

The Mixed Procedure

Model Information	
Data Set	WORK.PLANTCOVERAGE_YEAR2
Dependent Variable	log_Total_Bees
Covariance Structure	Variance Components
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Satterthwaite

Class Level Information		
Class	Levels	Values
Site	10	Bowman Cretsinger Elkader Kaldenberg McClellan NealSmith Peckumn Plunkett Sheller Sloan
Year	1	2
Sampling_Day	5	1 2 3 4 5

Dimensions	
Covariance Parameters	3
Columns in X	24
Columns in Z	60
Subjects	1
Max Obs per Subject	50

Number of Observations	
Number of Observations Read	50
Number of Observations Used	50
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	155.70091750	
1	4	149.60696921	.
2	2	149.52371408	0.00071225
3	1	149.49430087	0.00001505
4	1	149.49372079	0.00000001

Convergence criteria met.

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Covariance Parameter Estimates	
Cov Parm	Estimate
Site	0.3123
Site*Sampling_Day	0
Residual	0.6285

Fit Statistics	
-2 Res Log Likelihood	149.5
AIC (Smaller is Better)	153.5
AICC (Smaller is Better)	153.8
BIC (Smaller is Better)	154.1

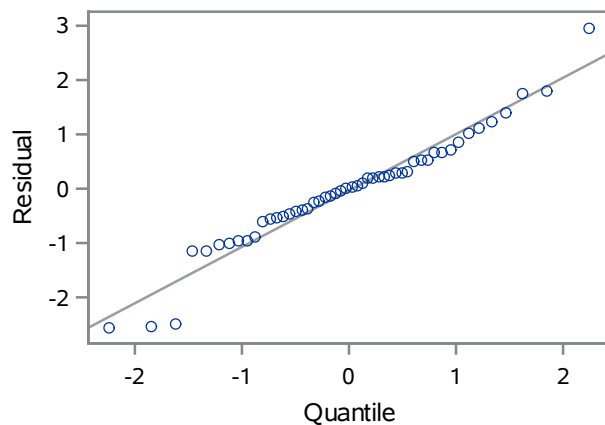
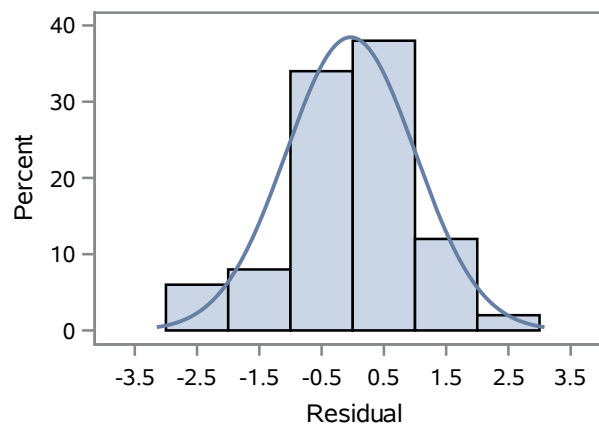
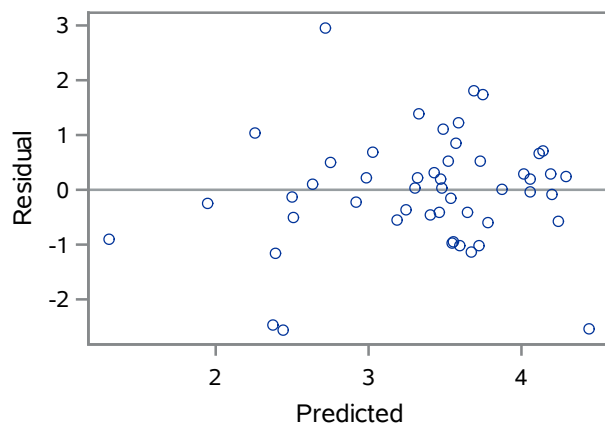
Solution for Fixed Effects							
Effect	Year	Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept			3.0154	0.4273	38.5	7.06	<.0001
Average_Coverage			0.02249	0.01782	37.6	1.26	0.2146
Sampling_Day		1	-0.6497	0.4857	33.4	-1.34	0.1900
Sampling_Day		2	0.4913	0.4816	33.4	1.02	0.3150
Sampling_Day		3	0.2975	0.5123	32.9	0.58	0.5653
Sampling_Day		4	0.5592	0.5614	32.3	1.00	0.3266
Sampling_Day		5	0	.	.	.	.
Average_C*Sampling_D		1	0.1893	0.08682	38.1	2.18	0.0354
Average_C*Sampling_D		2	0.03860	0.07379	38	0.52	0.6040
Average_C*Sampling_D		3	-0.01181	0.02455	34.4	-0.48	0.6335
Average_C*Sampling_D		4	-0.02229	0.02445	32.6	-0.91	0.3687
Average_C*Sampling_D		5	0	.	.	.	.
Year	2		0	.	.	.	.
Average_Coverag*Year	2		0	.	.	.	.
Year*Sampling_Day	2	1	0	.	.	.	.
Year*Sampling_Day	2	2	0	.	.	.	.
Year*Sampling_Day	2	3	0	.	.	.	.
Year*Sampling_Day	2	4	0	.	.	.	.
Year*Sampling_Day	2	5	0	.	.	.	.
Average*Year*Samplin	2	1	0
Average*Year*Samplin	2	2	0
Average*Year*Samplin	2	3	0

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Solution for Fixed Effects							
Effect	Year	Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > t
Average*Year*Samplin	2	4	0	.	.	.	.
Average*Year*Samplin	2	5	0	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Average_Coverage	1	37.6	4.98	0.0317
Sampling_Day	4	32.7	2.49	0.0625
Average_C*Sampling_D	4	34	1.70	0.1723
Year	0	.	.	.
Average_Coverag*Year	0	.	.	.
Year*Sampling_Day	0	.	.	.
Average*Year*Samplin	0	.	.	.

Conditional Studentized Residuals for log_Total_Bees



Residual Statistics	
Observations	50
Minimum	-2.567
Mean	-0.033
Maximum	2.9549
Std Dev	1.0375
Fit Statistics	
Objective	149.49
AIC	153.49
AICC	153.82
BIC	154.1