

The GLIMMIX Procedure

Model Information	
Data Set	WORK.SORTEDDATA
Response Variable	Value
Response Distribution	Multinomial (ordered)
Link Function	Cumulative Logit
Variance Function	Default
Variance Matrix Blocked By	newID
Estimation Technique	Maximum Likelihood
Likelihood Approximation	Gauss-Hermite Quadrature
Degrees of Freedom Method	Containment

Class Level Information		
Class	Levels	Values
Attribute	6	RUL RML RLL LUS LLS LLL
rater	2	JW VH

Number of Observations Read	1464
Number of Observations Used	1464

Response Profile		
Ordered Value	Value	Total Frequency
1	0	492
2	1	648
3	2	210
4	3	114
The GLIMMIX procedure is modeling the probabilities of levels of Value having lower Ordered Values in the Response Profile table.		

Dimensions	
G-side Cov. Parameters	2
Columns in X	11
Columns in Z per Subject	3
Subjects (Blocks in V)	161
Max Obs per Subject	12

Optimization Information	
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	11
Lower Boundaries	2
Upper Boundaries	0
Fixed Effects	Not Profiled
Starting From	GLM estimates
Quadrature Points	3

Iteration History					
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
0	0	4	2927.845979	.	249.3413
1	0	2	2821.4905633	106.35541572	117.6116
2	0	2	2780.6966411	40.79392216	37.05307
3	0	4	2748.7709188	31.92572232	28.52471
4	0	4	2735.3777041	13.39321471	16.32489
5	0	4	2729.4024136	5.97529048	22.40568
6	0	3	2725.6168743	3.78553931	12.74193
7	0	3	2723.6121786	2.00469570	6.527595
8	0	3	2722.8733579	0.73882072	6.358242
9	0	2	2722.262762	0.61059594	8.294544
10	0	2	2721.4311888	0.83157322	5.093546
11	0	2	2720.2810468	1.15014190	7.590208
12	0	3	2720.0110194	0.27002742	1.46013
13	0	3	2719.9990108	0.01200867	0.673434
14	0	2	2719.9955709	0.00343990	0.901565
15	0	4	2719.9855243	0.01004659	0.347546
16	0	2	2719.9821232	0.00340103	1.188481
17	0	2	2719.9763473	0.00577595	0.612054
18	0	3	2719.9733055	0.00304175	0.217902

Iteration History					
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
19	0	3	2719.9714626	0.00184289	0.116778
20	0	4	2719.9692414	0.00222128	0.262892
21	0	3	2719.968129	0.00111234	0.105099
22	0	3	2719.9676435	0.00048551	0.068523
23	0	3	2719.9676051	0.00003839	0.019973
24	0	3	2719.9676024	0.00000267	0.006316

Convergence criterion (GCONV=1E-8) satisfied.

Fit Statistics	
-2 Log Likelihood	2719.97
AIC (smaller is better)	2741.97
AICC (smaller is better)	2742.15
BIC (smaller is better)	2775.86
CAIC (smaller is better)	2786.86
HQIC (smaller is better)	2755.73

Fit Statistics for Conditional Distribution	
-2 log L(Value   r. effects)	2094.88

Covariance Parameter Estimates			
Cov Parm	Subject	Estimate	Standard Error
Intercept	newID	3.8900	0.6841
rater	newID	1.2177	0.3201

Solutions for Fixed Effects								
Effect	Value	Attribute	rater	Estimate	Standard Error	DF	t Value	Pr >  t
Intercept	0			-1.4583	0.2810	82	-5.19	<.0001
Intercept	1			2.2604	0.2877	82	7.86	<.0001
Intercept	2			4.2405	0.3113	82	13.62	<.0001
Attribute		RUL		-0.8194	0.1985	1213	-4.13	<.0001
Attribute		RML		-2.2562	0.2087	1213	-10.81	<.0001
Attribute		RLL		-0.5784	0.1977	1213	-2.93	0.0035
Attribute		LUS		1.0980	0.2137	1213	5.14	<.0001
Attribute		LLS		-1.4612	0.2001	1213	-7.30	<.0001
Attribute		LLL		0	.	.	.	.
rater			JW	1.1567	0.2187	82	5.29	<.0001
rater			VH	0	.	.	.	.

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Attribute	5	1213	49.20	<.0001
rater	1	82	27.98	<.0001

Solution for Random Effects							
Effect	rater	Subject	Estimate	Std Err Pred	DF	t Value	Pr >  t
Intercept		1	-0.8933	0.8725	1213	-1.02	0.3062
rater	JW	1	-0.7178	0.8619	1213	-0.83	0.4051
rater	VH	1	0.4382	0.8601	1213	0.51	0.6105
Intercept		2	-1.9943	0.8829	1213	-2.26	0.0241
rater	JW	2	0.7159	0.8649	1213	0.83	0.4080
rater	VH	2	-1.3402	0.8826	1213	-1.52	0.1291
Intercept		3	-1.4812	1.1813	1213	-1.25	0.2101
rater	JW	3	-0.4637	0.9925	1213	-0.47	0.6405
rater	VH	3	0	1.1035	1213	0.00	1.0000
Intercept		4	1.6566	0.9119	1213	1.82	0.0695
rater	JW	4	-0.7817	0.8806	1213	-0.89	0.3749
rater	VH	4	1.3002	0.9037	1213	1.44	0.1505
Intercept		5	2.6136	1.3365	1213	1.96	0.0507
rater	JW	5	0.8181	1.0237	1213	0.80	0.4243
rater	VH	5	0	1.1035	1213	0.00	1.0000
Intercept		6	1.2171	1.1721	1213	1.04	0.2993
rater	JW	6	0.3810	0.9898	1213	0.38	0.7004

Solution for Random Effects							
Effect	rater	Subject	Estimate	Std Err Pred	DF	t Value	Pr >  t
rater	VH	6	0	1.1035	1213	0.00	1.0000
Intercept		7	-2.0404	1.1252	1213	-1.81	0.0700
rater	JW	7	-0.6387	0.9918	1213	-0.64	0.5197
rater	VH	7	0	1.1035	1213	0.00	1.0000
Intercept		8	-0.9762	1.1281	1213	-0.87	0.3870
rater	JW	8	-0.3056	0.9830	1213	-0.31	0.7560
rater	VH	8	0	1.1035	1213	0.00	1.0000
Intercept		9	3.1485	1.0274	1213	3.06	0.0022
rater	JW	9	-0.09738	0.9365	1213	-0.10	0.9172
rater	VH	9	1.0829	0.9589	1213	1.13	0.2590
Intercept		10	-0.5405	1.1456	1213	-0.47	0.6371
rater	JW	10	-0.1692	0.9832	1213	-0.17	0.8634
rater	VH	10	0	1.1035	1213	0.00	1.0000
Intercept		11	1.2052	1.1743	1213	1.03	0.3049
rater	JW	11	0.3773	0.9899	1213	0.38	0.7032
rater	VH	11	0	1.1035	1213	0.00	1.0000
Intercept		12	-0.1271	1.1400	1213	-0.11	0.9113
rater	JW	12	-0.03978	0.9818	1213	-0.04	0.9677
rater	VH	12	0	1.1035	1213	0.00	1.0000
Intercept		13	-0.6015	1.1344	1213	-0.53	0.5960
rater	JW	13	-0.1883	0.9821	1213	-0.19	0.8480
rater	VH	13	0	1.1035	1213	0.00	1.0000
Intercept		14	1.2427	1.1677	1213	1.06	0.2875
rater	JW	14	0.3890	0.9894	1213	0.39	0.6943
rater	VH	14	0	1.1035	1213	0.00	1.0000
Intercept		15	1.6017	0.9197	1213	1.74	0.0819
rater	JW	15	0.1493	0.8904	1213	0.17	0.8669
rater	VH	15	0.3521	0.8884	1213	0.40	0.6919
Intercept		16	1.5303	0.9345	1213	1.64	0.1018
rater	JW	16	1.2989	0.9327	1213	1.39	0.1640
rater	VH	16	-0.8199	0.8914	1213	-0.92	0.3579
Intercept		17	-2.6421	0.8933	1213	-2.96	0.0032
rater	JW	17	0.4063	0.8653	1213	0.47	0.6388
rater	VH	17	-1.2333	0.8923	1213	-1.38	0.1672
Intercept		18	0.2703	1.1423	1213	0.24	0.8130
rater	JW	18	0.08461	0.9823	1213	0.09	0.9314
rater	VH	18	0	1.1035	1213	0.00	1.0000
Intercept		19	1.2118	1.1731	1213	1.03	0.3018
rater	JW	19	0.3793	0.9899	1213	0.38	0.7016
rater	VH	19	0	1.1035	1213	0.00	1.0000
Intercept		20	-1.7950	0.8754	1213	-2.05	0.0405
rater	JW	20	0.005279	0.8636	1213	0.01	0.9951
rater	VH	20	-0.5672	0.8615	1213	-0.66	0.5105
Intercept		21	-2.0109	1.1209	1213	-1.79	0.0731
rater	JW	21	-0.6295	0.9910	1213	-0.64	0.5254
rater	VH	21	0	1.1035	1213	0.00	1.0000
Intercept		22	-1.3795	1.1478	1213	-1.20	0.2296
rater	JW	22	-0.4318	0.9879	1213	-0.44	0.6621
rater	VH	22	0	1.1035	1213	0.00	1.0000
Intercept		23	-2.8992	1.1352	1213	-2.55	0.0108
rater	JW	23	-0.9075	1.0049	1213	-0.90	0.3666
rater	VH	23	0	1.1035	1213	0.00	1.0000
Intercept		24	1.0848	0.8954	1213	1.21	0.2260
rater	JW	24	-0.8507	0.8739	1213	-0.97	0.3305
rater	VH	24	1.1903	0.8871	1213	1.34	0.1799
Intercept		25	3.8348	1.1602	1213	3.31	0.0010
rater	JW	25	0.4079	0.9999	1213	0.41	0.6834
rater	VH	25	0.7926	0.9866	1213	0.80	0.4219
Intercept		26	1.9557	0.9224	1213	2.12	0.0342
rater	JW	26	-0.5159	0.8856	1213	-0.58	0.5603
rater	VH	26	1.1281	0.9059	1213	1.25	0.2133
Intercept		27	2.6136	1.3365	1213	1.96	0.0507
rater	JW	27	0.8181	1.0237	1213	0.80	0.4243
rater	VH	27	0	1.1035	1213	0.00	1.0000
Intercept		28	-2.6281	1.1435	1213	-2.30	0.0217

Solution for Random Effects							
Effect	rater	Subject	Estimate	Std Err Pred	DF	t Value	Pr >  t
rater	JW	28	-0.8227	1.0015	1213	-0.82	0.4116
rater	VH	28	0	1.1035	1213	0.00	1.0000
Intercept		29	2.2756	0.9423	1213	2.42	0.0159
rater	JW	29	-0.2344	0.8982	1213	-0.26	0.7942
rater	VH	29	0.9467	0.9113	1213	1.04	0.2991
Intercept		30	0.3149	0.8919	1213	0.35	0.7241
rater	JW	30	0.1086	0.8746	1213	0.12	0.9012
rater	VH	30	-0.00998	0.8713	1213	-0.01	0.9909
Intercept		31	-0.6015	1.1344	1213	-0.53	0.5960
rater	JW	31	-0.1883	0.9821	1213	-0.19	0.8480
rater	VH	31	0	1.1035	1213	0.00	1.0000
Intercept		32	-0.5390	0.8829	1213	-0.61	0.5416
rater	JW	32	0.6444	0.8719	1213	0.74	0.4600
rater	VH	32	-0.8131	0.8703	1213	-0.93	0.3504
Intercept		33	-0.1400	1.1423	1213	-0.12	0.9025
rater	JW	33	-0.04383	0.9821	1213	-0.04	0.9644
rater	VH	33	0	1.1035	1213	0.00	1.0000
Intercept		34	2.3094	0.9504	1213	2.43	0.0152
rater	JW	34	0.3023	0.9131	1213	0.33	0.7407
rater	VH	34	0.4207	0.9018	1213	0.47	0.6410
Intercept		35	-0.4605	0.8838	1213	-0.52	0.6024
rater	JW	35	-0.2391	0.8684	1213	-0.28	0.7831
rater	VH	35	0.09494	0.8668	1213	0.11	0.9128
Intercept		36	3.8348	1.1602	1213	3.31	0.0010
rater	JW	36	0.4079	0.9999	1213	0.41	0.6834
rater	VH	36	0.7926	0.9866	1213	0.80	0.4219
Intercept		37	-1.2104	1.1619	1213	-1.04	0.2978
rater	JW	37	-0.3789	0.9883	1213	-0.38	0.7015
rater	VH	37	0	1.1035	1213	0.00	1.0000
Intercept		38	3.8348	1.1602	1213	3.31	0.0010
rater	JW	38	0.4079	0.9999	1213	0.41	0.6834
rater	VH	38	0.7926	0.9866	1213	0.80	0.4219
Intercept		39	-1.3907	1.1406	1213	-1.22	0.2230
rater	JW	39	-0.4353	0.9872	1213	-0.44	0.6593
rater	VH	39	0	1.1035	1213	0.00	1.0000
Intercept		40	-2.5045	0.8988	1213	-2.79	0.0054
rater	JW	40	-0.1320	0.8771	1213	-0.15	0.8804
rater	VH	40	-0.6520	0.8794	1213	-0.74	0.4586
Intercept		41	-0.6579	1.1471	1213	-0.57	0.5664
rater	JW	41	-0.2059	0.9837	1213	-0.21	0.8342
rater	VH	41	0	1.1035	1213	0.00	1.0000
Intercept		42	-0.1601	1.1357	1213	-0.14	0.8879
rater	JW	42	-0.05011	0.9813	1213	-0.05	0.9593
rater	VH	42	0	1.1035	1213	0.00	1.0000
Intercept		43	-1.1424	1.1554	1213	-0.99	0.3230
rater	JW	43	-0.3576	0.9871	1213	-0.36	0.7172
rater	VH	43	0	1.1035	1213	0.00	1.0000
Intercept		44	-0.1271	1.1400	1213	-0.11	0.9113
rater	JW	44	-0.03978	0.9818	1213	-0.04	0.9677
rater	VH	44	0	1.1035	1213	0.00	1.0000
Intercept		45	-0.1935	1.1418	1213	-0.17	0.8655
rater	JW	45	-0.06056	0.9820	1213	-0.06	0.9508
rater	VH	45	0	1.1035	1213	0.00	1.0000
Intercept		46	1.2427	1.1677	1213	1.06	0.2875
rater	JW	46	0.3890	0.9894	1213	0.39	0.6943
rater	VH	46	0	1.1035	1213	0.00	1.0000
Intercept		47	0.8159	0.8922	1213	0.91	0.3606
rater	JW	47	0.1891	0.8742	1213	0.22	0.8288
rater	VH	47	0.06626	0.8713	1213	0.08	0.9394
Intercept		48	-0.1271	1.1400	1213	-0.11	0.9113
rater	JW	48	-0.03978	0.9818	1213	-0.04	0.9677
rater	VH	48	0	1.1035	1213	0.00	1.0000
Intercept		49	0.8527	0.9070	1213	0.94	0.3473
rater	JW	49	-0.5949	0.8838	1213	-0.67	0.5010
rater	VH	49	0.8619	0.8865	1213	0.97	0.3311

Solution for Random Effects							
Effect	rater	Subject	Estimate	Std Err Pred	DF	t Value	Pr >  t
Intercept		50	2.6907	0.9740	1213	2.76	0.0058
rater	JW	50	-0.4548	0.9095	1213	-0.50	0.6171
rater	VH	50	1.2971	0.9448	1213	1.37	0.1701
Intercept		51	1.2359	1.1689	1213	1.06	0.2906
rater	JW	51	0.3869	0.9895	1213	0.39	0.6959
rater	VH	51	0	1.1035	1213	0.00	1.0000
Intercept		52	1.8103	1.2148	1213	1.49	0.1364
rater	JW	52	0.5667	0.9997	1213	0.57	0.5709
rater	VH	52	0	1.1035	1213	0.00	1.0000
Intercept		53	-1.1281	0.8729	1213	-1.29	0.1965
rater	JW	53	-0.5658	0.8617	1213	-0.66	0.5115
rater	VH	53	0.2127	0.8590	1213	0.25	0.8045
Intercept		54	-0.4682	0.8838	1213	-0.53	0.5963
rater	JW	54	-0.6554	0.8693	1213	-0.75	0.4510
rater	VH	54	0.5088	0.8687	1213	0.59	0.5582
Intercept		55	1.0966	0.9015	1213	1.22	0.2241
rater	JW	55	0.4686	0.8840	1213	0.53	0.5961
rater	VH	55	-0.1253	0.8752	1213	-0.14	0.8862
Intercept		56	0.2720	0.9100	1213	0.30	0.7651
rater	JW	56	1.0751	0.8986	1213	1.20	0.2317
rater	VH	56	-0.9900	0.8884	1213	-1.11	0.2653
Intercept		57	-0.5138	1.1480	1213	-0.45	0.6546
rater	JW	57	-0.1608	0.9834	1213	-0.16	0.8701
rater	VH	57	0	1.1035	1213	0.00	1.0000
Intercept		58	-1.6795	1.1246	1213	-1.49	0.1356
rater	JW	58	-0.5257	0.9879	1213	-0.53	0.5947
rater	VH	58	0	1.1035	1213	0.00	1.0000
Intercept		59	0.6975	1.1565	1213	0.60	0.5465
rater	JW	59	0.2183	0.9851	1213	0.22	0.8246
rater	VH	59	0	1.1035	1213	0.00	1.0000
Intercept		60	3.1420	1.0283	1213	3.06	0.0023
rater	JW	60	-0.1023	0.9370	1213	-0.11	0.9131
rater	VH	60	1.0858	0.9591	1213	1.13	0.2578
Intercept		61	-0.1271	1.1400	1213	-0.11	0.9113
rater	JW	61	-0.03978	0.9818	1213	-0.04	0.9677
rater	VH	61	0	1.1035	1213	0.00	1.0000
Intercept		62	-2.2854	1.1511	1213	-1.99	0.0473
rater	JW	62	-0.7154	0.9976	1213	-0.72	0.4734
rater	VH	62	0	1.1035	1213	0.00	1.0000
Intercept		63	-1.5376	1.1411	1213	-1.35	0.1781
rater	JW	63	-0.4813	0.9885	1213	-0.49	0.6264
rater	VH	63	0	1.1035	1213	0.00	1.0000
Intercept		64	-0.5587	1.1327	1213	-0.49	0.6220
rater	JW	64	-0.1749	0.9818	1213	-0.18	0.8587
rater	VH	64	0	1.1035	1213	0.00	1.0000
Intercept		65	-0.7136	0.8990	1213	-0.79	0.4274
rater	JW	65	-0.2659	0.8781	1213	-0.30	0.7621
rater	VH	65	0.04254	0.8770	1213	0.05	0.9613
Intercept		66	-0.09330	0.8940	1213	-0.10	0.9169
rater	JW	66	-0.5176	0.8727	1213	-0.59	0.5532
rater	VH	66	0.4884	0.8786	1213	0.56	0.5784
Intercept		67	-1.2904	0.8782	1213	-1.47	0.1420
rater	JW	67	-0.06622	0.8632	1213	-0.08	0.9389
rater	VH	67	-0.3377	0.8647	1213	-0.39	0.6962
Intercept		68	2.2927	0.9401	1213	2.44	0.0149
rater	JW	68	-0.2303	0.8970	1213	-0.26	0.7974
rater	VH	68	0.9479	0.9102	1213	1.04	0.2979
Intercept		69	-1.2302	1.1476	1213	-1.07	0.2839
rater	JW	69	-0.3851	0.9868	1213	-0.39	0.6964
rater	VH	69	0	1.1035	1213	0.00	1.0000
Intercept		70	-1.7613	0.8804	1213	-2.00	0.0457
rater	JW	70	0.9818	0.8666	1213	1.13	0.2575
rater	VH	70	-1.5332	0.8835	1213	-1.74	0.0829
Intercept		71	-0.9834	0.8832	1213	-1.11	0.2657
rater	JW	71	0.07464	0.8679	1213	0.09	0.9315

Solution for Random Effects							
Effect	rater	Subject	Estimate	Std Err Pred	DF	t Value	Pr >  t
rater	VH	71	-0.3825	0.8678	1213	-0.44	0.6595
Intercept		72	1.9639	0.9217	1213	2.13	0.0333
rater	JW	72	-0.03668	0.8901	1213	-0.04	0.9671
rater	VH	72	0.6515	0.8923	1213	0.73	0.4655
Intercept		73	-1.0124	0.8689	1213	-1.17	0.2442
rater	JW	73	0.4990	0.8612	1213	0.58	0.5624
rater	VH	73	-0.8160	0.8599	1213	-0.95	0.3428
Intercept		74	1.9559	0.9227	1213	2.12	0.0342
rater	JW	74	-0.03689	0.8906	1213	-0.04	0.9670
rater	VH	74	0.6492	0.8929	1213	0.73	0.4674
Intercept		75	-0.1601	1.1357	1213	-0.14	0.8879
rater	JW	75	-0.05011	0.9813	1213	-0.05	0.9593
rater	VH	75	0	1.1035	1213	0.00	1.0000
Intercept		76	-2.1495	0.8875	1213	-2.42	0.0156
rater	JW	76	-0.4172	0.8719	1213	-0.48	0.6324
rater	VH	76	-0.2556	0.8683	1213	-0.29	0.7685
Intercept		77	-2.4322	0.9028	1213	-2.69	0.0072
rater	JW	77	0.03795	0.8720	1213	0.04	0.9653
rater	VH	77	-0.7993	0.8921	1213	-0.90	0.3704
Intercept		78	0.2741	0.8856	1213	0.31	0.7570
rater	JW	78	-0.3296	0.8684	1213	-0.38	0.7044
rater	VH	78	0.4154	0.8698	1213	0.48	0.6331
Intercept		79	-0.9126	1.1596	1213	-0.79	0.4314
rater	JW	79	-0.2857	0.9863	1213	-0.29	0.7721
rater	VH	79	0	1.1035	1213	0.00	1.0000
Intercept		80	1.2191	0.9228	1213	1.32	0.1867
rater	JW	80	0.03276	0.8907	1213	0.04	0.9707
rater	VH	80	0.3488	0.8926	1213	0.39	0.6960
Intercept		81	-0.1781	0.8819	1213	-0.20	0.8400
rater	JW	81	0.3708	0.8692	1213	0.43	0.6697
rater	VH	81	-0.4266	0.8665	1213	-0.49	0.6226
Intercept		82	2.6136	1.3365	1213	1.96	0.0507
rater	JW	82	0.8181	1.0237	1213	0.80	0.4243
rater	VH	82	0	1.1035	1213	0.00	1.0000
Intercept		83	0.9122	0.9022	1213	1.01	0.3122
rater	JW	83	1.0752	0.8970	1213	1.20	0.2309
rater	VH	83	-0.7897	0.8770	1213	-0.90	0.3680
Intercept		84	-1.9221	0.8776	1213	-2.19	0.0287
rater	JW	84	-0.6900	0.8656	1213	-0.80	0.4256
rater	VH	84	0.08829	0.8613	1213	0.10	0.9184
Intercept		85	-0.08336	0.8930	1213	-0.09	0.9256
rater	JW	85	0.7395	0.8780	1213	0.84	0.3998
rater	VH	85	-0.7656	0.8786	1213	-0.87	0.3838
Intercept		86	0.6944	1.1571	1213	0.60	0.5485
rater	JW	86	0.2174	0.9852	1213	0.22	0.8254
rater	VH	86	0	1.1035	1213	0.00	1.0000
Intercept		87	-0.5984	1.1393	1213	-0.53	0.5995
rater	JW	87	-0.1873	0.9826	1213	-0.19	0.8489
rater	VH	87	0	1.1035	1213	0.00	1.0000
Intercept		88	0.8603	0.9007	1213	0.96	0.3397
rater	JW	88	-0.2237	0.8778	1213	-0.25	0.7989
rater	VH	88	0.4930	0.8796	1213	0.56	0.5752
Intercept		89	0.2694	0.8872	1213	0.30	0.7614
rater	JW	89	0.08728	0.8705	1213	0.10	0.9202
rater	VH	89	-0.00295	0.8690	1213	-0.00	0.9973
Intercept		90	-1.3100	1.1581	1213	-1.13	0.2582
rater	JW	90	-0.4101	0.9885	1213	-0.41	0.6783
rater	VH	90	0	1.1035	1213	0.00	1.0000
Intercept		91	-0.9008	0.8751	1213	-1.03	0.3036
rater	JW	91	0.005801	0.8627	1213	0.01	0.9946
rater	VH	91	-0.2878	0.8613	1213	-0.33	0.7384
Intercept		92	2.2958	0.9523	1213	2.41	0.0161
rater	JW	92	0.3074	0.9136	1213	0.34	0.7366
rater	VH	92	0.4112	0.9030	1213	0.46	0.6489
Intercept		93	-0.3874	0.8800	1213	-0.44	0.6599

Solution for Random Effects							
Effect	rater	Subject	Estimate	Std Err Pred	DF	t Value	Pr >  t
rater	JW	93	0.5182	0.8682	1213	0.60	0.5507
rater	VH	93	-0.6395	0.8674	1213	-0.74	0.4611
Intercept		94	2.5974	0.9859	1213	2.63	0.0085
rater	JW	94	0.04936	0.9284	1213	0.05	0.9576
rater	VH	94	0.7637	0.9243	1213	0.83	0.4088
Intercept		95	0.6039	0.8907	1213	0.68	0.4979
rater	JW	95	0.7752	0.8809	1213	0.88	0.3791
rater	VH	95	-0.5861	0.8707	1213	-0.67	0.5010
Intercept		96	1.2427	1.1677	1213	1.06	0.2875
rater	JW	96	0.3890	0.9894	1213	0.39	0.6943
rater	VH	96	0	1.1035	1213	0.00	1.0000
Intercept		97	0.7453	1.1482	1213	0.65	0.5164
rater	JW	97	0.2333	0.9844	1213	0.24	0.8127
rater	VH	97	0	1.1035	1213	0.00	1.0000
Intercept		98	-2.3232	1.1297	1213	-2.06	0.0399
rater	JW	98	-0.7272	0.9958	1213	-0.73	0.4653
rater	VH	98	0	1.1035	1213	0.00	1.0000
Intercept		99	-1.6795	1.1246	1213	-1.49	0.1356
rater	JW	99	-0.5257	0.9879	1213	-0.53	0.5947
rater	VH	99	0	1.1035	1213	0.00	1.0000
Intercept		100	-2.8757	1.1911	1213	-2.41	0.0159
rater	JW	100	-0.9002	1.0105	1213	-0.89	0.3732
rater	VH	100	0	1.1035	1213	0.00	1.0000
Intercept		101	-1.0899	1.1948	1213	-0.91	0.3618
rater	JW	101	-0.3412	0.9913	1213	-0.34	0.7308
rater	VH	101	0	1.1035	1213	0.00	1.0000
Intercept		102	-0.1719	1.1379	1213	-0.15	0.8800
rater	JW	102	-0.05379	0.9816	1213	-0.05	0.9563
rater	VH	102	0	1.1035	1213	0.00	1.0000
Intercept		103	1.6289	0.9162	1213	1.78	0.0757
rater	JW	103	0.1293	0.8894	1213	0.15	0.8845
rater	VH	103	0.3806	0.8854	1213	0.43	0.6674
Intercept		104	0.2161	0.9546	1213	0.23	0.8209
rater	JW	104	-0.4994	0.9073	1213	-0.55	0.5822
rater	VH	104	0.5670	0.9161	1213	0.62	0.5361
Intercept		105	-0.9762	1.1281	1213	-0.87	0.3870
rater	JW	105	-0.3056	0.9830	1213	-0.31	0.7560
rater	VH	105	0	1.1035	1213	0.00	1.0000
Intercept		106	0.7339	1.1503	1213	0.64	0.5236
rater	JW	106	0.2297	0.9846	1213	0.23	0.8156
rater	VH	106	0	1.1035	1213	0.00	1.0000
Intercept		107	0.3770	0.8889	1213	0.42	0.6716
rater	JW	107	0.9139	0.8811	1213	1.04	0.2998
rater	VH	107	-0.7959	0.8721	1213	-0.91	0.3616
Intercept		108	-1.8979	0.8803	1213	-2.16	0.0313
rater	JW	108	-0.6830	0.8676	1213	-0.79	0.4313
rater	VH	108	0.08893	0.8631	1213	0.10	0.9180
Intercept		109	3.8348	1.1602	1213	3.31	0.0010
rater	JW	109	0.4079	0.9999	1213	0.41	0.6834
rater	VH	109	0.7926	0.9866	1213	0.80	0.4219
Intercept		110	-3.2013	0.9005	1213	-3.55	0.0004
rater	JW	110	-0.09288	0.8706	1213	-0.11	0.9151
rater	VH	110	-0.9092	0.8896	1213	-1.02	0.3069
Intercept		111	-0.9931	1.1395	1213	-0.87	0.3836
rater	JW	111	-0.3109	0.9844	1213	-0.32	0.7522
rater	VH	111	0	1.1035	1213	0.00	1.0000
Intercept		112	2.6763	0.9768	1213	2.74	0.0062
rater	JW	112	0.1182	0.9216	1213	0.13	0.8979
rater	VH	112	0.7195	0.9210	1213	0.78	0.4348
Intercept		113	0.7425	1.1487	1213	0.65	0.5182
rater	JW	113	0.2324	0.9844	1213	0.24	0.8134
rater	VH	113	0	1.1035	1213	0.00	1.0000
Intercept		114	-0.2367	1.1803	1213	-0.20	0.8411
rater	JW	114	-0.07408	0.9865	1213	-0.08	0.9402
rater	VH	114	0	1.1035	1213	0.00	1.0000

Solution for Random Effects							
Effect	rater	Subject	Estimate	Std Err Pred	DF	t Value	Pr >  t
Intercept		115	-0.1479	1.1436	1213	-0.13	0.8971
rater	JW	115	-0.04629	0.9822	1213	-0.05	0.9624
rater	VH	115	0	1.1035	1213	0.00	1.0000
Intercept		116	-0.2250	0.8873	1213	-0.25	0.7998
rater	JW	116	0.8430	0.8755	1213	0.96	0.3358
rater	VH	116	-0.9134	0.8760	1213	-1.04	0.2973
Intercept		117	0.8685	1.2218	1213	0.71	0.4773
rater	JW	117	0.2719	0.9936	1213	0.27	0.7844
rater	VH	117	0	1.1035	1213	0.00	1.0000
Intercept		118	1.2427	1.1677	1213	1.06	0.2875
rater	JW	118	0.3890	0.9894	1213	0.39	0.6943
rater	VH	118	0	1.1035	1213	0.00	1.0000
Intercept		119	-0.1737	0.9079	1213	-0.19	0.8483
rater	JW	119	0.3189	0.8850	1213	0.36	0.7187
rater	VH	119	-0.3732	0.8838	1213	-0.42	0.6729
Intercept		120	0.2741	0.8856	1213	0.31	0.7570
rater	JW	120	-0.3296	0.8684	1213	-0.38	0.7044
rater	VH	120	0.4154	0.8698	1213	0.48	0.6331
Intercept		121	0.9451	1.2039	1213	0.79	0.4326
rater	JW	121	0.2958	0.9918	1213	0.30	0.7655
rater	VH	121	0	1.1035	1213	0.00	1.0000
Intercept		122	-0.9683	0.8916	1213	-1.09	0.2777
rater	JW	122	-0.1093	0.8745	1213	-0.12	0.9006
rater	VH	122	-0.1938	0.8715	1213	-0.22	0.8240
Intercept		123	-0.8174	0.8828	1213	-0.93	0.3547
rater	JW	123	1.1821	0.8774	1213	1.35	0.1781
rater	VH	123	-1.4380	0.8802	1213	-1.63	0.1026
Intercept		124	1.2359	1.1689	1213	1.06	0.2906
rater	JW	124	0.3869	0.9895	1213	0.39	0.6959
rater	VH	124	0	1.1035	1213	0.00	1.0000
Intercept		125	-0.7716	0.9355	1213	-0.82	0.4097
rater	JW	125	0.01648	0.9040	1213	0.02	0.9855
rater	VH	125	-0.2580	0.8961	1213	-0.29	0.7735
Intercept		126	-0.1601	1.1357	1213	-0.14	0.8879
rater	JW	126	-0.05011	0.9813	1213	-0.05	0.9593
rater	VH	126	0	1.1035	1213	0.00	1.0000
Intercept		127	-1.3445	1.1274	1213	-1.19	0.2333
rater	JW	127	-0.4209	0.9854	1213	-0.43	0.6694
rater	VH	127	0	1.1035	1213	0.00	1.0000
Intercept		128	1.3614	0.9076	1213	1.50	0.1339
rater	JW	128	0.2857	0.8868	1213	0.32	0.7474
rater	VH	128	0.1405	0.8783	1213	0.16	0.8730
Intercept		129	0.2851	1.1395	1213	0.25	0.8025
rater	JW	129	0.08923	0.9820	1213	0.09	0.9276
rater	VH	129	0	1.1035	1213	0.00	1.0000
Intercept		130	0.6975	1.1565	1213	0.60	0.5465
rater	JW	130	0.2183	0.9851	1213	0.22	0.8246
rater	VH	130	0	1.1035	1213	0.00	1.0000
Intercept		131	1.9337	0.9256	1213	2.09	0.0369
rater	JW	131	-0.03754	0.8921	1213	-0.04	0.9664
rater	VH	131	0.6428	0.8947	1213	0.72	0.4726
Intercept		132	0.7488	0.9153	1213	0.82	0.4134
rater	JW	132	-0.6979	0.8870	1213	-0.79	0.4316
rater	VH	132	0.9323	0.8956	1213	1.04	0.2981
Intercept		133	-0.1601	1.1357	1213	-0.14	0.8879
rater	JW	133	-0.05011	0.9813	1213	-0.05	0.9593
rater	VH	133	0	1.1035	1213	0.00	1.0000
Intercept		134	-1.7199	0.8897	1213	-1.93	0.0535
rater	JW	134	0.9552	0.8710	1213	1.10	0.2730
rater	VH	134	-1.4935	0.8928	1213	-1.67	0.0946
Intercept		135	-1.4210	0.8691	1213	-1.64	0.1023
rater	JW	135	0.3885	0.8585	1213	0.45	0.6510
rater	VH	135	-0.8333	0.8612	1213	-0.97	0.3335
Intercept		136	-1.3599	0.9277	1213	-1.47	0.1429
rater	JW	136	-0.5680	0.8984	1213	-0.63	0.5274



Solution for Random Effects							
Effect	rater	Subject	Estimate	Std Err Pred	DF	t Value	Pr >  t
rater	VH	136	0.1423	0.8923	1213	0.16	0.8734
Intercept		137	-3.3651	0.9485	1213	-3.55	0.0004
rater	JW	137	-0.8566	0.9104	1213	-0.94	0.3469
rater	VH	137	-0.1968	0.9062	1213	-0.22	0.8281
Intercept		138	-0.8095	0.9602	1213	-0.84	0.3994
rater	JW	138	-0.8992	0.9148	1213	-0.98	0.3258
rater	VH	138	0.6458	0.9217	1213	0.70	0.4837
Intercept		139	1.8204	1.2131	1213	1.50	0.1337
rater	JW	139	0.5698	0.9996	1213	0.57	0.5687
rater	VH	139	0	1.1035	1213	0.00	1.0000
Intercept		140	-2.5704	1.1267	1213	-2.28	0.0227
rater	JW	140	-0.8046	0.9989	1213	-0.81	0.4207
rater	VH	140	0	1.1035	1213	0.00	1.0000
Intercept		141	-0.8046	0.8825	1213	-0.91	0.3621
rater	JW	141	0.7846	0.8702	1213	0.90	0.3674
rater	VH	141	-1.0365	0.8754	1213	-1.18	0.2366
Intercept		142	-2.5977	1.1200	1213	-2.32	0.0205
rater	JW	142	-0.8132	0.9986	1213	-0.81	0.4156
rater	VH	142	0	1.1035	1213	0.00	1.0000
Intercept		143	-0.05040	0.8965	1213	-0.06	0.9552
rater	JW	143	0.7754	0.8834	1213	0.88	0.3802
rater	VH	143	-0.7912	0.8787	1213	-0.90	0.3681
Intercept		144	1.2427	1.1677	1213	1.06	0.2875
rater	JW	144	0.3890	0.9894	1213	0.39	0.6943
rater	VH	144	0	1.1035	1213	0.00	1.0000
Intercept		145	3.8348	1.1602	1213	3.31	0.0010
rater	JW	145	0.4079	0.9999	1213	0.41	0.6834
rater	VH	145	0.7926	0.9866	1213	0.80	0.4219
Intercept		146	-3.6919	0.9070	1213	-4.07	<.0001
rater	JW	146	-0.5818	0.8771	1213	-0.66	0.5073
rater	VH	146	-0.5739	0.8889	1213	-0.65	0.5186
Intercept		147	-1.7027	1.1307	1213	-1.51	0.1324
rater	JW	147	-0.5330	0.9888	1213	-0.54	0.5900
rater	VH	147	0	1.1035	1213	0.00	1.0000
Intercept		148	-1.5202	0.8688	1213	-1.75	0.0804
rater	JW	148	-0.6343	0.8589	1213	-0.74	0.4603
rater	VH	148	0.1585	0.8555	1213	0.19	0.8531
Intercept		149	-2.8794	0.8971	1213	-3.21	0.0014
rater	JW	149	0.6359	0.8648	1213	0.74	0.4623
rater	VH	149	-1.5372	0.9069	1213	-1.69	0.0903
Intercept		150	1.9337	0.9256	1213	2.09	0.0369
rater	JW	150	-0.03754	0.8921	1213	-0.04	0.9664
rater	VH	150	0.6428	0.8947	1213	0.72	0.4726
Intercept		151	-1.3676	0.8842	1213	-1.55	0.1222
rater	JW	151	-0.5916	0.8700	1213	-0.68	0.4966
rater	VH	151	0.1635	0.8665	1213	0.19	0.8503
Intercept		152	-0.3345	0.8874	1213	-0.38	0.7063
rater	JW	152	1.3029	0.8859	1213	1.47	0.1417
rater	VH	152	-1.4076	0.8811	1213	-1.60	0.1104
Intercept		153	-0.5587	1.1327	1213	-0.49	0.6220
rater	JW	153	-0.1749	0.9818	1213	-0.18	0.8587
rater	VH	153	0	1.1035	1213	0.00	1.0000
Intercept		154	-0.1853	1.1403	1213	-0.16	0.8709
rater	JW	154	-0.05801	0.9819	1213	-0.06	0.9529
rater	VH	154	0	1.1035	1213	0.00	1.0000
Intercept		155	-1.1475	0.8917	1213	-1.29	0.1984
rater	JW	155	-0.3783	0.8756	1213	-0.43	0.6658
rater	VH	155	0.01909	0.8704	1213	0.02	0.9825
Intercept		156	-0.5587	1.1327	1213	-0.49	0.6220
rater	JW	156	-0.1749	0.9818	1213	-0.18	0.8587
rater	VH	156	0	1.1035	1213	0.00	1.0000
Intercept		157	-1.6177	1.1368	1213	-1.42	0.1550
rater	JW	157	-0.5064	0.9887	1213	-0.51	0.6086
rater	VH	157	0	1.1035	1213	0.00	1.0000
Intercept		158	0.2851	1.1395	1213	0.25	0.8025

Solution for Random Effects							
Effect	rater	Subject	Estimate	Std Err Pred	DF	t Value	Pr >  t
rater	JW	158	0.08923	0.9820	1213	0.09	0.9276
rater	VH	158	0	1.1035	1213	0.00	1.0000
Intercept		159	1.8103	1.2148	1213	1.49	0.1364
rater	JW	159	0.5667	0.9997	1213	0.57	0.5709
rater	VH	159	0	1.1035	1213	0.00	1.0000
Intercept		160	0.2070	1.1525	1213	0.18	0.8575
rater	JW	160	0.06479	0.9833	1213	0.07	0.9475
rater	VH	160	0	1.1035	1213	0.00	1.0000
Intercept		161	-1.0362	0.9052	1213	-1.14	0.2525
rater	JW	161	-1.2846	0.8894	1213	-1.44	0.1489
rater	VH	161	0.9603	0.8901	1213	1.08	0.2809

Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
RUL vs RML	-1.4368	0.1979	1213	-7.26	<.0001	0.05	-1.8250	-1.0485
RUL vs RLL	0.2411	0.1928	1213	1.25	0.2114	0.05	-0.1371	0.6193
RUL vs LUS	1.9174	0.2150	1213	8.92	<.0001	0.05	1.4955	2.3393
RUL vs LLS	-0.6418	0.1920	1213	-3.34	0.0009	0.05	-1.0185	-0.2651
RUL vs LLL	0.8194	0.1985	1213	4.13	<.0001	0.05	0.4300	1.2088
RML vs RLL	1.6778	0.1995	1213	8.41	<.0001	0.05	1.2863	2.0693
RML vs LUS	3.3542	0.2315	1213	14.49	<.0001	0.05	2.9001	3.8083
RML vs LLS	0.7950	0.1925	1213	4.13	<.0001	0.05	0.4172	1.1727
RML vs LLL	2.2562	0.2087	1213	10.81	<.0001	0.05	1.8468	2.6656
RLL vs LUS	1.6763	0.2133	1213	7.86	<.0001	0.05	1.2578	2.0949
RLL vs LLS	-0.8829	0.1928	1213	-4.58	<.0001	0.05	-1.2612	-0.5046
RLL vs LLL	0.5784	0.1977	1213	2.93	0.0035	0.05	0.1906	0.9662
LUS vs LLS	-2.5592	0.2200	1213	-11.63	<.0001	0.05	-2.9908	-2.1276
LUS vs LLL	-1.0980	0.2137	1213	-5.14	<.0001	0.05	-1.5171	-0.6788
LLS vs LLL	1.4612	0.2001	1213	7.30	<.0001	0.05	1.0686	1.8539

#### Significant Pairwise Comparisons for branch

Comparison	P-Value	Exponentiated Estimate (Odds Ratio)
RUL vs RML	<.0001	0.2377
RUL vs LUS	<.0001	6.8032
RUL vs LLS	0.0009	0.5263
RUL vs LLL	<.0001	2.2692
RML vs RLL	<.0001	5.3539
RML vs LUS	<.0001	28.6217
RML vs LLS	<.0001	2.2144
RML vs LLL	<.0001	9.5467
RLL vs LUS	<.0001	5.3460
RLL vs LLS	<.0001	0.4136
RLL vs LLL	0.0035	1.7831
LUS vs LLS	<.0001	0.0774
LUS vs LLL	<.0001	0.3335
LLS vs LLL	<.0001	4.3113