Article Title

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Abstract

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Keywords: A, B, C, D, E

JEL Classification Codes: A00, B11, C22

1 Introduction

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Figure 1: Left: cartoon of the Baron of Drummond and the animals of the *jogo do bicho* (1896). Right: entry ticket to Rio's Zoological Garden that allowed the bearer to join the raffle. Sources: Instituto Histórico e Geográfico Brasileiro, Rio de Janeiro, Revista Illustrada, ano 21, no. 718 (1896) and Museu da Imagem e do Som, Rio de Janeiro. Reproduced in Chazkel (2011, 35–36).

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Figure 2: *Jogo do bicho* results are fixed on light poles in Rio de Janeiro. Source: Gomes (1998).

$$f(x) = ax^2 + bx + c \qquad\qquad g(x) = dx^3 \tag{1}$$

$$f'(x) = 2ax + b \qquad\qquad g'(x) = 3dx^2 \tag{2}$$

$$u(x) = \begin{cases} \exp x & \text{if } x \geq 0 \\ 1 & \text{if } x < 0 \end{cases} \tag{3}$$

Table 1: Logistic Regressions for Civil War Incidence

Variable	Model I	Model II	Model III
p_xrcomp1$_{t-1}$	-0.914^{**}		
(selection)	(0.184)		
p_xrcomp2$_{t-1}$	-2.218^{**}		
(dual / transition)	(0.391)		
p_xrcomp3$_{t-1}$	-0.783^{**}		
(election)	(0.236)		
p_xrcomp_n$_{t-1}$	0.457		
(autocratisation)	(0.440)		
p_xrcomp_p$_{t-1}$	0.150		
(democratisation)	(0.430)		
dpi_eipc3$_{t-1}$		-0.091^{*}	
(election, 1 candidate)		(0.178)	
dpi_eipc4$_{t-1}$		-2.203^{*}	
(1 party elec., many candidates)		(1.065)	
dpi_eipc6$_{t-1}$		-0.549†	
(multiparty elec., winner ¿ 75%)		(0.304)	
dpi_eipc7$_{t-1}$		-0.202	
(multiparty elec., winner ¡ 75%)		(0.183)	
dpi_eipc_n$_{t-1}$		0.710†	
(autocratisation)		(0.387)	
dpi_eipc_p$_{t-1}$		0.431	
(democratisation)		(0.297)	
van_comp$_{t-1}$			$-.008^{**}$
(% winning party)			(0.003)
no_ufs$_{t-1}$	0.780^{**}	0.784^{**}	0.747^{**}
(unitarian)	(0.194)	(0.187)	(0.175)
r_atlas	1.141^{**}	1.157^{**}	1.308^{**}
(eth. frac.)	(0.256)	(0.255)	(0.241)
oil$_{t-1}$	0.249	0.248	0.234
(¿ 1/3 oil exp.)	(0.176)	(0.175)	(0.160)
lmtnest	0.331^{**}	0.324^{**}	0.333^{**}
(ln mount. terrain)	(0.050)	(0.045)	(0.043)
ln_unna_pop$_{t-1}$	0.331^{**}	0.240^{**}	0.265^{**}
(ln population)	(0.048)	(0.046)	(0.043)
unna_grgdp$_{t-1}$	-0.028^{*}	-0.029^{**}	-0.025^{**}
(gdp growth)	(0.011)	(0.009)	(0.009)
ln_gdpc$_{t-1}$	-0.144^{*}	-0.186^{**}	-0.131^{**}
(ln gdp per cap.)	(0.064)	(0.062)	(0.446)
constant	-7.599^{**}	-6.357^{**}	-7.136^{**}
N	2579	2600	2819
Wald χ^2	(8) 174.63	(13) 154.40	(8) 174.63
Log Pseudolikelihood	-779.945	-844.045	-916.790
Pseudo R^2	0.115	0.100	0.102

Significance levels : † : .1   ∗ : .05   ∗∗ : .01
Standard errors in parentheses

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