

Random Forest Field validation: model results¹

Linear model effects of Eimeria infection variables on predicted weight loss

Model/Effect	Comparison	n	Effect Size ²	SE	p-value	Model R ²	F-test p
Species-Specific Effects							
Species Model: <i>E. ferrisi</i>	vs Uninfected	169	+1.25%	0.428	0.004	0.082	<0.001
Species Model: <i>E. falciformis</i>	vs Uninfected	169	+2.06%	0.686	0.003	0.082	<0.001
Infection Detection							
Infection Status Effect	Infected vs Uninfected	305	+1.15%	0.279	<0.001	0.053	<0.001

¹ All models: predicted_weight_loss ~ infection_variable. Positive values indicate infected mice have higher predicted weight loss

² Effect size represents increase in predicted weight loss for infected mice compared to uninfected controls