

# Article Title

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## Abstract

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**JEL Classification Codes:** A00, B11, C22

**Keywords:** A, B, C, D, E

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# 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 Ilustrada, 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 \(1998\)](#).

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

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

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

Table 1: Logistic Regressions for Civil War Incidence

Variable	Model I	Model II	Model III
p_xrcomp1 <sub>t-1</sub> (selection)	-0.914** (0.184)		
p_xrcomp2 <sub>t-1</sub> (dual / transition)	-2.218** (0.391)		
p_xrcomp3 <sub>t-1</sub> (election)	-0.783** (0.236)		
p_xrcomp_n <sub>t-1</sub> (autocratisation)	0.457 (0.440)		
p_xrcomp_p <sub>t-1</sub> (democratisation)	0.150 (0.430)		
dpi_eipc3 <sub>t-1</sub> (election, 1 candidate)		-0.091* (0.178)	
dpi_eipc4 <sub>t-1</sub> (1 party elec., many candidates)		-2.203* (1.065)	
dpi_eipc6 <sub>t-1</sub> (multiparty elec., winner $\leq$ 75%)		-0.549† (0.304)	
dpi_eipc7 <sub>t-1</sub> (multiparty elec., winner $\geq$ 75%)		-0.202 (0.183)	
dpi_eipc_n <sub>t-1</sub> (autocratisation)		0.710† (0.387)	
dpi_eipc_p <sub>t-1</sub> (democratisation)		0.431 (0.297)	
van_comp <sub>t-1</sub> (% winning party)			-.008** (0.003)
no_ufs <sub>t-1</sub> (unitarian)	0.780** (0.194)	0.784** (0.187)	0.747** (0.175)
r_atlas (eth. frac.)	1.141** (0.256)	1.157** (0.255)	1.308** (0.241)
oil <sub>t-1</sub> ( $\leq$ 1/3 oil exp.)	0.249 (0.176)	0.248 (0.175)	0.234 (0.160)
lmtnest (ln mount. terrain)	0.331** (0.050)	0.324** (0.045)	0.333** (0.043)
ln_unna_pop <sub>t-1</sub> (ln population)	0.331** (0.048)	0.240** (0.046)	0.265** (0.043)
unna_grgdp <sub>t-1</sub> (gdp growth)	-0.028* (0.011)	-0.029** (0.009)	-0.025** (0.009)
ln_gdpc <sub>t-1</sub> (ln gdp per cap.)	-0.144* (0.064)	-0.186** (0.062)	-0.131** (0.446)
constant	-7.599**	-6.357**	-7.136**
N	2579	2600	2819
Wald $\chi^2$	(8) 174.63	(13) 154.40	(8) 174.63
Log Pseudolikelihood	-779.945	-844.045	-916.790
Pseudo R <sup>2</sup>	0.115	0.100	0.102
Significance levels : † : .1 * : .05 ** : .01			
Standard errors in parentheses			

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