

		Model estimates								
Welfare indicator		Intercept	Tail lesion score 1	Tail lesion score 2	Tail lesion score ≥3	Skin lesion score 1	Skin lesion score 2	Skin lesion score 3	Model P	R ²
Absence of prolonged hunger	<i>Poor body condition</i>									
	Stage 1	15.8962	-0.1768	NI	NI	NI	NI	0.666	0.007	0.2973
	Total ^T	1.7806	-0.0079	NI	NI	NI	NI	NI	0.083	0.1002
Comfort around resting	<i>Bursitis</i>									
	Stage 1 ^T	1.6894	NI	-0.0149	NI	-0.0126	NI	NI	0.093	0.1561
	Stage 2 ^T	1.3864	NI	NI	NI	NI	0.0359	-0.217	0.010	0.2825
	<i>Manure on body</i>									
	Stage 3	1.0583	NI	NI	-0.0522	NI	NI	NI	0.055	0.1211
Total	0.4742	NI	NI	NI	0.0037	NI	NI	0.098	0.0915	

Thermal comfort	<i>Huddling</i>									
	Stage 1 ^T	-1.6891	0.0509	NI	NI	-0.0164	NI	0.2011	0.0175	0.3020
	Total ^T	-0.7669	0.0341	NI	NI	-0.0111	NI	NI	0.0344	0.2132
	<i>Lameness</i>									
	Stage 1 ^T	0.4790	NI	0.0166	-0.0424	NI	-0.02039	NI	0.0245	0.2047
	<i>Skin lesions</i>									
	Stage 1	2.7442	NI	0.1844	NI	NI	NI	0.69299	0.0809	0.1644
	Stage 3	9.4083	NI	NI	NI	-0.0808	NI	NI	0.0896	0.0961
	<i>Tail lesions</i>									
	Stage 1 ^T	3.5773	-0.0326	0.0238	NI	NI	NI	NI	0.06710	0.17536
	Total ^T	1.5048	NI	NI	NI	NI	0.0078	NI	0.04890	0.12717

Absence of injuries	<i>Tail lesions - severe</i>									
	Stage 2 ^T	1.1905	NI	NI	NI	-0.0114	-0.0138	NI	0.0861	0.1607
	Stage 3	7.7203	-0.1000	NI	0.4762	NI	NI	NI	0.0059	0.3061
	Total	0.7121	NI	NI	0.3006	NI	NI	NI	0.0068	0.2268
	<i>Ear lesions</i>									
	Stage 3 ^T	0.0986	NI	NI	0.0710	0.0228	NI	NI	0.0581	0.1839
	Total ^{NS}	-	-	-	-	-	-	-	-	-
	<i>Ear lesions - severe</i>									
	Stage 3 ^T	-0.1755	NI	NI	0.1037	0.0250	NI	NI	0.0355	0.2122

*Flank lesions*Stage 3^T

0.8703 NI -0.0253 NI NI NI 0.1702 0.0561 0.1859

*Flank lesions - severe*Stage 3^T

0.783 NI -0.020 NI NI NI 0.169 0.089 0.159

Mortality

Sow mortality

9.478 NI NI -0.315 -0.100 0.129 -0.804 0.049 0.318

Piglet mortality

16.034 NI -0.230 NI -0.125 0.297 -2.011 0.016 0.386

Coughing

Stage 1

-0.0029 NI 0.0015 NI NI 0.0010 NI 0.0007 0.4039

Stage 2

0.0654 NI NI NI -0.0012 0.0022 -0.0104 0.0009 0.4507

Total^T

0.0390 NI 0.0013 NI -0.0005 NI NI 0.0073 0.2961

Absence of diseases	<i>Sneezing</i>									
	Stage 1 ^T	0.4848	NI	0.0109	NI	NI	NI	NI	0.0599	0.1168
	Stage 3 ^T	0.2667	NI	-0.0069	NI	NI	NI	NI	0.0062	0.2313
	<i>Scouring</i>									
	Stage 1 ^T	-1.1229	0.0203	NI	0.0653	NI	0.0166	NI	0.0339	0.2708
	Stage 3	0.1376	NI	0.0112	-0.0189	NI	-0.0125	0.0622	0.0045	0.4289
	<i>Ruptures and hernia</i>									
	Stage 2	2.0313	NI	NI	-0.2481	NI	NI	NI	0.0648	0.1127
	Stage 3	11.1205	-0.0789	NI	-0.2524	-0.0666	NI	NI	0.0349	0.2690
	Total	3.4278	NI	NI	-0.1963	-0.0296	NI	NI	0.0248	0.2321
	<i>Sickness</i>									
	Stage 1	6.5713	-0.0534	-0.0735	NI	-0.0257	NI	0.3635	0.0469	0.3008
	Stage 2 ^T	1.0258	NI	-0.0236	NI	-0.0109	NI	NI	0.0267	0.2280
	Stage 3 ^T	-6.9498	NI	NI	NI	0.2386	0.3693	NI	0.0055	0.3103
	Total	1.8493	NI	-0.0358	NI	-0.0179	NI	0.1520	0.0307	0.2761

Item	Explanation
Bold text	Significant correlation
Stage 1	First weaner stage
Stage 2	Second weaner stage
Stage 3	Finisher stage
Total	Across all production stages (total farm)