Response percentsurvival

Whole Model

Effect Summary

Source	Logworth		PValue
vpos	5.337		0.00000
vpos*hpos	1.603		0.02497
hpos	0.408		0.39087 ^

Actual by Predicted Plot

percentsurvival Predicted RMSE=32.76 RSq=0.19
PValue=<.0001
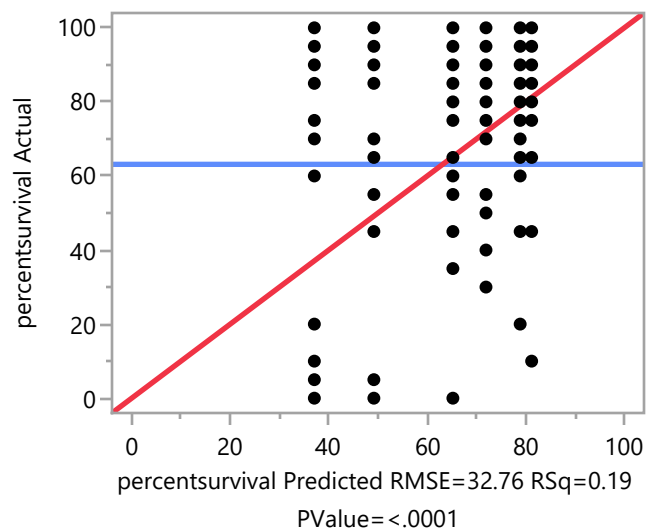
Summary of Fit

RSquare	0.193477
RSquare Adj	0.162693
Root Mean Square Error	32.76
Mean of Response	63.13869
Observations (or Sum Wgts)	137

Parameter Estimates

Term	Estimate	Std Error	DFDen	t Ratio	Prob>|t|
Intercept	63.903365	2.803922	129	22.79	<.0001*
vpos[buried]	13.422141	2.805189	129.1	4.78	<.0001*
hpos[down]	-4.767943	3.98465	129.1	-1.20	0.2337
hpos[mid]	0.1083227	3.990191	129.3	0.03	0.9784
vpos[buried]*hpos[down]	8.6348344	3.98465	129.1	2.17	0.0321*
vpos[buried]*hpos[mid]	1.4277671	3.990191	129.3	0.36	0.7211

Response percentsurvival

Whole Model

REML Variance Component Estimates

| Random Effect	Var Ratio	Var Component	Std Error	95% Lower	95% Upper	Wald p-Value	Pct of Total
subsample	-0.019621	-21.05735	15.091231	-50.63562	8.5209234	0.1629	0.000
nest	0.0008776	0.9418138	2.2582749	-3.484324	5.3679513	0.6766	0.088
Residual		1073.2174	133.61673	852.87548	1392.0206		99.912
Total		1074.1592	133.55716	853.86825	1392.7316		100.000

 -2 Residual Log Likelihood = 1313.0258813

Note: Total is the sum of the positive variance components.

Total including negative estimates = 1053.1018

Fixed Effect Tests

Source	Nparm	DF	DFDen	F Ratio	Prob > F
vpos	1	1	129.1	22.8939	<.0001*
hpos	2	2	129.3	0.9462	0.3909
vpos*hpos	2	2	129.3	3.7973	0.0250*

Residual by Predicted Plot
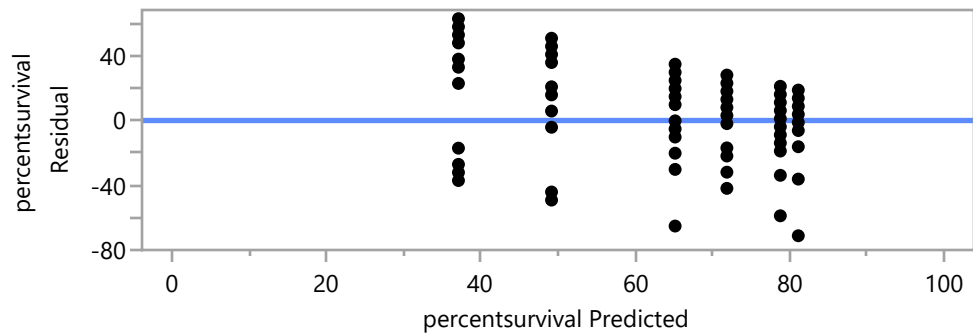
vpos

Leverage Plot
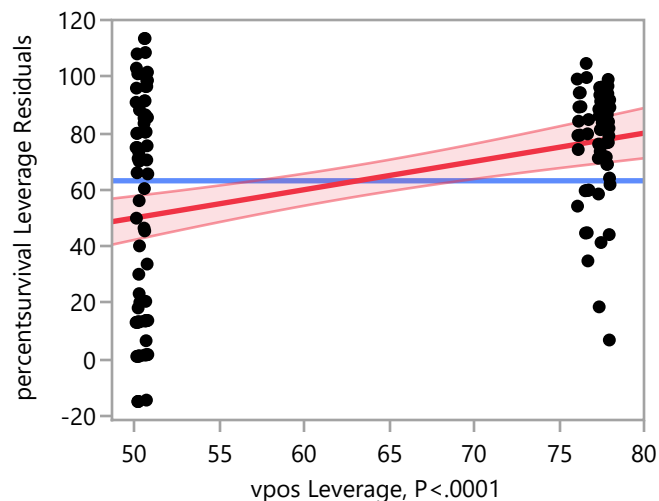
Response percentsurvival

vpos

Least Squares Means Table
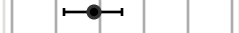
Level	Least Sq Mean	Std Error	0 20 40 60 80 100
buried	77.3255	4.067	
unburied	50.4812	3.861	

hpos

Leverage Plot

hpos Leverage, P=0.3909
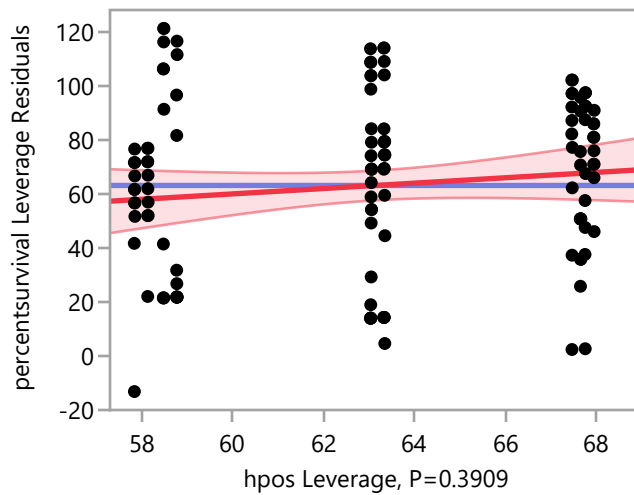
Least Squares Means Table

Level	Least Sq Mean	Std Error	0 20 40 60 80 100
down	59.1354	4.894	
mid	64.0117	4.896	
up	68.5630	4.779	

vpos*hpos   subsample   nest

Leverage Plot

vpos*hpos Leverage, P=0.0250
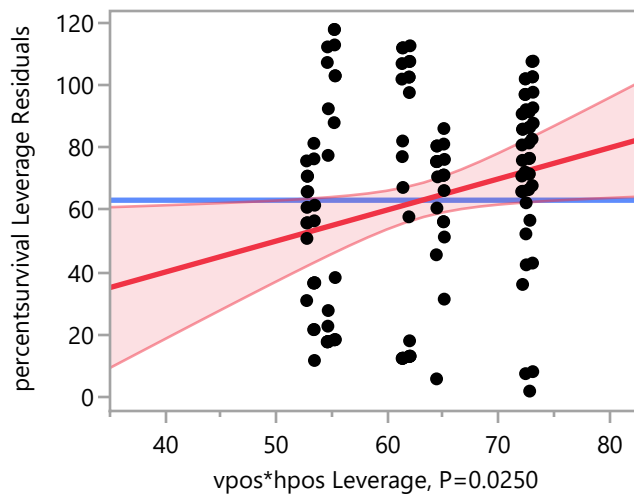
Response percentsurvival

vpos*hpos

Least Squares Means Table

Level	Least Sq Mean	Std Error	
buried,down	81.1924	7.148	
buried,mid	78.8616	7.152	
buried,up	71.9225	6.829	
unburied,down	37.0784	6.687	
unburied,mid	49.1618	6.687	
unburied,up	65.2034	6.687	