

Chapter 14

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Appendix 1. Definitions of the life forms used in the study follows an adaptation of Raunkiaer's life forms (1934), modified from Mueller-Dombois and Ellenberg (1974)

Life form	General description
Phanerophyte	Plants that grow taller than 50 cm, or whose shoots die back periodically to that height limit.
Chamaephyte	Plants whose mature branch or shoot system remains perennially within 50 cm above ground surface, or plants that grow taller than 50 cm, but those shoots die back periodically to that height limit. Another typical habit is sprawling along the ground.
Hemicryptophyte	Perennial (including biennial) herbaceous plants with periodic shoot reduction to a remnant shoot system that lies relatively flat on the ground surface. Typically herbaceous throughout but can show some secondary lignification, particularly when standing as a dead remnant.
Cryptophyte (Geophytes)	Perennial (including biennial) herbaceous plants with periodic shoot reduction of the complete shoot system to storage organs that are imbedded in the soil.
Therophyte	Annuals. Plants whose shoot and root systems die after seed production and which complete their whole life cycle within one year.
Liana	Plants that grow by supporting themselves on others. Plants that germinate on the ground and maintain contact with the soil.
Vascular semi-parasites	Green vascular plants growing attached to other living autotrophic plants.
Vascular parasites	Heterotrophic plants, vascular plants growing on living plants.



Appendix 2. SAS output using the General Linear Model (GLM) Procedure on associations and life form (species level and cover level)

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(G01-R2b) : PROC GLM with CLASS varbs of ASSOC & LFORM and MODEL of TLFORMS TLFORMC = ASSOC|LFORM
from data set MWVRA 13:00 Monday, June 8, 2009

The GLM Procedure

Class Level Information

Class	Levels	Values
ASSOC	8	Assoc-1 Assoc-2 Assoc-3 Assoc-4 Assoc-5 Assoc-6 Assoc-7 Assoc-8
LFORM	7	Chamaeoph Cryptoph Hemicryp Liana Parasite Phaneroph Therophy

Number of observations 280



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from data set MWVRA 13:00 Monday, June 8, 2009

The GLM Procedure

Dependent Variable: TLFORMS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	55	82.33434636	1.49698812	29.48	<.0001
Error	224	11.37415544	0.05077748		
Corrected Total	279	93.70850180			

R-Square Coeff Var Root MSE TLFORMS Mean
0.878622 25.26565 0.225339 0.891877

Source	DF	Type I SS	Mean Square	F Value	Pr > F
ASSOC	7	0.82047551	0.11721079	2.31	0.0273
LFORM	6	75.09709099	12.51618183	246.49	<.0001
ASSOC*LFORM	42	6.41677986	0.15278047	3.01	<.0001

Source	DF	Type II SS	Mean Square	F Value	Pr > F
ASSOC	7	0.82047551	0.11721079	2.31	0.0273
LFORM	6	75.09709099	12.51618183	246.49	<.0001
ASSOC*LFORM	42	6.41677986	0.15278047	3.01	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
ASSOC	7	0.82047551	0.11721079	2.31	0.0273
LFORM	6	58.13928735	9.68988122	190.83	<.0001
ASSOC*LFORM	42	6.41677986	0.15278047	3.01	<.0001



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(G01-R2b) : PROC GLM with CLASS varbs of ASSOC & LFORM and MODEL of TLFORMS TLFORMC = ASSOC|LFORM
from data set MWVRA 13:00 Monday, June 8, 2009

The GLM Procedure

Dependent Variable: TLFORMC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	55	89.5475298	1.6281369	23.44	<.0001
Error	224	15.5604760	0.0694664		
Corrected Total	279	105.1080057			

R-Square Coeff Var Root MSE TLFORMC Mean
0.851957 34.22121 0.263565 0.770180

Source	DF	Type I SS	Mean Square	F Value	Pr > F
ASSOC	7	1.79438757	0.25634108	3.69	0.0009
LFORM	6	75.90779762	12.65129960	182.12	<.0001
ASSOC*LFORM	42	11.84534459	0.28203201	4.06	<.0001

Source	DF	Type II SS	Mean Square	F Value	Pr > F
ASSOC	7	1.79438757	0.25634108	3.69	0.0009
LFORM	6	75.90779762	12.65129960	182.12	<.0001
ASSOC*LFORM	42	11.84534459	0.28203201	4.06	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
ASSOC	7	1.79438757	0.25634108	3.69	0.0009
LFORM	6	61.79560939	10.29926823	148.26	<.0001
ASSOC*LFORM	42	11.84534459	0.28203201	4.06	<.0001



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(G01-R2b) : PROC GLM with CLASS varbs of ASSOC & LFORM and MODEL of TLFORMS TLFORMC = ASSOC|LFORM
from data set MWVRA 13:00 Monday, June 8, 2009

The GLM Procedure
Least Squares Means

ASSOC	TLFORMS LSMEAN	Standard Error	Pr > t	LSMEAN Number
Assoc-1	0.89868721	0.03808917	<.0001	1
Assoc-2	0.94954058	0.02693311	<.0001	2
Assoc-3	0.90234715	0.06022427	<.0001	3
Assoc-4	0.96121004	0.04258499	<.0001	4
Assoc-5	0.87039268	0.02838999	<.0001	5
Assoc-6	0.86581711	0.04917291	<.0001	6
Assoc-7	0.79858925	0.04258499	<.0001	7
Assoc-8	0.80378893	0.04917291	<.0001	8

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

Dependent Variable: TLFORMS

i/j	1	2	3	4	5	6	7	8
1		0.2768	0.9591	0.2750	0.5520	0.5977	0.0811	0.1285
2	0.2768		0.4751	0.8171	0.0443	0.1368	0.0030	0.0100
3	0.9591	0.4751		0.4257	0.6317	0.6389	0.1609	0.2062
4	0.2750	0.8171	0.4257		0.0773	0.1439	0.0075	0.0163
5	0.5520	0.0443	0.6317	0.0773		0.9358	0.1620	0.2420
6	0.5977	0.1368	0.6389	0.1439	0.9358		0.3025	0.3734
7	0.0811	0.0030	0.1609	0.0075	0.1620	0.3025		0.9364
8	0.1285	0.0100	0.2062	0.0163	0.2420	0.3734	0.9364	

ASSOC	TLFORMC LSMEAN	Standard Error	Pr > t	LSMEAN Number
Assoc-1	0.83373591	0.04455058	<.0001	1
Assoc-2	0.83709578	0.03150202	<.0001	2
Assoc-3	0.87766656	0.07044066	<.0001	3
Assoc-4	0.85070622	0.04980907	<.0001	4
Assoc-5	0.65650312	0.03320605	<.0001	5



Assoc-6	0.70765762	0.05751456	<.0001	6
Assoc-7	0.72008634	0.04980907	<.0001	7
Assoc-8	0.73251506	0.05751456	<.0001	8



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 (G01-R2b) : PROC GLM with CLASS varbs of ASSOC & LFORM and MODEL of TLFORMS TLFORMC = ASSOC|LFORM
 from data set MWVRA 13:00 Monday, June 8, 2009

The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMC

i/j	1	2	3	4	5	6	7	8
1		0.9510	0.5987	0.7998	0.0016	0.0845	0.0904	0.1655
2	0.9510		0.5996	0.8176	0.0001	0.0496	0.0483	0.1122
3	0.5987	0.5996		0.7549	0.0049	0.0629	0.0691	0.1119
4	0.7998	0.8176	0.7549		0.0014	0.0614	0.0650	0.1217
5	0.0016	0.0001	0.0049	0.0014		0.4420	0.2893	0.2536
6	0.0845	0.0496	0.0629	0.0614	0.4420		0.8704	0.7602
7	0.0904	0.0483	0.0691	0.0650	0.2893	0.8704		0.8704
8	0.1655	0.1122	0.1119	0.1217	0.2536	0.7602	0.8704	

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

LFORM	TLFORMS LSMEAN	Standard Error	Pr > t	LSMEAN Number
Chamaeph	1.50522443	0.04060179	<.0001	1
Cryptoph	1.40205641	0.04060179	<.0001	2
Hemicryp	1.01781788	0.04060179	<.0001	3
Liana	0.42142122	0.04060179	<.0001	4
Parasite	0.01739224	0.04060179	0.6688	5
Phanerop	0.54926133	0.04060179	<.0001	6
Therophy	1.25590281	0.04060179	<.0001	7

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

Dependent Variable: TLFORMS

i/j	1	2	3	4	5	6	7
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1		0.0737	<.0001	<.0001	<.0001	<.0001	<.0001
2	0.0737		<.0001	<.0001	<.0001	<.0001	0.0116
3	<.0001	<.0001		<.0001	<.0001	<.0001	<.0001
4	<.0001	<.0001	<.0001		<.0001	0.0270	<.0001
5	<.0001	<.0001	<.0001	<.0001		<.0001	<.0001
6	<.0001	<.0001	<.0001	0.0270	<.0001		<.0001
7	<.0001	0.0116	<.0001	<.0001	<.0001	<.0001	

LFORM	TLFORMC LSMEAN	Standard Error	Pr > t	LSMEAN Number
Chamaeph	1.63414432	0.04748943	<.0001	1
Cryptoph	1.07586243	0.04748943	<.0001	2



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 (G01-R2b) : PROC GLM with CLASS varbs of ASSOC & LFORM and MODEL of TLFORMS TLFORMC = ASSOC|LFORM
 from data set MWVRA 13:00 Monday, June 8, 2009

The GLM Procedure
Least Squares Means

LFORM	TLFORMC LSMEAN	Standard Error	Pr > t	LSMEAN Number
Hemicryp	0.55127493	0.04748943	<.0001	3
Liana	0.17438228	0.04748943	0.0003	4
Parasite	0.00645210	0.04748943	0.8921	5
Phanerop	0.80311690	0.04748943	<.0001	6
Therophy	1.19373782	0.04748943	<.0001	7

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

Dependent Variable: TLFORMC

i/j	1	2	3	4	5	6	7
1		<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
2	<.0001		<.0001	<.0001	<.0001	<.0001	0.0806
3	<.0001	<.0001		<.0001	<.0001	0.0002	<.0001
4	<.0001	<.0001	<.0001		0.0131	<.0001	<.0001
5	<.0001	<.0001	<.0001	0.0131		<.0001	<.0001
6	<.0001	<.0001	0.0002	<.0001	<.0001		<.0001
7	<.0001	0.0806	<.0001	<.0001	<.0001	<.0001	

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

ASSOC	LFORM	TLFORMS LSMEAN	Standard Error	Pr > t	LSMEAN Number
Assoc-1	Chamaeph	1.40579972	0.10077448	<.0001	1
Assoc-1	Cryptoph	1.52910877	0.10077448	<.0001	2
Assoc-1	Hemicryp	1.02342810	0.10077448	<.0001	3
Assoc-1	Liana	0.24213508	0.10077448	0.0171	4
Assoc-1	Parasite	0.06925151	0.10077448	0.4927	5
Assoc-1	Phanerop	0.57687011	0.10077448	<.0001	6



Assoc-1	Therophy	1.44421721	0.10077448	<.0001	7
Assoc-2	Chamaeph	1.42305156	0.07125832	<.0001	8
Assoc-2	Cryptoph	1.49284872	0.07125832	<.0001	9
Assoc-2	Hemicryp	0.95332723	0.07125832	<.0001	10
Assoc-2	Liana	0.50271622	0.07125832	<.0001	11
Assoc-2	Parasite	0.06988639	0.07125832	0.3278	12
Assoc-2	Phanerop	0.76663244	0.07125832	<.0001	13
Assoc-2	Therophy	1.43832148	0.07125832	<.0001	14
Assoc-3	Chamaeph	1.55128198	0.15933844	<.0001	15
Assoc-3	Cryptoph	1.44509020	0.15933844	<.0001	16
Assoc-3	Hemicryp	0.93252574	0.15933844	<.0001	17
Assoc-3	Liana	0.32812797	0.15933844	0.0406	18
Assoc-3	Parasite	0.00000000	0.15933844	1.0000	19
Assoc-3	Phanerop	0.62991484	0.15933844	0.0001	20
Assoc-3	Therophy	1.42948930	0.15933844	<.0001	21



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ASSOC	LFORM	TLFORMS LSMEAN	Standard Error	Pr > t	LSMEAN Number
Assoc-4	Chamaeph	1.54448545	0.11266929	<.0001	22
Assoc-4	Cryptoph	1.40983187	0.11266929	<.0001	23
Assoc-4	Hemicryp	0.93861361	0.11266929	<.0001	24
Assoc-4	Liana	0.65186376	0.11266929	<.0001	25
Assoc-4	Parasite	0.00000000	0.11266929	1.0000	26
Assoc-4	Phanerop	0.82446803	0.11266929	<.0001	27
Assoc-4	Therophy	1.35920757	0.11266929	<.0001	28
Assoc-5	Chamaeph	1.42540218	0.07511286	<.0001	29
Assoc-5	Cryptoph	1.43693234	0.07511286	<.0001	30
Assoc-5	Hemicryp	0.89296187	0.07511286	<.0001	31
Assoc-5	Liana	0.46675505	0.07511286	<.0001	32
Assoc-5	Parasite	0.00000000	0.07511286	1.0000	33
Assoc-5	Phanerop	0.39429436	0.07511286	<.0001	34
Assoc-5	Therophy	1.47640293	0.07511286	<.0001	35
Assoc-6	Chamaeph	1.48946295	0.13009929	<.0001	36
Assoc-6	Cryptoph	1.38353060	0.13009929	<.0001	37
Assoc-6	Hemicryp	1.05927906	0.13009929	<.0001	38
Assoc-6	Liana	0.34376881	0.13009929	0.0088	39
Assoc-6	Parasite	0.00000000	0.13009929	1.0000	40
Assoc-6	Phanerop	0.27551096	0.13009929	0.0353	41
Assoc-6	Therophy	1.50916739	0.13009929	<.0001	42
Assoc-7	Chamaeph	1.66395649	0.11266929	<.0001	43
Assoc-7	Cryptoph	1.02295968	0.11266929	<.0001	44
Assoc-7	Hemicryp	1.17086599	0.11266929	<.0001	45
Assoc-7	Liana	0.17134930	0.11266929	0.1297	46
Assoc-7	Parasite	0.00000000	0.11266929	1.0000	47
Assoc-7	Phanerop	0.56533860	0.11266929	<.0001	48
Assoc-7	Therophy	0.99565470	0.11266929	<.0001	49
Assoc-8	Chamaeph	1.53835509	0.13009929	<.0001	50
Assoc-8	Cryptoph	1.49614910	0.13009929	<.0001	51
Assoc-8	Hemicryp	1.17154145	0.13009929	<.0001	52
Assoc-8	Liana	0.66465360	0.13009929	<.0001	53
Assoc-8	Parasite	0.00000000	0.13009929	1.0000	54
Assoc-8	Phanerop	0.36106133	0.13009929	0.0060	55
Assoc-8	Therophy	0.39476191	0.13009929	0.0027	56



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The GLM Procedure
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Least Squares Means for effect ASSOC*LFORM
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TLFORMS

i/j	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1		0.3878	0.0078	<.0001	<.0001	<.0001	0.7877	0.8890	0.4814	0.0003	<.0001	<.0001	<.0001	0.7924
2	0.3878		0.0005	<.0001	<.0001	<.0001	0.5520	0.3911	0.7692	<.0001	<.0001	<.0001	<.0001	0.4628
3	0.0078	0.0005		<.0001	<.0001	0.0020	0.0035	0.0014	0.0002	0.5706	<.0001	<.0001	0.0386	0.0009
4	<.0001	<.0001	<.0001		0.2264	0.0197	<.0001	<.0001	<.0001	<.0001	0.0359	0.1642	<.0001	<.0001
5	<.0001	<.0001	<.0001	0.2264		0.0004	<.0001	<.0001	<.0001	<.0001	0.0005	0.9959	<.0001	<.0001
6	<.0001	<.0001	0.0020	0.0197	0.0004		<.0001	<.0001	<.0001	0.0026	0.5486	<.0001	0.1256	<.0001
7	0.7877	0.5520	0.0035	<.0001	<.0001	<.0001		0.8640	0.6939	<.0001	<.0001	<.0001	<.0001	0.9619
8	0.8890	0.3911	0.0014	<.0001	<.0001	<.0001	0.8640		0.4893	<.0001	<.0001	<.0001	<.0001	0.8797
9	0.4814	0.7692	0.0002	<.0001	<.0001	<.0001	0.6939	0.4893		<.0001	<.0001	<.0001	<.0001	0.5890
10	0.0003	<.0001	0.5706	<.0001	<.0001	0.0026	<.0001	<.0001	<.0001		<.0001	<.0001	0.0653	<.0001
11	<.0001	<.0001	<.0001	0.0359	0.0005	0.5486	<.0001	<.0001	<.0001	<.0001		<.0001	0.0094	<.0001
12	<.0001	<.0001	<.0001	0.1642	0.9959	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001		<.0001	<.0001
13	<.0001	<.0001	0.0386	<.0001	<.0001	0.1256	<.0001	<.0001	<.0001	0.0653	0.0094	<.0001		<.0001
14	0.7924	0.4628	0.0009	<.0001	<.0001	<.0001	0.9619	0.8797	0.5890	<.0001	<.0001	<.0001	<.0001	
15	0.4411	0.9065	0.0056	<.0001	<.0001	<.0001	0.5707	0.4633	0.7381	0.0007	<.0001	<.0001	<.0001	0.5182
16	0.8351	0.6563	0.0263	<.0001	<.0001	<.0001	0.9963	0.8996	0.7846	0.0053	<.0001	<.0001	0.0001	0.9691
17	0.0128	0.0018	0.6302	0.0003	<.0001	0.0605	0.0072	0.0054	0.0015	0.9052	0.0146	<.0001	0.3429	0.0041
18	<.0001	<.0001	0.0003	0.6487	0.1711	0.1884	<.0001	<.0001	<.0001	0.0004	0.3183	0.1404	0.0127	<.0001
19	<.0001	<.0001	<.0001	0.2004	0.7137	0.0025	<.0001	<.0001	<.0001	<.0001	0.0044	0.6893	<.0001	<.0001
20	<.0001	<.0001	0.0380	0.0409	0.0033	0.7787	<.0001	<.0001	<.0001	0.0652	0.4669	0.0015	0.4343	<.0001
21	0.9001	0.5977	0.0323	<.0001	<.0001	<.0001	0.9378	0.9706	0.7170	0.0069	<.0001	<.0001	0.0002	0.9597
22	0.3599	0.9191	0.0007	<.0001	<.0001	<.0001	0.5078	0.3633	0.6989	<.0001	<.0001	<.0001	<.0001	0.4267
23	0.9787	0.4309	0.0112	<.0001	<.0001	<.0001	0.8203	0.9211	0.5341	0.0007	<.0001	<.0001	<.0001	0.8310
24	0.0023	0.0001	0.5753	<.0001	<.0001	0.0175	0.0010	0.0003	<.0001	0.9122	0.0012	<.0001	0.1984	0.0002
25	<.0001	<.0001	0.0147	0.0072	0.0002	0.6203	<.0001	<.0001	<.0001	0.0247	0.2644	<.0001	0.3902	<.0001
26	<.0001	<.0001	<.0001	0.1106	0.6473	0.0002	<.0001	<.0001	<.0001	<.0001	0.0002	0.6006	<.0001	<.0001
27	0.0002	<.0001	0.1894	0.0002	<.0001	0.1028	<.0001	<.0001	<.0001	0.3348	0.0166	<.0001	0.6648	<.0001
28	0.7582	0.2622	0.0273	<.0001	<.0001	<.0001	0.5744	0.6325	0.3172	0.0026	<.0001	<.0001	<.0001	0.5535
29	0.8762	0.4102	0.0016	<.0001	<.0001	<.0001	0.8811	0.9819	0.5154	<.0001	<.0001	<.0001	<.0001	0.9008
30	0.8046	0.4641	0.0012	<.0001	<.0001	<.0001	0.9538	0.8935	0.5897	<.0001	<.0001	<.0001	<.0001	0.9893
31	<.0001	<.0001	0.3004	<.0001	<.0001	0.0126	<.0001	<.0001	<.0001	0.5605	0.0002	<.0001	0.2237	<.0001



32	<.0001	<.0001	<.0001	0.0753	0.0018	0.3819	<.0001	<.0001	<.0001	<.0001	0.7287	0.0002	0.0041	<.0001
33	<.0001	<.0001	<.0001	0.0553	0.5822	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.5004	<.0001	<.0001
34	<.0001	<.0001	<.0001	0.2273	0.0103	0.1477	<.0001	<.0001	<.0001	<.0001	0.2961	0.0020	0.0004	<.0001
35	0.5749	0.6754	0.0004	<.0001	<.0001	<.0001	0.7981	0.6069	0.8739	<.0001	<.0001	<.0001	<.0001	0.7134
36	0.6117	0.8098	0.0050	<.0001	<.0001	<.0001	0.7836	0.6548	0.9818	0.0004	<.0001	<.0001	<.0001	0.7306
37	0.8925	0.3773	0.0297	<.0001	<.0001	<.0001	0.7126	0.7902	0.4619	0.0041	<.0001	<.0001	<.0001	0.7122
38	0.0363	0.0047	0.8277	<.0001	<.0001	0.0037	0.0202	0.0150	0.0038	0.4758	0.0002	<.0001	0.0497	0.0113
39	<.0001	<.0001	<.0001	0.5375	0.0967	0.1580	<.0001	<.0001	<.0001	<.0001	0.2851	0.0662	0.0048	<.0001
40	<.0001	<.0001	<.0001	0.1426	0.6743	0.0006	<.0001	<.0001	<.0001	<.0001	0.0008	0.6380	<.0001	<.0001
41	<.0001	<.0001	<.0001	0.8395	0.2114	0.0684	<.0001	<.0001	<.0001	<.0001	0.1270	0.1671	0.0011	<.0001
42	0.5306	0.9037	0.0035	<.0001	<.0001	<.0001	0.6935	0.5621	0.9125	0.0002	<.0001	<.0001	<.0001	0.6334
43	0.0891	0.3733	<.0001	<.0001	<.0001	<.0001	0.1474	0.0721	0.2006	<.0001	<.0001	<.0001	<.0001	0.0919
44	0.0120	0.0010	0.9975	<.0001	<.0001	0.0035	0.0058	0.0030	0.0005	0.6020	0.0001	<.0001	0.0558	0.0021
45	0.1216	0.0186	0.3304	<.0001	<.0001	0.0001	0.0719	0.0598	0.0165	0.1041	<.0001	<.0001	0.0027	0.0460
46	<.0001	<.0001	<.0001	0.6400	0.5001	0.0078	<.0001	<.0001	<.0001	<.0001	0.0137	0.4474	<.0001	<.0001



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

Dependent Variable: TLFORMS

i/j	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	0.4411	0.8351	0.0128	<.0001	<.0001	<.0001	0.9001	0.3599	0.9787	0.0023	<.0001	<.0001	0.0002	0.7582
2	0.9065	0.6563	0.0018	<.0001	<.0001	<.0001	0.5977	0.9191	0.4309	0.0001	<.0001	<.0001	<.0001	0.2622
3	0.0056	0.0263	0.6302	0.0003	<.0001	0.0380	0.0323	0.0007	0.0112	0.5753	0.0147	<.0001	0.1894	0.0273
4	<.0001	<.0001	0.0003	0.6487	0.2004	0.0409	<.0001	<.0001	<.0001	<.0001	0.0072	0.1106	0.0002	<.0001
5	<.0001	<.0001	<.0001	0.1711	0.7137	0.0033	<.0001	<.0001	<.0001	<.0001	0.0002	0.6473	<.0001	<.0001
6	<.0001	<.0001	0.0605	0.1884	0.0025	0.7787	<.0001	<.0001	<.0001	0.0175	0.6203	0.0002	0.1028	<.0001
7	0.5707	0.9963	0.0072	<.0001	<.0001	<.0001	0.9378	0.5078	0.8203	0.0010	<.0001	<.0001	<.0001	0.5744
8	0.4633	0.8996	0.0054	<.0001	<.0001	<.0001	0.9706	0.3633	0.9211	0.0003	<.0001	<.0001	<.0001	0.6325
9	0.7381	0.7846	0.0015	<.0001	<.0001	<.0001	0.7170	0.6989	0.5341	<.0001	<.0001	<.0001	<.0001	0.3172
10	0.0007	0.0053	0.9052	0.0004	<.0001	0.0652	0.0069	<.0001	0.0007	0.9122	0.0247	<.0001	0.3348	0.0026
11	<.0001	<.0001	0.0146	0.3183	0.0044	0.4669	<.0001	<.0001	<.0001	0.0012	0.2644	0.0002	0.0166	<.0001
12	<.0001	<.0001	<.0001	0.1404	0.6893	0.0015	<.0001	<.0001	<.0001	<.0001	<.0001	0.6006	<.0001	<.0001
13	<.0001	0.0001	0.3429	0.0127	<.0001	0.4343	0.0002	<.0001	<.0001	0.1984	0.3902	<.0001	0.6648	<.0001
14	0.5182	0.9691	0.0041	<.0001	<.0001	<.0001	0.9597	0.4267	0.8310	0.0002	<.0001	<.0001	<.0001	0.5535
15		0.6379	0.0065	<.0001	<.0001	<.0001	0.5894	0.9722	0.4693	0.0019	<.0001	<.0001	0.0002	0.3261
16	0.6379		0.0239	<.0001	<.0001	0.0004	0.9449	0.6110	0.8568	0.0101	<.0001	<.0001	0.0017	0.6603
17	0.0065	0.0239		0.0079	<.0001	0.1807	0.0284	0.0019	0.0152	0.9751	0.1518	<.0001	0.5803	0.0298
18	<.0001	<.0001	0.0079		0.1467	0.1818	<.0001	<.0001	<.0001	0.0020	0.0985	0.0941	0.0117	<.0001
19	<.0001	<.0001	<.0001	0.1467		0.0056	<.0001	<.0001	<.0001	<.0001	0.0010	1.0000	<.0001	<.0001
20	<.0001	0.0004	0.1807	0.1818	0.0056		0.0005	<.0001	<.0001	0.1151	0.9105	0.0014	0.3199	0.0002
21	0.5894	0.9449	0.0284	<.0001	<.0001	0.0005		0.5563	0.9199	0.0126	<.0001	<.0001	0.0022	0.7191
22	0.9722	0.6110	0.0019	<.0001	<.0001	<.0001	0.5563		0.3990	0.0002	<.0001	<.0001	<.0001	0.2462
23	0.4693	0.8568	0.0152	<.0001	<.0001	<.0001	0.9199	0.3990		0.0034	<.0001	<.0001	0.0003	0.7510
24	0.0019	0.0101	0.9751	0.0020	<.0001	0.1151	0.0126	0.0002	0.0034		0.0733	<.0001	0.4745	0.0089
25	<.0001	<.0001	0.1518	0.0985	0.0010	0.9105	<.0001	<.0001	<.0001	0.0733		<.0001	0.2799	<.0001
26	<.0001	<.0001	<.0001	0.0941	1.0000	0.0014	<.0001	<.0001	<.0001	<.0001	<.0001		<.0001	<.0001
27	0.0002	0.0017	0.5803	0.0117	<.0001	0.3199	0.0022	<.0001	0.0003	0.4745	0.2799	<.0001		0.0009
28	0.3261	0.6603	0.0298	<.0001	<.0001	0.0002	0.7191	0.2462	0.7510	0.0089	<.0001	<.0001	0.0009	
29	0.4756	0.9111	0.0056	<.0001	<.0001	<.0001	0.9815	0.3801	0.9086	0.0004	<.0001	<.0001	<.0001	0.6254
30	0.5169	0.9631	0.0046	<.0001	<.0001	<.0001	0.9663	0.4279	0.8416	0.0003	<.0001	<.0001	<.0001	0.5666
31	0.0002	0.0020	0.8225	0.0015	<.0001	0.1368	0.0026	<.0001	0.0002	0.7363	0.0764	<.0001	0.6135	0.0007



32	<.0001	<.0001	0.0088	0.4321	0.0086	0.3553	<.0001	<.0001	<.0001	0.0006	0.1730	0.0007	0.0088	<.0001
33	<.0001	<.0001	<.0001	0.0638	1.0000	0.0004	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	<.0001	<.0001
34	<.0001	<.0001	0.0025	0.7076	0.0262	0.1824	<.0001	<.0001	<.0001	<.0001	0.0584	0.0040	0.0017	<.0001
35	0.6712	0.8591	0.0023	<.0001	<.0001	<.0001	0.7902	0.6156	0.6235	<.0001	<.0001	<.0001	<.0001	0.3877
36	0.7641	0.8294	0.0073	<.0001	<.0001	<.0001	0.7709	0.7495	0.6440	0.0016	<.0001	<.0001	0.0001	0.4499
37	0.4157	0.7650	0.0294	<.0001	<.0001	0.0003	0.8234	0.3507	0.8787	0.0104	<.0001	<.0001	0.0013	0.8877
38	0.0176	0.0620	0.5384	0.0005	<.0001	0.0380	0.0733	0.0052	0.0428	0.4840	0.0188	<.0001	0.1738	0.0828
39	<.0001	<.0001	0.0046	0.9395	0.0961	0.1656	<.0001	<.0001	<.0001	0.0007	0.0748	0.0470	0.0057	<.0001
40	<.0001	<.0001	<.0001	0.1121	1.0000	0.0025	<.0001	<.0001	<.0001	<.0001	0.0002	1.0000	<.0001	<.0001
41	<.0001	<.0001	0.0016	0.7983	0.1818	0.0863	<.0001	<.0001	<.0001	0.0002	0.0298	0.1108	0.0016	<.0001
42	0.8380	0.7557	0.0055	<.0001	<.0001	<.0001	0.6989	0.8376	0.5644	0.0011	<.0001	<.0001	<.0001	0.3845
43	0.5643	0.2633	0.0002	<.0001	<.0001	<.0001	0.2308	0.4542	0.1122	<.0001	<.0001	<.0001	<.0001	0.0571
44	0.0073	0.0316	0.6435	0.0005	<.0001	0.0452	0.0384	0.0012	0.0160	0.5971	0.0208	<.0001	0.2142	0.0359
45	0.0525	0.1613	0.2232	<.0001	<.0001	0.0060	0.1864	0.0199	0.1351	0.1464	0.0013	<.0001	0.0308	0.2385
46	<.0001	<.0001	0.0001	0.4226	0.3809	0.0197	<.0001	<.0001	<.0001	<.0001	0.0029	0.2834	<.0001	<.0001



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The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMS

i/j	29	30	31	32	33	34	35	36	37	38	39	40	41	42
1	0.8762	0.8046	<.0001	<.0001	<.0001	<.0001	0.5749	0.6117	0.8925	0.0363	<.0001	<.0001	<.0001	0.5306
2	0.4102	0.4641	<.0001	<.0001	<.0001	<.0001	0.6754	0.8098	0.3773	0.0047	<.0001	<.0001	<.0001	0.9037
3	0.0016	0.0012	0.3004	<.0001	<.0001	<.0001	0.0004	0.0050	0.0297	0.8277	<.0001	<.0001	<.0001	0.0035
4	<.0001	<.0001	<.0001	0.0753	0.0553	0.2273	<.0001	<.0001	<.0001	<.0001	0.5375	0.1426	0.8395	<.0001
5	<.0001	<.0001	<.0001	0.0018	0.5822	0.0103	<.0001	<.0001	<.0001	<.0001	0.0967	0.6743	0.2114	<.0001
6	<.0001	<.0001	0.0126	0.3819	<.0001	0.1477	<.0001	<.0001	<.0001	0.0037	0.1580	0.0006	0.0684	<.0001
7	0.8811	0.9538	<.0001	<.0001	<.0001	<.0001	0.7981	0.7836	0.7126	0.0202	<.0001	<.0001	<.0001	0.6935
8	0.9819	0.8935	<.0001	<.0001	<.0001	<.0001	0.6069	0.6548	0.7902	0.0150	<.0001	<.0001	<.0001	0.5621
9	0.5154	0.5897	<.0001	<.0001	<.0001	<.0001	0.8739	0.9818	0.4619	0.0038	<.0001	<.0001	<.0001	0.9125
10	<.0001	<.0001	0.5605	<.0001	<.0001	<.0001	<.0001	0.0004	0.0041	0.4758	<.0001	<.0001	<.0001	0.0002
11	<.0001	<.0001	0.0002	0.7287	<.0001	0.2961	<.0001	<.0001	<.0001	0.0002	0.2851	0.0008	0.1270	<.0001
12	<.0001	<.0001	<.0001	0.0002	0.5004	0.0020	<.0001	<.0001	<.0001	<.0001	0.0662	0.6380	0.1671	<.0001
13	<.0001	<.0001	0.2237	0.0041	<.0001	0.0004	<.0001	<.0001	<.0001	0.0497	0.0048	<.0001	0.0011	<.0001
14	0.9008	0.9893	<.0001	<.0001	<.0001	<.0001	0.7134	0.7306	0.7122	0.0113	<.0001	<.0001	<.0001	0.6334
15	0.4756	0.5169	0.0002	<.0001	<.0001	<.0001	0.6712	0.7641	0.4157	0.0176	<.0001	<.0001	<.0001	0.8380
16	0.9111	0.9631	0.0020	<.0001	<.0001	<.0001	0.8591	0.8294	0.7650	0.0620	<.0001	<.0001	<.0001	0.7557
17	0.0056	0.0046	0.8225	0.0088	<.0001	0.0025	0.0023	0.0073	0.0294	0.5384	0.0046	<.0001	0.0016	0.0055
18	<.0001	<.0001	0.0015	0.4321	0.0638	0.7076	<.0001	<.0001	<.0001	0.0005	0.9395	0.1121	0.7983	<.0001
19	<.0001	<.0001	<.0001	0.0086	1.0000	0.0262	<.0001	<.0001	<.0001	<.0001	0.0961	1.0000	0.1818	<.0001
20	<.0001	<.0001	0.1368	0.3553	0.0004	0.1824	<.0001	<.0001	0.0003	0.0380	0.1656	0.0025	0.0863	<.0001
21	0.9815	0.9663	0.0026	<.0001	<.0001	<.0001	0.7902	0.7709	0.8234	0.0733	<.0001	<.0001	<.0001	0.6989
22	0.3801	0.4279	<.0001	<.0001	<.0001	<.0001	0.6156	0.7495	0.3507	0.0052	<.0001	<.0001	<.0001	0.8376
23	0.9086	0.8416	0.0002	<.0001	<.0001	<.0001	0.6235	0.6440	0.8787	0.0428	<.0001	<.0001	<.0001	0.5644
24	0.0004	0.0003	0.7363	0.0006	<.0001	<.0001	<.0001	0.0016	0.0104	0.4840	0.0007	<.0001	0.0002	0.0011
25	<.0001	<.0001	0.0764	0.1730	<.0001	0.0584	<.0001	<.0001	<.0001	0.0188	0.0748	0.0002	0.0298	<.0001
26	<.0001	<.0001	<.0001	0.0007	1.0000	0.0040	<.0001	<.0001	<.0001	<.0001	0.0470	1.0000	0.1108	<.0001
27	<.0001	<.0001	0.6135	0.0088	<.0001	0.0017	<.0001	0.0001	0.0013	0.1738	0.0057	<.0001	0.0016	<.0001
28	0.6254	0.5666	0.0007	<.0001	<.0001	<.0001	0.3877	0.4499	0.8877	0.0828	<.0001	<.0001	<.0001	0.3845
29		0.9137	<.0001	<.0001	<.0001	<.0001	0.6316	0.6702	0.7807	0.0156	<.0001	<.0001	<.0001	0.5777
30	0.9137		<.0001	<.0001	<.0001	<.0001	0.7106	0.7269	0.7226	0.0126	<.0001	<.0001	<.0001	0.6311
31	<.0001	<.0001		<.0001	<.0001	<.0001	<.0001	<.0001	0.0013	0.2694	0.0003	<.0001	<.0001	<.0001



32	<.0001	<.0001	<.0001		<.0001	0.4959	<.0001	<.0001	<.0001	0.0001	0.4138	0.0021	0.2043	<.0001
33	<.0001	<.0001	<.0001	<.0001		0.0003	<.0001	<.0001	<.0001	<.0001	0.0230	1.0000	0.0680	<.0001
34	<.0001	<.0001	<.0001	0.4959	0.0003		<.0001	<.0001	<.0001	<.0001	0.7369	0.0093	0.4300	<.0001
35	0.6316	0.7106	<.0001	<.0001	<.0001	<.0001	<.0001	0.9308	0.5371	0.0060	<.0001	<.0001	<.0001	0.8275
36	0.6702	0.7269	<.0001	<.0001	<.0001	<.0001	0.9308		0.5654	0.0203	<.0001	<.0001	<.0001	0.9148
37	0.7807	0.7226	0.0013	<.0001	<.0001	<.0001	0.5371	0.5654		0.0794	<.0001	<.0001	<.0001	0.4954
38	0.0156	0.0126	0.2694	0.0001	<.0001	<.0001	0.0060	0.0203	0.0794		0.0001	<.0001	<.0001	0.0152
39	<.0001	<.0001	0.0003	0.4138	0.0230	0.7369	<.0001	<.0001	<.0001	0.0001		0.0630	0.7110	<.0001
40	<.0001	<.0001	<.0001	0.0021	1.0000	0.0093	<.0001	<.0001	<.0001	<.0001	0.0630		0.1357	<.0001
41	<.0001	<.0001	<.0001	0.2043	0.0680	0.4300	<.0001	<.0001	<.0001	<.0001	0.7110	0.1357		<.0001
42	0.5777	0.6311	<.0001	<.0001	<.0001	<.0001	0.8275	0.9148	0.4954	0.0152	<.0001	<.0001	<.0001	
43	0.0795	0.0950	<.0001	<.0001	<.0001	<.0001	0.1674	0.3117	0.1046	0.0005	<.0001	<.0001	<.0001	0.3694
44	0.0033	0.0025	0.3381	<.0001	<.0001	<.0001	0.0010	0.0072	0.0373	0.8331	0.0001	<.0001	<.0001	0.0052
45	0.0614	0.0507	0.0413	<.0001	<.0001	<.0001	0.0250	0.0655	0.2179	0.5174	<.0001	<.0001	<.0001	0.0506
46	<.0001	<.0001	<.0001	0.0302	0.2070	0.1011	<.0001	<.0001	<.0001	<.0001	0.3175	0.3205	0.5456	<.0001



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(G01-R2b) : PROC GLM with CLASS varbs of ASSOC & LFORM and MODEL of TLFORMS TLFORMC = ASSOC|LFORM
from data set MWVRA 13:00 Monday, June 8, 2009

The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMS

i/j	43	44	45	46	47	48	49	50	51	52	53	54	55	56
1	0.0891	0.0120	0.1216	<.0001	<.0001	<.0001	0.0072	0.4214	0.5835	0.1560	<.0001	<.0001	<.0001	<.0001
2	0.3733	0.0010	0.0186	<.0001	<.0001	<.0001	0.0005	0.9552	0.8414	0.0308	<.0001	<.0001	<.0001	<.0001
3	<.0001	0.9975	0.3304	<.0001	<.0001	0.0027	0.8544	0.0020	0.0045	0.3691	0.0303	<.0001	<.0001	0.0002
4	<.0001	<.0001	<.0001	0.6400	0.1106	0.0336	<.0001	<.0001	<.0001	<.0001	0.0109	0.1426	0.4706	0.3547
5	<.0001	<.0001	<.0001	0.5001	0.6473	0.0012	<.0001	<.0001	<.0001	<.0001	0.0004	0.6743	0.0775	0.0492
6	<.0001	0.0035	0.0001	0.0078	0.0002	0.9393	0.0061	<.0001	<.0001	0.0004	0.5943	0.0006	0.1911	0.2696
7	0.1474	0.0058	0.0719	<.0001	<.0001	<.0001	0.0033	0.5679	0.7526	0.0989	<.0001	<.0001	<.0001	<.0001
8	0.0721	0.0030	0.0598	<.0001	<.0001	<.0001	0.0015	0.4378	0.6226	0.0914	<.0001	<.0001	<.0001	<.0001
9	0.2006	0.0005	0.0165	<.0001	<.0001	<.0001	0.0002	0.7593	0.9823	0.0314	<.0001	<.0001	<.0001	<.0001
10	<.0001	0.6020	0.1041	<.0001	<.0001	0.0040	0.7512	0.0001	0.0003	0.1427	0.0529	<.0001	<.0001	0.0002
11	<.0001	0.0001	<.0001	0.0137	0.0002	0.6390	0.0003	<.0001	<.0001	<.0001	0.2761	0.0008	0.3406	0.4675
12	<.0001	<.0001	<.0001	0.4474	0.6006	0.0003	<.0001	<.0001	<.0001	<.0001	<.0001	0.6380	0.0509	0.0295
13	<.0001	0.0558	0.0027	<.0001	<.0001	0.1325	0.0872	<.0001	<.0001	0.0068	0.4925	<.0001	0.0068	0.0129
14	0.0919	0.0021	0.0460	<.0001	<.0001	<.0001	0.0010	0.5008	0.6970	0.0734	<.0001	<.0001	<.0001	<.0001
15	0.5643	0.0073	0.0525	<.0001	<.0001	<.0001	0.0048	0.9499	0.7889	0.0662	<.0001	<.0001	<.0001	<.0001
16	0.2633	0.0316	0.1613	<.0001	<.0001	<.0001	0.0222	0.6507	0.8042	0.1849	0.0002	<.0001	<.0001	<.0001
17	0.0002	0.6435	0.2232	0.0001	<.0001	0.0612	0.7466	0.0036	0.0066	0.2465	0.1942	<.0001	0.0059	0.0095
18	<.0001	0.0005	<.0001	0.4226	0.0941	0.2254	0.0007	<.0001	<.0001	<.0001	0.1033	0.1121	0.8729	0.7463
19	<.0001	<.0001	<.0001	0.3809	1.0000	0.0041	<.0001	<.0001	<.0001	<.0001	0.0014	1.0000	0.0806	0.0562
20	<.0001	0.0452	0.0060	0.0197	0.0014	0.7410	0.0622	<.0001	<.0001	0.0091	0.8660	0.0025	0.1926	0.2542
21	0.2308	0.0384	0.1864	<.0001	<.0001	<.0001	0.0272	0.5972	0.7462	0.2112	0.0003	<.0001	<.0001	<.0001
22	0.4542	0.0012	0.0199	<.0001	<.0001	<.0001	0.0007	0.9716	0.7791	0.0313	<.0001	<.0001	<.0001	<.0001
23	0.1122	0.0160	0.1351	<.0001	<.0001	<.0001	0.0100	0.4560	0.6165	0.1676	<.0001	<.0001	<.0001	<.0001
24	<.0001	0.5971	0.1464	<.0001	<.0001	0.0200	0.7207	0.0006	0.0014	0.1773	0.1128	<.0001	0.0009	0.0018
25	<.0001	0.0208	0.0013	0.0029	<.0001	0.5877	0.0320	<.0001	<.0001	0.0028	0.9408	0.0002	0.0925	0.1366
26	<.0001	<.0001	<.0001	0.2834	1.0000	0.0005	<.0001	<.0001	<.0001	<.0001	0.0001	1.0000	0.0370	0.0227
27	<.0001	0.2142	0.0308	<.0001	<.0001	0.1053	0.2838	<.0001	0.0001	0.0449	0.3541	<.0001	0.0076	0.0133
28	0.0571	0.0359	0.2385	<.0001	<.0001	<.0001	0.0235	0.2990	0.4271	0.2767	<.0001	<.0001	<.0001	<.0001
29	0.0795	0.0033	0.0614	<.0001	<.0001	<.0001	0.0017	0.4529	0.6381	0.0924	<.0001	<.0001	<.0001	<.0001
30	0.0950	0.0025	0.0507	<.0001	<.0001	<.0001	0.0013	0.5003	0.6938	0.0787	<.0001	<.0001	<.0001	<.0001
31	<.0001	0.3381	0.0413	<.0001	<.0001	0.0163	0.4490	<.0001	<.0001	0.0650	0.1300	<.0001	0.0005	0.0011



32	<.0001	<.0001	<.0001	0.0302	0.0007	0.4674	0.0001	<.0001	<.0001	<.0001	0.1891	0.0021	0.4824	0.6322
33	<.0001	<.0001	<.0001	0.2070	1.0000	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	0.0171	0.0092
34	<.0001	<.0001	<.0001	0.1011	0.0040	0.2079	<.0001	<.0001	<.0001	<.0001	0.0733	0.0093	0.8251	0.9975
35	0.1674	0.0010	0.0250	<.0001	<.0001	<.0001	0.0005	0.6804	0.8955	0.0436	<.0001	<.0001	<.0001	<.0001
36	0.3117	0.0072	0.0655	<.0001	<.0001	<.0001	0.0045	0.7907	0.9710	0.0854	<.0001	<.0001	<.0001	<.0001
37	0.1046	0.0373	0.2179	<.0001	<.0001	<.0001	0.0252	0.4010	0.5411	0.2505	0.0001	<.0001	<.0001	<.0001
38	0.0005	0.8331	0.5174	<.0001	<.0001	0.0045	0.7120	0.0098	0.0184	0.5424	0.0330	<.0001	0.0002	0.0004
39	<.0001	0.0001	<.0001	0.3175	0.0470	0.1993	0.0002	<.0001	<.0001	<.0001	0.0825	0.0630	0.9252	0.7819
40	<.0001	<.0001	<.0001	0.3205	1.0000	0.0012	<.0001	<.0001	<.0001	<.0001	0.0004	1.0000	0.0510	0.0330
41	<.0001	<.0001	<.0001	0.5456	0.1108	0.0936	<.0001	<.0001	<.0001	<.0001	0.0355	0.1357	0.6424	0.5176
42	0.3694	0.0052	0.0506	<.0001	<.0001	<.0001	0.0032	0.8741	0.9437	0.0678	<.0001	<.0001	<.0001	<.0001
43		<.0001	0.0022	<.0001	<.0001	<.0001	<.0001	0.4663	0.3306	0.0046	<.0001	<.0001	<.0001	<.0001
44	<.0001		0.3543	<.0001	<.0001	0.0045	0.8641	0.0031	0.0065	0.3889	0.0385	<.0001	0.0002	0.0003
45	0.0022	0.3543		<.0001	<.0001	0.0002	0.2727	0.0338	0.0600	0.9969	0.0036	<.0001	<.0001	<.0001
46	<.0001	<.0001	<.0001		0.2834	0.0142	<.0001	<.0001	<.0001	<.0001	0.0045	0.3205	0.2715	0.1956



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from data set MWVRA 13:00 Monday, June 8, 2009

The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMS

i/j	1	2	3	4	5	6	7	8	9	10	11	12	13	14
47	<.0001	<.0001	<.0001	0.1106	0.6473	0.0002	<.0001	<.0001	<.0001	<.0001	0.0002	0.6006	<.0001	<.0001
48	<.0001	<.0001	0.0027	0.0336	0.0012	0.9393	<.0001	<.0001	<.0001	0.0040	0.6390	0.0003	0.1325	<.0001
49	0.0072	0.0005	0.8544	<.0001	<.0001	0.0061	0.0033	0.0015	0.0002	0.7512	0.0003	<.0001	0.0872	0.0010
50	0.4214	0.9552	0.0020	<.0001	<.0001	<.0001	0.5679	0.4378	0.7593	0.0001	<.0001	<.0001	<.0001	0.5008
51	0.5835	0.8414	0.0045	<.0001	<.0001	<.0001	0.7526	0.6226	0.9823	0.0003	<.0001	<.0001	<.0001	0.6970
52	0.1560	0.0308	0.3691	<.0001	<.0001	0.0004	0.0989	0.0914	0.0314	0.1427	<.0001	<.0001	0.0068	0.0734
53	<.0001	<.0001	0.0303	0.0109	0.0004	0.5943	<.0001	<.0001	<.0001	0.0529	0.2761	<.0001	0.4925	<.0001
54	<.0001	<.0001	<.0001	0.1426	0.6743	0.0006	<.0001	<.0001	<.0001	<.0001	0.0008	0.6380	<.0001	<.0001
55	<.0001	<.0001	<.0001	0.4706	0.0775	0.1911	<.0001	<.0001	<.0001	<.0001	0.3406	0.0509	0.0068	<.0001
56	<.0001	<.0001	0.0002	0.3547	0.0492	0.2696	<.0001	<.0001	<.0001	0.0002	0.4675	0.0295	0.0129	<.0001

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

Dependent Variable: TLFORMS

i/j	15	16	17	18	19	20	21	22	23	24	25	26	27	28
47	<.0001	<.0001	<.0001	0.0941	1.0000	0.0014	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	<.0001	<.0001
48	<.0001	<.0001	0.0612	0.2254	0.0041	0.7410	<.0001	<.0001	<.0001	0.0200	0.5877	0.0005	0.1053	<.0001
49	0.0048	0.0222	0.7466	0.0007	<.0001	0.0622	0.0272	0.0007	0.0100	0.7207	0.0320	<.0001	0.2838	0.0235
50	0.9499	0.6507	0.0036	<.0001	<.0001	<.0001	0.5972	0.9716	0.4560	0.0006	<.0001	<.0001	<.0001	0.2990
51	0.7889	0.8042	0.0066	<.0001	<.0001	<.0001	0.7462	0.7791	0.6165	0.0014	<.0001	<.0001	0.0001	0.4271
52	0.0662	0.1849	0.2465	<.0001	<.0001	0.0091	0.2112	0.0313	0.1676	0.1773	0.0028	<.0001	0.0449	0.2767
53	<.0001	0.0002	0.1942	0.1033	0.0014	0.8660	0.0003	<.0001	<.0001	0.1128	0.9408	0.0001	0.3541	<.0001
54	<.0001	<.0001	<.0001	0.1121	1.0000	0.0025	<.0001	<.0001	<.0001	<.0001	0.0002	1.0000	<.0001	<.0001
55	<.0001	<.0001	0.0059	0.8729	0.0806	0.1926	<.0001	<.0001	<.0001	0.0009	0.0925	0.0370	0.0076	<.0001
56	<.0001	<.0001	0.0095	0.7463	0.0562	0.2542	<.0001	<.0001	<.0001	0.0018	0.1366	0.0227	0.0133	<.0001

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



Dependent Variable: TLFORMS

i/j	29	30	31	32	33	34	35	36	37	38	39	40	41	42
47	<.0001	<.0001	<.0001	0.0007	1.0000	0.0040	<.0001	<.0001	<.0001	<.0001	0.0470	1.0000	0.1108	<.0001
48	<.0001	<.0001	0.0163	0.4674	<.0001	0.2079	<.0001	<.0001	<.0001	0.0045	0.1993	0.0012	0.0936	<.0001
49	0.0017	0.0013	0.4490	0.0001	<.0001	<.0001	0.0005	0.0045	0.0252	0.7120	0.0002	<.0001	<.0001	0.0032
50	0.4529	0.5003	<.0001	<.0001	<.0001	<.0001	0.6804	0.7907	0.4010	0.0098	<.0001	<.0001	<.0001	0.8741
51	0.6381	0.6938	<.0001	<.0001	<.0001	<.0001	0.8955	0.9710	0.5411	0.0184	<.0001	<.0001	<.0001	0.9437
52	0.0924	0.0787	0.0650	<.0001	<.0001	<.0001	0.0436	0.0854	0.2505	0.5424	<.0001	<.0001	<.0001	0.0678
53	<.0001	<.0001	0.1300	0.1891	<.0001	0.0733	<.0001	<.0001	0.0001	0.0330	0.0825	0.0004	0.0355	<.0001
54	<.0001	<.0001	<.0001	0.0021	1.0000	0.0093	<.0001	<.0001	<.0001	<.0001	0.0630	1.0000	0.1357	<.0001
55	<.0001	<.0001	0.0005	0.4824	0.0171	0.8251	<.0001	<.0001	<.0001	0.0002	0.9252	0.0510	0.6424	<.0001
56	<.0001	<.0001	0.0011	0.6322	0.0092	0.9975	<.0001	<.0001	<.0001	0.0004	0.7819	0.0330	0.5176	<.0001



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The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMS

i/j	43	44	45	46	47	48	49	50	51	52	53	54	55	56
47	<.0001	<.0001	<.0001	0.2834		0.0005	<.0001	<.0001	<.0001	<.0001	0.0001	1.0000	0.0370	0.0227
48	<.0001	0.0045	0.0002	0.0142	0.0005		0.0074	<.0001	<.0001	0.0005	0.5645	0.0012	0.2365	0.3227
49	<.0001	0.8641	0.2727	<.0001	<.0001	0.0074		0.0018	0.0040	0.3079	0.0557	<.0001	0.0003	0.0006
50	0.4663	0.0031	0.0338	<.0001	<.0001	<.0001	0.0018		0.8188	0.0474	<.0001	<.0001	<.0001	<.0001
51	0.3306	0.0065	0.0600	<.0001	<.0001	<.0001	0.0040	0.8188		0.0790	<.0001	<.0001	<.0001	<.0001
52	0.0046	0.3889	0.9969	<.0001	<.0001	0.0005	0.3079	0.0474	0.0790		0.0064	<.0001	<.0001	<.0001
53	<.0001	0.0385	0.0036	0.0045	0.0001	0.5645	0.0557	<.0001	<.0001	0.0064		0.0004	0.1003	0.1438
54	<.0001	<.0001	<.0001	0.3205	1.0000	0.0012	<.0001	<.0001	<.0001	<.0001	0.0004		0.0510	0.0330
55	<.0001	0.0002	<.0001	0.2715	0.0370	0.2365	0.0003	<.0001	<.0001	<.0001	0.1003	0.0510		0.8548
56	<.0001	0.0003	<.0001	0.1956	0.0227	0.3227	0.0006	<.0001	<.0001	<.0001	0.1438	0.0330	0.8548	

ASSOC	LFORM	TLFORMC LSMEAN	Standard Error	Pr > t	LSMEAN Number
Assoc-1	Chamaeph	1.65608789	0.11786977	<.0001	1
Assoc-1	Cryptoph	1.14005255	0.11786977	<.0001	2
Assoc-1	Hemicryp	0.63681260	0.11786977	<.0001	3
Assoc-1	Liana	0.09767095	0.11786977	0.4082	4
Assoc-1	Parasite	0.03203548	0.11786977	0.7860	5
Assoc-1	Phanerop	1.01591302	0.11786977	<.0001	6
Assoc-1	Therophy	1.25757888	0.11786977	<.0001	7
Assoc-2	Chamaeph	1.45242262	0.08334651	<.0001	8
Assoc-2	Cryptoph	1.16836149	0.08334651	<.0001	9
Assoc-2	Hemicryp	0.58655792	0.08334651	<.0001	10
Assoc-2	Liana	0.24128729	0.08334651	0.0042	11
Assoc-2	Parasite	0.01958131	0.08334651	0.8145	12
Assoc-2	Phanerop	1.28630357	0.08334651	<.0001	13
Assoc-2	Therophy	1.10515626	0.08334651	<.0001	14
Assoc-3	Chamaeph	1.49928254	0.18636847	<.0001	15
Assoc-3	Cryptoph	1.09666789	0.18636847	<.0001	16



Assoc-3	Hemicryp	0.65485160	0.18636847	0.0005	17
Assoc-3	Liana	0.18117820	0.18636847	0.3320	18
Assoc-3	Parasite	0.00000000	0.18636847	1.0000	19
Assoc-3	Phanerop	1.55285164	0.18636847	<.0001	20
Assoc-3	Therophy	1.15883406	0.18636847	<.0001	21
Assoc-4	Chamaeph	1.54617168	0.13178241	<.0001	22
Assoc-4	Cryptoph	0.97728267	0.13178241	<.0001	23
Assoc-4	Hemicryp	0.60562319	0.13178241	<.0001	24
Assoc-4	Liana	0.31982489	0.13178241	0.0160	25
Assoc-4	Parasite	0.00000000	0.13178241	1.0000	26
Assoc-4	Phanerop	1.51836058	0.13178241	<.0001	27
Assoc-4	Therophy	0.98768051	0.13178241	<.0001	28
Assoc-5	Chamaeph	1.42205644	0.08785494	<.0001	29
Assoc-5	Cryptoph	0.94136556	0.08785494	<.0001	30
Assoc-5	Hemicryp	0.53160670	0.08785494	<.0001	31



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The GLM Procedure
 Least Squares Means

ASSOC	LFORM	TLFORMC LSMEAN	Standard Error	Pr > t	LSMEAN Number
Assoc-5	Liana	0.15474097	0.08785494	0.0795	32
Assoc-5	Parasite	0.00000000	0.08785494	1.0000	33
Assoc-5	Phanerop	0.23455702	0.08785494	0.0081	34
Assoc-5	Therophy	1.31119511	0.08785494	<.0001	35
Assoc-6	Chamaeph	1.85177904	0.15216922	<.0001	36
Assoc-6	Cryptoph	1.06161151	0.15216922	<.0001	37
Assoc-6	Hemicryp	0.42387462	0.15216922	0.0058	38
Assoc-6	Liana	0.16276349	0.15216922	0.2859	39
Assoc-6	Parasite	0.00000000	0.15216922	1.0000	40
Assoc-6	Phanerop	0.25533979	0.15216922	0.0947	41
Assoc-6	Therophy	1.19823488	0.15216922	<.0001	42
Assoc-7	Chamaeph	1.83237780	0.13178241	<.0001	43
Assoc-7	Cryptoph	1.09438976	0.13178241	<.0001	44
Assoc-7	Hemicryp	0.46491582	0.13178241	0.0005	45
Assoc-7	Liana	0.13345199	0.13178241	0.3123	46
Assoc-7	Parasite	0.00000000	0.13178241	1.0000	47
Assoc-7	Phanerop	0.27231644	0.13178241	0.0399	48
Assoc-7	Therophy	1.24315258	0.13178241	<.0001	49
Assoc-8	Chamaeph	1.81297655	0.15216922	<.0001	50
Assoc-8	Cryptoph	1.12716801	0.15216922	<.0001	51
Assoc-8	Hemicryp	0.50595703	0.15216922	0.0010	52
Assoc-8	Liana	0.10414048	0.15216922	0.4944	53
Assoc-8	Parasite	0.00000000	0.15216922	1.0000	54
Assoc-8	Phanerop	0.28929310	0.15216922	0.0586	55
Assoc-8	Therophy	1.28807029	0.15216922	<.0001	56



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The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMC

i/j	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1		0.0022	<.0001	<.0001	<.0001	0.0002	0.0176	0.1597	0.0009	<.0001	<.0001	<.0001	0.0111	0.0002
2	0.0022		0.0028	<.0001	<.0001	0.4572	0.4815	0.0315	0.8447	0.0002	<.0001	<.0001	0.3121	0.8092
3	<.0001	0.0028		0.0014	0.0004	0.0239	0.0002	<.0001	0.0003	0.7281	0.0066	<.0001	<.0001	0.0014
4	<.0001	<.0001	0.0014		0.6941	<.0001	<.0001	<.0001	<.0001	0.0008	0.3209	0.5891	<.0001	<.0001
5	<.0001	<.0001	0.0004	0.6941		<.0001	<.0001	<.0001	<.0001	0.0002	0.1486	0.9313	<.0001	<.0001
6	0.0002	0.4572	0.0239	<.0001	<.0001		0.1485	0.0028	0.2921	0.0033	<.0001	<.0001	0.0624	0.5371
7	0.0176	0.4815	0.0002	<.0001	<.0001	0.1485		0.1785	0.5372	<.0001	<.0001	<.0001	0.8425	0.2922
8	0.1597	0.0315	<.0001	<.0001	<.0001	0.0028	0.1785		0.0168	<.0001	<.0001	<.0001	0.1601	0.0036
9	0.0009	0.8447	0.0003	<.0001	<.0001	0.2921	0.5372	0.0168		<.0001	<.0001	<.0001	0.3181	0.5923
10	<.0001	0.0002	0.7281	0.0008	0.0002	0.0033	<.0001	<.0001	<.0001		0.0037	<.0001	<.0001	<.0001
11	<.0001	<.0001	0.0066	0.3209	0.1486	<.0001	<.0001	<.0001	<.0001	0.0037		0.0613	<.0001	<.0001
12	<.0001	<.0001	<.0001	0.5891	0.9313	<.0001	<.0001	<.0001	<.0001	<.0001	0.0613		<.0001	<.0001
13	0.0111	0.3121	<.0001	<.0001	<.0001	0.0624	0.8425	0.1601	0.3181	<.0001	<.0001	<.0001		0.1257
14	0.0002	0.8092	0.0014	<.0001	<.0001	0.5371	0.2922	0.0036	0.5923	<.0001	<.0001	<.0001	0.1257	
15	0.4778	0.1047	0.0001	<.0001	<.0001	0.0294	0.2742	0.8187	0.1064	<.0001	<.0001	<.0001	0.2980	0.0548
16	0.0119	0.8442	0.0382	<.0001	<.0001	0.7146	0.4663	0.0828	0.7258	0.0132	<.0001	<.0001	0.3540	0.9669
17	<.0001	0.0288	0.9349	0.0122	0.0052	0.1030	0.0068	0.0001	0.0126	0.7383	0.0440	0.0021	0.0022	0.0284
18	<.0001	<.0001	0.0400	0.7053	0.4995	0.0002	<.0001	<.0001	<.0001	0.0483	0.7687	0.4295	<.0001	<.0001
19	<.0001	<.0001	0.0043	0.6582	0.8846	<.0001	<.0001	<.0001	<.0001	0.0045	0.2385	0.9237	<.0001	<.0001
20	0.6401	0.0625	<.0001	<.0001	<.0001	0.0157	0.1819	0.6233	0.0610	<.0001	<.0001	<.0001	0.1930	0.0293
21	0.0251	0.9322	0.0188	<.0001	<.0001	0.5176	0.6547	0.1518	0.9628	0.0055	<.0001	<.0001	0.5330	0.7929
22	0.5348	0.0225	<.0001	<.0001	<.0001	0.0030	0.1040	0.5483	0.0162	<.0001	<.0001	<.0001	0.0970	0.0051
23	0.0002	0.3582	0.0554	<.0001	<.0001	0.8272	0.1143	0.0026	0.2217	0.0129	<.0001	<.0001	0.0487	0.4130
24	<.0001	0.0028	0.8601	0.0045	0.0014	0.0212	0.0003	<.0001	0.0004	0.9028	0.0203	0.0002	<.0001	0.0016
25	<.0001	<.0001	0.0743	0.2102	0.1050	0.0001	<.0001	<.0001	<.0001	0.0885	0.6150	0.0554	<.0001	<.0001
26	<.0001	<.0001	0.0004	0.5812	0.8564	<.0001	<.0001	<.0001	<.0001	0.0002	0.1232	0.9002	<.0001	<.0001
27	0.4368	0.0335	<.0001	<.0001	<.0001	0.0049	0.1416	0.6728	0.0258	<.0001	<.0001	<.0001	0.1381	0.0086
28	0.0002	0.3897	0.0484	<.0001	<.0001	0.8733	0.1283	0.0032	0.2478	0.0107	<.0001	<.0001	0.0567	0.4520
29	0.1128	0.0563	<.0001	<.0001	<.0001	0.0062	0.2644	0.8022	0.0373	<.0001	<.0001	<.0001	0.2635	0.0095
30	<.0001	0.1779	0.0394	<.0001	<.0001	0.6126	0.0325	<.0001	0.0622	0.0037	<.0001	<.0001	0.0048	0.1776
31	<.0001	<.0001	0.4750	0.0035	0.0008	0.0011	<.0001	<.0001	<.0001	0.6504	0.0173	<.0001	<.0001	<.0001



32	<.0001	<.0001	0.0012	0.6982	0.4048	<.0001	<.0001	<.0001	<.0001	0.0004	0.4756	0.2656	<.0001	<.0001
33	<.0001	<.0001	<.0001	0.5071	0.8277	<.0001	<.0001	<.0001	<.0001	<.0001	0.0475	0.8717	<.0001	<.0001
34	<.0001	<.0001	0.0067	0.3528	0.1697	<.0001	<.0001	<.0001	<.0001	0.0040	0.9557	0.0772	<.0001	<.0001
35	0.0198	0.2456	<.0001	<.0001	<.0001	0.0458	0.7157	0.2448	0.2395	<.0001	<.0001	<.0001	0.8373	0.0903
36	0.3104	0.0003	<.0001	<.0001	<.0001	<.0001	0.0023	0.0223	0.0001	<.0001	<.0001	<.0001	0.0013	<.0001
37	0.0023	0.6840	0.0283	<.0001	<.0001	0.8125	0.3097	0.0253	0.5390	0.0067	<.0001	<.0001	0.1966	0.8021
38	<.0001	0.0003	0.2698	0.0915	0.0430	0.0024	<.0001	<.0001	<.0001	0.3494	0.2938	0.0207	<.0001	0.0001
39	<.0001	<.0001	0.0145	0.7355	0.4977	<.0001	<.0001	<.0001	<.0001	0.0154	0.6513	0.4101	<.0001	<.0001
40	<.0001	<.0001	0.0011	0.6124	0.8680	<.0001	<.0001	<.0001	<.0001	0.0009	0.1657	0.9102	<.0001	<.0001
41	<.0001	<.0001	0.0487	0.4136	0.2472	0.0001	<.0001	<.0001	<.0001	0.0575	0.9355	0.1756	<.0001	<.0001
42	0.0182	0.7627	0.0039	<.0001	<.0001	0.3445	0.7581	0.1443	0.8635	0.0005	<.0001	<.0001	0.6122	0.5922
43	0.3198	0.0001	<.0001	<.0001	<.0001	<.0001	0.0013	0.0156	<.0001	<.0001	<.0001	<.0001	0.0006	<.0001
44	0.0017	0.7964	0.0103	<.0001	<.0001	0.6576	0.3570	0.0226	0.6357	0.0013	<.0001	<.0001	0.2197	0.9450
45	<.0001	0.0002	0.3320	0.0389	0.0151	0.0021	<.0001	<.0001	<.0001	0.4361	0.1529	0.0047	<.0001	<.0001
46	<.0001	<.0001	0.0048	0.8398	0.5668	<.0001	<.0001	<.0001	<.0001	0.0040	0.4899	0.4660	<.0001	<.0001



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The GLM Procedure
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Least Squares Means for effect ASSOC*LFORM
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TLFORMC

i/j	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	0.4778	0.0119	<.0001	<.0001	<.0001	0.6401	0.0251	0.5348	0.0002	<.0001	<.0001	<.0001	0.4368	0.0002
2	0.1047	0.8442	0.0288	<.0001	<.0001	0.0625	0.9322	0.0225	0.3582	0.0028	<.0001	<.0001	0.0335	0.3897
3	0.0001	0.0382	0.9349	0.0400	0.0043	<.0001	0.0188	<.0001	0.0554	0.8601	0.0743	0.0004	<.0001	0.0484
4	<.0001	<.0001	0.0122	0.7053	0.6582	<.0001	<.0001	<.0001	<.0001	0.0045	0.2102	0.5812	<.0001	<.0001
5	<.0001	<.0001	0.0052	0.4995	0.8846	<.0001	<.0001	<.0001	<.0001	0.0014	0.1050	0.8564	<.0001	<.0001
6	0.0294	0.7146	0.1030	0.0002	<.0001	0.0157	0.5176	0.0030	0.8272	0.0212	0.0001	<.0001	0.0049	0.8733
7	0.2742	0.4663	0.0068	<.0001	<.0001	0.1819	0.6547	0.1040	0.1143	0.0003	<.0001	<.0001	0.1416	0.1283
8	0.8187	0.0828	0.0001	<.0001	<.0001	0.6233	0.1518	0.5483	0.0026	<.0001	<.0001	<.0001	0.6728	0.0032
9	0.1064	0.7258	0.0126	<.0001	<.0001	0.0610	0.9628	0.0162	0.2217	0.0004	<.0001	<.0001	0.0258	0.2478
10	<.0001	0.0132	0.7383	0.0483	0.0045	<.0001	0.0055	<.0001	0.0129	0.9028	0.0885	0.0002	<.0001	0.0107
11	<.0001	<.0001	0.0440	0.7687	0.2385	<.0001	<.0001	<.0001	<.0001	0.0203	0.6150	0.1232	<.0001	<.0001
12	<.0001	<.0001	0.0021	0.4295	0.9237	<.0001	<.0001	<.0001	<.0001	0.0002	0.0554	0.9002	<.0001	<.0001
13	0.2980	0.3540	0.0022	<.0001	<.0001	0.1930	0.5330	0.0970	0.0487	<.0001	<.0001	<.0001	0.1381	0.0567
14	0.0548	0.9669	0.0284	<.0001	<.0001	0.0293	0.7929	0.0051	0.4130	0.0016	<.0001	<.0001	0.0086	0.4520
15		0.1280	0.0016	<.0001	<.0001	0.8391	0.1978	0.8374	0.0231	0.0001	<.0001	<.0001	0.9335	0.0260
16	0.1280		0.0951	0.0006	<.0001	0.0849	0.8138	0.0501	0.6015	0.0325	0.0008	<.0001	0.0660	0.6335
17	0.0016	0.0951		0.0737	0.0137	0.0008	0.0571	0.0001	0.1592	0.8294	0.1436	0.0045	0.0002	0.1462
18	<.0001	0.0006	0.0737		0.4925	<.0001	0.0003	<.0001	0.0006	0.0643	0.5442	0.4282	<.0001	0.0005
19	<.0001	<.0001	0.0137	0.4925		<.0001	<.0001	<.0001	<.0001	0.0085	0.1625	1.0000	<.0001	<.0001
20	0.8391	0.0849	0.0008	<.0001	<.0001		0.1363	0.9767	0.0124	<.0001	<.0001	<.0001	0.8800	0.0140
21	0.1978	0.8138	0.0571	0.0003	<.0001	0.1363		0.0911	0.4272	0.0162	0.0003	<.0001	0.1166	0.4541
22	0.8374	0.0501	0.0001	<.0001	<.0001	0.9767	0.0911		0.0025	<.0001	<.0001	<.0001	0.8815	0.0030
23	0.0231	0.6015	0.1592	0.0006	<.0001	0.0124	0.4272	0.0025		0.0473	0.0005	<.0001	0.0041	0.9556
24	0.0001	0.0325	0.8294	0.0643	0.0085	<.0001	0.0162	<.0001	0.0473		0.1266	0.0013	<.0001	0.0415
25	<.0001	0.0008	0.1436	0.5442	0.1625	<.0001	0.0003	<.0001	0.0005	0.1266		0.0875	<.0001	0.0004
26	<.0001	<.0001	0.0045	0.4282	1.0000	<.0001	<.0001	<.0001	<.0001	0.0013	0.0875		<.0001	<.0001
27	0.9335	0.0660	0.0002	<.0001	<.0001	0.8800	0.1166	0.8815	0.0041	<.0001	<.0001	<.0001		0.0048
28	0.0260	0.6335	0.1462	0.0005	<.0001	0.0140	0.4541	0.0030	0.9556	0.0415	0.0004	<.0001	0.0048	
29	0.7082	0.1157	0.0002	<.0001	<.0001	0.5262	0.2027	0.4341	0.0054	<.0001	<.0001	<.0001	0.5438	0.0066
30	0.0073	0.4518	0.1657	0.0003	<.0001	0.0033	0.2923	0.0002	0.8208	0.0351	0.0001	<.0001	0.0003	0.7702
31	<.0001	0.0066	0.5503	0.0904	0.0105	<.0001	0.0026	<.0001	0.0053	0.6407	0.1825	0.0009	<.0001	0.0044



32	<.0001	<.0001	0.0160	0.8980	0.4534	<.0001	<.0001	<.0001	<.0001	0.0048	0.2984	0.3296	<.0001	<.0001
33	<.0001	<.0001	0.0017	0.3802	1.0000	<.0001	<.0001	<.0001	<.0001	0.0002	0.0446	1.0000	<.0001	<.0001
34	<.0001	<.0001	0.0425	0.7958	0.2562	<.0001	<.0001	<.0001	<.0001	0.0200	0.5909	0.1400	<.0001	<.0001
35	0.3623	0.2989	0.0017	<.0001	<.0001	0.2421	0.4604	0.1393	0.0361	<.0001	<.0001	<.0001	0.1922	0.0423
36	0.1443	0.0019	<.0001	<.0001	<.0001	0.2154	0.0044	0.1304	<.0001	<.0001	<.0001	<.0001	0.0991	<.0001
37	0.0702	0.8843	0.0923	0.0003	<.0001	0.0424	0.6865	0.0169	0.6757	0.0245	0.0003	<.0001	0.0242	0.7138
38	<.0001	0.0056	0.3381	0.3142	0.0795	<.0001	0.0025	<.0001	0.0065	0.3676	0.6057	0.0363	<.0001	0.0055
39	<.0001	0.0001	0.0420	0.9391	0.4994	<.0001	<.0001	<.0001	<.0001	0.0288	0.4361	0.4196	<.0001	<.0001
40	<.0001	<.0001	0.0070	0.4522	1.0000	<.0001	<.0001	<.0001	<.0001	0.0029	0.1135	1.0000	<.0001	<.0001
41	<.0001	0.0006	0.0982	0.7582	0.2897	<.0001	0.0002	<.0001	0.0004	0.0832	0.7490	0.2060	<.0001	0.0003
42	0.2122	0.6733	0.0249	<.0001	<.0001	0.1419	0.8701	0.0853	0.2735	0.0036	<.0001	<.0001	0.1132	0.2967
43	0.1459	0.0015	<.0001	<.0001	<.0001	0.2220	0.0035	0.1260	<.0001	<.0001	<.0001	<.0001	0.0934	<.0001
44	0.0774	0.9920	0.0554	<.0001	<.0001	0.0458	0.7779	0.0161	0.5304	0.0093	<.0001	<.0001	0.0239	0.5675
45	<.0001	0.0061	0.4062	0.2151	0.0428	<.0001	0.0026	<.0001	0.0065	0.4510	0.4371	0.0133	<.0001	0.0055
46	<.0001	<.0001	0.0233	0.8346	0.5594	<.0001	<.0001	<.0001	<.0001	0.0120	0.3184	0.4747	<.0001	<.0001



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(G01-R2b) : PROC GLM with CLASS varbs of ASSOC & LFORM and MODEL of TLFORMS TLFORMC = ASSOC|LFORM
from data set MWVRA 13:00 Monday, June 8, 2009

The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMC

i/j	29	30	31	32	33	34	35	36	37	38	39	40	41	42
1	0.1128	<.0001	<.0001	<.0001	<.0001	<.0001	0.0198	0.3104	0.0023	<.0001	<.0001	<.0001	<.0001	0.0182
2	0.0563	0.1779	<.0001	<.0001	<.0001	<.0001	0.2456	0.0003	0.6840	0.0003	<.0001	<.0001	<.0001	0.7627
3	<.0001	0.0394	0.4750	0.0012	<.0001	0.0067	<.0001	<.0001	0.0283	0.2698	0.0145	0.0011	0.0487	0.0039
4	<.0001	<.0001	0.0035	0.6982	0.5071	0.3528	<.0001	<.0001	<.0001	0.0915	0.7355	0.6124	0.4136	<.0001
5	<.0001	<.0001	0.0008	0.4048	0.8277	0.1697	<.0001	<.0001	<.0001	0.0430	0.4977	0.8680	0.2472	<.0001
6	0.0062	0.6126	0.0011	<.0001	<.0001	<.0001	0.0458	<.0001	0.8125	0.0024	<.0001	<.0001	0.0001	0.3445
7	0.2644	0.0325	<.0001	<.0001	<.0001	<.0001	0.7157	0.0023	0.3097	<.0001	<.0001	<.0001	<.0001	0.7581
8	0.8022	<.0001	<.0001	<.0001	<.0001	<.0001	0.2448	0.0223	0.0253	<.0001	<.0001	<.0001	<.0001	0.1443
9	0.0373	0.0622	<.0001	<.0001	<.0001	<.0001	0.2395	0.0001	0.5390	<.0001	<.0001	<.0001	<.0001	0.8635
10	<.0001	0.0037	0.6504	0.0004	<.0001	0.0040	<.0001	<.0001	0.0067	0.3494	0.0154	0.0009	0.0575	0.0005
11	<.0001	<.0001	0.0173	0.4756	0.0475	0.9557	<.0001	<.0001	<.0001	0.2938	0.6513	0.1657	0.9355	<.0001
12	<.0001	<.0001	<.0001	0.2656	0.8717	0.0772	<.0001	<.0001	<.0001	0.0207	0.4101	0.9102	0.1756	<.0001
13	0.2635	0.0048	<.0001	<.0001	<.0001	<.0001	0.8373	0.0013	0.1966	<.0001	<.0001	<.0001	<.0001	0.6122
14	0.0095	0.1776	<.0001	<.0001	<.0001	<.0001	0.0903	<.0001	0.8021	0.0001	<.0001	<.0001	<.0001	0.5922
15	0.7082	0.0073	<.0001	<.0001	<.0001	<.0001	0.3623	0.1443	0.0702	<.0001	<.0001	<.0001	<.0001	0.2122
16	0.1157	0.4518	0.0066	<.0001	<.0001	<.0001	0.2989	0.0019	0.8843	0.0056	0.0001	<.0001	0.0006	0.6733
17	0.0002	0.1657	0.5503	0.0160	0.0017	0.0425	0.0017	<.0001	0.0923	0.3381	0.0420	0.0070	0.0982	0.0249
18	<.0001	0.0003	0.0904	0.8980	0.3802	0.7958	<.0001	<.0001	0.0003	0.3142	0.9391	0.4522	0.7582	<.0001
19	<.0001	<.0001	0.0105	0.4534	1.0000	0.2562	<.0001	<.0001	<.0001	0.0795	0.4994	1.0000	0.2897	<.0001
20	0.5262	0.0033	<.0001	<.0001	<.0001	<.0001	0.2421	0.2154	0.0424	<.0001	<.0001	<.0001	<.0001	0.1419
21	0.2027	0.2923	0.0026	<.0001	<.0001	<.0001	0.4604	0.0044	0.6865	0.0025	<.0001	<.0001	0.0002	0.8701
22	0.4341	0.0002	<.0001	<.0001	<.0001	<.0001	0.1393	0.1304	0.0169	<.0001	<.0001	<.0001	<.0001	0.0853
23	0.0054	0.8208	0.0053	<.0001	<.0001	<.0001	0.0361	<.0001	0.6757	0.0065	<.0001	<.0001	0.0004	0.2735
24	<.0001	0.0351	0.6407	0.0048	0.0002	0.0200	<.0001	<.0001	0.0245	0.3676	0.0288	0.0029	0.0832	0.0036
25	<.0001	0.0001	0.1825	0.2984	0.0446	0.5909	<.0001	<.0001	0.0003	0.6057	0.4361	0.1135	0.7490	<.0001
26	<.0001	<.0001	0.0009	0.3296	1.0000	0.1400	<.0001	<.0001	<.0001	0.0363	0.4196	1.0000	0.2060	<.0001
27	0.5438	0.0003	<.0001	<.0001	<.0001	<.0001	0.1922	0.0991	0.0242	<.0001	<.0001	<.0001	<.0001	0.1132
28	0.0066	0.7702	0.0044	<.0001	<.0001	<.0001	0.0423	<.0001	0.7138	0.0055	<.0001	<.0001	0.0003	0.2967
29		0.0001	<.0001	<.0001	<.0001	<.0001	0.3732	0.0152	0.0414	<.0001	<.0001	<.0001	<.0001	0.2040
30	0.0001		0.0011	<.0001	<.0001	<.0001	0.0032	<.0001	0.4945	0.0036	<.0001	<.0001	0.0001	0.1452
31	<.0001	0.0011		0.0027	<.0001	0.0176	<.0001	<.0001	0.0029	0.5404	0.0369	0.0028	0.1173	0.0002



32	<.0001	<.0001	0.0027		0.2143	0.5213	<.0001	<.0001	<.0001	0.1270	0.9636	0.3794	0.5675	<.0001
33	<.0001	<.0001	<.0001	0.2143		0.0603	<.0001	<.0001	<.0001	0.0167	0.3553	1.0000	0.1476	<.0001
34	<.0001	<.0001	0.0176	0.5213	0.0603		<.0001	<.0001	<.0001	0.2824	0.6832	0.1833	0.9060	<.0001
35	0.3732	0.0032	<.0001	<.0001	<.0001	<.0001	0.0024	0.1569	<.0001	<.0001	<.0001	<.0001	<.0001	0.5210
36	0.0152	<.0001	<.0001	<.0001	<.0001	<.0001	0.0024	0.0003	<.0001	<.0001	<.0001	<.0001	<.0001	0.0027
37	0.0414	0.4945	0.0029	<.0001	<.0001	<.0001	0.1569	0.0003	0.0034	<.0001	<.0001	<.0001	0.0002	0.5262
38	<.0001	0.0036	0.5404	0.1270	0.0167	0.2824	<.0001	<.0001	0.0034	0.2263	0.0501	0.4344	0.0004	
39	<.0001	<.0001	0.0369	0.9636	0.3553	0.6832	<.0001	<.0001	<.0001	0.2263		0.4502	0.6675	<.0001
40	<.0001	<.0001	0.0028	0.3794	1.0000	0.1833	<.0001	<.0001	<.0001	0.0501	0.4502		0.2367	<.0001
41	<.0001	0.0001	0.1173	0.5675	0.1476	0.9060	<.0001	<.0001	0.0002	0.4344	0.6675	0.2367		<.0001
42	0.2040	0.1452	0.0002	<.0001	<.0001	<.0001	0.5210	0.0027	0.5262	0.0004	<.0001	<.0001	<.0001	
43	0.0102	<.0001	<.0001	<.0001	<.0001	<.0001	0.0012	0.9233	0.0002	<.0001	<.0001	<.0001	<.0001	0.0019
44	0.0397	0.3350	0.0005	<.0001	<.0001	<.0001	0.1724	0.0002	0.8708	0.0010	<.0001	<.0001	<.0001	0.6065
45	<.0001	0.0029	0.6741	0.0514	0.0037	0.1472	<.0001	<.0001	0.0034	0.8386	0.1348	0.0218	0.2989	0.0003
46	<.0001	<.0001	0.0126	0.8932	0.4004	0.5239	<.0001	<.0001	<.0001	0.1505	0.8844	0.5080	0.5455	<.0001



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from data set MWVRA 13:00 Monday, June 8, 2009

The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMC

i/j	43	44	45	46	47	48	49	50	51	52	53	54	55	56
1	0.3198	0.0017	<.0001	<.0001	<.0001	<.0001	0.0204	0.4159	0.0065	<.0001	<.0001	<.0001	<.0001	0.0572
2	0.0001	0.7964	0.0002	<.0001	<.0001	<.0001	0.5604	0.0006	0.9467	0.0011	<.0001	<.0001	<.0001	0.4427
3	<.0001	0.0103	0.3320	0.0048	0.0004	0.0404	0.0007	<.0001	0.0115	0.4973	0.0061	0.0011	0.0723	0.0008
4	<.0001	<.0001	0.0389	0.8398	0.5812	0.3243	<.0001	<.0001	<.0001	0.0350	0.9732	0.6124	0.3205	<.0001
5	<.0001	<.0001	0.0151	0.5668	0.8564	0.1755	<.0001	<.0001	<.0001	0.0146	0.7083	0.8680	0.1827	<.0001
6	<.0001	0.6576	0.0021	<.0001	<.0001	<.0001	0.2000	<.0001	0.5638	0.0086	<.0001	<.0001	0.0002	0.1588
7	0.0013	0.3570	<.0001	<.0001	<.0001	<.0001	0.9350	0.0043	0.4988	0.0001	<.0001	<.0001	<.0001	0.8743
8	0.0156	0.0226	<.0001	<.0001	<.0001	<.0001	0.1809	0.0388	0.0621	<.0001	<.0001	<.0001	<.0001	0.3445
9	<.0001	0.6357	<.0001	<.0001	<.0001	<.0001	0.6319	0.0003	0.8125	0.0002	<.0001	<.0001	<.0001	0.4909
10	<.0001	0.0013	0.4361	0.0040	0.0002	0.0451	<.0001	<.0001	0.0021	0.6427	0.0059	0.0009	0.0880	<.0001
11	<.0001	<.0001	0.1529	0.4899	0.1232	0.8424	<.0001	<.0001	<.0001	0.1286	0.4301	0.1657	0.7823	<.0001
12	<.0001	<.0001	0.0047	0.4660	0.9002	0.1065	<.0001	<.0001	<.0001	0.0055	0.6265	0.9102	0.1215	<.0001
13	0.0006	0.2197	<.0001	<.0001	<.0001	<.0001	0.7822	0.0027	0.3600	<.0001	<.0001	<.0001	<.0001	0.9919
14	<.0001	0.9450	<.0001	<.0001	<.0001	<.0001	0.3771	<.0001	0.8992	0.0007	<.0001	<.0001	<.0001	0.2929
15	0.1459	0.0774	<.0001	<.0001	<.0001	<.0001	0.2630	0.1936	0.1234	<.0001	<.0001	<.0001	<.0001	0.3810
16	0.0015	0.9920	0.0061	<.0001	<.0001	0.0004	0.5217	0.0032	0.8992	0.0148	<.0001	<.0001	0.0009	0.4272
17	<.0001	0.0554	0.4062	0.0233	0.0045	0.0951	0.0106	<.0001	0.0509	0.5366	0.0230	0.0070	0.1301	0.0091
18	<.0001	<.0001	0.2151	0.8346	0.4282	0.6901	<.0001	<.0001	0.0001	0.1784	0.7491	0.4522	0.6536	<.0001
19	<.0001	<.0001	0.0428	0.5594	1.0000	0.2341	<.0001	<.0001	<.0001	0.0366	0.6656	1.0000	0.2305	<.0001
20	0.2220	0.0458	<.0001	<.0001	<.0001	<.0001	0.1762	0.2808	0.0782	<.0001	<.0001	<.0001	<.0001	0.2723
21	0.0035	0.7779	0.0026	<.0001	<.0001	0.0001	0.7122	0.0071	0.8954	0.0072	<.0001	<.0001	0.0004	0.5917
22	0.1260	0.0161	<.0001	<.0001	<.0001	<.0001	0.1054	0.1864	0.0385	<.0001	<.0001	<.0001	<.0001	0.2011
23	<.0001	0.5304	0.0065	<.0001	<.0001	0.0002	0.1551	<.0001	0.4573	0.0201	<.0001	<.0001	0.0007	0.1240
24	<.0001	0.0093	0.4510	0.0120	0.0013	0.0751	0.0007	<.0001	0.0102	0.6210	0.0135	0.0029	0.1175	0.0008
25	<.0001	<.0001	0.4371	0.3184	0.0875	0.7990	<.0001	<.0001	<.0001	0.3561	0.2851	0.1135	0.8796	<.0001
26	<.0001	<.0001	0.0133	0.4747	1.0000	0.1454	<.0001	<.0001	<.0001	0.0127	0.6054	1.0000	0.1521	<.0001
27	0.0934	0.0239	<.0001	<.0001	<.0001	<.0001	0.1412	0.1447	0.0532	<.0001	<.0001	<.0001	<.0001	0.2538
28	<.0001	0.5675	0.0055	<.0001	<.0001	0.0002	0.1718	<.0001	0.4891	0.0175	<.0001	<.0001	0.0006	0.1370
29	0.0102	0.0397	<.0001	<.0001	<.0001	<.0001	0.2599	0.0271	0.0947	<.0001	<.0001	<.0001	<.0001	0.4465
30	<.0001	0.3350	0.0029	<.0001	<.0001	<.0001	0.0580	<.0001	0.2915	0.0140	<.0001	<.0001	0.0003	0.0497
31	<.0001	0.0005	0.6741	0.0126	0.0009	0.1030	<.0001	<.0001	0.0008	0.8841	0.0158	0.0028	0.1693	<.0001



32	<.0001	<.0001	0.0514	0.8932	0.3296	0.4587	<.0001	<.0001	<.0001	0.0468	0.7736	0.3794	0.4446	<.0001
33	<.0001	<.0001	0.0037	0.4004	1.0000	0.0869	<.0001	<.0001	<.0001	0.0044	0.5540	1.0000	0.1011	<.0001
34	<.0001	<.0001	0.1472	0.5239	0.1400	0.8118	<.0001	<.0001	<.0001	0.1239	0.4587	0.1833	0.7557	<.0001
35	0.0012	0.1724	<.0001	<.0001	<.0001	<.0001	0.6679	0.0047	0.2961	<.0001	<.0001	<.0001	<.0001	0.8954
36	0.9233	0.0002	<.0001	<.0001	<.0001	<.0001	0.0028	0.8571	0.0009	<.0001	<.0001	<.0001	<.0001	0.0094
37	0.0002	0.8708	0.0034	<.0001	<.0001	0.0001	0.3681	0.0006	0.7609	0.0105	<.0001	<.0001	0.0004	0.2938
38	<.0001	0.0010	0.8386	0.1505	0.0363	0.4523	<.0001	<.0001	0.0013	0.7033	0.1387	0.0501	0.5324	<.0001
39	<.0001	<.0001	0.1348	0.8844	0.4196	0.5868	<.0001	<.0001	<.0001	0.1122	0.7856	0.4502	0.5571	<.0001
40	<.0001	<.0001	0.0218	0.5080	1.0000	0.1775	<.0001	<.0001	<.0001	0.0196	0.6289	1.0000	0.1802	<.0001
41	<.0001	<.0001	0.2989	0.5455	0.2060	0.9329	<.0001	<.0001	<.0001	0.2454	0.4830	0.2367	0.8748	<.0001
42	0.0019	0.6065	0.0003	<.0001	<.0001	<.0001	0.8236	0.0047	0.7415	0.0015	<.0001	<.0001	<.0001	0.6767
43		0.0001	<.0001	<.0001	<.0001	<.0001	0.0018	0.9233	0.0006	<.0001	<.0001	<.0001	<.0001	0.0074
44	0.0001		0.0009	<.0001	<.0001	<.0001	0.4256	0.0004	0.8708	0.0038	<.0001	<.0001	<.0001	0.3370
45	<.0001	0.0009		0.0767	0.0133	0.3025	<.0001	<.0001	0.0012	0.8386	0.0744	0.0218	0.3839	<.0001
46	<.0001	<.0001	0.0767		0.4747	0.4570	<.0001	<.0001	<.0001	0.0656	0.8844	0.5080	0.4396	<.0001



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The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMC

i/j	1	2	3	4	5	6	7	8	9	10	11	12	13	14
47	<.0001	<.0001	0.0004	0.5812	0.8564	<.0001	<.0001	<.0001	<.0001	0.0002	0.1232	0.9002	<.0001	<.0001
48	<.0001	<.0001	0.0404	0.3243	0.1755	<.0001	<.0001	<.0001	<.0001	0.0451	0.8424	0.1065	<.0001	<.0001
49	0.0204	0.5604	0.0007	<.0001	<.0001	0.2000	0.9350	0.1809	0.6319	<.0001	<.0001	<.0001	0.7822	0.3771
50	0.4159	0.0006	<.0001	<.0001	<.0001	<.0001	0.0043	0.0388	0.0003	<.0001	<.0001	<.0001	0.0027	<.0001
51	0.0065	0.9467	0.0115	<.0001	<.0001	0.5638	0.4988	0.0621	0.8125	0.0021	<.0001	<.0001	0.3600	0.8992
52	<.0001	0.0011	0.4973	0.0350	0.0146	0.0086	0.0001	<.0001	0.0002	0.6427	0.1286	0.0055	<.0001	0.0007
53	<.0001	<.0001	0.0061	0.9732	0.7083	<.0001	<.0001	<.0001	<.0001	0.0059	0.4301	0.6265	<.0001	<.0001
54	<.0001	<.0001	0.0011	0.6124	0.8680	<.0001	<.0001	<.0001	<.0001	0.0009	0.1657	0.9102	<.0001	<.0001
55	<.0001	<.0001	0.0723	0.3205	0.1827	0.0002	<.0001	<.0001	<.0001	0.0880	0.7823	0.1215	<.0001	<.0001
56	0.0572	0.4427	0.0008	<.0001	<.0001	0.1588	0.8743	0.3445	0.4909	<.0001	<.0001	<.0001	0.9919	0.2929

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

Dependent Variable: TLFORMC

i/j	15	16	17	18	19	20	21	22	23	24	25	26	27	28
47	<.0001	<.0001	0.0045	0.4282	1.0000	<.0001	<.0001	<.0001	<.0001	0.0013	0.0875	1.0000	<.0001	<.0001
48	<.0001	0.0004	0.0951	0.6901	0.2341	<.0001	0.0001	<.0001	0.0002	0.0751	0.7990	0.1454	<.0001	0.0002
49	0.2630	0.5217	0.0106	<.0001	<.0001	0.1762	0.7122	0.1054	0.1551	0.0007	<.0001	<.0001	0.1412	0.1718
50	0.1936	0.0032	<.0001	<.0001	<.0001	0.2808	0.0071	0.1864	<.0001	<.0001	<.0001	<.0001	0.1447	<.0001
51	0.1234	0.8992	0.0509	0.0001	<.0001	0.0782	0.8954	0.0385	0.4573	0.0102	<.0001	<.0001	0.0532	0.4891
52	<.0001	0.0148	0.5366	0.1784	0.0366	<.0001	0.0072	<.0001	0.0201	0.6210	0.3561	0.0127	<.0001	0.0175
53	<.0001	<.0001	0.0230	0.7491	0.6656	<.0001	<.0001	<.0001	<.0001	0.0135	0.2851	0.6054	<.0001	<.0001
54	<.0001	<.0001	0.0070	0.4522	1.0000	<.0001	<.0001	<.0001	<.0001	0.0029	0.1135	1.0000	<.0001	<.0001
55	<.0001	0.0009	0.1301	0.6536	0.2305	<.0001	0.0004	<.0001	0.0007	0.1175	0.8796	0.1521	<.0001	0.0006
56	0.3810	0.4272	0.0091	<.0001	<.0001	0.2723	0.5917	0.2011	0.1240	0.0008	<.0001	<.0001	0.2538	0.1370

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



Dependent Variable: TLFORMC

i/j	29	30	31	32	33	34	35	36	37	38	39	40	41	42
47	<.0001	<.0001	0.0009	0.3296	1.0000	0.1400	<.0001	<.0001	<.0001	0.0363	0.4196	1.0000	0.2060	<.0001
48	<.0001	<.0001	0.1030	0.4587	0.0869	0.8118	<.0001	<.0001	0.0001	0.4523	0.5868	0.1775	0.9329	<.0001
49	0.2599	0.0580	<.0001	<.0001	<.0001	<.0001	0.6679	0.0028	0.3681	<.0001	<.0001	<.0001	<.0001	0.8236
50	0.0271	<.0001	<.0001	<.0001	<.0001	<.0001	0.0047	0.8571	0.0006	<.0001	<.0001	<.0001	<.0001	0.0047
51	0.0947	0.2915	0.0008	<.0001	<.0001	<.0001	0.2961	0.0009	0.7609	0.0013	<.0001	<.0001	<.0001	0.7415
52	<.0001	0.0140	0.8841	0.0468	0.0044	0.1239	<.0001	<.0001	0.0105	0.7033	0.1122	0.0196	0.2454	0.0015
53	<.0001	<.0001	0.0158	0.7736	0.5540	0.4587	<.0001	<.0001	<.0001	0.1387	0.7856	0.6289	0.4830	<.0001
54	<.0001	<.0001	0.0028	0.3794	1.0000	0.1833	<.0001	<.0001	<.0001	0.0501	0.4502	1.0000	0.2367	<.0001
55	<.0001	0.0003	0.1693	0.4446	0.1011	0.7557	<.0001	<.0001	0.0004	0.5324	0.5571	0.1802	0.8748	<.0001
56	0.4465	0.0497	<.0001	<.0001	<.0001	<.0001	0.8954	0.0094	0.2938	<.0001	<.0001	<.0001	<.0001	0.6767



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(G01-R2b) : PROC GLM with CLASS varbs of ASSOC & LFORM and MODEL of TLFORMS TLFORMC = ASSOC|LFORM
from data set MWVRA 13:00 Monday, June 8, 2009

The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMC

i/j	43	44	45	46	47	48	49	50	51	52	53	54	55	56
47	<.0001	<.0001	0.0133	0.4747		0.1454	<.0001	<.0001	<.0001	0.0127	0.6054	1.0000	0.1521	<.0001
48	<.0001	<.0001	0.3025	0.4570	0.1454		<.0001	<.0001	<.0001	0.2470	0.4044	0.1775	0.9329	<.0001
49	0.0018	0.4256	<.0001	<.0001	<.0001	<.0001		0.0051	0.5651	0.0003	<.0001	<.0001	<.0001	0.8236
50	0.9233	0.0004	<.0001	<.0001	<.0001	<.0001	<.0001		0.0016	<.0001	<.0001	<.0001	<.0001	0.0155
51	0.0006	0.8708	0.0012	<.0001	<.0001	<.0001	0.5651	0.0016		0.0043	<.0001	<.0001	0.0001	0.4554
52	<.0001	0.0038	0.8386	0.0656	0.0127	0.2470	0.0003	<.0001	0.0043		0.0632	0.0196	0.3151	0.0003
53	<.0001	<.0001	0.0744	0.8844	0.6054	0.4044	<.0001	<.0001	<.0001	0.0632		0.6289	0.3905	<.0001
54	<.0001	<.0001	0.0218	0.5080	1.0000	0.1775	<.0001	<.0001	<.0001	0.0196	0.6289		0.1802	<.0001
55	<.0001	<.0001	0.3839	0.4396	0.1521	0.9329	<.0001	<.0001	0.0001	0.3151	0.3905	0.1802		<.0001
56	0.0074	0.3370	<.0001	<.0001	<.0001	<.0001	0.8236	0.0155	0.4554	0.0003	<.0001	<.0001	<.0001	

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



Appendix 3. SAS output using the General Linear Model (GLM) Procedure on associations and life form (species level and cover level)

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(G01-R3a) : PROC GLM with CLASS varbs of GROUP & LFORM and MODEL of TLFORMS TLFORMC = GROUP|LFORM  
from data set MWVRA 10:38 Thursday, June 18, 2009
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The GLM Procedure

Class Level Information

Class	Levels	Values
GROUP	3	MR TK WRK
LFORM	7	Chamaeph Cryptoph Hemicryp Liana Parasite Phanerop Therophy

Number of observations 280



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 (G01-R3a) : PROC GLM with CLASS varbs of GROUP & LFORM and MODEL of TLFORMS TLFORMC = GROUP|LFORM
 from data set MWVRA 10:38 Thursday, June 18, 2009

The GLM Procedure

Dependent Variable: TLFORMS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	20	79.37425240	3.96871262	71.71	<.0001
Error	259	14.33424940	0.05534459		
Corrected Total	279	93.70850180			

R-Square Coeff Var Root MSE TLFORMS Mean
 0.847034 26.37744 0.235254 0.891877

Source	DF	Type I SS	Mean Square	F Value	Pr > F
GROUP	2	0.57058753	0.28529376	5.15	0.0064
LFORM	6	75.09709099	12.51618183	226.15	<.0001
GROUP*LFORM	12	3.70657388	0.30888116	5.58	<.0001

Source	DF	Type II SS	Mean Square	F Value	Pr > F
GROUP	2	0.57058753	0.28529376	5.15	0.0064
LFORM	6	75.09709099	12.51618183	226.15	<.0001
GROUP*LFORM	12	3.70657388	0.30888116	5.58	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
GROUP	2	0.57058753	0.28529376	5.15	0.0064
LFORM	6	62.11432032	10.35238672	187.05	<.0001
GROUP*LFORM	12	3.70657388	0.30888116	5.58	<.0001



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(G01-R3a) : PROC GLM with CLASS varbs of GROUP & LFORM and MODEL of TLFORMS TLFORMC = GROUP|LFORM
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The GLM Procedure

Dependent Variable: TLFORMC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	20	82.9775425	4.1488771	48.56	<.0001
Error	259	22.1304633	0.0854458		
Corrected Total	279	105.1080057			

R-Square Coeff Var Root MSE TLFORMC Mean
0.789450 37.95363 0.292311 0.770180

Source	DF	Type I SS	Mean Square	F Value	Pr > F
GROUP	2	1.03844985	0.51922492	6.08	0.0026
LFORM	6	75.90779762	12.65129960	148.06	<.0001
GROUP*LFORM	12	6.03129499	0.50260792	5.88	<.0001

Source	DF	Type II SS	Mean Square	F Value	Pr > F
GROUP	2	1.03844985	0.51922492	6.08	0.0026
LFORM	6	75.90779762	12.65129960	148.06	<.0001
GROUP*LFORM	12	6.03129499	0.50260792	5.88	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
GROUP	2	1.03844985	0.51922492	6.08	0.0026
LFORM	6	68.78232713	11.46372119	134.16	<.0001
GROUP*LFORM	12	6.03129499	0.50260792	5.88	<.0001



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 (G01-R3a) : PROC GLM with CLASS varbs of GROUP & LFORM and MODEL of TLFORMS TLFORMC = GROUP|LFORM
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The GLM Procedure
 Least Squares Means

GROUP	TLFORMS LSMEAN	Standard Error	Pr > t	LSMEAN Number
MR	0.92903154	0.02156573	<.0001	1
TK	0.80081768	0.03360776	<.0001	2
WRK	0.89223910	0.02222944	<.0001	3

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

Dependent Variable: TLFORMS

i/j	1	2	3
1		0.0015	0.2359
2	0.0015		0.0241
3	0.2359	0.0241	

GROUP	TLFORMC LSMEAN	Standard Error	Pr > t	LSMEAN Number
MR	0.84088062	0.02679612	<.0001	1
TK	0.72541294	0.04175873	<.0001	2
WRK	0.71464536	0.02762081	<.0001	3

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

Dependent Variable: TLFORMC

i/j	1	2	3
1		0.0207	0.0012
2	0.0207		0.8299
3	0.0012	0.8299	



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

LFORM	TLFORMS LSMEAN	Standard Error	Pr > t	LSMEAN Number
Chamaeph	1.50345838	0.04030574	<.0001	1
Cryptoph	1.38126478	0.04030574	<.0001	2
Hemicryp	1.02607088	0.04030574	<.0001	3
Liana	0.42609088	0.04030574	<.0001	4
Parasite	0.02049258	0.04030574	0.6116	5
Phanerop	0.55069755	0.04030574	<.0001	6
Therophy	1.21013103	0.04030574	<.0001	7



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The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMS

i/j	1	2	3	4	5	6	7
1		0.0330	<.0001	<.0001	<.0001	<.0001	<.0001
2	0.0330		<.0001	<.0001	<.0001	<.0001	0.0029
3	<.0001	<.0001		<.0001	<.0001	<.0001	0.0014
4	<.0001	<.0001	<.0001		<.0001	0.0297	<.0001
5	<.0001	<.0001	<.0001	<.0001		<.0001	<.0001
6	<.0001	<.0001	<.0001	0.0297	<.0001		<.0001
7	<.0001	0.0029	0.0014	<.0001	<.0001	<.0001	

LFORM	TLFORMC LSMEAN	Standard Error	Pr > t	LSMEAN Number
Chamaeph	1.62518610	0.05008119	<.0001	1
Cryptoph	1.07764311	0.05008119	<.0001	2
Hemicryp	0.54059641	0.05008119	<.0001	3
Liana	0.17012721	0.05008119	0.0008	4
Parasite	0.00698021	0.05008119	0.8893	5
Phanerop	0.69237746	0.05008119	<.0001	6
Therophy	1.20928031	0.05008119	<.0001	7

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

Dependent Variable: TLFORMC

i/j	1	2	3	4	5	6	7
1		<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
2	<.0001		<.0001	<.0001	<.0001	<.0001	0.0642
3	<.0001	<.0001		<.0001	<.0001	0.0330	<.0001



4	<.0001	<.0001	<.0001		0.0220	<.0001	<.0001
5	<.0001	<.0001	<.0001	0.0220		<.0001	<.0001
6	<.0001	<.0001	0.0330	<.0001	<.0001		<.0001
7	<.0001	0.0642	<.0001	<.0001	<.0001	<.0001	

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

GROUP	LFORM	TLFORMS LSMEAN	Standard Error	Pr > t	LSMEAN Number
MR	Chamaeph	1.43306342	0.05705755	<.0001	1
MR	Cryptoph	1.49789479	0.05705755	<.0001	2
MR	Hemicryp	0.97149790	0.05705755	<.0001	3



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The GLM Procedure
Least Squares Means

GROUP	LFORM	TLFORMS LSMEAN	Standard Error	Pr > t	LSMEAN Number
MR	Liana	0.40553491	0.05705755	<.0001	4
MR	Parasite	0.06147773	0.05705755	0.2823	5
MR	Phanerop	0.69473557	0.05705755	<.0001	6
MR	Therophy	1.43901643	0.05705755	<.0001	7
TK	Chamaeph	1.61012732	0.08891777	<.0001	8
TK	Cryptoph	1.22575515	0.08891777	<.0001	9
TK	Hemicryp	1.17115547	0.08891777	<.0001	10
TK	Liana	0.38276543	0.08891777	<.0001	11
TK	Parasite	0.00000000	0.08891777	1.0000	12
TK	Phanerop	0.47779120	0.08891777	<.0001	13
TK	Therophy	0.73812922	0.08891777	<.0001	14
WRK	Chamaeph	1.46718439	0.05881358	<.0001	15
WRK	Cryptoph	1.42014439	0.05881358	<.0001	16
WRK	Hemicryp	0.93555928	0.05881358	<.0001	17
WRK	Liana	0.48997231	0.05881358	<.0001	18
WRK	Parasite	0.00000000	0.05881358	1.0000	19
WRK	Phanerop	0.47956589	0.05881358	<.0001	20
WRK	Therophy	1.45324743	0.05881358	<.0001	21

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

Dependent Variable: TLFORMS

i/j	1	2	3	4	5	6	7	8	9	10	11
1		0.4225	<.0001	<.0001	<.0001	<.0001	0.9412	0.0950	0.0508	0.0138	<.0001
2	0.4225		<.0001	<.0001	<.0001	<.0001	0.4663	0.2891	0.0106	0.0022	<.0001
3	<.0001	<.0001		<.0001	<.0001	0.0007	<.0001	<.0001	0.0168	0.0599	<.0001
4	<.0001	<.0001	<.0001		<.0001	0.0004	<.0001	<.0001	<.0001	<.0001	0.8295
5	<.0001	<.0001	<.0001	<.0001		<.0001	<.0001	<.0001	<.0001	<.0001	0.0026
6	<.0001	<.0001	0.0007	0.0004	<.0001		<.0001	<.0001	<.0001	<.0001	0.0034
7	0.9412	0.4663	<.0001	<.0001	<.0001	<.0001		0.1065	0.0446	0.0118	<.0001
8	0.0950	0.2891	<.0001	<.0001	<.0001	<.0001	0.1065		0.0025	0.0006	<.0001



9	0.0508	0.0106	0.0168	<.0001	<.0001	<.0001	0.0446	0.0025		0.6645	<.0001
10	0.0138	0.0022	0.0599	<.0001	<.0001	<.0001	0.0118	0.0006	0.6645		<.0001
11	<.0001	<.0001	<.0001	0.8295	0.0026	0.0034	<.0001	<.0001	<.0001	<.0001	
12	<.0001	<.0001	<.0001	0.0002	0.5611	<.0001	<.0001	<.0001	<.0001	<.0001	0.0026
13	<.0001	<.0001	<.0001	0.4946	0.0001	0.0410	<.0001	<.0001	<.0001	<.0001	0.4505
14	<.0001	<.0001	0.0281	0.0018	<.0001	0.6816	<.0001	<.0001	0.0001	0.0007	0.0051
15	0.6775	0.7081	<.0001	<.0001	<.0001	<.0001	0.7313	0.1812	0.0244	0.0059	<.0001
16	0.8748	0.3436	<.0001	<.0001	<.0001	<.0001	0.8180	0.0759	0.0694	0.0203	<.0001
17	<.0001	<.0001	0.6613	<.0001	<.0001	0.0036	<.0001	<.0001	0.0069	0.0280	<.0001
18	<.0001	<.0001	<.0001	0.3038	<.0001	0.0131	<.0001	<.0001	<.0001	<.0001	0.3155
19	<.0001	<.0001	<.0001	<.0001	0.4538	<.0001	<.0001	<.0001	<.0001	<.0001	0.0004
20	<.0001	<.0001	<.0001	0.3671	<.0001	0.0092	<.0001	<.0001	<.0001	<.0001	0.3647
21	0.8056	0.5863	<.0001	<.0001	<.0001	<.0001	0.8623	0.1424	0.0338	0.0086	<.0001



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The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMS

i/j	12	13	14	15	16	17	18	19	20	21
1	<.0001	<.0001	<.0001	0.6775	0.8748	<.0001	<.0001	<.0001	<.0001	0.8056
2	<.0001	<.0001	<.0001	0.7081	0.3436	<.0001	<.0001	<.0001	<.0001	0.5863
3	<.0001	<.0001	0.0281	<.0001	<.0001	0.6613	<.0001	<.0001	<.0001	<.0001
4	0.0002	0.4946	0.0018	<.0001	<.0001	<.0001	0.3038	<.0001	0.3671	<.0001
5	0.5611	0.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.4538	<.0001	<.0001
6	<.0001	0.0410	0.6816	<.0001	<.0001	0.0036	0.0131	<.0001	0.0092	<.0001
7	<.0001	<.0001	<.0001	0.7313	0.8180	<.0001	<.0001	<.0001	<.0001	0.8623
8	<.0001	<.0001	<.0001	0.1812	0.0759	<.0001	<.0001	<.0001	<.0001	0.1424
9	<.0001	<.0001	0.0001	0.0244	0.0694	0.0069	<.0001	<.0001	<.0001	0.0338
10	<.0001	<.0001	0.0007	0.0059	0.0203	0.0280	<.0001	<.0001	<.0001	0.0086
11	0.0026	0.4505	0.0051	<.0001	<.0001	<.0001	0.3155	0.0004	0.3647	<.0001
12		0.0002	<.0001	<.0001	<.0001	<.0001	<.0001	1.0000	<.0001	<.0001
13	0.0002		0.0394	<.0001	<.0001	<.0001	0.9091	<.0001	0.9867	<.0001
14	<.0001	0.0394		<.0001	<.0001	0.0652	0.0207	<.0001	0.0160	<.0001
15	<.0001	<.0001	<.0001		0.5722	<.0001	<.0001	<.0001	<.0001	0.8671
16	<.0001	<.0001	<.0001	0.5722		<.0001	<.0001	<.0001	<.0001	0.6910
17	<.0001	<.0001	0.0652	<.0001	<.0001		<.0001	<.0001	<.0001	<.0001
18	<.0001	0.9091	0.0207	<.0001	<.0001	<.0001		<.0001	0.9005	<.0001
19	1.0000	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001		<.0001	<.0001
20	<.0001	0.9867	0.0160	<.0001	<.0001	<.0001	0.9005	<.0001		<.0001
21	<.0001	<.0001	<.0001	0.8671	0.6910	<.0001	<.0001	<.0001	<.0001	

GROUP	LFORM	TLFORMC LSMEAN	Standard Error	Pr > t	LSMEAN Number
MR	Chamaeph	1.51783710	0.07089587	<.0001	1
MR	Cryptoph	1.15160079	0.07089587	<.0001	2
MR	Hemicryp	0.60937326	0.07089587	<.0001	3
MR	Liana	0.19197553	0.07089587	0.0072	4
MR	Parasite	0.02094062	0.07089587	0.7679	5



MR	Phanerop	1.23813553	0.07089587	<.0001	6
MR	Therophy	1.15630147	0.07089587	<.0001	7
TK	Chamaeph	1.82406298	0.11048323	<.0001	8
TK	Cryptoph	1.10843758	0.11048323	<.0001	9
TK	Hemicryp	0.48250491	0.11048323	<.0001	10
TK	Liana	0.12088991	0.11048323	0.2749	11
TK	Parasite	0.00000000	0.11048323	1.0000	12
TK	Phanerop	0.27959215	0.11048323	0.0120	13
TK	Therophy	1.26240303	0.11048323	<.0001	14
WRK	Chamaeph	1.53365824	0.07307779	<.0001	15
WRK	Cryptoph	0.97289095	0.07307779	<.0001	16
WRK	Hemicryp	0.52991106	0.07307779	<.0001	17
WRK	Liana	0.19751617	0.07307779	0.0073	18
WRK	Parasite	0.00000000	0.07307779	1.0000	19
WRK	Phanerop	0.55940468	0.07307779	<.0001	20



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The GLM Procedure
Least Squares Means

GROUP	LFORM	TLFORMC LSMEAN	Standard Error	Pr > t	LSMEAN Number
WRK	Therophy	1.20913642	0.07307779	<.0001	21

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

Dependent Variable: TLFORMC

i/j	1	2	3	4	5	6	7	8	9	10	11
1		0.0003	<.0001	<.0001	<.0001	0.0057	0.0004	0.0204	0.0020	<.0001	<.0001
2	0.0003		<.0001	<.0001	<.0001	0.3889	0.9626	<.0001	0.7426	<.0001	<.0001
3	<.0001	<.0001		<.0001	<.0001	<.0001	<.0001	<.0001	0.0002	0.3347	0.0002
4	<.0001	<.0001	<.0001		0.0892	<.0001	<.0001	<.0001	<.0001	0.0278	0.5886
5	<.0001	<.0001	<.0001	0.0892		<.0001	<.0001	<.0001	<.0001	0.0005	0.4471
6	0.0057	0.3889	<.0001	<.0001	<.0001		0.4151	<.0001	0.3241	<.0001	<.0001
7	0.0004	0.9626	<.0001	<.0001	<.0001	0.4151		<.0001	0.7157	<.0001	<.0001
8	0.0204	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001		<.0001	<.0001	<.0001
9	0.0020	0.7426	0.0002	<.0001	<.0001	0.3241	0.7157	<.0001		<.0001	<.0001
10	<.0001	<.0001	0.3347	0.0278	0.0005	<.0001	<.0001	<.0001	<.0001		0.0214
11	<.0001	<.0001	0.0002	0.5886	0.4471	<.0001	<.0001	<.0001	<.0001	0.0214	
12	<.0001	<.0001	<.0001	0.1448	0.8734	<.0001	<.0001	<.0001	<.0001	0.0022	0.4398
13	<.0001	<.0001	0.0126	0.5051	0.0499	<.0001	<.0001	<.0001	<.0001	0.1952	0.3107
14	0.0528	0.3994	<.0001	<.0001	<.0001	0.8535	0.4197	0.0004	0.3253	<.0001	<.0001
15	0.8766	0.0002	<.0001	<.0001	<.0001	0.0040	0.0003	0.0292	0.0015	<.0001	<.0001

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

Dependent Variable: TLFORMC

i/j	12	13	14	15	16	17	18	19	20	21
1	<.0001	<.0001	0.0528	0.8766	<.0001	<.0001	<.0001	<.0001	<.0001	0.0027
2	<.0001	<.0001	0.3994	0.0002	0.0804	<.0001	<.0001	<.0001	<.0001	0.5725



3	<.0001	0.0126	<.0001	<.0001	0.0004	0.4358	<.0001	<.0001	0.6240	<.0001
4	0.1448	0.5051	<.0001	<.0001	<.0001	0.0010	0.9566	0.0605	0.0004	<.0001
5	0.8734	0.0499	<.0001	<.0001	<.0001	<.0001	0.0841	0.8372	<.0001	<.0001
6	<.0001	<.0001	0.8535	0.0040	0.0097	<.0001	<.0001	<.0001	<.0001	0.7760
7	<.0001	<.0001	0.4197	0.0003	0.0728	<.0001	<.0001	<.0001	<.0001	0.6043
8	<.0001	<.0001	0.0004	0.0292	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
9	<.0001	<.0001	0.3253	0.0015	0.3071	<.0001	<.0001	<.0001	<.0001	0.4478
10	0.0022	0.1952	<.0001	<.0001	0.0003	0.7207	0.0324	0.0003	0.5621	<.0001
11	0.4398	0.3107	<.0001	<.0001	<.0001	0.0022	0.5635	0.3623	0.0011	<.0001
12	<.0001	0.0747	<.0001	<.0001	<.0001	<.0001	0.1372	1.0000	<.0001	<.0001
13	0.0747	<.0001	<.0001	<.0001	<.0001	0.0599	0.5361	0.0358	0.0356	<.0001
14	<.0001	<.0001	<.0001	0.0416	0.0297	<.0001	<.0001	<.0001	<.0001	0.6879
15	<.0001	<.0001	0.0416	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.0019



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The GLM Procedure
Least Squares Means

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

Dependent Variable: TLFORMC

i/j	1	2	3	4	5	6	7	8	9	10	11
16	<.0001	0.0804	0.0004	<.0001	<.0001	0.0097	0.0728	<.0001	0.3071	0.0003	<.0001
17	<.0001	<.0001	0.4358	0.0010	<.0001	<.0001	<.0001	<.0001	<.0001	0.7207	0.0022
18	<.0001	<.0001	<.0001	0.9566	0.0841	<.0001	<.0001	<.0001	<.0001	0.0324	0.5635
19	<.0001	<.0001	<.0001	0.0605	0.8372	<.0001	<.0001	<.0001	<.0001	0.0003	0.3623
20	<.0001	<.0001	0.6240	0.0004	<.0001	<.0001	<.0001	<.0001	<.0001	0.5621	0.0011
21	0.0027	0.5725	<.0001	<.0001	<.0001	0.7760	0.6043	<.0001	0.4478	<.0001	<.0001

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

Dependent Variable: TLFORMC

i/j	12	13	14	15	16	17	18	19	20	21
16	<.0001	<.0001	0.0297	<.0001		<.0001	<.0001	<.0001	<.0001	0.0231
17	<.0001	0.0599	<.0001	<.0001	<.0001		0.0015	<.0001	0.7756	<.0001
18	0.1372	0.5361	<.0001	<.0001	<.0001	0.0015		0.0571	0.0005	<.0001
19	1.0000	0.0358	<.0001	<.0001	<.0001	<.0001	0.0571		<.0001	<.0001
20	<.0001	0.0356	<.0001	<.0001	<.0001	0.7756	0.0005	<.0001		<.0001
21	<.0001	<.0001	0.6879	0.0019	0.0231	<.0001	<.0001	<.0001	<.0001	

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