

“A Global Risk Assessment Model for Civil Wars” – Rost / Schneider / Kleibl

Web Appendix

Descriptive Statistics					
Variable	Observations	Mean	Std. Dev.	Min	Max
Civil war onset	3859	.018	.132	0	1
Personal integrity abuses	3739	1.372	1.004	0	4
(a)					
Regime type (Polity 2)	3827	1.072	7.610	-10	10
(a)					
No anocracy	3827	.811	.391	0	1
(a)					
Political instability	3827	.118	.323	0	1
Military regime	3859	.134	.341	0	1
(a)					
Minor internal conflict	3859	.022	.148	0	1
(a)					
GDP per capita	3705	.102	1.153	-2.719	2.447
(a) (b) (c)					
Population size	3857	-.135	1.439	-3.578	4.907
(a) (b) (c)					
Oil exporting country	3859	.153	.360	0	1
Mountainous terrain	3859	-1.005	20.878	-17.529	76.771
(c)					
Peace years	3859	.317	17.579	-28.032	33.968
(c)					

Note: country-years with ongoing civil wars are excluded from the calculations;
a = lagged by one year; b = natural log taken; c = centered on mean.

Table. Logit regression of the probability of civil war onset with dummies for missing values on the GDP per capita and Polity 2 variables

	Model 1c (1977-2007)	Model 1d (1977-2007)
Personal integrity abuses	0.673	0.707
(a)	(0.147)***	(0.142)***
Regime type (Polity 2)	0.022	
(a)	(0.026)	
No anocracy	-0.953	
(a)	(0.283)***	
Political instability	0.152	
	(0.318)	
Polity 2 missing dummy		0.311
		(0.805)
Military regime	0.799	0.357
(a)	(0.317)**	(0.290)
Minor internal conflict	1.478	1.581
(a)	(0.390)***	(0.379)***
GDP per capita		-0.385
(a) (b) (c)		(0.148)***
GDP per capita missing dummy	-0.853	
	-1.028	
Population size	-0.132	-0.061
(a) (b) (c)	(0.101)	(0.095)
Oil exporting country	0.401	0.427
	(0.332)	(0.335)
Mountainous terrain	0.009	0.007
(c)	(0.005)	(0.005)
Peace years	-0.016	-0.013
(c)	(0.008)**	(0.009)
Constant	-5.063	-5.761
	(0.395)***	(0.333)***
Observations	3702	3590
Likelihood Ratio Chi2 (11)	106.987	101.944
Pseudo R2	0.162	0.153

Standard errors in parentheses; * significant at 10%; ** significant at 5%; *** significant at 1%
a = lagged by one year; b = natural log taken; c = centered on mean

Note: The dummy variables that we created for the missing values take the value of 1 if the information on the GDP or the Polity 2 variable is missing. There is only 1 case (South Yemen in 1986) where the GDP per capita is missing for this very year, and two civil war onsets are not accompanied by Polity values in the year the conflict starts (Afghanistan 2003 and Iraq 2004).

Table. Out-of-sample risk assessments, 2008 – 2012 based on neural network model 1a

Warning level	Number of observations	% of observations	Cumulative percentages
0 (low)	124	94.66%	94.66%
1 (medium)	5	3.82%	98.47%
2 (high)	2	1.53%	100.00%
3 (very high)	0	0%	100.00%
Total	131	100.00%	

Countries in category 1 are: Cambodia, Ivory Coast, Nigeria, Sierra Leone, Yemen

Countries in category 2 are: Eritrea, Haiti