

## Supplementary Material S4

Multivariate tests of significance for the independent variables

Variables	Brazil						Midwest					
	Test	Value	F	Effect df	Error df	p	Test	Value	F	Effect df	Error df	p
Intercept	Wilks	0.034	158907.095	1	5588	< 0.05	Wilks	0.087	4859.036	1	463	< 0.05
MPD	Wilks	1.000		0			Wilks	1.000		0		
GDP	Wilks	1.000		0			Wilks	1.000		0		
MHDI	Wilks	1.000		0			Wilks	1.000		0		
NVC	Wilks	0.982	100.134	1	5588	< 0.05	Wilks	0.923	36.618	1	463	< 0.05
ROA	Wilks	0.997	15.347	1	5588	< 0.05	Wilks	1.000		0		
PA	Wilks	0.994	31.384	1	5588	< 0.05	Wilks	1.000		0		
RIC	Wilks	0.999	6.451	1	5588	< 0.05	Wilks	0.926	37.124	1	463	< 0.05
North						Northeast						
Intercept	Wilks	0.080	5062.229	1	443	< 0.05	Wilks	0.038	44902.525	1	1788	< 0.05
MPD	Wilks	0.990	4.347	1	443	< 0.05	Wilks	1.000		0		
GDP	Wilks	0.982	8.317	1	443	< 0.05	Wilks	1.000		0		
MHDI	Wilks	0.970	13.672	1	443	< 0.05	Wilks	0.977	42.789	1	1788	< 0.05
NVC	Wilks	1.000		0			Wilks	1.000		0		
ROA	Wilks	0.978	10.028	1	443	< 0.05	Wilks	0.992	14.881	1	1788	< 0.05
PA	Wilks	1.000		0			Wilks	0.991	16.441	1	1788	< 0.05
RIC	Wilks	0.943	26.931	1	443	< 0.05	Wilks	1.000		0		
South/Southeast												
Intercept	Wilks	0.012	226721.573	1	2852	< 0.05						
MPD	Wilks	1.000		0								
GDP	Wilks	1.000		0								
MHDI	Wilks	1.000		0								
NVC	Wilks	0.973	78.088	1	2852	< 0.05						
ROA	Wilks	0.998	6.523	1	2852	< 0.05						
PA	Wilks	0.970	87.753	1	2852	< 0.05						
RIC	Wilks	1.000		0								

MPD: Municipal population density; GDP: Municipal Gross Domestic Product; MHDI: Municipal Human Development Index; NVC: Native Vegetation Coverage; ROA: Road Density; PA: Protected Areas; RIC: Most Trafficked Species Richness.