

Table 8. Regression coefficients, P values from the regression models with animal-based measures set as dichotomous dependent variables (animal welfare outcomes) and resource-based and management-based measures set as independent variable (animal welfare incomes).

Dependent variable	Independent variable		Regression coefficient	P value	
Polypnea (0=absence; 1=presence)	Bedding	Adequate Inadequate	Baseline 1.5298	< 0.0001	
	Shelter from adverse weather conditions	Adequate Inadequate	Baseline 1.1677	< 0.0001	
Diarrhoea (0=absence; 1=presence)	Drinkers	Adequate Inadequate	Baseline 0.31076	ns	
	Water cleanliness	Clean Dirty	Baseline 0.56877	ns	
	Outdoor fenced areas	Daily Weekly No/not regular	Baseline 0.50468 0.72337	ns 0.01260	
		Feeding regimen	Twice/day Once/day Ad libitum	Baseline 1.56633 1.31175	0.00127 0.01589
BCS - too thin (0=absence; 1=presence)	Type of diet	Pellet Mixed Canned Cooked	Baseline 0.4957 2.8946 -12.8181	0.034015 0.000784 ns	
		Lameness	Absence Presence	Baseline 1.5983	< 0.0001
		Outdoor fenced areas	Daily Weekly No/not regular	Baseline 0.9483 0.2984	0.000334 ns
			Walking at leash	Daily Weekly No/not regular	Baseline 0.3210 0.6616
	Space allowance	Adequate Inadequate	Baseline 0.6047	0.055432 (tendency)	
BCS - too heavy (0=absence; 1=presence)	Feeding regimen	Twice/day Once/day Ad libitum	Baseline 0.71789 0.59284	0.0091 0.0211	
		Type of diet	Pellet Mixed Canned Cooked	Baseline 0.02545 -11.90708 2.27575	ns ns < 0.0001
	Lameness		Absence Presence	Baseline 0.71119	0.0565 (tendency)
Lameness (0=absence; 1=presence)	Age	Adult Young Geriatric	Baseline 0.2233 2.1906	ns < 0.0001	
Skin lesions (0=absence; 1=presence)		Bedding	Adequate Inadequate	Baseline 0.5469	0.00198
		Type of bedding	Kennel Basket Mix Other	Baseline -1.0501 0.1746 -0.1601	0.01112 ns ns

		Absent	0.1343	ns
Cleanliness (0=clean; 1=dirty/wet)	One bedding/dog	Adequate Inadequate	Baseline -0.4970	0.01214
	Bedding cleanliness	Adequate Inadequate	Baseline -0.8608	< 0.0001
Reaction toward humans - fearful (0=absence; 1=presence)	Personnel for dogs' training	Presence Absence	Baseline 0.35012	0.00533
	Walking at leash	Daily Weekly No/not regular	Baseline 0.26807 0.22695	0.0511 (tendency) 0.0511 (tendency)
Reaction toward humans - aggressive (0=absence; 1=presence)	Age	Adult Young Geriatric	Baseline -0.95095 0.20567	0.00137 ns
	Outdoor fenced areas	Daily Weekly No/not regular	Baseline -0.20151 0.50801	ns 0.00137