05	-1.0000	3.5000
3	5	6	7	0.7500	1.1320	87	0.66	0.5094	1.0000	0.05	-1.5000	3.0000
3	5	6	8	0.2500	1.1320	87	0.22	0.8257	1.0000	0.05	-2.0000	2.5000

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
2	10	4	10	-2.4823	6.4823
2	10	5	5	8.5177	17.4823
2	10	5	6	7.2677	16.2323
2	10	5	7	6.5177	15.4823
2	10	5	8	6.2677	15.2323
2	10	5	9	4.2677	13.2323
2	10	5	10	2.5177	11.4823
2	10	6	5	8.0177	16.9823
2	10	6	6	6.2677	15.2323
2	10	6	7	5.7677	14.7323
2	10	6	8	5.2677	14.2323
2	10	6	9	5.2677	14.2323
2	10	6	10	4.5177	13.4823
3	5	3	6	-4.3493	1.3493
3	5	3	7	-4.8493	0.8493
3	5	3	8	-5.5993	0.09933
3	5	3	9	-6.8493	-1.1507
3	5	3	10	-8.3493	-2.6507
3	5	4	5	-5.9823	2.9823
3	5	4	6	-7.4823	1.4823
3	5	4	7	-8.4823	0.4823
3	5	4	8	-10.2323	-1.2677
3	5	4	9	-11.9823	-3.0177
3	5	4	10	-11.9823	-3.0177
3	5	5	5	-0.9823	7.9823
3	5	5	6	-2.2323	6.7323
3	5	5	7	-2.9823	5.9823
3	5	5	8	-3.2323	5.7323
3	5	5	9	-5.2323	3.7323
3	5	5	10	-6.9823	1.9823
3	5	6	5	-1.4823	7.4823
3	5	6	6	-3.2323	5.7323
3	5	6	7	-3.7323	5.2323
3	5	6	8	-4.2323	4.7323

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
3	5	6	9	0.2500	1.1320	87	0.22	0.8257	1.0000	0.05	-2.0000	2.5000
3	5	6	10	-0.5000	1.1320	87	-0.44	0.6598	1.0000	0.05	-2.7500	1.7500
3	6	3	7	-0.5000	0.7196	87	-0.69	0.4890	1.0000	0.05	-1.9303	0.9303
3	6	3	8	-1.2500	0.7196	87	-1.74	0.0859	0.9983	0.05	-2.6803	0.1803
3	6	3	9	-2.5000	0.7196	87	-3.47	0.0008	0.1835	0.05	-3.9303	-1.0697
3	6	3	10	-4.0000	0.7196	87	-5.56	<.0001	0.0002	0.05	-5.4303	-2.5697
3	6	4	5	-2.5E-7	1.1320	87	-0.00	1.0000	1.0000	0.05	-2.2500	2.2500
3	6	4	6	-1.5000	1.1320	87	-1.33	0.1886	1.0000	0.05	-3.7500	0.7500
3	6	4	7	-2.5000	1.1320	87	-2.21	0.0298	0.9486	0.05	-4.7500	-0.2500
3	6	4	8	-4.2500	1.1320	87	-3.75	0.0003	0.0898	0.05	-6.5000	-2.0000
3	6	4	9	-6.0000	1.1320	87	-5.30	<.0001	0.0004	0.05	-8.2500	-3.7500
3	6	4	10	-6.0000	1.1320	87	-5.30	<.0001	0.0004	0.05	-8.2500	-3.7500
3	6	5	5	5.0000	1.1320	87	4.42	<.0001	0.0116	0.05	2.7500	7.2500
3	6	5	6	3.7500	1.1320	87	3.31	0.0013	0.2633	0.05	1.5000	6.0000
3	6	5	7	3.0000	1.1320	87	2.65	0.0096	0.7325	0.05	0.7500	5.2500
3	6	5	8	2.7500	1.1320	87	2.43	0.0172	0.8654	0.05	0.5000	5.0000
3	6	5	9	0.7500	1.1320	87	0.66	0.5094	1.0000	0.05	-1.5000	3.0000
3	6	5	10	-1.0000	1.1320	87	-0.88	0.3795	1.0000	0.05	-3.2500	1.2500
3	6	6	5	4.5000	1.1320	87	3.98	0.0001	0.0477	0.05	2.2500	6.7500
3	6	6	6	2.7500	1.1320	87	2.43	0.0172	0.8654	0.05	0.5000	5.0000
3	6	6	7	2.2500	1.1320	87	1.99	0.0500	0.9863	0.05	0.000014	4.5000
3	6	6	8	1.7500	1.1320	87	1.55	0.1258	0.9998	0.05	-0.5000	4.0000
3	6	6	9	1.7500	1.1320	87	1.55	0.1258	0.9998	0.05	-0.5000	4.0000
3	6	6	10	1.0000	1.1320	87	0.88	0.3795	1.0000	0.05	-1.2500	3.2500
3	7	3	8	-0.7500	0.7196	87	-1.04	0.3002	1.0000	0.05	-2.1803	0.6803
3	7	3	9	-2.0000	0.7196	87	-2.78	0.0067	0.6384	0.05	-3.4303	-0.5697
3	7	3	10	-3.5000	0.7196	87	-4.86	<.0001	0.0023	0.05	-4.9303	-2.0697
3	7	4	5	0.5000	1.1320	87	0.44	0.6598	1.0000	0.05	-1.7500	2.7500
3	7	4	6	-1.0000	1.1320	87	-0.88	0.3795	1.0000	0.05	-3.2500	1.2500
3	7	4	7	-2.0000	1.1320	87	-1.77	0.0808	0.9977	0.05	-4.2500	0.2500
3	7	4	8	-3.7500	1.1320	87	-3.31	0.0013	0.2633	0.05	-6.0000	-1.5000
3	7	4	9	-5.5000	1.1320	87	-4.86	<.0001	0.0024	0.05	-7.7500	-3.2500
3	7	4	10	-5.5000	1.1320	87	-4.86	<.0001	0.0024	0.05	-7.7500	-3.2500
3	7	5	5	5.5000	1.1320	87	4.86	<.0001	0.0024	0.05	3.2500	7.7500

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
3	5	6	9	-4.2323	4.7323
3	5	6	10	-4.9823	3.9823
3	6	3	7	-3.3493	2.3493
3	6	3	8	-4.0993	1.5993
3	6	3	9	-5.3493	0.3493
3	6	3	10	-6.8493	-1.1507
3	6	4	5	-4.4823	4.4823
3	6	4	6	-5.9823	2.9823
3	6	4	7	-6.9823	1.9823
3	6	4	8	-8.7323	0.2323
3	6	4	9	-10.4823	-1.5177
3	6	4	10	-10.4823	-1.5177
3	6	5	5	0.5177	9.4823
3	6	5	6	-0.7323	8.2323
3	6	5	7	-1.4823	7.4823
3	6	5	8	-1.7323	7.2323
3	6	5	9	-3.7323	5.2323
3	6	5	10	-5.4823	3.4823
3	6	6	5	0.01765	8.9823
3	6	6	6	-1.7323	7.2323
3	6	6	7	-2.2323	6.7323
3	6	6	8	-2.7323	6.2323
3	6	6	9	-2.7323	6.2323
3	6	6	10	-3.4823	5.4823
3	7	3	8	-3.5993	2.0993
3	7	3	9	-4.8493	0.8493
3	7	3	10	-6.3493	-0.6507
3	7	4	5	-3.9823	4.9823
3	7	4	6	-5.4823	3.4823
3	7	4	7	-6.4823	2.4823
3	7	4	8	-8.2323	0.7323
3	7	4	9	-9.9823	-1.0177
3	7	4	10	-9.9823	-1.0177
3	7	5	5	1.0177	9.9823

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
3	7	5	6	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
3	7	5	7	3.5000	1.1320	87	3.09	0.0027	0.4036	0.05	1.2500	5.7500
3	7	5	8	3.2500	1.1320	87	2.87	0.0051	0.5684	0.05	1.0000	5.5000
3	7	5	9	1.2500	1.1320	87	1.10	0.2725	1.0000	0.05	-1.0000	3.5000
3	7	5	10	-0.5000	1.1320	87	-0.44	0.6598	1.0000	0.05	-2.7500	1.7500
3	7	6	5	5.0000	1.1320	87	4.42	<.0001	0.0116	0.05	2.7500	7.2500
3	7	6	6	3.2500	1.1320	87	2.87	0.0051	0.5684	0.05	1.0000	5.5000
3	7	6	7	2.7500	1.1320	87	2.43	0.0172	0.8654	0.05	0.5000	5.0000
3	7	6	8	2.2500	1.1320	87	1.99	0.0500	0.9863	0.05	0.000014	4.5000
3	7	6	9	2.2500	1.1320	87	1.99	0.0500	0.9863	0.05	0.000014	4.5000
3	7	6	10	1.5000	1.1320	87	1.33	0.1886	1.0000	0.05	-0.7500	3.7500
3	8	3	9	-1.2500	0.7196	87	-1.74	0.0859	0.9983	0.05	-2.6803	0.1803
3	8	3	10	-2.7500	0.7196	87	-3.82	0.0002	0.0745	0.05	-4.1803	-1.3197
3	8	4	5	1.2500	1.1320	87	1.10	0.2725	1.0000	0.05	-1.0000	3.5000
3	8	4	6	-0.2500	1.1320	87	-0.22	0.8257	1.0000	0.05	-2.5000	2.0000
3	8	4	7	-1.2500	1.1320	87	-1.10	0.2725	1.0000	0.05	-3.5000	1.0000
3	8	4	8	-3.0000	1.1320	87	-2.65	0.0096	0.7325	0.05	-5.2500	-0.7500
3	8	4	9	-4.7500	1.1320	87	-4.20	<.0001	0.0241	0.05	-7.0000	-2.5000
3	8	4	10	-4.7500	1.1320	87	-4.20	<.0001	0.0241	0.05	-7.0000	-2.5000
3	8	5	5	6.2500	1.1320	87	5.52	<.0001	0.0002	0.05	4.0000	8.5000
3	8	5	6	5.0000	1.1320	87	4.42	<.0001	0.0116	0.05	2.7500	7.2500
3	8	5	7	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
3	8	5	8	4.0000	1.1320	87	3.53	0.0007	0.1591	0.05	1.7500	6.2500
3	8	5	9	2.0000	1.1320	87	1.77	0.0808	0.9977	0.05	-0.2500	4.2500
3	8	5	10	0.2500	1.1320	87	0.22	0.8257	1.0000	0.05	-2.0000	2.5000
3	8	6	5	5.7500	1.1320	87	5.08	<.0001	0.0010	0.05	3.5000	8.0000
3	8	6	6	4.0000	1.1320	87	3.53	0.0007	0.1591	0.05	1.7500	6.2500
3	8	6	7	3.5000	1.1320	87	3.09	0.0027	0.4036	0.05	1.2500	5.7500
3	8	6	8	3.0000	1.1320	87	2.65	0.0096	0.7325	0.05	0.7500	5.2500
3	8	6	9	3.0000	1.1320	87	2.65	0.0096	0.7325	0.05	0.7500	5.2500
3	8	6	10	2.2500	1.1320	87	1.99	0.0500	0.9863	0.05	0.000014	4.5000
3	9	3	10	-1.5000	0.7196	87	-2.08	0.0400	0.9743	0.05	-2.9303	-0.06973
3	9	4	5	2.5000	1.1320	87	2.21	0.0298	0.9486	0.05	0.2500	4.7500
3	9	4	6	1.0000	1.1320	87	0.88	0.3795	1.0000	0.05	-1.2500	3.2500

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
3	7	5	6	-0.2323	8.7323
3	7	5	7	-0.9823	7.9823
3	7	5	8	-1.2323	7.7323
3	7	5	9	-3.2323	5.7323
3	7	5	10	-4.9823	3.9823
3	7	6	5	0.5177	9.4823
3	7	6	6	-1.2323	7.7323
3	7	6	7	-1.7323	7.2323
3	7	6	8	-2.2323	6.7323
3	7	6	9	-2.2323	6.7323
3	7	6	10	-2.9823	5.9823
3	8	3	9	-4.0993	1.5993
3	8	3	10	-5.5993	0.09933
3	8	4	5	-3.2323	5.7323
3	8	4	6	-4.7323	4.2323
3	8	4	7	-5.7323	3.2323
3	8	4	8	-7.4823	1.4823
3	8	4	9	-9.2323	-0.2677
3	8	4	10	-9.2323	-0.2677
3	8	5	5	1.7677	10.7323
3	8	5	6	0.5177	9.4823
3	8	5	7	-0.2323	8.7323
3	8	5	8	-0.4823	8.4823
3	8	5	9	-2.4823	6.4823
3	8	5	10	-4.2323	4.7323
3	8	6	5	1.2677	10.2323
3	8	6	6	-0.4823	8.4823
3	8	6	7	-0.9823	7.9823
3	8	6	8	-1.4823	7.4823
3	8	6	9	-1.4823	7.4823
3	8	6	10	-2.2323	6.7323
3	9	3	10	-4.3493	1.3493
3	9	4	5	-1.9823	6.9823
3	9	4	6	-3.4823	5.4823

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
3	9	4	7	2.89E-14	1.1320	87	0.00	1.0000	1.0000	0.05	-2.2500	2.2500
3	9	4	8	-1.7500	1.1320	87	-1.55	0.1258	0.9998	0.05	-4.0000	0.5000
3	9	4	9	-3.5000	1.1320	87	-3.09	0.0027	0.4036	0.05	-5.7500	-1.2500
3	9	4	10	-3.5000	1.1320	87	-3.09	0.0027	0.4036	0.05	-5.7500	-1.2500
3	9	5	5	7.5000	1.1320	87	6.63	<.0001	<.0001	0.05	5.2500	9.7500
3	9	5	6	6.2500	1.1320	87	5.52	<.0001	0.0002	0.05	4.0000	8.5000
3	9	5	7	5.5000	1.1320	87	4.86	<.0001	0.0024	0.05	3.2500	7.7500
3	9	5	8	5.2500	1.1320	87	4.64	<.0001	0.0054	0.05	3.0000	7.5000
3	9	5	9	3.2500	1.1320	87	2.87	0.0051	0.5684	0.05	1.0000	5.5000
3	9	5	10	1.5000	1.1320	87	1.33	0.1886	1.0000	0.05	-0.7500	3.7500
3	9	6	5	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
3	9	6	6	5.2500	1.1320	87	4.64	<.0001	0.0054	0.05	3.0000	7.5000
3	9	6	7	4.7500	1.1320	87	4.20	<.0001	0.0241	0.05	2.5000	7.0000
3	9	6	8	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
3	9	6	9	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
3	9	6	10	3.5000	1.1320	87	3.09	0.0027	0.4036	0.05	1.2500	5.7500
3	10	4	5	4.0000	1.1320	87	3.53	0.0007	0.1591	0.05	1.7500	6.2500
3	10	4	6	2.5000	1.1320	87	2.21	0.0298	0.9486	0.05	0.2500	4.7500
3	10	4	7	1.5000	1.1320	87	1.33	0.1886	1.0000	0.05	-0.7500	3.7500
3	10	4	8	-0.2500	1.1320	87	-0.22	0.8257	1.0000	0.05	-2.5000	2.0000
3	10	4	9	-2.0000	1.1320	87	-1.77	0.0808	0.9977	0.05	-4.2500	0.2500
3	10	4	10	-2.0000	1.1320	87	-1.77	0.0808	0.9977	0.05	-4.2500	0.2500
3	10	5	5	9.0000	1.1320	87	7.95	<.0001	<.0001	0.05	6.7500	11.2500
3	10	5	6	7.7500	1.1320	87	6.85	<.0001	<.0001	0.05	5.5000	10.0000
3	10	5	7	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
3	10	5	8	6.7500	1.1320	87	5.96	<.0001	<.0001	0.05	4.5000	9.0000
3	10	5	9	4.7500	1.1320	87	4.20	<.0001	0.0241	0.05	2.5000	7.0000
3	10	5	10	3.0000	1.1320	87	2.65	0.0096	0.7325	0.05	0.7500	5.2500
3	10	6	5	8.5000	1.1320	87	7.51	<.0001	<.0001	0.05	6.2500	10.7500
3	10	6	6	6.7500	1.1320	87	5.96	<.0001	<.0001	0.05	4.5000	9.0000
3	10	6	7	6.2500	1.1320	87	5.52	<.0001	0.0002	0.05	4.0000	8.5000
3	10	6	8	5.7500	1.1320	87	5.08	<.0001	0.0010	0.05	3.5000	8.0000
3	10	6	9	5.7500	1.1320	87	5.08	<.0001	0.0010	0.05	3.5000	8.0000
3	10	6	10	5.0000	1.1320	87	4.42	<.0001	0.0116	0.05	2.7500	7.2500

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
3	9	4	7	-4.4823	4.4823
3	9	4	8	-6.2323	2.7323
3	9	4	9	-7.9823	0.9823
3	9	4	10	-7.9823	0.9823
3	9	5	5	3.0177	11.9823
3	9	5	6	1.7677	10.7323
3	9	5	7	1.0177	9.9823
3	9	5	8	0.7677	9.7323
3	9	5	9	-1.2323	7.7323
3	9	5	10	-2.9823	5.9823
3	9	6	5	2.5177	11.4823
3	9	6	6	0.7677	9.7323
3	9	6	7	0.2677	9.2323
3	9	6	8	-0.2323	8.7323
3	9	6	9	-0.2323	8.7323
3	9	6	10	-0.9823	7.9823
3	10	4	5	-0.4823	8.4823
3	10	4	6	-1.9823	6.9823
3	10	4	7	-2.9823	5.9823
3	10	4	8	-4.7323	4.2323
3	10	4	9	-6.4823	2.4823
3	10	4	10	-6.4823	2.4823
3	10	5	5	4.5177	13.4823
3	10	5	6	3.2677	12.2323
3	10	5	7	2.5177	11.4823
3	10	5	8	2.2677	11.2323
3	10	5	9	0.2677	9.2323
3	10	5	10	-1.4823	7.4823
3	10	6	5	4.0177	12.9823
3	10	6	6	2.2677	11.2323
3	10	6	7	1.7677	10.7323
3	10	6	8	1.2677	10.2323
3	10	6	9	1.2677	10.2323
3	10	6	10	0.5177	9.4823

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
4	5	4	6	-1.5000	0.7196	87	-2.08	0.0400	0.9743	0.05	-2.9303	-0.06973
4	5	4	7	-2.5000	0.7196	87	-3.47	0.0008	0.1835	0.05	-3.9303	-1.0697
4	5	4	8	-4.2500	0.7196	87	-5.91	<.0001	<.0001	0.05	-5.6803	-2.8197
4	5	4	9	-6.0000	0.7196	87	-8.34	<.0001	<.0001	0.05	-7.4303	-4.5697
4	5	4	10	-6.0000	0.7196	87	-8.34	<.0001	<.0001	0.05	-7.4303	-4.5697
4	5	5	5	5.0000	1.1320	87	4.42	<.0001	0.0116	0.05	2.7500	7.2500
4	5	5	6	3.7500	1.1320	87	3.31	0.0013	0.2633	0.05	1.5000	6.0000
4	5	5	7	3.0000	1.1320	87	2.65	0.0096	0.7325	0.05	0.7500	5.2500
4	5	5	8	2.7500	1.1320	87	2.43	0.0172	0.8654	0.05	0.5000	5.0000
4	5	5	9	0.7500	1.1320	87	0.66	0.5094	1.0000	0.05	-1.5000	3.0000
4	5	5	10	-1.0000	1.1320	87	-0.88	0.3795	1.0000	0.05	-3.2500	1.2500
4	5	6	5	4.5000	1.1320	87	3.98	0.0001	0.0477	0.05	2.2500	6.7500
4	5	6	6	2.7500	1.1320	87	2.43	0.0172	0.8654	0.05	0.5000	5.0000
4	5	6	7	2.2500	1.1320	87	1.99	0.0500	0.9863	0.05	0.000014	4.5000
4	5	6	8	1.7500	1.1320	87	1.55	0.1258	0.9998	0.05	-0.5000	4.0000
4	5	6	9	1.7500	1.1320	87	1.55	0.1258	0.9998	0.05	-0.5000	4.0000
4	5	6	10	1.0000	1.1320	87	0.88	0.3795	1.0000	0.05	-1.2500	3.2500
4	6	4	7	-1.0000	0.7196	87	-1.39	0.1682	1.0000	0.05	-2.4303	0.4303
4	6	4	8	-2.7500	0.7196	87	-3.82	0.0002	0.0745	0.05	-4.1803	-1.3197
4	6	4	9	-4.5000	0.7196	87	-6.25	<.0001	<.0001	0.05	-5.9303	-3.0697
4	6	4	10	-4.5000	0.7196	87	-6.25	<.0001	<.0001	0.05	-5.9303	-3.0697
4	6	5	5	6.5000	1.1320	87	5.74	<.0001	<.0001	0.05	4.2500	8.7500
4	6	5	6	5.2500	1.1320	87	4.64	<.0001	0.0054	0.05	3.0000	7.5000
4	6	5	7	4.5000	1.1320	87	3.98	0.0001	0.0477	0.05	2.2500	6.7500
4	6	5	8	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
4	6	5	9	2.2500	1.1320	87	1.99	0.0500	0.9863	0.05	0.000014	4.5000
4	6	5	10	0.5000	1.1320	87	0.44	0.6598	1.0000	0.05	-1.7500	2.7500
4	6	6	5	6.0000	1.1320	87	5.30	<.0001	0.0004	0.05	3.7500	8.2500
4	6	6	6	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
4	6	6	7	3.7500	1.1320	87	3.31	0.0013	0.2633	0.05	1.5000	6.0000
4	6	6	8	3.2500	1.1320	87	2.87	0.0051	0.5684	0.05	1.0000	5.5000
4	6	6	9	3.2500	1.1320	87	2.87	0.0051	0.5684	0.05	1.0000	5.5000
4	6	6	10	2.5000	1.1320	87	2.21	0.0298	0.9486	0.05	0.2500	4.7500
4	7	4	8	-1.7500	0.7196	87	-2.43	0.0171	0.8641	0.05	-3.1803	-0.3197

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
4	5	4	6	-4.3493	1.3493
4	5	4	7	-5.3493	0.3493
4	5	4	8	-7.0993	-1.4007
4	5	4	9	-8.8493	-3.1507
4	5	4	10	-8.8493	-3.1507
4	5	5	5	0.5177	9.4823
4	5	5	6	-0.7323	8.2323
4	5	5	7	-1.4823	7.4823
4	5	5	8	-1.7323	7.2323
4	5	5	9	-3.7323	5.2323
4	5	5	10	-5.4823	3.4823
4	5	6	5	0.01765	8.9823
4	5	6	6	-1.7323	7.2323
4	5	6	7	-2.2323	6.7323
4	5	6	8	-2.7323	6.2323
4	5	6	9	-2.7323	6.2323
4	5	6	10	-3.4823	5.4823
4	6	4	7	-3.8493	1.8493
4	6	4	8	-5.5993	0.09933
4	6	4	9	-7.3493	-1.6507
4	6	4	10	-7.3493	-1.6507
4	6	5	5	2.0177	10.9823
4	6	5	6	0.7677	9.7323
4	6	5	7	0.01765	8.9823
4	6	5	8	-0.2323	8.7323
4	6	5	9	-2.2323	6.7323
4	6	5	10	-3.9823	4.9823
4	6	6	5	1.5177	10.4823
4	6	6	6	-0.2323	8.7323
4	6	6	7	-0.7323	8.2323
4	6	6	8	-1.2323	7.7323
4	6	6	9	-1.2323	7.7323
4	6	6	10	-1.9823	6.9823
4	7	4	8	-4.5993	1.0993

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
4	7	4	9	-3.5000	0.7196	87	-4.86	<.0001	0.0023	0.05	-4.9303	-2.0697
4	7	4	10	-3.5000	0.7196	87	-4.86	<.0001	0.0023	0.05	-4.9303	-2.0697
4	7	5	5	7.5000	1.1320	87	6.63	<.0001	<.0001	0.05	5.2500	9.7500
4	7	5	6	6.2500	1.1320	87	5.52	<.0001	0.0002	0.05	4.0000	8.5000
4	7	5	7	5.5000	1.1320	87	4.86	<.0001	0.0024	0.05	3.2500	7.7500
4	7	5	8	5.2500	1.1320	87	4.64	<.0001	0.0054	0.05	3.0000	7.5000
4	7	5	9	3.2500	1.1320	87	2.87	0.0051	0.5684	0.05	1.0000	5.5000
4	7	5	10	1.5000	1.1320	87	1.33	0.1886	1.0000	0.05	-0.7500	3.7500
4	7	6	5	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
4	7	6	6	5.2500	1.1320	87	4.64	<.0001	0.0054	0.05	3.0000	7.5000
4	7	6	7	4.7500	1.1320	87	4.20	<.0001	0.0241	0.05	2.5000	7.0000
4	7	6	8	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
4	7	6	9	4.2500	1.1320	87	3.75	0.0003	0.0898	0.05	2.0000	6.5000
4	7	6	10	3.5000	1.1320	87	3.09	0.0027	0.4036	0.05	1.2500	5.7500
4	8	4	9	-1.7500	0.7196	87	-2.43	0.0171	0.8641	0.05	-3.1803	-0.3197
4	8	4	10	-1.7500	0.7196	87	-2.43	0.0171	0.8641	0.05	-3.1803	-0.3197
4	8	5	5	9.2500	1.1320	87	8.17	<.0001	<.0001	0.05	7.0000	11.5000
4	8	5	6	8.0000	1.1320	87	7.07	<.0001	<.0001	0.05	5.7500	10.2500
4	8	5	7	7.2500	1.1320	87	6.40	<.0001	<.0001	0.05	5.0000	9.5000
4	8	5	8	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
4	8	5	9	5.0000	1.1320	87	4.42	<.0001	0.0116	0.05	2.7500	7.2500
4	8	5	10	3.2500	1.1320	87	2.87	0.0051	0.5684	0.05	1.0000	5.5000
4	8	6	5	8.7500	1.1320	87	7.73	<.0001	<.0001	0.05	6.5000	11.0000
4	8	6	6	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
4	8	6	7	6.5000	1.1320	87	5.74	<.0001	<.0001	0.05	4.2500	8.7500
4	8	6	8	6.0000	1.1320	87	5.30	<.0001	0.0004	0.05	3.7500	8.2500
4	8	6	9	6.0000	1.1320	87	5.30	<.0001	0.0004	0.05	3.7500	8.2500
4	8	6	10	5.2500	1.1320	87	4.64	<.0001	0.0054	0.05	3.0000	7.5000
4	9	4	10	2.5E-7	0.7196	87	0.00	1.0000	1.0000	0.05	-1.4303	1.4303
4	9	5	5	11.0000	1.1320	87	9.72	<.0001	<.0001	0.05	8.7500	13.2500
4	9	5	6	9.7500	1.1320	87	8.61	<.0001	<.0001	0.05	7.5000	12.0000
4	9	5	7	9.0000	1.1320	87	7.95	<.0001	<.0001	0.05	6.7500	11.2500
4	9	5	8	8.7500	1.1320	87	7.73	<.0001	<.0001	0.05	6.5000	11.0000
4	9	5	9	6.7500	1.1320	87	5.96	<.0001	<.0001	0.05	4.5000	9.0000

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
4	7	4	9	-6.3493	-0.6507
4	7	4	10	-6.3493	-0.6507
4	7	5	5	3.0177	11.9823
4	7	5	6	1.7677	10.7323
4	7	5	7	1.0177	9.9823
4	7	5	8	0.7677	9.7323
4	7	5	9	-1.2323	7.7323
4	7	5	10	-2.9823	5.9823
4	7	6	5	2.5177	11.4823
4	7	6	6	0.7677	9.7323
4	7	6	7	0.2677	9.2323
4	7	6	8	-0.2323	8.7323
4	7	6	9	-0.2323	8.7323
4	7	6	10	-0.9823	7.9823
4	8	4	9	-4.5993	1.0993
4	8	4	10	-4.5993	1.0993
4	8	5	5	4.7677	13.7323
4	8	5	6	3.5177	12.4823
4	8	5	7	2.7677	11.7323
4	8	5	8	2.5177	11.4823
4	8	5	9	0.5177	9.4823
4	8	5	10	-1.2323	7.7323
4	8	6	5	4.2677	13.2323
4	8	6	6	2.5177	11.4823
4	8	6	7	2.0177	10.9823
4	8	6	8	1.5177	10.4823
4	8	6	9	1.5177	10.4823
4	8	6	10	0.7677	9.7323
4	9	4	10	-2.8493	2.8493
4	9	5	5	6.5177	15.4823
4	9	5	6	5.2677	14.2323
4	9	5	7	4.5177	13.4823
4	9	5	8	4.2677	13.2323
4	9	5	9	2.2677	11.2323

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
4	9	5	10	5.0000	1.1320	87	4.42	<.0001	0.0116	0.05	2.7500	7.2500
4	9	6	5	10.5000	1.1320	87	9.28	<.0001	<.0001	0.05	8.2500	12.7500
4	9	6	6	8.7500	1.1320	87	7.73	<.0001	<.0001	0.05	6.5000	11.0000
4	9	6	7	8.2500	1.1320	87	7.29	<.0001	<.0001	0.05	6.0000	10.5000
4	9	6	8	7.7500	1.1320	87	6.85	<.0001	<.0001	0.05	5.5000	10.0000
4	9	6	9	7.7500	1.1320	87	6.85	<.0001	<.0001	0.05	5.5000	10.0000
4	9	6	10	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
4	10	5	5	11.0000	1.1320	87	9.72	<.0001	<.0001	0.05	8.7500	13.2500
4	10	5	6	9.7500	1.1320	87	8.61	<.0001	<.0001	0.05	7.5000	12.0000
4	10	5	7	9.0000	1.1320	87	7.95	<.0001	<.0001	0.05	6.7500	11.2500
4	10	5	8	8.7500	1.1320	87	7.73	<.0001	<.0001	0.05	6.5000	11.0000
4	10	5	9	6.7500	1.1320	87	5.96	<.0001	<.0001	0.05	4.5000	9.0000
4	10	5	10	5.0000	1.1320	87	4.42	<.0001	0.0116	0.05	2.7500	7.2500
4	10	6	5	10.5000	1.1320	87	9.28	<.0001	<.0001	0.05	8.2500	12.7500
4	10	6	6	8.7500	1.1320	87	7.73	<.0001	<.0001	0.05	6.5000	11.0000
4	10	6	7	8.2500	1.1320	87	7.29	<.0001	<.0001	0.05	6.0000	10.5000
4	10	6	8	7.7500	1.1320	87	6.85	<.0001	<.0001	0.05	5.5000	10.0000
4	10	6	9	7.7500	1.1320	87	6.85	<.0001	<.0001	0.05	5.5000	10.0000
4	10	6	10	7.0000	1.1320	87	6.18	<.0001	<.0001	0.05	4.7500	9.2500
5	5	5	6	-1.2500	0.7196	87	-1.74	0.0859	0.9983	0.05	-2.6803	0.1803
5	5	5	7	-2.0000	0.7196	87	-2.78	0.0067	0.6384	0.05	-3.4303	-0.5697
5	5	5	8	-2.2500	0.7196	87	-3.13	0.0024	0.3793	0.05	-3.6803	-0.8197
5	5	5	9	-4.2500	0.7196	87	-5.91	<.0001	<.0001	0.05	-5.6803	-2.8197
5	5	5	10	-6.0000	0.7196	87	-8.34	<.0001	<.0001	0.05	-7.4303	-4.5697
5	5	6	5	-0.5000	1.1320	87	-0.44	0.6598	1.0000	0.05	-2.7500	1.7500
5	5	6	6	-2.2500	1.1320	87	-1.99	0.0500	0.9863	0.05	-4.5000	-0.00001
5	5	6	7	-2.7500	1.1320	87	-2.43	0.0172	0.8654	0.05	-5.0000	-0.5000
5	5	6	8	-3.2500	1.1320	87	-2.87	0.0051	0.5684	0.05	-5.5000	-1.0000
5	5	6	9	-3.2500	1.1320	87	-2.87	0.0051	0.5684	0.05	-5.5000	-1.0000
5	5	6	10	-4.0000	1.1320	87	-3.53	0.0007	0.1591	0.05	-6.2500	-1.7500
5	6	5	7	-0.7500	0.7196	87	-1.04	0.3002	1.0000	0.05	-2.1803	0.6803
5	6	5	8	-1.0000	0.7196	87	-1.39	0.1682	1.0000	0.05	-2.4303	0.4303
5	6	5	9	-3.0000	0.7196	87	-4.17	<.0001	0.0262	0.05	-4.4303	-1.5697
5	6	5	10	-4.7500	0.7196	87	-6.60	<.0001	<.0001	0.05	-6.1803	-3.3197

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
4	9	5	10	0.5177	9.4823
4	9	6	5	6.0177	14.9823
4	9	6	6	4.2677	13.2323
4	9	6	7	3.7677	12.7323
4	9	6	8	3.2677	12.2323
4	9	6	9	3.2677	12.2323
4	9	6	10	2.5177	11.4823
4	10	5	5	6.5177	15.4823
4	10	5	6	5.2677	14.2323
4	10	5	7	4.5177	13.4823
4	10	5	8	4.2677	13.2323
4	10	5	9	2.2677	11.2323
4	10	5	10	0.5177	9.4823
4	10	6	5	6.0177	14.9823
4	10	6	6	4.2677	13.2323
4	10	6	7	3.7677	12.7323
4	10	6	8	3.2677	12.2323
4	10	6	9	3.2677	12.2323
4	10	6	10	2.5177	11.4823
5	5	5	6	-4.0993	1.5993
5	5	5	7	-4.8493	0.8493
5	5	5	8	-5.0993	0.5993
5	5	5	9	-7.0993	-1.4007
5	5	5	10	-8.8493	-3.1507
5	5	6	5	-4.9823	3.9823
5	5	6	6	-6.7323	2.2323
5	5	6	7	-7.2323	1.7323
5	5	6	8	-7.7323	1.2323
5	5	6	9	-7.7323	1.2323
5	5	6	10	-8.4823	0.4823
5	6	5	7	-3.5993	2.0993
5	6	5	8	-3.8493	1.8493
5	6	5	9	-5.8493	-0.1507
5	6	5	10	-7.5993	-1.9007

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
5	6	6	5	0.7500	1.1320	87	0.66	0.5094	1.0000	0.05	-1.5000	3.0000
5	6	6	6	-1.0000	1.1320	87	-0.88	0.3795	1.0000	0.05	-3.2500	1.2500
5	6	6	7	-1.5000	1.1320	87	-1.33	0.1886	1.0000	0.05	-3.7500	0.7500
5	6	6	8	-2.0000	1.1320	87	-1.77	0.0808	0.9977	0.05	-4.2500	0.2500
5	6	6	9	-2.0000	1.1320	87	-1.77	0.0808	0.9977	0.05	-4.2500	0.2500
5	6	6	10	-2.7500	1.1320	87	-2.43	0.0172	0.8654	0.05	-5.0000	-0.5000
5	7	5	8	-0.2500	0.7196	87	-0.35	0.7291	1.0000	0.05	-1.6803	1.1803
5	7	5	9	-2.2500	0.7196	87	-3.13	0.0024	0.3793	0.05	-3.6803	-0.8197
5	7	5	10	-4.0000	0.7196	87	-5.56	<.0001	0.0002	0.05	-5.4303	-2.5697
5	7	6	5	1.5000	1.1320	87	1.33	0.1886	1.0000	0.05	-0.7500	3.7500
5	7	6	6	-0.2500	1.1320	87	-0.22	0.8257	1.0000	0.05	-2.5000	2.0000
5	7	6	7	-0.7500	1.1320	87	-0.66	0.5094	1.0000	0.05	-3.0000	1.5000
5	7	6	8	-1.2500	1.1320	87	-1.10	0.2725	1.0000	0.05	-3.5000	1.0000
5	7	6	9	-1.2500	1.1320	87	-1.10	0.2725	1.0000	0.05	-3.5000	1.0000
5	7	6	10	-2.0000	1.1320	87	-1.77	0.0808	0.9977	0.05	-4.2500	0.2500
5	8	5	9	-2.0000	0.7196	87	-2.78	0.0067	0.6384	0.05	-3.4303	-0.5697
5	8	5	10	-3.7500	0.7196	87	-5.21	<.0001	0.0006	0.05	-5.1803	-2.3197
5	8	6	5	1.7500	1.1320	87	1.55	0.1258	0.9998	0.05	-0.5000	4.0000
5	8	6	6	-54E-13	1.1320	87	-0.00	1.0000	1.0000	0.05	-2.2500	2.2500
5	8	6	7	-0.5000	1.1320	87	-0.44	0.6598	1.0000	0.05	-2.7500	1.7500
5	8	6	8	-1.0000	1.1320	87	-0.88	0.3795	1.0000	0.05	-3.2500	1.2500
5	8	6	9	-1.0000	1.1320	87	-0.88	0.3795	1.0000	0.05	-3.2500	1.2500
5	8	6	10	-1.7500	1.1320	87	-1.55	0.1258	0.9998	0.05	-4.0000	0.5000
5	9	5	10	-1.7500	0.7196	87	-2.43	0.0171	0.8641	0.05	-3.1803	-0.3197
5	9	6	5	3.7500	1.1320	87	3.31	0.0013	0.2633	0.05	1.5000	6.0000
5	9	6	6	2.0000	1.1320	87	1.77	0.0808	0.9977	0.05	-0.2500	4.2500
5	9	6	7	1.5000	1.1320	87	1.33	0.1886	1.0000	0.05	-0.7500	3.7500
5	9	6	8	1.0000	1.1320	87	0.88	0.3795	1.0000	0.05	-1.2500	3.2500
5	9	6	9	1.0000	1.1320	87	0.88	0.3795	1.0000	0.05	-1.2500	3.2500
5	9	6	10	0.2500	1.1320	87	0.22	0.8257	1.0000	0.05	-2.0000	2.5000
5	10	6	5	5.5000	1.1320	87	4.86	<.0001	0.0024	0.05	3.2500	7.7500
5	10	6	6	3.7500	1.1320	87	3.31	0.0013	0.2633	0.05	1.5000	6.0000
5	10	6	7	3.2500	1.1320	87	2.87	0.0051	0.5684	0.05	1.0000	5.5000
5	10	6	8	2.7500	1.1320	87	2.43	0.0172	0.8654	0.05	0.5000	5.0000

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
5	6	6	5	-3.7323	5.2323
5	6	6	6	-5.4823	3.4823
5	6	6	7	-5.9823	2.9823
5	6	6	8	-6.4823	2.4823
5	6	6	9	-6.4823	2.4823
5	6	6	10	-7.2323	1.7323
5	7	5	8	-3.0993	2.5993
5	7	5	9	-5.0993	0.5993
5	7	5	10	-6.8493	-1.1507
5	7	6	5	-2.9823	5.9823
5	7	6	6	-4.7323	4.2323
5	7	6	7	-5.2323	3.7323
5	7	6	8	-5.7323	3.2323
5	7	6	9	-5.7323	3.2323
5	7	6	10	-6.4823	2.4823
5	8	5	9	-4.8493	0.8493
5	8	5	10	-6.5993	-0.9007
5	8	6	5	-2.7323	6.2323
5	8	6	6	-4.4823	4.4823
5	8	6	7	-4.9823	3.9823
5	8	6	8	-5.4823	3.4823
5	8	6	9	-5.4823	3.4823
5	8	6	10	-6.2323	2.7323
5	9	5	10	-4.5993	1.0993
5	9	6	5	-0.7323	8.2323
5	9	6	6	-2.4823	6.4823
5	9	6	7	-2.9823	5.9823
5	9	6	8	-3.4823	5.4823
5	9	6	9	-3.4823	5.4823
5	9	6	10	-4.2323	4.7323
5	10	6	5	1.0177	9.9823
5	10	6	6	-0.7323	8.2323
5	10	6	7	-1.2323	7.7323
5	10	6	8	-1.7323	7.2323

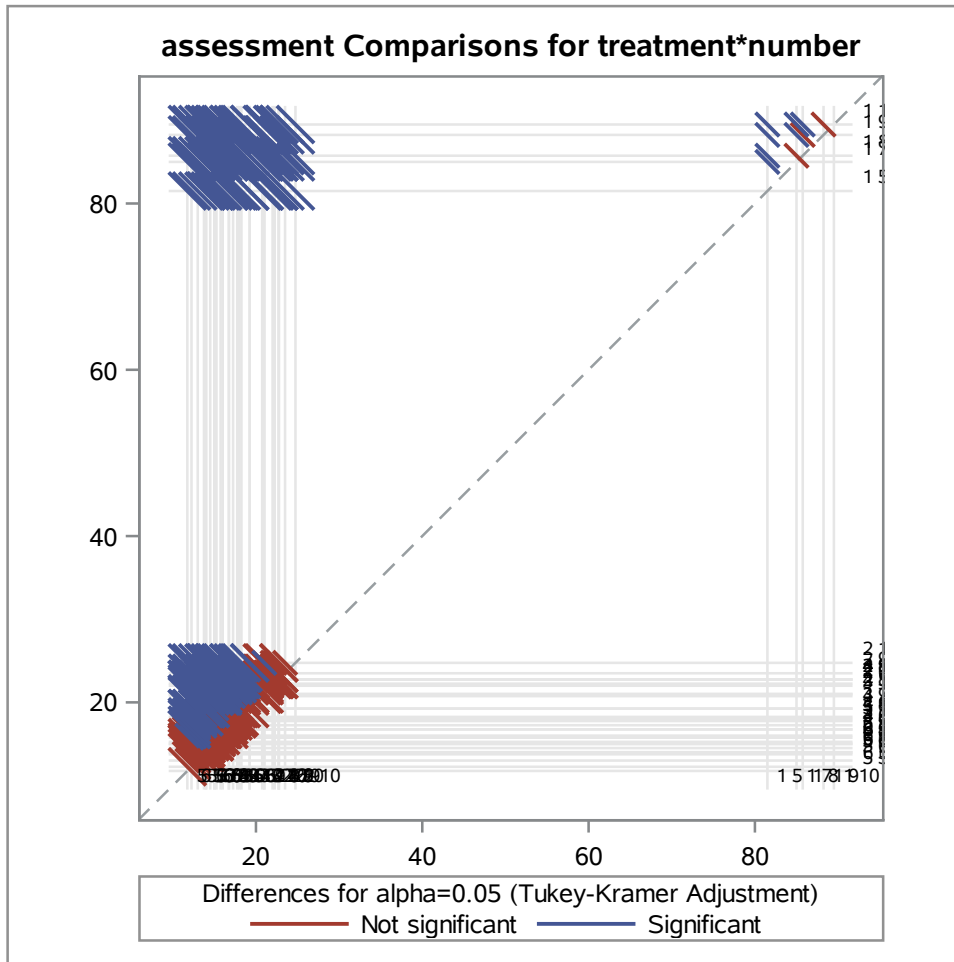
The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer												
treatment	number	_treatment	_number	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper
5	10	6	9	2.7500	1.1320	87	2.43	0.0172	0.8654	0.05	0.5000	5.0000
5	10	6	10	2.0000	1.1320	87	1.77	0.0808	0.9977	0.05	-0.2500	4.2500
6	5	6	6	-1.7500	0.7196	87	-2.43	0.0171	0.8641	0.05	-3.1803	-0.3197
6	5	6	7	-2.2500	0.7196	87	-3.13	0.0024	0.3793	0.05	-3.6803	-0.8197
6	5	6	8	-2.7500	0.7196	87	-3.82	0.0002	0.0745	0.05	-4.1803	-1.3197
6	5	6	9	-2.7500	0.7196	87	-3.82	0.0002	0.0745	0.05	-4.1803	-1.3197
6	5	6	10	-3.5000	0.7196	87	-4.86	<.0001	0.0023	0.05	-4.9303	-2.0697
6	6	6	7	-0.5000	0.7196	87	-0.69	0.4890	1.0000	0.05	-1.9303	0.9303
6	6	6	8	-1.0000	0.7196	87	-1.39	0.1682	1.0000	0.05	-2.4303	0.4303
6	6	6	9	-1.0000	0.7196	87	-1.39	0.1682	1.0000	0.05	-2.4303	0.4303
6	6	6	10	-1.7500	0.7196	87	-2.43	0.0171	0.8641	0.05	-3.1803	-0.3197
6	7	6	8	-0.5000	0.7196	87	-0.69	0.4890	1.0000	0.05	-1.9303	0.9303
6	7	6	9	-0.5000	0.7196	87	-0.69	0.4890	1.0000	0.05	-1.9303	0.9303
6	7	6	10	-1.2500	0.7196	87	-1.74	0.0859	0.9983	0.05	-2.6803	0.1803
6	8	6	9	2.16E-14	0.7196	87	0.00	1.0000	1.0000	0.05	-1.4303	1.4303
6	8	6	10	-0.7500	0.7196	87	-1.04	0.3002	1.0000	0.05	-2.1803	0.6803
6	9	6	10	-0.7500	0.7196	87	-1.04	0.3002	1.0000	0.05	-2.1803	0.6803

The PLM Procedure

Differences of treatment*number Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer					
treatment	number	_treatment	_number	Adj Lower	Adj Upper
5	10	6	9	-1.7323	7.2323
5	10	6	10	-2.4823	6.4823
6	5	6	6	-4.5993	1.0993
6	5	6	7	-5.0993	0.5993
6	5	6	8	-5.5993	0.09933
6	5	6	9	-5.5993	0.09933
6	5	6	10	-6.3493	-0.6507
6	6	6	7	-3.3493	2.3493
6	6	6	8	-3.8493	1.8493
6	6	6	9	-3.8493	1.8493
6	6	6	10	-4.5993	1.0993
6	7	6	8	-3.3493	2.3493
6	7	6	9	-3.3493	2.3493
6	7	6	10	-4.0993	1.5993
6	8	6	9	-2.8493	2.8493
6	8	6	10	-3.5993	2.0993
6	9	6	10	-3.5993	2.0993

The PLM Procedure



Conservative Tukey-Kramer Grouping for treatment*number Least Squares Means (Alpha=0.05)

LS-means with the same letter are not significantly different.

treatment	number	Estimate					
1	10	89.5000				A	
						A	
1	9	88.2500	B			A	
			B				
1	8	85.7500	B			C	
						C	
1	7	85.0000				C	
1	5	81.5000				D	
2	10	24.7500				E	
						E	
2	9	23.5000	F			E	
			F			E	

The PLM Procedure

Conservative Tukey-Kramer Grouping for treatment*number Least Squares Means (Alpha=0.05)								
LS-means with the same letter are not significantly different.								
treatment	number	Estimate						
4	9	22.7500		F		E		
				F		E		
2	8	22.7500		F		E		
				F		E		
4	10	22.7500		F		E		
				F		E		
2	7	22.2500		F		E	G	
				F		E	G	
2	6	22.0000		F	H	E	G	
				F	H	E	G	
4	8	21.0000	I	F	H	E	G	
			I	F	H	E	G	
2	5	21.0000	I	F	H	E	G	
			I	F	H	E	G	
3	10	20.7500	I	F	H	E	G	
			I	F	H		G	
3	9	19.2500	I	F	H	J	G	
			I	F	H	J	G	
4	7	19.2500	I	F	H	J	G	
			I		H	J	G	
4	6	18.2500	I	K	H	J	G	
			I	K	H	J	G	
3	8	18.0000	I	K	H	J	G	L
			I	K	H	J		L
5	10	17.7500	I	K	H	J		L
			I	K		J		L
3	7	17.2500	I	K		J	M	L
			I	K		J	M	L
4	5	16.7500	I	K		J	M	L
			I	K		J	M	L
3	6	16.7500	I	K		J	M	L
				K		J	M	L
5	9	16.0000		K	N	J	M	L
				K	N	J	M	L

The PLM Procedure

Conservative Tukey-Kramer Grouping for treatment*number Least Squares Means (Alpha=0.05)								
LS-means with the same letter are not significantly different.								
treatment	number	Estimate						
6	10	15.7500	O	K	N	J	M	L
			O	K	N	J	M	L
3	5	15.2500	O	K	N	J	M	L
			O	K	N	J	M	L
6	8	15.0000	O	K	N	J	M	L
			O	K	N	J	M	L
6	9	15.0000	O	K	N	J	M	L
			O	K	N		M	L
6	7	14.5000	O	K	N		M	L
			O	K	N		M	L
6	6	14.0000	O	K	N		M	L
			O	K	N		M	L
5	8	14.0000	O	K	N		M	L
			O		N		M	L
5	7	13.7500	O		N		M	L
			O		N		M	
5	6	13.0000	O		N		M	
			O		N			
6	5	12.2500	O		N			
			O					
5	5	11.7500	O					

Split Plot - MIVQUE Variance components**Variance Components Estimation Procedure**

Class Level Information		
Class	Levels	Values
replicate	4	1 2 3 4
treatment	6	1 2 3 4 5 6
number	6	5 6 7 8 9 10

Number of Observations Read	144
Number of Observations Used	140

MIVQUE(0) SSQ Matrix				
Source	replicate	replicate*treatment	Error	assessment
replicate	3675.0	615.00000	105.00000	780.00019
replicate*treatment	615.00000	615.00000	105.00000	1022.0
Error	105.00000	105.00000	105.00000	267.00008

MIVQUE(0) Estimates	
Variance Component	assessment
Var(replicate)	-0.07909
Var(replicate*treatment)	1.55948
Var(Error)	1.06247

The GLM Procedure

Class Level Information		
Class	Levels	Values
replicate	4	1 2 3 4
treatment	6	1 2 3 4 5 6

Number of Observations Read	24
Number of Observations Used	20

The GLM Procedure

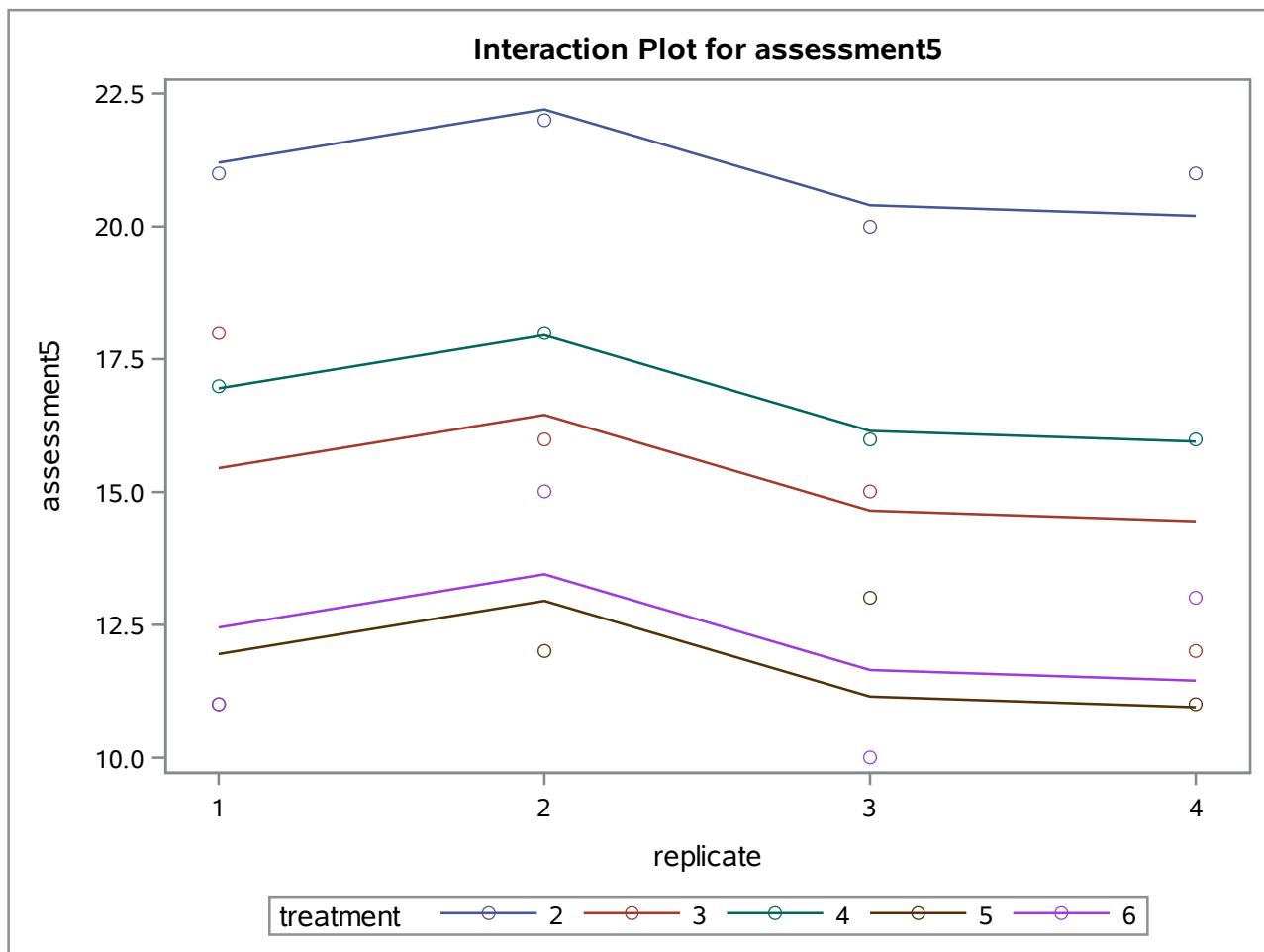
Dependent Variable: assessment5

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	238.2000524	34.0285789	14.28	<.0001
Error	12	28.6000080	2.3833340		
Corrected Total	19	266.8000604			

R-Square	Coeff Var	Root MSE	assessment5 Mean
0.892804	10.02471	1.543805	15.40000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
replicate	3	12.4000040	4.1333347	1.73	0.2131
treatment	4	225.8000484	56.4500121	23.69	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
replicate	3	12.4000040	4.1333347	1.73	0.2131
treatment	4	225.8000484	56.4500121	23.69	<.0001



The GLM Procedure

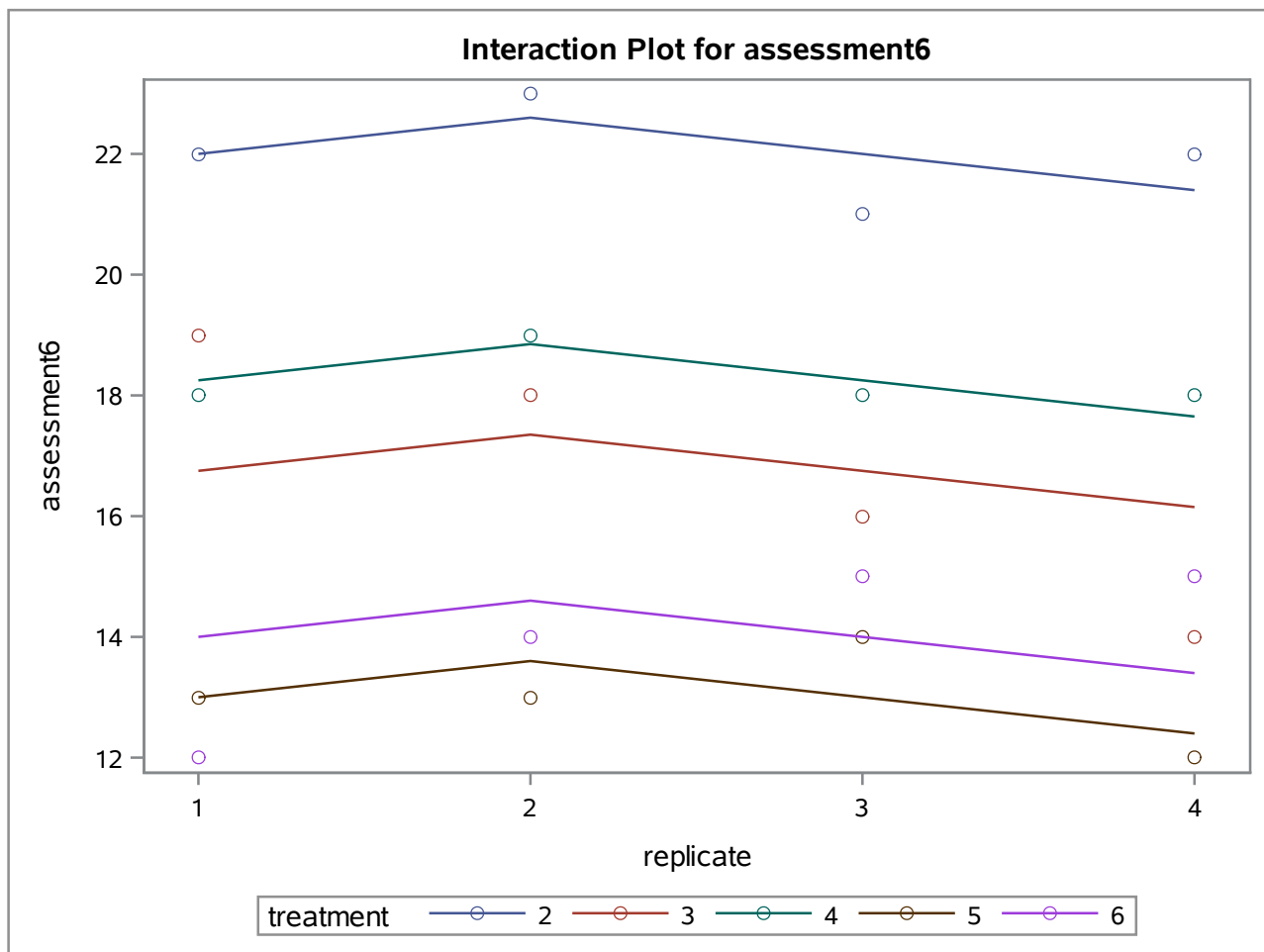
Dependent Variable: assessment6

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	209.3000417	29.9000060	16.38	<.0001
Error	12	21.9000095	1.8250008		
Corrected Total	19	231.2000512			

R-Square	Coeff Var	Root MSE	assessment6 Mean
0.905277	8.041225	1.350926	16.80000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
replicate	3	3.6000000	1.2000000	0.66	0.5937
treatment	4	205.7000417	51.4250104	28.18	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
replicate	3	3.6000000	1.2000000	0.66	0.5937
treatment	4	205.7000417	51.4250104	28.18	<.0001



The GLM Procedure

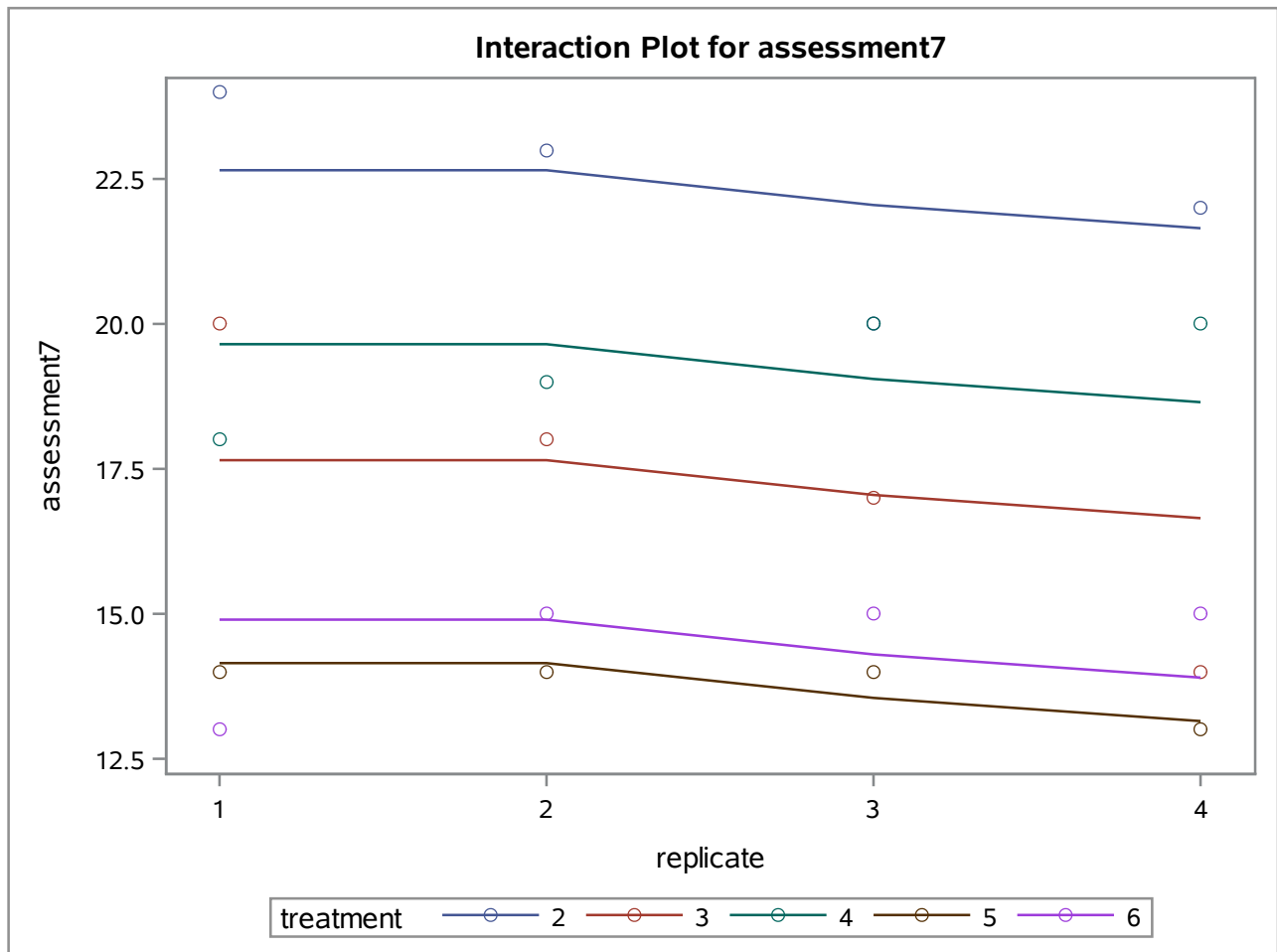
Dependent Variable: assessment7

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	198.4000357	28.3428622	11.19	0.0002
Error	12	30.4000091	2.5333341		
Corrected Total	19	228.8000448			

R-Square	Coeff Var	Root MSE	assessment7 Mean
0.867133	9.147385	1.591645	17.40000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
replicate	3	3.6000004	1.2000001	0.47	0.7063
treatment	4	194.8000353	48.7000088	19.22	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
replicate	3	3.6000004	1.2000001	0.47	0.7063
treatment	4	194.8000353	48.7000088	19.22	<.0001



The GLM Procedure

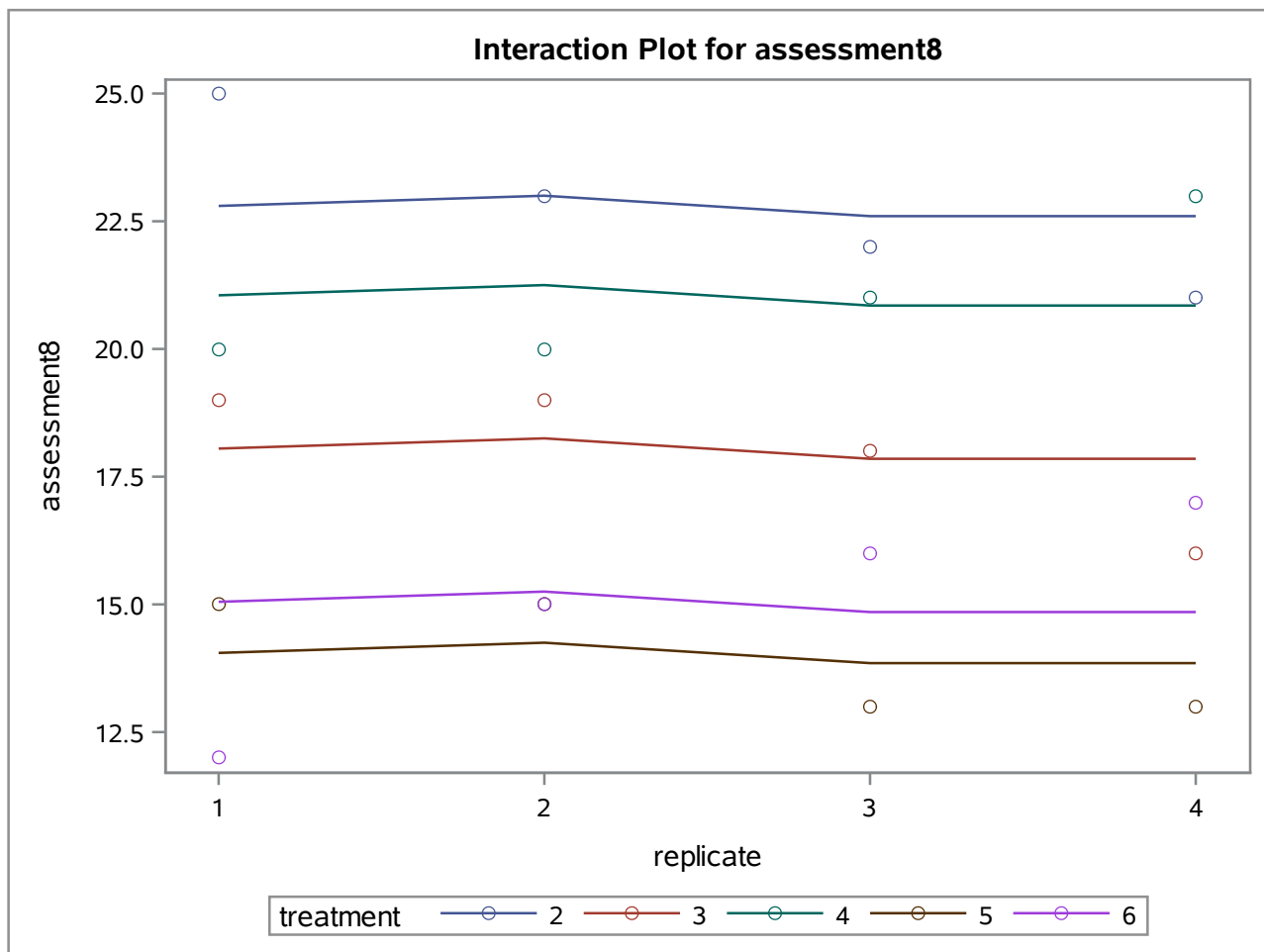
Dependent Variable: assessment8

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	226.3500327	32.3357190	10.16	0.0003
Error	12	38.2000139	3.1833345		
Corrected Total	19	264.5500466			

R-Square	Coeff Var	Root MSE	assessment8 Mean
0.855604	9.830248	1.784190	18.15000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
replicate	3	0.5500006	0.1833335	0.06	0.9810
treatment	4	225.8000321	56.4500080	17.73	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
replicate	3	0.5500006	0.1833335	0.06	0.9810
treatment	4	225.8000321	56.4500080	17.73	<.0001



The GLM Procedure

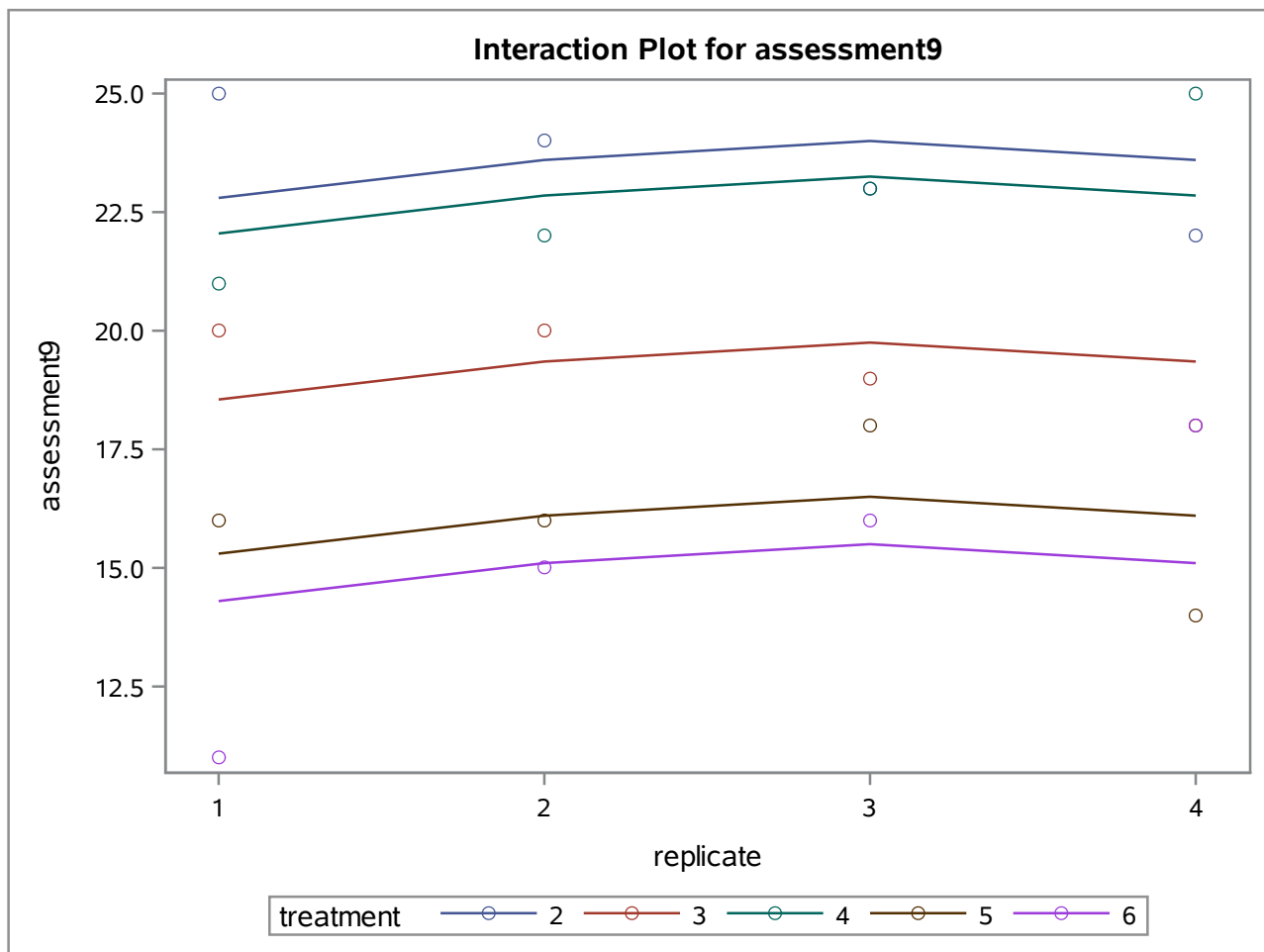
Dependent Variable: assessment9

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	239.5000305	34.2142901	8.79	0.0006
Error	12	46.7000195	3.8916683		
Corrected Total	19	286.2000500			

R-Square	Coeff Var	Root MSE	assessment9 Mean
0.836827	10.22140	1.972731	19.30000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
replicate	3	3.8000000	1.2666667	0.33	0.8070
treatment	4	235.7000305	58.9250076	15.14	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
replicate	3	3.8000000	1.2666667	0.33	0.8070
treatment	4	235.7000305	58.9250076	15.14	0.0001



The GLM Procedure

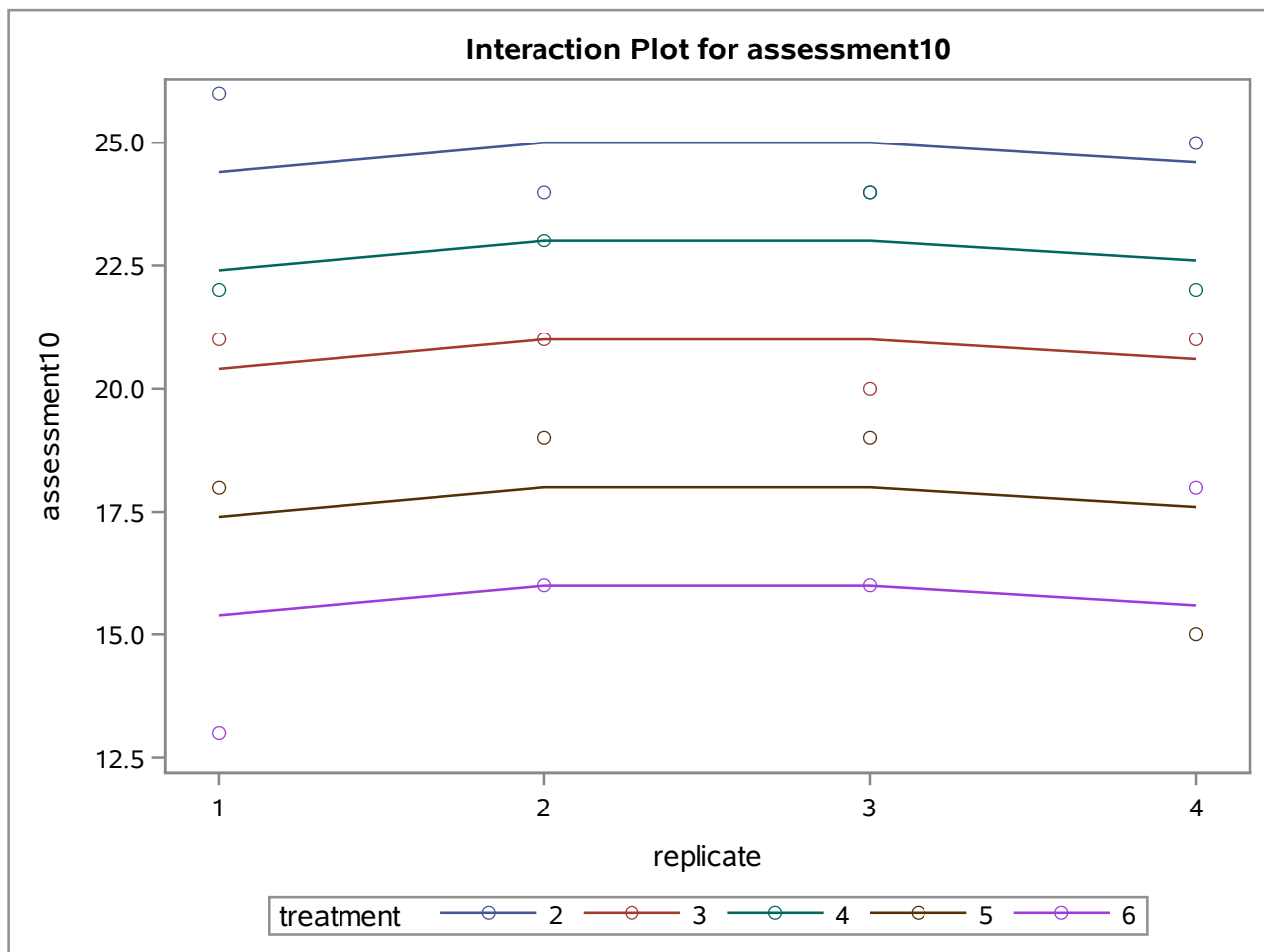
Dependent Variable: assessment10

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	214.1500265	30.5928609	12.93	<.0001
Error	12	28.4000088	2.3666674		
Corrected Total	19	242.5500353			

R-Square	Coeff Var	Root MSE	assessment10 Mean
0.882911	7.559693	1.538398	20.35000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
replicate	3	1.3499997	0.4499999	0.19	0.9011
treatment	4	212.8000268	53.2000067	22.48	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
replicate	3	1.3499997	0.4499999	0.19	0.9011
treatment	4	212.8000268	53.2000067	22.48	<.0001



The GLM Procedure
Repeated Measures Analysis of Variance

Repeated Measures Level Information						
Dependent Variable	assessment5	assessment6	assessment7	assessment8	assessment9	assessment10
Level of time	1	2	3	4	5	6

Partial Correlation Coefficients from the Error SSCP Matrix / Prob > |r|						
DF = 12	assessment5	assessment6	assessment7	assessment8	assessment9	assessment10
assessment5	1.000000 0.0142	0.659294 0.0142	0.591801 0.0331	0.223881 0.4622	0.424121 0.1486	0.280703 0.3529
assessment6	0.659294 0.0142	1.000000	0.813880 0.0007	0.580839 0.0374	0.703561 0.0073	0.473152 0.1025
assessment7	0.591801 0.0331	0.813880 0.0007	1.000000	0.735088 0.0042	0.729856 0.0046	0.442433 0.1301
assessment8	0.223881 0.4622	0.580839 0.0374	0.735088 0.0042	1.000000	0.876015 <.0001	0.534345 0.0599
assessment9	0.424121 0.1486	0.703561 0.0073	0.729856 0.0046	0.876015 <.0001	1.000000	0.702947 0.0074
assessment10	0.280703 0.3529	0.473152 0.1025	0.442433 0.1301	0.534345 0.0599	0.702947 0.0074	1.000000

time_N represents the contrast between the nth level of time and the last

M Matrix Describing Transformed Variables						
	assessment5	assessment6	assessment7	assessment8	assessment9	assessment10
time_1	1.000000000	0.000000000	0.000000000	0.000000000	0.000000000	-1.000000000
time_2	0.000000000	1.000000000	0.000000000	0.000000000	0.000000000	-1.000000000
time_3	0.000000000	0.000000000	1.000000000	0.000000000	0.000000000	-1.000000000
time_4	0.000000000	0.000000000	0.000000000	1.000000000	0.000000000	-1.000000000
time_5	0.000000000	0.000000000	0.000000000	0.000000000	1.000000000	-1.000000000

E = Error SSCP Matrix

time_N represents the contrast between the nth level of time and the last

	time_1	time_2	time_3	time_4	time_5
time_1	41.00	25.10	24.85	10.20	10.30
time_2	25.10	26.70	24.60	15.80	13.50
time_3	24.85	24.60	32.80	22.85	17.30
time_4	10.20	15.80	22.85	31.40	22.20
time_5	10.30	13.50	17.30	22.20	23.90

The GLM Procedure
Repeated Measures Analysis of Variance

Partial Correlation Coefficients from the Error SSCP Matrix of the Variables Defined by the Specified Transformation / Prob > |r|					
DF = 12	time_1	time_2	time_3	time_4	time_5
time_1	1.000000	0.758623 0.0026	0.677638 0.0109	0.284278 0.3465	0.329038 0.2723
time_2	0.758623 0.0026	1.000000	0.831271 0.0004	0.545678 0.0537	0.534416 0.0599
time_3	0.677638 0.0109	0.831271 0.0004	1.000000	0.712007 0.0063	0.617889 0.0244
time_4	0.284278 0.3465	0.545678 0.0537	0.712007 0.0063	1.000000	0.810381 0.0008
time_5	0.329038 0.2723	0.534416 0.0599	0.617889 0.0244	0.810381 0.0008	1.000000

Sphericity Tests				
Variables	DF	Mauchly's Criterion	Chi-Square	Pr > ChiSq
Transformed Variates	14	0.0161933	41.643864	0.0001
Orthogonal Components	14	0.1755048	17.574899	0.2268

MANOVA Test Criteria and Exact F Statistics for the Hypothesis of no time Effect H = Type III SSCP Matrix for time E = Error SSCP Matrix S=1 M=1.5 N=3					
Statistic	Value	F Value	Num DF	Den DF	Pr > F
Wilks' Lambda	0.05707047	26.44	5	8	<.0001
Pillai's Trace	0.94292953	26.44	5	8	<.0001
Hotelling-Lawley Trace	16.52219725	26.44	5	8	<.0001
Roy's Greatest Root	16.52219725	26.44	5	8	<.0001

MANOVA Test Criteria and F Approximations for the Hypothesis of no time*replicate Effect H = Type III SSCP Matrix for time*replicate E = Error SSCP Matrix S=3 M=0.5 N=3					
Statistic	Value	F Value	Num DF	Den DF	Pr > F
Wilks' Lambda	0.43593683	0.53	15	22.486	0.8988
Pillai's Trace	0.66060099	0.56	15	30	0.8785
Hotelling-Lawley Trace	1.08087601	0.53	15	10.704	0.8722
Roy's Greatest Root	0.85240832	1.70	5	10	0.2210
NOTE: F Statistic for Roy's Greatest Root is an upper bound.					

The GLM Procedure
Repeated Measures Analysis of Variance

MANOVA Test Criteria and F Approximations for the Hypothesis of no time*treatment Effect H = Type III SSCP Matrix for time*treatment E = Error SSCP Matrix S=4 M=0 N=3					
Statistic	Value	F Value	Num DF	Den DF	Pr > F
Wilks' Lambda	0.20599756	0.84	20	27.483	0.6536
Pillai's Trace	1.09111913	0.83	20	44	0.6720
Hotelling-Lawley Trace	2.53380559	0.92	20	11.512	0.5811
Roy's Greatest Root	1.94780546	4.29	5	11	0.0208
NOTE: F Statistic for Roy's Greatest Root is an upper bound.					

The GLM Procedure
Repeated Measures Analysis of Variance
Tests of Hypotheses for Between Subjects Effects

Source	DF	Type III SS	Mean Square	F Value	Pr > F
replicate	3	10.733336	3.577779	0.34	0.7975
treatment	4	1263.133545	315.783386	29.93	<.0001
Error	12	126.600045	10.550004		

The GLM Procedure
Repeated Measures Analysis of Variance
Univariate Tests of Hypotheses for Within Subject Effects

Source	DF	Type III SS	Mean Square	F Value	Pr > F	Adj Pr > F	
						G - G	H-F-L
time	5	314.7000653	62.9400131	55.86	<.0001	<.0001	<.0001
time*replicate	15	14.5666688	0.9711113	0.86	0.6078	0.5661	0.5908
time*treatment	20	37.4666700	1.8733335	1.66	0.0670	0.1182	0.0864
Error(time)	60	67.6000243	1.1266671				

Greenhouse-Geisser Epsilon	0.5964
Huynh-Feldt-Lecoutre Epsilon	0.8155

The GLM Procedure
Repeated Measures Analysis of Variance
Analysis of Variance of Contrast Variables

time_N represents the contrast between the nth level of time and the last

Contrast Variable: time_1

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Mean	1	490.0500891	490.0500891	143.43	<.0001
replicate	3	11.7500045	3.9166682	1.15	0.3701
treatment	4	24.1999989	6.0499997	1.77	0.1995
Error	12	41.0000135	3.4166678		

Contrast Variable: time_2

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Mean	1	252.0500568	252.0500568	113.28	<.0001
replicate	3	2.5500004	0.8500001	0.38	0.7678
treatment	4	25.7000037	6.4250009	2.89	0.0690
Error	12	26.7000091	2.2250008		

Contrast Variable: time_3

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Mean	1	174.0500413	174.0500413	63.68	<.0001
replicate	3	4.9500003	1.6500001	0.60	0.6250
treatment	4	19.2000077	4.8000019	1.76	0.2025
Error	12	32.8000067	2.7333339		

Contrast Variable: time_4

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Mean	1	96.80001320	96.80001320	36.99	<.0001
replicate	3	1.60000080	0.53333360	0.20	0.8918
treatment	4	20.20000580	5.05000145	1.93	0.1700
Error	12	31.40000420	2.61666702		

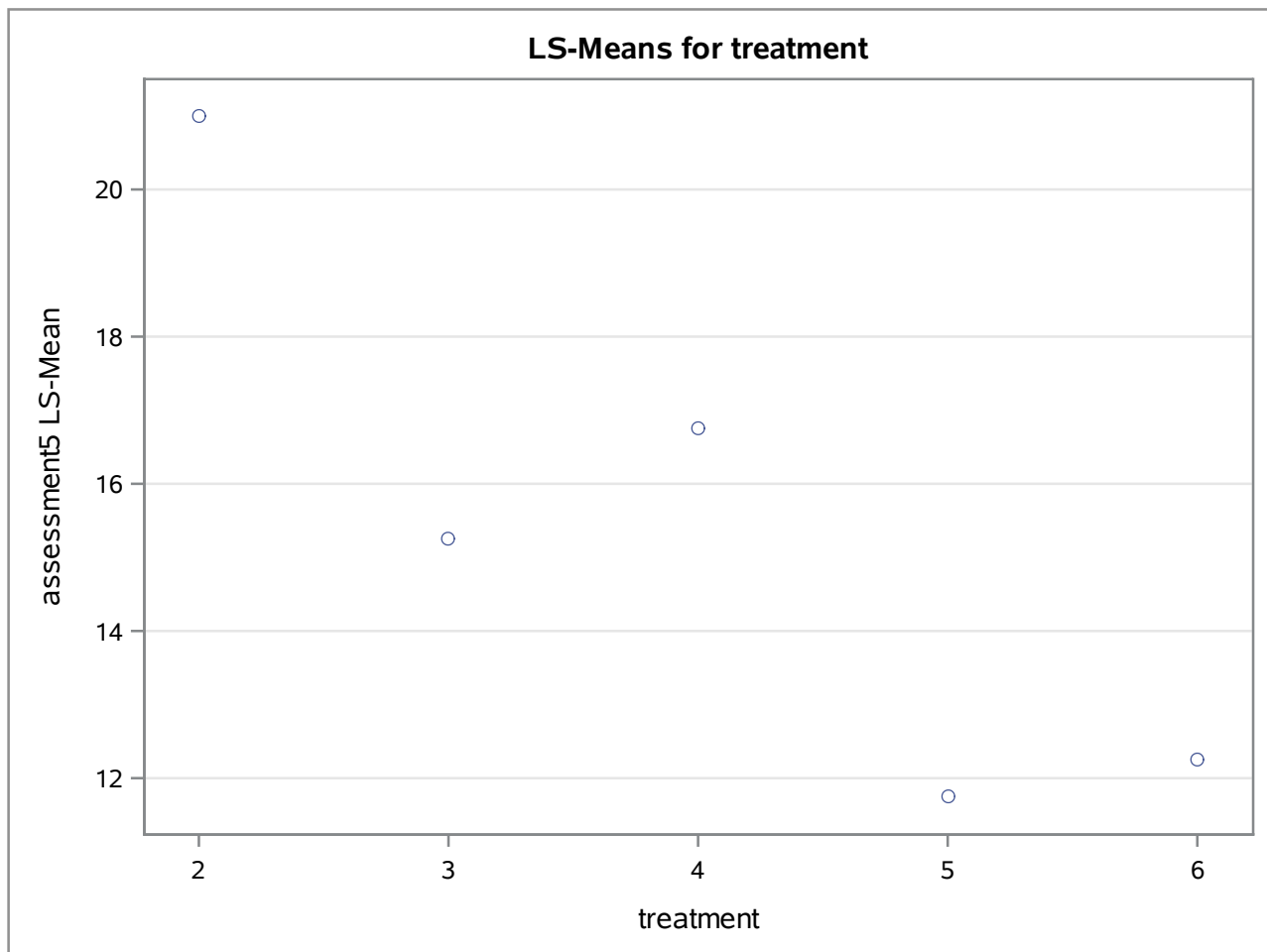
Contrast Variable: time_5

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Mean	1	22.05000210	22.05000210	11.07	0.0060
replicate	3	1.34999950	0.44999983	0.23	0.8765
treatment	4	7.70000390	1.92500098	0.97	0.4608
Error	12	23.90000850	1.99166738		

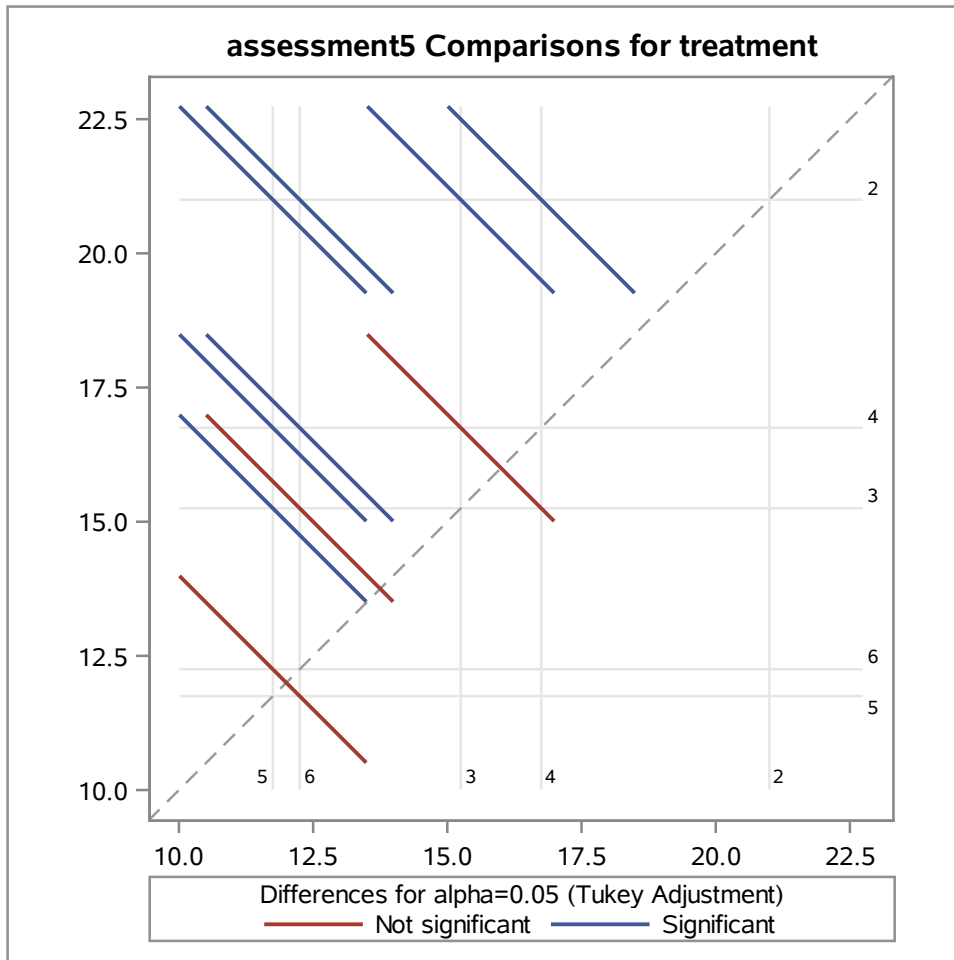
The GLM Procedure
 Least Squares Means
 Adjustment for Multiple Comparisons: Tukey

treatment	assessment5 LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
2	21.0000020	0.7719025	<.0001	1
3	15.2500018	0.7719025	<.0001	2
4	16.7500020	0.7719025	<.0001	3
5	11.7500010	0.7719025	<.0001	4
6	12.2500013	0.7719025	<.0001	5

Least Squares Means for effect treatment Pr > |t| for H0: LSMean(i)=LSMean(j)					
Dependent Variable: assessment5					
i/j	1	2	3	4	5
1		0.0015	0.0149	<.0001	<.0001
2	0.0015		0.6540	0.0484	0.1041
3	0.0149	0.6540		0.0047	0.0101
4	<.0001	0.0484	0.0047		0.9898
5	<.0001	0.1041	0.0101	0.9898	



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

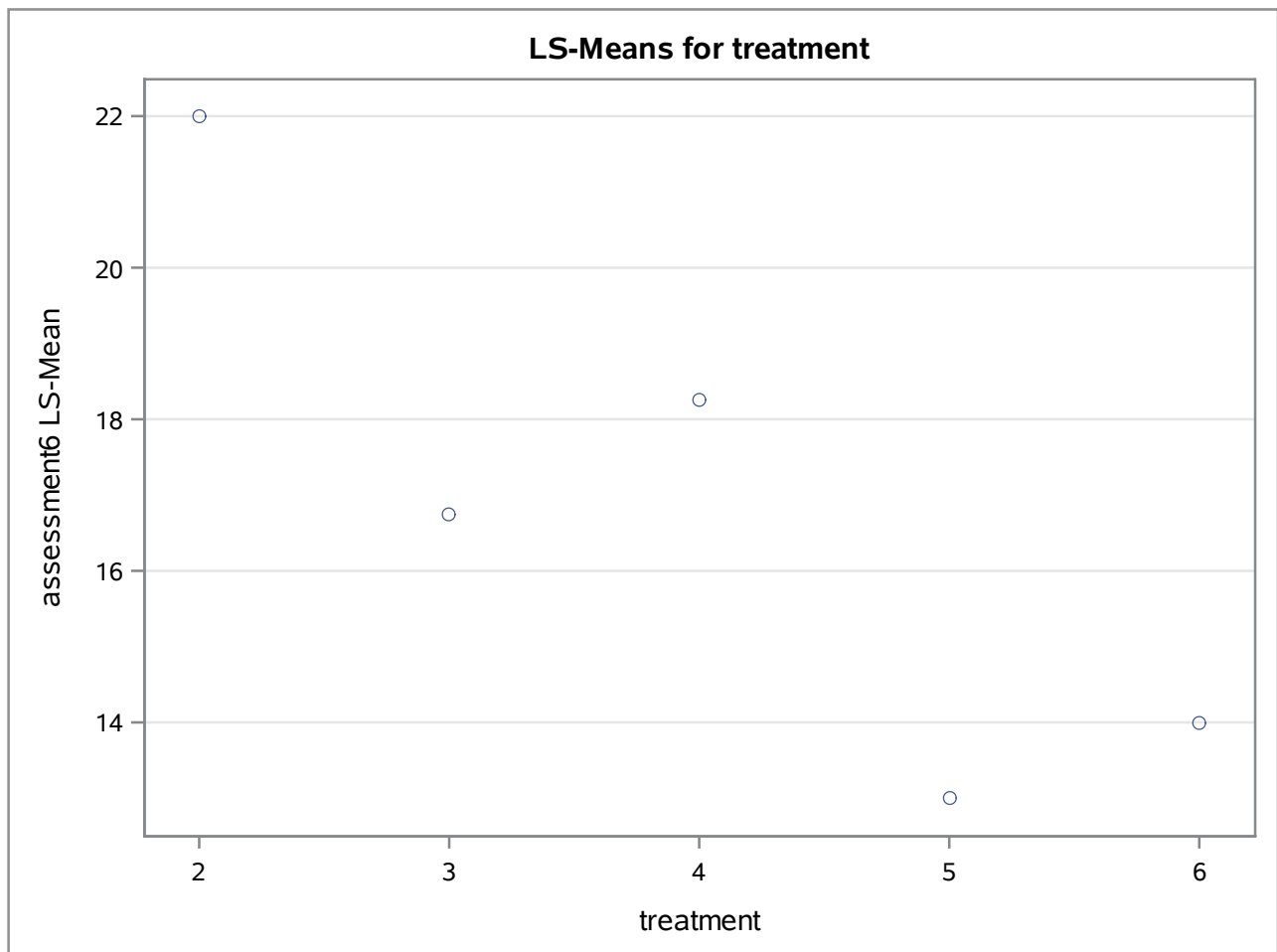


Tukey Comparison Lines for Least Squares Means of treatment				
LS-means with the same letter are not significantly different.				
		assessment5 LSMEAN	treatment	LSMEAN Number
	A	21.00	2	1
	B	16.75	4	3
	B			
C	B	15.25	3	2
C				
C	D	12.25	6	5
	D			
	D	11.75	5	4

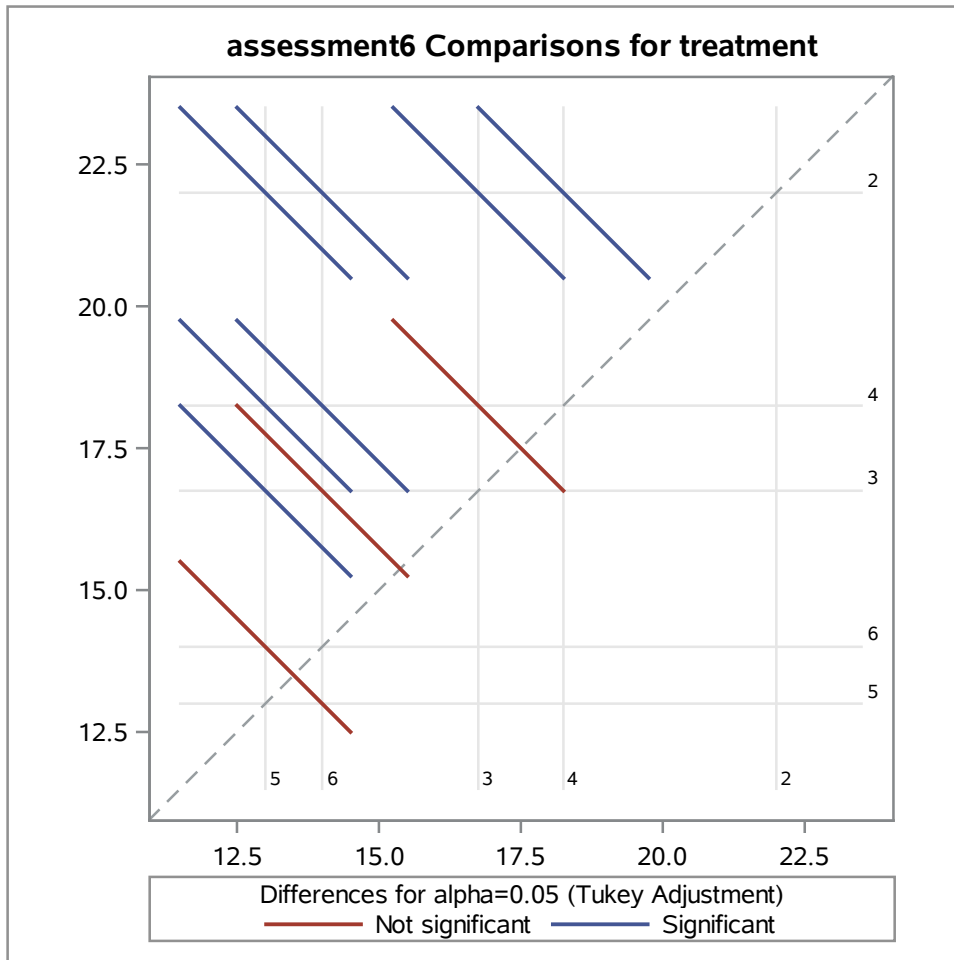
The GLM Procedure
 Least Squares Means
 Adjustment for Multiple Comparisons: Tukey

treatment	assessment6 LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
2	22.0000020	0.6754630	<.0001	1
3	16.7500018	0.6754630	<.0001	2
4	18.2500020	0.6754630	<.0001	3
5	13.0000010	0.6754630	<.0001	4
6	14.0000015	0.6754630	<.0001	5

Least Squares Means for effect treatment Pr > |t| for H0: LSMean(i)=LSMean(j)					
Dependent Variable: assessment6					
i/j	1	2	3	4	5
1		0.0011	0.0141	<.0001	<.0001
2	0.0011		0.5410	0.0141	0.0840
3	0.0141	0.5410		0.0011	0.0058
4	<.0001	0.0141	0.0011		0.8291
5	<.0001	0.0840	0.0058	0.8291	



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

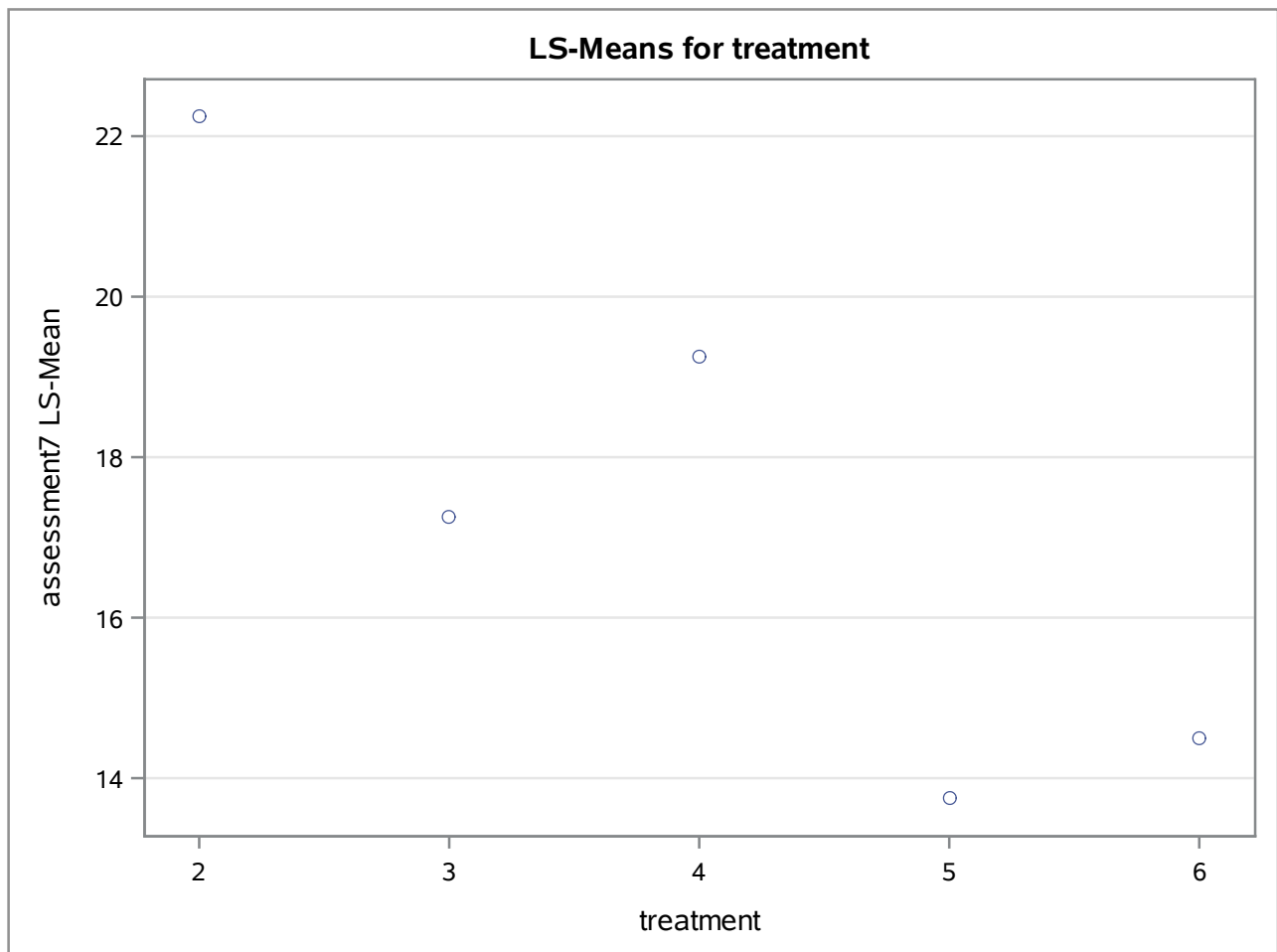


Tukey Comparison Lines for Least Squares Means of treatment				
LS-means with the same letter are not significantly different.				
		assessment6 LSMEAN	treatment	LSMEAN Number
	A	22.00	2	1
	B	18.25	4	3
	B			
C	B	16.75	3	2
C				
C	D	14.00	6	5
	D			
	D	13.00	5	4

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

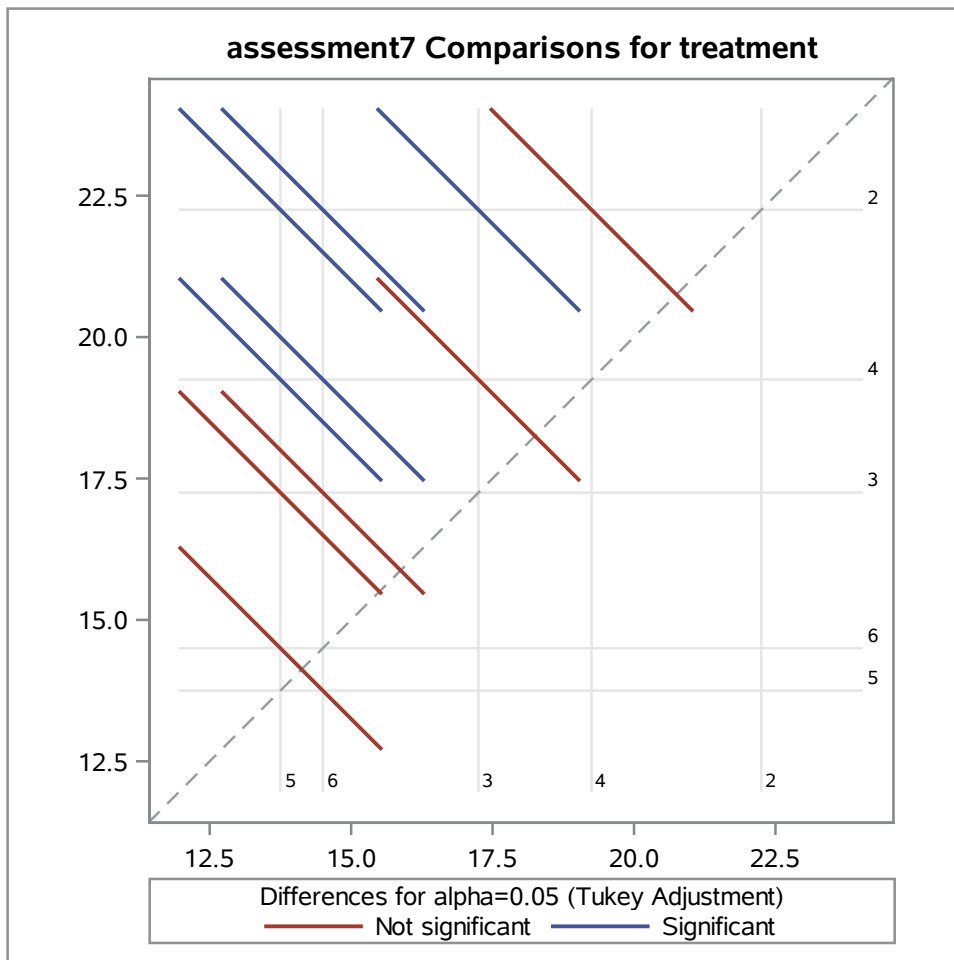
treatment	assessment7 LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
2	22.2500020	0.7958225	<.0001	1
3	17.2500018	0.7958225	<.0001	2
4	19.2500020	0.7958225	<.0001	3
5	13.7500010	0.7958225	<.0001	4
6	14.5000018	0.7958225	<.0001	5

Least Squares Means for effect treatment Pr > |t| for H0: LSMean(i)=LSMean(j)					
Dependent Variable: assessment7					
i/j	1	2	3	4	5
1		0.0059	0.1190	<.0001	0.0001
2	0.0059		0.4283	0.0570	0.1691
3	0.1190	0.4283		0.0028	0.0085
4	<.0001	0.0570	0.0028		0.9600
5	0.0001	0.1691	0.0085	0.9600	



Split Plot - Multivariate Repeated

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



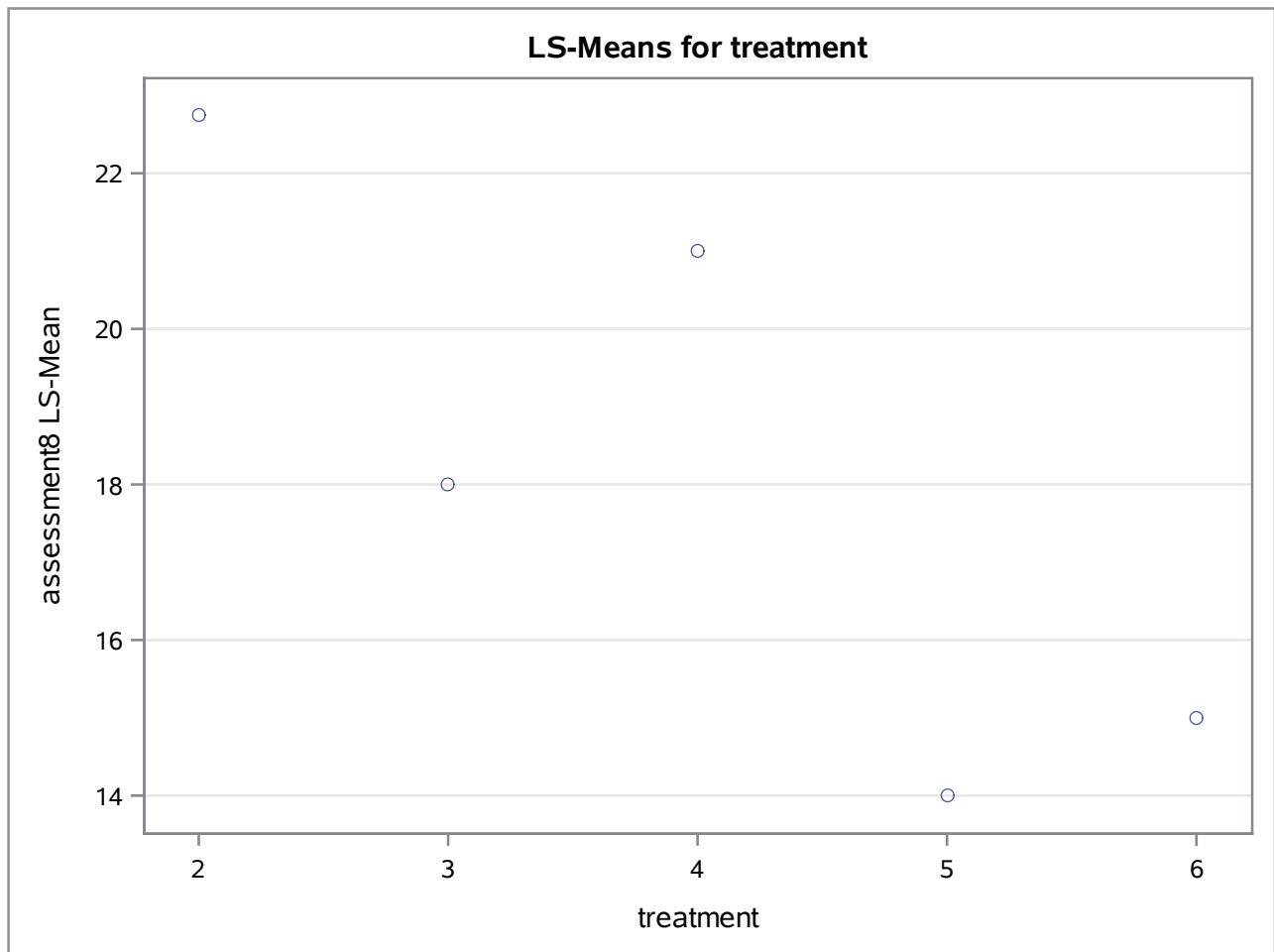
Tukey Comparison Lines for Least Squares Means of treatment				
LS-means with the same letter are not significantly different.				
		assessment7 LSMEAN	treatment	LSMEAN Number
	A	22.25	2	1
	A			
B	A	19.25	4	3
B				
B	C	17.25	3	2
	C			
	C	14.50	6	5
	C			
	C	13.75	5	4

Split Plot - Multivariate Repeated

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

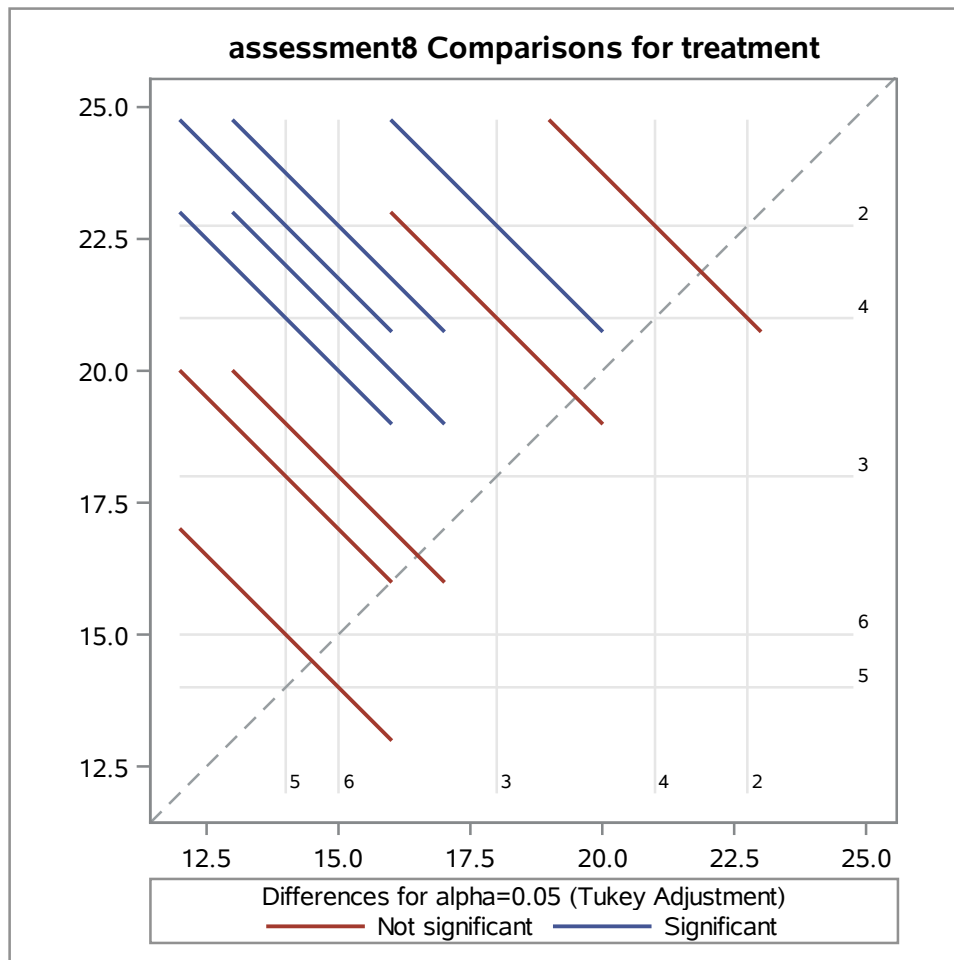
treatment	assessment8 LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
2	22.7500023	0.8920951	<.0001	1
3	18.0000020	0.8920951	<.0001	2
4	21.0000020	0.8920951	<.0001	3
5	14.0000015	0.8920951	<.0001	4
6	15.0000018	0.8920951	<.0001	5

Least Squares Means for effect treatment Pr > |t| for H0: LSMean(i)=LSMean(j)					
Dependent Variable: assessment8					
i/j	1	2	3	4	5
1		0.0186	0.6465	0.0001	0.0004
2	0.0186		0.1870	0.0515	0.1870
3	0.6465	0.1870		0.0010	0.0035
4	0.0001	0.0515	0.0010		0.9279
5	0.0004	0.1870	0.0035	0.9279	



Split Plot - Multivariate Repeated

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



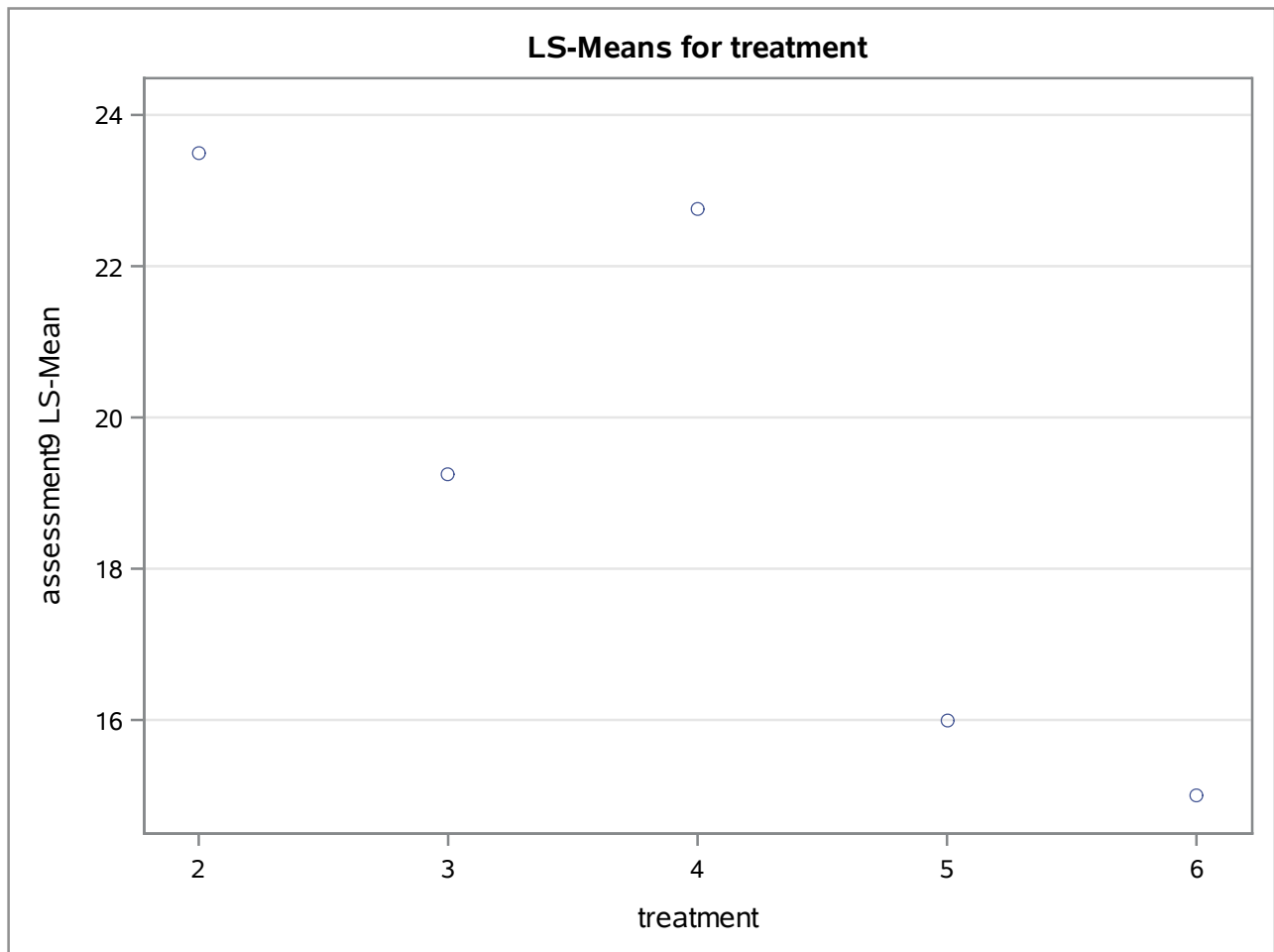
Tukey Comparison Lines for Least Squares Means of treatment				
LS-means with the same letter are not significantly different.				
		assessment8 LSMEAN	treatment	LSMEAN Number
	A	22.75	2	1
	A			
B	A	21.00	4	3
B				
B	C	18.00	3	2
	C			
	C	15.00	6	5
	C			
	C	14.00	5	4

Split Plot - Multivariate Repeated

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

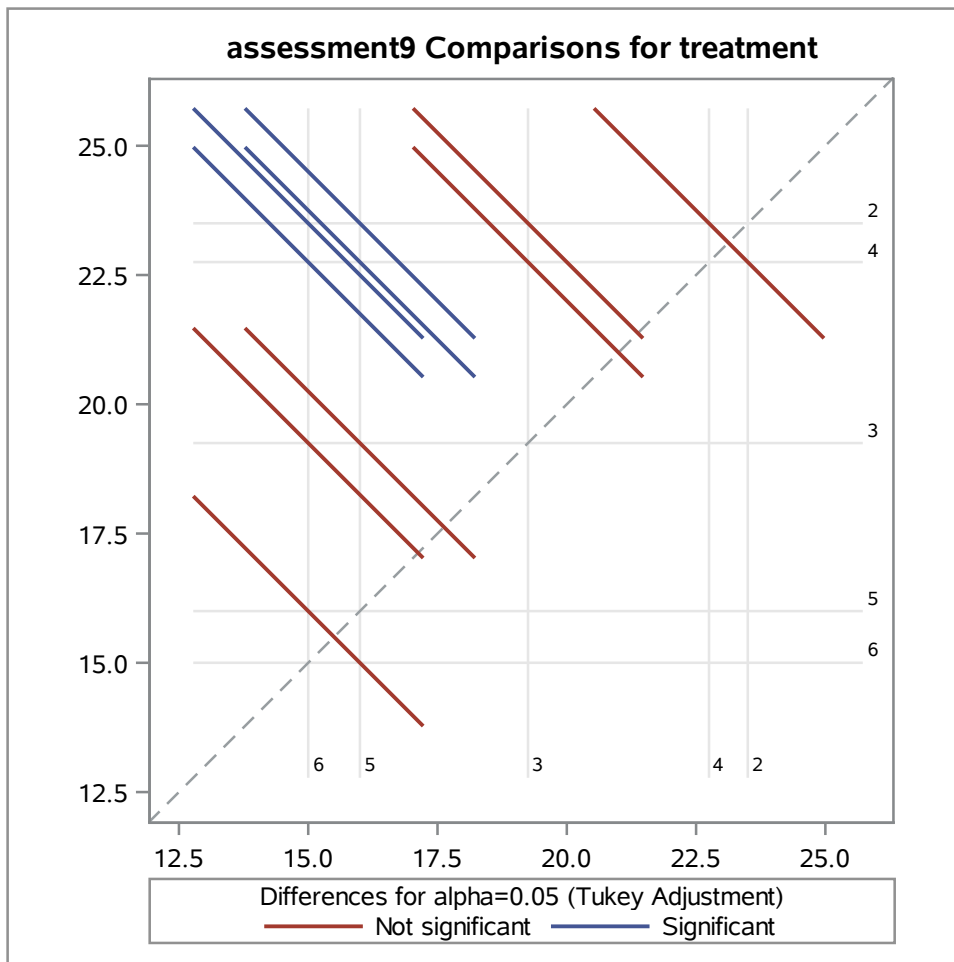
treatment	assessment9 LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
2	23.500023	0.9863656	<.0001	1
3	19.2500020	0.9863656	<.0001	2
4	22.7500023	0.9863656	<.0001	3
5	16.0000018	0.9863656	<.0001	4
6	15.0000018	0.9863656	<.0001	5

Least Squares Means for effect treatment Pr > |t| for H0: LSMean(i)=LSMean(j) Dependent Variable: assessment9					
i/j	1	2	3	4	5
1		0.0634	0.9815	0.0013	0.0004
2	0.0634		0.1527	0.2011	0.0634
3	0.9815	0.1527		0.0030	0.0010
4	0.0013	0.2011	0.0030		0.9485
5	0.0004	0.0634	0.0010	0.9485	



Split Plot - Multivariate Repeated

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



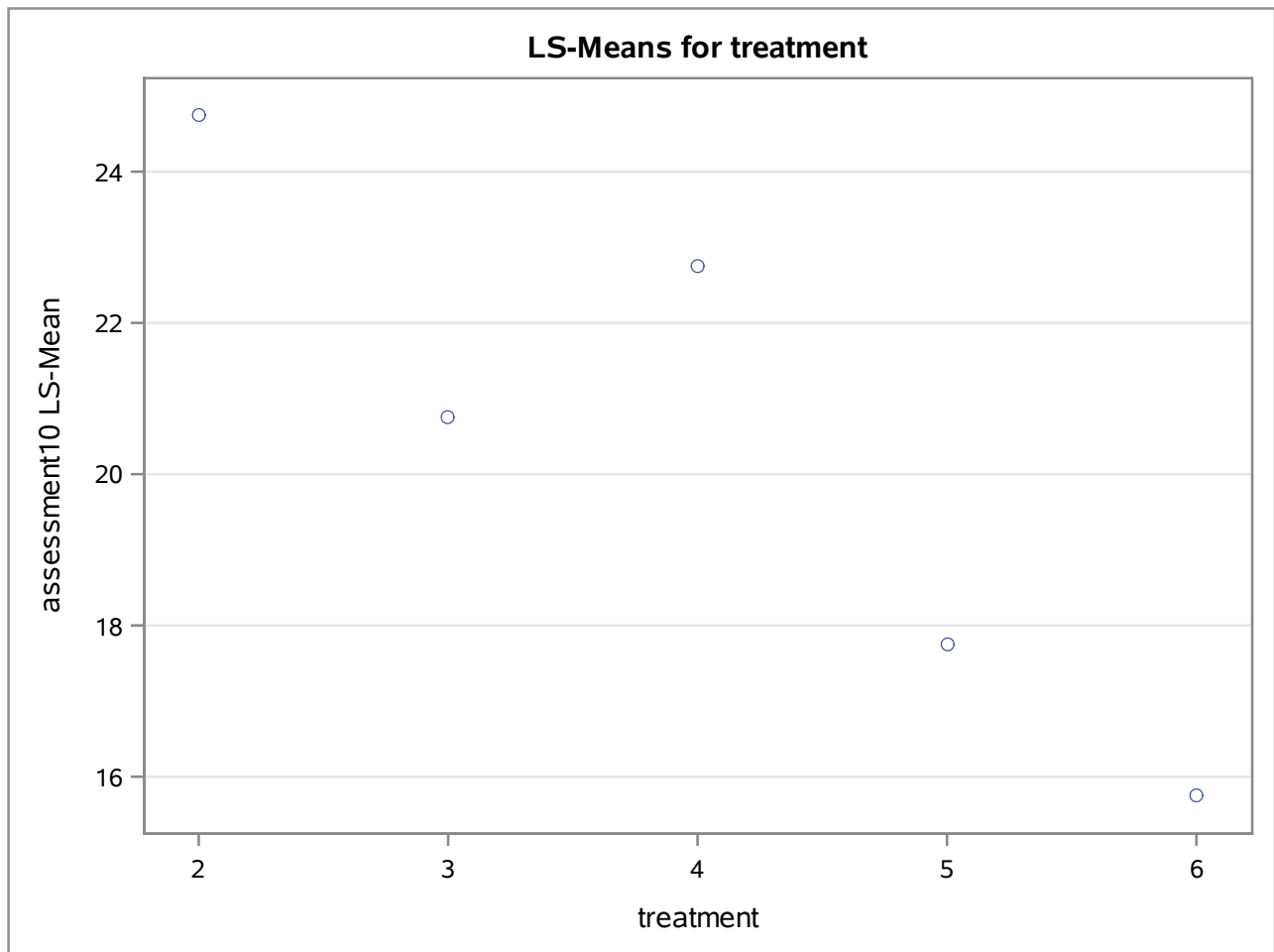
Tukey Comparison Lines for Least Squares Means of treatment				
LS-means with the same letter are not significantly different.				
		assessment9 LSMEAN	treatment	LSMEAN Number
	A	23.50	2	1
	A			
	A	22.75	4	3
	A			
B	A	19.25	3	2
B				
B		16.00	5	4
B				
B		15.00	6	5

Split Plot - Multivariate Repeated

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

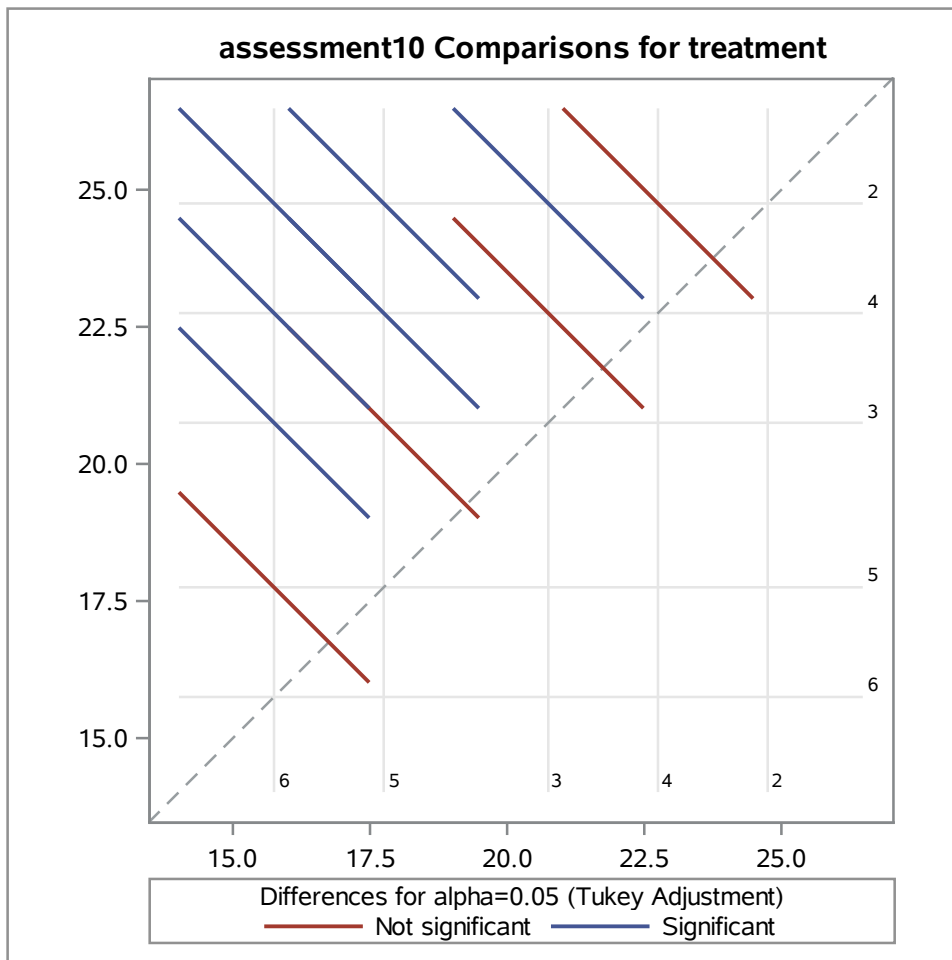
treatment	assessment10 LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
2	24.7500025	0.7691988	<.0001	1
3	20.7500020	0.7691988	<.0001	2
4	22.7500020	0.7691988	<.0001	3
5	17.7500020	0.7691988	<.0001	4
6	15.7500018	0.7691988	<.0001	5

Least Squares Means for effect treatment Pr > |t| for H0: LSMean(i)=LSMean(j) Dependent Variable: assessment10					
i/j	1	2	3	4	5
1		0.0216	0.3972	0.0003	<.0001
2	0.0216		0.3972	0.1025	0.0045
3	0.3972	0.3972		0.0045	0.0003
4	0.0003	0.1025	0.0045		0.3972
5	<.0001	0.0045	0.0003	0.3972	



Split Plot - Multivariate Repeated

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



Tukey Comparison Lines for Least Squares Means of treatment				
LS-means with the same letter are not significantly different.				
		assessment10 LSMEAN	treatment	LSMEAN Number
	A	24.75	2	1
	A			
B	A	22.75	4	3
B				
B	C	20.75	3	2
	C			
D	C	17.75	5	4
D				
D		15.75	6	5