

PlotByBatchN.lst

LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch

The GLM Procedure

## Class Level Information

Class	Levels	Values
SPECIAL	9	1 2 3 4 5 6 7 8 9
Number of Observations Read		324
Number of Observations Used		324

PlotByBatchN.lst

LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Dependent Variable: VOLC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	36.32249328	4.54031166	26.71	<.0001
Error	315	53.54875456	0.16999605		
Corrected Total	323	89.87124784			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.404161	30.55025	0.412306	1.349599

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	36.32249328	4.54031166	26.71	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	36.32249328	4.54031166	26.71	<.0001

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Dependent Variable: HARD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	10.2782668	1.2847833	1.67	0.1053
Error	315	242.5704986	0.7700651		
Corrected Total	323	252.8487654			

R-Square	Coeff Var	Root MSE	HARD Mean
0.040650	-85.89754	0.877534	-1.021605

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	10.27826680	1.28478335	1.67	0.1053

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	10.27826680	1.28478335	1.67	0.1053

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Dependent Variable: TENS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	1153.256599	144.157075	6.54	<.0001
Error	315	6939.021565	22.028640		
Corrected Total	323	8092.278164			

R-Square	Coeff Var	Root MSE	TENS Mean
0.142513	-114.8197	4.693468	-4.087685

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	1153.256599	144.157075	6.54	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	1153.256599	144.157075	6.54	<.0001

LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Least Squares Means

SPECIAL	VOLC LSMEAN	LSMEAN Number
1	1.52625000	1
2	1.65235294	2
3	1.44000000	3
4	0.66660714	4
5	1.31520833	5
6	1.68531250	6
7	1.42842697	7
8	1.45781250	8
9	1.49875000	9

Least Squares Means for effect SPECIAL  
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: VOLC

i/j	1	2	3	4	5	6	7	8
9								
1		0.4762	0.7915	<.0001	0.1811	0.3044	0.5208	0.6748
0.8940								
2	0.4762		0.4913	<.0001	0.0040	0.7697	0.0410	0.1169
0.3856								
3	0.7915	0.4913		0.0096	0.6752	0.4080	0.9687	0.9528
0.8571								
4	<.0001	<.0001	0.0096		<.0001	<.0001	<.0001	<.0001
<.0001								
5	0.1811	0.0040	0.6752	<.0001		<.0001	0.1262	0.1306
0.2446								
6	0.3044	0.7697	0.4080	<.0001	<.0001		0.0002	0.0113
0.2285								
7	0.5208	0.0410	0.9687	<.0001	0.1262	0.0002		0.7297
0.6443								
8	0.6748	0.1169	0.9528	<.0001	0.1306	0.0113	0.7297	
0.8018								
9	0.8940	0.3856	0.8571	<.0001	0.2446	0.2285	0.6443	0.8018

SPECIAL	HARD LSMEAN	LSMEAN Number
1	-1.37500000	1
2	-1.05882353	2
3	-1.50000000	3
4	-1.23214286	4
5	-0.72916667	5

6	-1.07812500	6
7	-0.89887640	7
8	-1.15625000	8
9	-1.12500000	9

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Least Squares Means

Least Squares Means for effect SPECIAL

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5	6	7	8
9								
1		0.4013	0.8571	0.6670	0.0549	0.3677	0.1426	0.5287
0.5692								
2	0.4013		0.5017	0.4762	0.1841	0.9358	0.4916	0.7117
0.8605								
3	0.8571	0.5017		0.6717	0.2245	0.5037	0.3388	0.5913
0.5892								
4	0.6670	0.4762	0.6717		0.0038	0.3382	0.0267	0.6966
0.7469								
5	0.0549	0.1841	0.2245	0.0038		0.0381	0.2810	0.0337
0.2384								
6	0.3677	0.9358	0.5037	0.3382	0.0381		0.2136	0.6812
0.8868								
7	0.1426	0.4916	0.3388	0.0267	0.2810	0.2136		0.1558
0.4856								
8	0.5287	0.7117	0.5913	0.6966	0.0337	0.6812	0.1558	
0.9283								
9	0.5692	0.8605	0.5892	0.7469	0.2384	0.8868	0.4856	0.9283

SPECIAL	TENS LSMEAN	LSMEAN Number
1	0.80000000	1
2	-2.07058824	2
3	-3.03000000	3
4	-1.75357143	4
5	-4.81645833	5
6	-4.60468750	6
7	-6.28247191	7
8	-2.20687500	8
9	-4.46250000	9

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Least Squares Means

Least Squares Means for effect SPECIAL

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TENS

i/j	1	2	3	4	5	6	7	8
9								
1 0.0256		0.1547	0.3028	0.1510	0.0019	0.0023	<.0001	0.1061
2 0.2355	0.1547		0.7847	0.8075	0.0390	0.0487	0.0008	0.9230
3 0.6997	0.3028	0.7847		0.7057	0.5983	0.6407	0.3332	0.8100
4 0.1278	0.1510	0.8075	0.7057		0.0010	0.0010	<.0001	0.6633
5 0.8436	0.0019	0.0390	0.5983	0.0010		0.8133	0.0821	0.0154
6 0.9357	0.0023	0.0487	0.6407	0.0010	0.8133		0.0299	0.0189
7 0.2943	<.0001	0.0008	0.3332	<.0001	0.0821	0.0299		<.0001
8 0.2250	0.1061	0.9230	0.8100	0.6633	0.0154	0.0189	<.0001	
9	0.0256	0.2355	0.6997	0.1278	0.8436	0.9357	0.2943	0.2250

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.



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LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Lab

The GLM Procedure

## Class Level Information

Class	Levels	Values
LTMSLAB	5	A B E G I

Number of Observations Read 324

Number of Observations Used 324

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LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Lab

The GLM Procedure

Dependent Variable: VOLC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	2.65837642	0.66459411	2.43	0.0476
Error	319	87.21287142	0.27339458		
Corrected Total	323	89.87124784			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.029580	38.74274	0.522871	1.349599

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	2.65837642	0.66459411	2.43	0.0476

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	2.65837642	0.66459411	2.43	0.0476

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LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Lab

The GLM Procedure

Dependent Variable: HARD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	16.7939736	4.1984934	5.67	0.0002
Error	319	236.0547919	0.7399837		
Corrected Total	323	252.8487654			

R-Square	Coeff Var	Root MSE	HARD Mean
0.066419	-84.20310	0.860223	-1.021605

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	16.79397358	4.19849339	5.67	0.0002

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	16.79397358	4.19849339	5.67	0.0002

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LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Lab

The GLM Procedure

Dependent Variable: TENS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	155.014226	38.753556	1.56	0.1855
Error	319	7937.263938	24.881705		
Corrected Total	323	8092.278164			

R-Square	Coeff Var	Root MSE	TENS Mean
0.019156	-122.0289	4.988156	-4.087685

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	155.0142256	38.7535564	1.56	0.1855

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	155.0142256	38.7535564	1.56	0.1855

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LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Lab

The GLM Procedure

Least Squares Means

LTMSLAB	VOLC LSMEAN	LSMEAN Number
A	1.41100000	1
B	1.26514286	2
E	1.36363636	3
G	1.26133333	4
I	1.49226415	5

Least Squares Means for effect LTMSLAB

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: VOLC

i/j	1	2	3	4	5
1		0.0744	0.7757	0.0497	0.3610
2	0.0744		0.5618	0.9636	0.0176
3	0.7757	0.5618		0.5406	0.4583
4	0.0497	0.9636	0.5406		0.0112
5	0.3610	0.0176	0.4583	0.0112	

LTMSLAB	HARD LSMEAN	LSMEAN Number
A	-1.35000000	1
B	-0.91428571	2
E	-1.00000000	3
G	-0.78888889	4
I	-0.94339623	5

PlotByBatchN.lst

LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 & 9 Runs  
Analyzed by LabThe GLM Procedure  
Least Squares MeansLeast Squares Means for effect LTMSLAB  
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5
1		0.0013	0.2012	<.0001	0.0057
2	0.0013		0.7589	0.3610	0.8527
3	0.2012	0.7589		0.4428	0.8427
4	<.0001	0.3610	0.4428		0.3004
5	0.0057	0.8527	0.8427	0.3004	

LTMSLAB	TENS LSMEAN	LSMEAN Number
A	-4.39900000	1
B	-3.07142857	2
E	-6.41000000	3
G	-4.41333333	4
I	-3.80754717	5

Least Squares Means for effect LTMSLAB  
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TENS

i/j	1	2	3	4	5
1		0.0886	0.2053	0.9842	0.4858
2	0.0886		0.0399	0.0924	0.4183
3	0.2053	0.0399		0.2110	0.1163
4	0.9842	0.0924	0.2110		0.4836
5	0.4858	0.4183	0.1163	0.4836	

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PlotByBatchN.lst

LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

## Class Level Information

Class	Levels	Values
SPECIAL	9	1 2 3 4 5 6 7 8 9
LTMSLAB	5	A B E G I

Number of Observations Read	324
Number of Observations Used	324

PlotByBatchN.lst

LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Dependent Variable: VOLC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	32	42.70303015	1.33446969	8.23	<.0001
Error	291	47.16821769	0.16209010		
Corrected Total	323	89.87124784			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.475158	29.83140	0.402604	1.349599

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	36.32249328	4.54031166	28.01	<.0001
LTMSLAB	4	0.56624126	0.14156032	0.87	0.4802
SPECIAL*LTMSLAB	20	5.81429560	0.29071478	1.79	0.0209

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	27.31538282	3.41442285	21.06	<.0001
LTMSLAB	4	0.24129642	0.06032411	0.37	0.8284
SPECIAL*LTMSLAB	20	5.81429560	0.29071478	1.79	0.0209



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LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Dependent Variable: HARD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	32	45.1713087	1.4116034	1.98	0.0019
Error	291	207.6774567	0.7136682		
Corrected Total	323	252.8487654			

R-Square	Coeff Var	Root MSE	HARD Mean
0.178650	-82.69232	0.844789	-1.021605

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	10.27826680	1.28478335	1.80	0.0767
LTMSLAB	4	21.51488072	5.37872018	7.54	<.0001
SPECIAL*LTMSLAB	20	13.37816120	0.66890806	0.94	0.5400

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	13.93064992	1.74133124	2.44	0.0144
LTMSLAB	4	9.74143476	2.43535869	3.41	0.0095
SPECIAL*LTMSLAB	20	13.37816120	0.66890806	0.94	0.5400

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LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Dependent Variable: TENS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	32	2311.114010	72.222313	3.64	<.0001
Error	291	5781.164154	19.866543		
Corrected Total	323	8092.278164			

R-Square	Coeff Var	Root MSE	TENS Mean
0.285595	-109.0395	4.457190	-4.087685

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	1153.256599	144.157075	7.26	<.0001
LTMSLAB	4	133.842657	33.460664	1.68	0.1536
SPECIAL*LTMSLAB	20	1024.014754	51.200738	2.58	0.0003

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	1141.169955	142.646244	7.18	<.0001
LTMSLAB	4	79.214169	19.803542	1.00	0.4096
SPECIAL*LTMSLAB	20	1024.014754	51.200738	2.58	0.0003

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Least Squares Means

SPECIAL	VOLC LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	Non-est	3
4	Non-est	4
5	1.29376629	5
6	Non-est	6
7	1.38832012	7
8	1.48965385	8
9	Non-est	9

Least Squares Means for effect SPECIAL  
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: VOLC

i/j	1	2	3	4	5	6	7	8	9
9									
1		.	.	.	.	.	.	.	.
2	.		.	.	.	.	.	.	.
3	.	.		.	.	.	.	.	.
4	.	.	.		.	<.0001	.	.	.
5	.	.	.	.		.	0.3948	0.1549	.
6	.	.	.	<.0001	.		.	.	.
7	.	.	.	.	0.3948	.		0.3714	.
8	.	.	.	.	0.1549	.	0.3714		.
9	.	.	.	.	.	.	.	.	

SPECIAL	HARD LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	Non-est	3
4	Non-est	4
5	-0.55946115	5
6	Non-est	6
7	-0.79461382	7
8	-1.35256410	8
9	Non-est	9

PlotByBatchN.lst

LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Least Squares Means

Least Squares Means for effect SPECIAL

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5	6	7	8
9								
1		.	.	.	.	.	.	.
2	.		.	.	.	.	.	.
3	.	.		.	.	.	.	.
4	.	.	.		.	0.0783	.	.
5	.	.	.	.		.	0.3133	0.0063
6	.	.	.	0.0783	.		.	.
7	.	.	.	.	0.3133	.		0.0195
8	.	.	.	.	0.0063	.	0.0195	
9	.	.	.	.	.	.	.	.

SPECIAL	TENS LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	Non-est	3
4	Non-est	4
5	-4.76548747	5
6	Non-est	6
7	-6.90427642	7
8	-0.58712821	8
9	Non-est	9

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LDEOC Hydrogenated Nitrile

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All Valid Reference Data and All Valid Batch 8 &amp; 9 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Least Squares Means

Least Squares Means for effect SPECIAL

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TENS

i/j	1	2	3	4	5	6	7	8
9								
1	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.
3	.	.	.	.	.	.	.	.
4	.	.	.	.	.	0.0016	.	.
5	.	.	.	.	.	.	0.0827	0.0064
6	.	.	.	0.0016	.	.	.	.
7	.	.	.	.	0.0827	.	.	<.0001
8	.	.	.	.	0.0064	.	<.0001	.
9	.	.	.	.	.	.	.	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

LTMSLAB	VOLC LSMEAN	HARD LSMEAN	TENS LSMEAN
A	Non-est	Non-est	Non-est
B	Non-est	Non-est	Non-est
E	Non-est	Non-est	Non-est
G	Non-est	Non-est	Non-est
I	Non-est	Non-est	Non-est

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 All Valid Reference Data and All Valid Batch 8 & 9 Runs  
 Distribution of Data Set

The FREQ Procedure

Table of LTMSLAB by SPECIAL

LTMSLAB	SPECIAL									Total
Frequency,										
Percent										
Row Pct										
Col Pct	1	2	3	4	5	6	7	8	9	
A	7	0	0	14	14	20	41	2	2	100
	2.16	0.00	0.00	4.32	4.32	6.17	12.65	0.62	0.62	30.86
	7.00	0.00	0.00	14.00	14.00	20.00	41.00	2.00	2.00	
	87.50	0.00	0.00	25.00	29.17	31.25	46.07	6.25	25.00	
B	0	12	0	16	8	6	16	12	0	70
	0.00	3.70	0.00	4.94	2.47	1.85	4.94	3.70	0.00	21.60
	0.00	17.14	0.00	22.86	11.43	8.57	22.86	17.14	0.00	
	0.00	70.59	0.00	28.57	16.67	9.38	17.98	37.50	0.00	
E	0	0	1	0	1	0	4	2	3	11
	0.00	0.00	0.31	0.00	0.31	0.00	1.23	0.62	0.93	3.40
	0.00	0.00	9.09	0.00	9.09	0.00	36.36	18.18	27.27	
	0.00	0.00	50.00	0.00	2.08	0.00	4.49	6.25	37.50	
G	1	5	0	21	19	13	16	13	2	90
	0.31	1.54	0.00	6.48	5.86	4.01	4.94	4.01	0.62	27.78
	1.11	5.56	0.00	23.33	21.11	14.44	17.78	14.44	2.22	
	12.50	29.41	0.00	37.50	39.58	20.31	17.98	40.63	25.00	
I	0	0	1	5	6	25	12	3	1	53
	0.00	0.00	0.31	1.54	1.85	7.72	3.70	0.93	0.31	16.36
	0.00	0.00	1.89	9.43	11.32	47.17	22.64	5.66	1.89	
	0.00	0.00	50.00	8.93	12.50	39.06	13.48	9.38	12.50	
Total	8	17	2	56	48	64	89	32	8	324
	2.47	5.25	0.62	17.28	14.81	19.75	27.47	9.88	2.47	100.00