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The SAS System

Obs	Year	Tier	treatment	dmg_now	tot_nuts	start_when	insecticide	pctNOW
1	2015	1	EarlyC	137	4565	early	Yes	3.0010952903
2	2015	2	EarlyMD	93	4575	early	No	2.0327868852
3	2015	3	StandC	28	4532	standard	Yes	0.6178287732
4	2015	4	StandMD	44	4476	standard	No	0.9830205541
5	2015	5	EarlyC	99	4677	early	Yes	2.116741501
6	2015	6	EarlyMD	176	4531	early	No	3.8843522401

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The SAS System

The GLIMMIX Procedure

Model Information				
Data Set	WORK.Y15			
Response Variable (Events)	dmg_now			
Response Variable (Trials)	tot_nuts			
Response Distribution	Binomial			
Link Function	Logit			
Variance Function	Default			
Variance Matrix	Not blocked			
Estimation Technique	Residual PL			
Degrees of Freedom Method	Kenward-Roger			
Fixed Effects SE Adjustment	Kenward-Roger			

Class Level Information				
Class Levels Values				
Tier	8	12345678		
start_when	2	early standard		
insecticide	2	No Yes		

Number of Observations Read	8
Number of Observations Used	8
Number of Events	1284
Number of Trials	33503

Dimensions			
G-side Cov. Parameters	1		
Columns in X	9		
Columns in Z	8		
Subjects (Blocks in V)	1		
Max Obs per Subject	8		

Optimization Information			
Optimization Technique Dual Quasi-Newtor			
Parameters in Optimization	1		

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Lower Boundaries	1
Upper Boundaries	0
Fixed Effects	Profiled
Starting From	Data

Iteration History						
Iteration Restarts Subiterations Objective Function Change Gradie						
0	0	1	16.268174722	0.00002703	9.756E-6	
1	0	0	16.268176359	0.00000000	9.445E-6	

Convergence criterion (PCONV=1.11022E-8) satisfied.

Fit Statistics				
-2 Res Log Pseudo-Likelihood	16.27			
Generalized Chi-Square	4.00			
Gener. Chi-Square / DF	1.00			

Covariance	Covariance Parameter Estimates					
Cov Parm	Estimate	Standard Error				
Tier	1.6949	1.2086				

Type III Tests of Fixed Effects							
Effect Num DF Den DF F Value Pr > F							
start_when	1	3.994	0.00	0.9852			
insecticide	1	3.994	0.53	0.5067			
start_whe*insecticid	1	3.994	0.37	0.5773			