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Wildlife Research

Supplementary Material

Factors affecting wild boar (*Sus scrofa*) distribution in Uruguay

N. Zambra^{A,B}, and *R. Ungerfeld*^{B,*}

^ACentro Universitario Regional Noreste, Universidad de la República, Tacuarembó, Uruguay.

^BFacultad de Veterinaria, Universidad de la República, Montevideo, Uruguay.

*Correspondence to: R. Ungerfeld Facultad de Veterinaria, Universidad de la República, Montevideo, Uruguay Email: rungerfeld@gmail.com

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Zambra N ^{a,b} and Ungerfeld R ^{b,*}

^a Centro Universitario Regional Noreste, Universidad de la República, Tacuarembó, Uruguay

^b Facultad de Veterinaria, Universidad de la República, Montevideo, Uruguay

*Corresponding author: rungerfeld@gmail.com

Online Resource 1. Factors that affect the presence of wild boars in livestock farms, considering only the Northern and Northeastern as regions in the logistic regressions model. OR: odds ratios, SE: standard error, and CI: 95 % confidence intervals. WBNF: wild boars on neighboring farms; *P*-value sig * ≤ 0.05 ** ≤ 0.01 *** ≤ 0.001 .

	Wild boar reports		
	OR	SE	95 % CI
Region (ref: North)			
Northeast	9.79***	2.18	6.32 - 15.15
Land-cover type			
Shelter forest	0.41***	0.11	0.24 - 0.70
Native woodlands	4.60***	0.67	3.46 - 6.12
Pine plantation	2.69*	1.33	1.02 - 7.13
Eucalyptus plantation	0.76	0.28	0.37 - 1.56
Farm' size (ref: ≤ 50 ha)			
>50 to ≤ 100	1.15	0.41	0.57 - 2.33
>100 to ≤ 200	1.08	0.35	0.57 - 2.02
>200 to ≤ 500	1.43	0.39	0.83 - 2.45
>500 to $\leq 1,000$	2.34**	0.65	1.35 - 4.04
>1,000 to $\leq 3,000$	3.09***	0.92	1.72 - 5.55

>3,000 to ≤5,000	2.62	1.35	0.95 - 7.20
>5,000	16.77***	12.28	3.99 - 70.47
Other animals			
Sheep	0.98	0.15	0.73 - 1.31
Pampas fox	11.69***	3.46	6.54 – 20.89
Free-ranging dog	0.99	0.15	0.74 - 1.34
WBNF	0.77	0.14	0.53 – 1.12

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*Corresponding author: rungerfeld@gmail.com

Online Resource 2. Probabilities of reporting the presence of wild boars according to farms' regions, for each land-cover type, according to the farm' size category. Regions: (N) North; (NE) Northeast; (SC) South-Central. Size category (ha): 1: ≤ 50 ; 2: >50 to ≤ 100 ; 3: >100 to ≤ 200 ; 4: >200 to ≤ 500 ; 5: >500 to $\leq 1,000$; 6: $>1,000$ to $\leq 3,000$; 7: $>3,000$ to $\leq 5,000$ and 8: $>5,000$. P: probability and SEM: standard error of the mean.

Land-cover	Region	Size	P	SEM	P-value
Shelter forest	NE vs N	1	0.040	0.017	**
		2	0.056	0.024	*
		3	0.047	0.020	*
		4	0.064	0.024	**
		5	0.099	0.037	**
		6	0.130	0.045	**
		7	0.107	0.054	*
		8	0.380	0.127	**
	N vs SC	1	0.004	0.002	ns
		2	0.005	0.003	ns
		3	0.004	0.002	*
		4	0.006	0.003	*
		5	0.010	0.004	*
		6	0.013	0.006	*
		7	0.010	0.006	ns
		8	0.061	0.042	ns
	NE vs SC	1	0.044	0.018	**
		2	0.062	0.026	*
		3	0.052	0.021	*
		4	0.070	0.026	**
		5	0.109	0.040	**
		6	0.143	0.049	**
		7	0.118	0.060	*
		8	0.441	0.164	**

Native woodland	NE vs N	1	0.272	0.066	***
		2	0.334	0.073	***
		3	0.302	0.070	***
		4	0.358	0.065	***
		5	0.432	0.060	***
		6	0.467	0.052	***
		7	0.443	0.078	***
		8	0.381	0.123	**
	N vs SC	1	0.034	0.0145	**
		2	0.045	0.0208	*
		3	0.040	0.0162	**
		4	0.054	0.0191	**
		5	0.082	0.0275	**
		6	0.105	0.0345	**
		7	0.088	0.0413	*
		8	0.245	0.080	**
NE vs SC	1	0.306	0.075	***	
	2	0.382	0.087	***	
	3	0.343	0.080	***	
	4	0.412	0.075	***	
	5	0.514	0.073	***	
	6	0.572	0.067	***	
	7	0.531	0.108	***	
	8	0.623	0.111	***	
Pine plantation	NE vs N	1	0.196	0.080	**
		2	0.252	0.099	**
		3	0.223	0.091	**
		4	0.275	0.096	**
		5	0.359	0.098	***
		6	0.409	0.091	***
		7	0.373	0.123	**
		8	0.449	0.107	***
	N vs SC	1	0.022	0.013	ns
		2	0.031	0.019	ns
		3	0.026	0.016	ns
		4	0.035	0.020	ns
		5	0.054	0.030	ns
		6	0.071	0.038	ns
7		0.059	0.039	ns	

		8	0.211	0.092	*	
		1	0.218	0.090	**	
		2	0.283	0.115	**	
		3	0.249	0.104	*	
	NE vs SC	4	0.310	0.112	**	
		5	0.413	0.121	***	
		6	0.481	0.120	***	
		7	0.432	0.156	**	
		8	0.660	0.065	***	
		1	0.438	0.075	***	
		2	0.474	0.056	***	
		3	0.458	0.067	***	
	NE vs N	4	0.482	0.047	***	
		5	0.484	0.048	***	
		6	0.462	0.068	***	
		7	0.480	0.058	***	
		8	0.208	0.133	ns	
Native woodland and pine plantation		1	0.085	0.045	ns	
		2	0.112	0.060	ns	
		3	0.098	0.050	*	
		4	0.124	0.057	*	
		N vs SC	5	0.170	0.068	**
			6	0.200	0.072	**
			7	0.178	0.080	*
			8	0.237	0.107	*
			1	0.523	0.110	***
			2	0.587	0.097	***
			3	0.556	0.104	***
		NE vs SC	4	0.607	0.080	***
			5	0.654	0.054	***
			6	0.662	0.055	***
			7	0.658	0.055	***
			8	0.446	0.210	*

*: $p \leq 0.05$; **: $p \leq 0.01$; ***: $p \leq 0.001$; ns: not significant

	0.432	0.413	0.423	0.404	0.363	0.337	0.354	
8	0.183	0.181	0.182	0.179	0.176	0.173	0.179	
	*	*	*	*	*	ns	*	

SC	1	2	3	4	5	6	7	8
1								
	0.001							
2	0.001							
	ns							
	0.0004	-0.0005						
3	0.001	0.001						
	ns	ns						
	0.001	0.000	0.001					
4	0.001	0.001	0.001					
	ns	ns	ns					
	0.003	0.002	0.003	0.002				
5	0.002	0.002	0.002	0.001				
	ns	ns	ns	ns				
	0.005	0.004	0.005	0.004	0.002			
6	0.003	0.003	0.003	0.002	0.002			
	ns	ns	ns	ns	ns			
	0.004	0.003	0.003	0.002	0.000	-0.001		
7	0.003	0.003	0.003	0.003	0.003	0.003		
	ns	ns	ns	ns	ns	ns		
	0.034	0.033	0.034	0.033	0.031	0.029	0.031	
8	0.029	0.028	0.028	0.028	0.028	0.27	0.028	
	ns	ns	ns	ns	ns	ns	ns	

*: $p \leq 0.05$; **: $p \leq 0.01$; ***: $p \leq 0.001$; ns: not significant.

	ns						
	0.004	-0.005					
3	0.007	0.008					
	ns	ns					
	0.012	0.004	0.009				
4	0.009	0.009	0.007				
	ns	ns	ns				
	0.031	0.023	0.028	0.019			
5	0.016	0.014	0.014	0.011			
	*	ns	*	ns			
	0.049	0.041	0.045	0.037	0.018		
6	0.024	0.022	0.022	0.019	0.014		
	*	ns	*	*	ns		
	0.036	0.027	0.032	0.023	0.004	-0.013	
7	0.029	0.028	0.027	0.026	0.024	0.025	
	ns	ns	ns	ns	ns	ns	
	0.256	0.247	0.252	0.243	0.224	0.207	0.220
8	0.162	0.160	0.160	0.159	0.155	0.151	0.154
	ns	ns	ns	ns	ns	ns	ns

*: $p \leq 0.05$; **: $p \leq 0.01$; ***: $p \leq 0.001$; ns: not significant.

Online Resource 3c. Comparison of the probabilities of reporting the presence of wild boars in farms with pine plantations according to the farm size category into each region. Into the cells are presented the probability, the standard error of the man, and the p-value for each comparison, respectively. Regions: (N) North; (NE) Northeast; (SC) South-Central. Size category (ha): 1: ≤ 50 ; 2: >50 to ≤ 100 ; 3: >100 to ≤ 200 ; 4: >200 to ≤ 500 ; 5: >500 to $\leq 1,000$; 6: $>1,000$ to $\leq 3,000$; 7: $>3,000$ to $\leq 5,000$ and 8: $>5,000$.

		N							
		1	2	3	4	5	6	7	8
NE	1		-0.014	-0.006	-0.021	-0.052	-0.081	-0.060	-0.368
			0.016	0.012	0.015	0.030	0.044	0.050	0.202
			ns	ns	ns	ns	ns	ns	ns
		0.070		0.008	-0.007	-0.038	-0.067	-0.045	-0.353
	2	0.069		0.015	0.014	0.024	0.038	0.046	0.197
		ns		ns	ns	ns	ns	ns	ns
		0.033	-0.037		-0.014	-0.046	-0.074	-0.053	-0.361
	3	0.060	0.069		0.013	0.026	0.040	0.047	0.199
	ns	ns		ns	ns	ns	ns	ns	
	0.100	0.030	0.067		-0.031	-0.060	-0.039	-0.347	
4	0.059	0.063	0.055		0.020	0.033	0.043	0.195	
	ns	ns	ns		ns	ns	ns	ns	
	0.215	0.145	0.182	0.115		-0.028	-0.007	-0.315	
5	0.071	0.069	0.063	0.049		0.024	0.039	0.187	
	**	*	**	*		ns	ns	ns	
	0.294	0.224	0.261	0.194	0.079		0.021	-0.287	
6	0.077	0.074	0.068	0.053	0.052		0.041	0.180	
	***	**	***	***	ns		ns	ns	
	0.237	0.166	0.204	0.137	0.022	-0.057		-0.308	
7	0.131	0.128	0.127	0.117	0.115	0.114		0.187	
	ns	ns	ns	ns	ns	ns		ns	
	0.621	0.550	0.587	0.520	0.405	0.326	0.383		
8	0.098	0.112	0.103	0.104	0.112	0.114	0.155		
	***	***	***	***	***	**	**		
		SC							
		1	2	3	4	5	6	7	8
1									
		0.005							
2		0.006							
		ns							

	0.002	-0.003					
3	0.005	0.006					
	ns	ns					
	0.008	0.002	0.005				
4	0.007	0.005	0.005				
	ns	ns	ns				
	0.020	0.015	0.017	0.012			
5	0.014	0.011	0.012	0.010			
	ns	ns	ns	ns			
	0.031	0.026	0.029	0.023	0.011		
6	0.022	0.019	0.020	0.017	0.011		
	ns	ns	ns	ns	ns		
	0.023	0.017	0.020	0.015	0.003	-0.008	
7	0.022	0.020	0.021	0.018	0.016	0.016	
	ns	ns	ns	ns	ns	ns	
	0.178	0.173	0.176	0.170	0.158	0.147	0.155
8	0.143	0.141	0.142	0.139	0.134	0.130	0.133
	ns	ns	ns	ns	ns	ns	ns

*: $p \leq 0.05$; **: $p \leq 0.01$; ***: $p \leq 0.001$; ns: not significant

Online Resource 3d. Comparison of the probabilities of reporting the presence of wild boars in farms with native woodlands plus pine plantations according to the farm size category into each region. Into the cells are presented the probability, the standard error of the mean, and the p-value for each comparison, respectively. Regions: (N) North; (NE) Northeast; (SC) South-Central. Size category (ha): 1: ≤ 50 ; 2: >50 to ≤ 100 ; 3: >100 to ≤ 200 ; 4: >200 to ≤ 500 ; 5: >500 to $\leq 1,000$; 6: $>1,000$ to $\leq 3,000$; 7: $>3,000$ to $\leq 5,000$ and 8: $>5,000$.

N		1	2	3	4	5	6	7	8	
		NE								
1			-0.049	-0.023	-0.071	-0.163	-0.233	-0.182	-0.615	
			0.051	0.041	0.045	0.066	0.081	0.118	0.137	
2			ns	ns	ns	**	**	ns	***	
			0.086		0.026	-0.022	-0.114	-0.184	-0.132	-0.566
3			0.077		0.050	0.046	0.058	0.070	0.111	0.135
			ns		ns	ns	*	**	ns	***
4			0.043		-0.043	-0.048	-0.140	-0.211	-0.159	-0.592
			0.075		0.078	0.041	0.058	0.072	0.112	0.133
5			ns		ns	ns	*	**	ns	***
			0.116		0.030	0.073	-0.092	-0.162	-0.110	-0.544
6			0.063		0.065	0.061	0.045	0.057	0.104	0.129
			ns		ns	ns	*	**	ns	***
7			0.209		0.124	0.166	0.093	-0.070	-0.019	-0.452
			0.069		0.070	0.068	0.045	0.049	0.100	0.130
8			**		ns	**	*	ns	ns	***
			0.258		0.172	0.215	0.142	0.049	0.052	-0.382
1			0.078		0.078	0.076	0.053	0.035	0.101	0.132
			***		*	**	**	ns	ns	**
2			0.224		0.138	0.181	0.108	0.014	-0.034	-0.434
			0.098		0.098	0.096	0.081	0.074	0.074	0.157
3			*		ns	ns	ns	ns	ns	**
			0.387		0.301	0.344	0.271	0.178	0.129	0.163
4			0.120		0.119	0.121	0.101	0.078	0.064	0.102
			***		**	**	**	*	*	ns
SC		1	2	3	4	5	6	7	8	
1										
			0.021							
2			0.024							
			ns							

	0.010	-0.012					
3	0.019	0.023					
	ns	ns					
	0.032	0.010	0.022				
4	0.025	0.022	0.021				
	ns	ns	ns				
	0.078	0.056	0.068	0.046			
5	0.048	0.039	0.041	0.031			
	ns	ns	ns	ns			
	0.118	0.097	0.108	0.086	0.040		
6	0.068	0.058	0.061	0.050	0.033		
	ns	ns	ns	ns	ns		
	0.088	0.066	0.078	0.056	0.010	-0.030	
7	0.076	0.068	0.070	0.063	0.056	0.058	
	ns	ns	ns	ns	ns	ns	
	0.463	0.442	0.454	0.432	0.384	0.345	0.375
8	0.219	0.211	0.213	0.206	0.194	0.185	0.195
	*	*	*	*	*	ns	*

*: $p \leq 0.05$; **: $p \leq 0.01$; ***: $p \leq 0.001$; ns: not significant