

The Mixed Procedure

Model Information	
Data Set	WORK.REPEATED_MEASURES
Dependent Variable	Height
Covariance Structures	Variance Components, Unstructured @ Compound Symmetry
Subject Effects	PlotID, PlotID
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Kenward-Roger
Degrees of Freedom Method	Kenward-Roger

Class Level Information		
Class	Levels	Values
Rep	10	1 2 3 4 5 6 7 8 9 10
Trmt	5	A B C D E
Day	3	1 2 3
PlotID	50	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
Year	2	2016 2017

Dimensions	
Covariance Parameters	5
Columns in X	72
Columns in Z per Subject	10
Subjects	50
Max Obs per Subject	6

Number of Observations	
Number of Observations Read	300
Number of Observations Used	300
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	1714.96234760	
1	2	1464.53892774	0.00000227
2	1	1464.53782167	0.00000000

Convergence criteria met.

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Covariance Parameter Estimates					
Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr Z
Rep	PlotID	0.4418	1.7580	0.25	0.4008
Year UN(1,1)	PlotID	33.3369	4.4324	7.52	<.0001
UN(2,1)	PlotID	22.1299	3.3467	6.61	<.0001
UN(2,2)	PlotID	17.7752	2.7970	6.36	<.0001
Day Corr	PlotID	-0.03397	0.08294	-0.41	0.6821

Fit Statistics	
-2 Res Log Likelihood	1464.5
AIC (Smaller is Better)	1474.5
AICC (Smaller is Better)	1474.8
BIC (Smaller is Better)	1484.1

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Trmt	4	65.8	62.70	<.0001
Day	2	105	872.34	<.0001
Trmt*Day	8	105	74.19	<.0001
Year	1	45	3125.17	<.0001
Trmt*Year	4	45	1306.42	<.0001
Day*Year	2	90	307.38	<.0001
Trmt*Day*Year	8	90	580.25	<.0001

Least Squares Means							
Effect	Day	Year	Estimate	Standard Error	DF	t Value	Pr >  t
Day*Year	1	2016	29.6280	0.8219	135	36.05	<.0001
Day*Year	1	2017	15.1000	0.6036	135	25.02	<.0001
Day*Year	2	2016	32.6500	0.8219	135	39.72	<.0001
Day*Year	2	2017	28.6720	0.6036	135	47.50	<.0001
Day*Year	3	2016	69.8380	0.8219	135	84.97	<.0001
Day*Year	3	2017	53.7200	0.6036	135	89.00	<.0001