

Welfare indicators associated with feed conversion ratio and daily feed intake of growing-finishing pigs*C. R. Pierozan^{A,D}, C. P. Dias^B, D. Temple^C, X. Manteca^C and C. A. da Silva^A*^ADepartment of Zootechnology, State University of Londrina, 86057-970, Londrina, Paraná, Brazil.^BAkei Animal Research, 18870-000, Fartura, São Paulo, Brazil.^CSchool of Veterinary Medicine, Universitat Autònoma de Barcelona, 08193, Bellaterra, Catalunya, Spain.^DCorresponding author. Email: carlospierozan@hotmail.com**Supplementary Material****Table S1. Spearman's rank correlation coefficients between possible confounding variables and animal welfare outcomes used to identify indicators associated with feed conversion ratio and daily feed intake in 46 growing-finishing pig farms**

Correlations that were greater than 0.5 or smaller than -0.5 are presented in parentheses.

All values in bold print are significant ($P < 0.05$). TSA, total space allowance; USA, useful space allowance; NSB, negative social behaviour; TSB, total social behaviour

Variables	Days housed	Temperature/pen	Humidity/farm	TSA	USA	Sex	Type of floor
Water supply	-0.16	-0.12	0.11	-0.25	-0.19	-0.15	0.45
Positive social behaviour	-0.29	-0.13	0.11	0.02	0.05	0.14	0.12
NSB	(-0.65)	0.09	-0.20	-0.34	-0.31	0.16	-0.30
NSB/TSB	-0.40	0.19	-0.28	-0.36	-0.33	0.08	-0.40
Pen investigation	(-0.58)	-0.08	0.08	0.02	-0.04	-0.14	-0.01
Exploration of enrichment	-0.13	0.05	-0.10	-0.19	-0.11	0.23	-0.13
Other active behaviours	(0.71)	0.15	-0.05	0.14	0.16	-0.01	0.00
Fear of humans	0.41	-0.01	0.10	0.39	0.38	0.02	0.44
Poor body condition	-0.24	0.02	-0.23	-0.24	-0.21	-0.25	-0.06
Normal bursitis	(-0.75)	-0.05	-0.10	-0.28	-0.23	-0.04	-0.19
Moderate bursitis	(0.71)	0.03	0.14	0.32	0.24	0.07	0.18
Severe bursitis	0.42	0.01	-0.02	0.07	0.28	-0.20	0.12
Normal manure	-0.34	-0.26	-0.02	-0.16	-0.28	0.01	-0.47

Moderate manure	0.18	0.10	0.16	0.22	0.33	-0.22	0.37
Severe manure	0.41	0.29	-0.00	0.14	0.27	0.11	0.38
Panting	0.15	0.26	-0.30	0.00	-0.04	-0.06	-0.15
Huddling	-0.08	-0.12	0.06	0.28	0.23	0.17	-0.08
Walking normally	-0.13	0.18	-0.06	-0.08	-0.16	0.11	-0.13
Moderate lameness	0.08	-0.11	-0.01	0.09	0.17	-0.13	0.06
Severe lameness	-0.01	-0.14	0.01	-0.16	-0.13	-0.09	0.10
Normal wounds	0.18	0.27	0.03	0.22	0.15	0.05	0.25
Moderate wounds	-0.21	-0.32	0.01	-0.26	-0.18	-0.07	-0.24
Severe wounds	0.07	0.06	-0.19	0.18	0.10	0.17	-0.13
Tail biting	-0.24	-0.11	0.00	-0.06	-0.09	-0.22	0.34
Animals coughing	0.42	0.20	-0.16	0.17	0.09	0.17	0.19
Frequency of coughs	(0.56)	0.19	-0.19	0.19	0.22	0.11	0.27
Animals sneezing	(-0.60)	0.04	-0.14	-0.17	-0.21	0.20	-0.20
Frequency of sneezing	(-0.57)	0.05	-0.16	-0.16	-0.21	0.20	-0.21
Pumping	0.11	0.15	-0.20	0.17	0.17	-0.09	-0.09
Rectal prolapse	-0.03	0.10	-0.09	0.16	0.15	-0.02	-0.12
Moderate scouring	-0.32	-0.05	0.06	-0.25	-0.22	-0.02	0.23
Normal skin condition	-0.30	-0.17	0.11	-0.05	-0.11	-0.06	-0.20
Moderate skin condition	0.31	0.16	-0.10	0.05	0.11	0.06	0.20
Severe skin condition	0.26	0.31	-0.19	0.18	0.25	0.05	0.36
Normal hernia	0.05	0.01	-0.03	0.08	0.11	0.14	-0.23
Moderate hernia	-0.06	-0.01	0.04	-0.07	-0.11	-0.15	0.24
Severe hernia	0.22	-0.09	0.12	-0.08	-0.01	0.12	-0.06
