

# Results

2022-01-27

**Note:** Table 1 shows full panel results with the imputed dataset. Table 2 shows full panel results with the non-imputed dataset. Tables 3-5 show OLS, IV, and Lewbel IV estimates by region, respectively, for the imputed dataset. Tables 6-8 show the same with the non-imputed dataset.

	OLS	ML Tobit	Selection (OLS)	Level (OLS)	IV Lag	IV Lewbel
Coverage (lag)	0.72* (0.31)	1.49*** (0.42)	0.04* (0.02)	0.10 (0.14)		
Coverage (in-year)					0.73* (0.34)	0.90 (0.57)
Diplomatic Visits	0.91** (0.35)	1.46 (0.83)	0.04* (0.02)	0.31* (0.15)	1.56 (0.84)	0.01 (1.48)
Polity	-0.10 (0.07)	-0.10 (0.11)	-0.00 (0.00)	-0.06* (0.02)	-0.11 (0.07)	-0.09 (0.07)
GDP	-2.82*** (0.36)	-4.95*** (0.50)	-0.16*** (0.02)	-0.01 (0.16)	-2.81*** (0.35)	-2.88*** (0.38)
Population	2.60*** (0.32)	5.33*** (0.74)	0.14*** (0.02)	0.28 (0.16)	2.62*** (0.33)	2.51*** (0.36)
Unemployment	0.18 (0.47)	0.62 (0.95)	0.01 (0.02)	-0.06 (0.19)	0.24 (0.46)	0.10 (0.49)
Disaster Deaths	0.19 (0.16)	0.17 (0.26)	0.01 (0.01)	0.03 (0.05)	0.17 (0.17)	0.25 (0.18)
Civil War	-1.49 (0.91)	-2.57* (1.25)	-0.06 (0.05)	-0.68 (0.40)	-1.41 (0.92)	-1.62 (0.94)
Trade	0.13 (0.14)	-0.22 (0.21)	0.01 (0.01)	0.04 (0.05)	0.10 (0.15)	0.15 (0.15)
Alliance	0.39 (0.93)	1.96 (2.81)	0.04 (0.05)	-0.60 (0.48)	-0.63 (1.94)	1.70 (2.35)
Distance	1.94* (0.80)	3.73 (2.25)	0.10* (0.04)	0.51 (0.38)	2.50*** (0.45)	1.17 (1.38)
R <sup>2</sup>	0.20		0.19	0.14	0.20	0.20
Adj. R <sup>2</sup>	0.19		0.18	0.12	0.19	0.19
Num. obs.	1932	1932	1932	982	1932	1932
RMSE	8.26		0.45	2.53	8.26	8.28
N Clusters	138		138	129	138	138
AIC		9182.56				
BIC		9332.85				
Log Likelihood		-4564.28				
Left-censored		950				
Uncensored		982				
Right-censored		0				

\*\*\* $p < 0.001$ ; \*\* $p < 0.01$ ; \* $p < 0.05$ ;  $\cdot p < 0.1$

Table 1: Model Estimates

	OLS	Selection (OLS)	Level (OLS)	IV Lag	IV Lewbel
Coverage (lag)	0.70 (0.46)	0.03 (0.03)	0.42** (0.13)		
Coverage (in-year)				0.76 (0.61)	0.05 (0.22)
Diplomatic Visits	0.64 (0.40)	0.03 (0.02)	0.36* (0.17)	2.19* (1.14)	0.53 (0.80)
Polity	-0.09 (0.08)	-0.00 (0.00)	-0.10*** (0.03)	-0.10 (0.08)	-0.09 (0.08)
GDP	-3.38*** (0.62)	-0.18*** (0.03)	-0.17 (0.23)	-3.35*** (0.64)	-3.25*** (0.58)
Population	3.00*** (0.51)	0.16*** (0.03)	0.22 (0.26)	2.98*** (0.53)	3.14*** (0.51)
Unemployment	0.72 (0.58)	0.04 (0.03)	0.22 (0.24)	0.82 (0.59)	0.65 (0.60)
Disaster Deaths	0.06 (0.21)	0.00 (0.01)	0.00 (0.07)	-0.01 (0.21)	0.04 (0.21)
Civil War	-1.19 (1.19)	-0.07 (0.06)	0.04 (0.44)	-0.76 (1.24)	-1.22 (1.23)
Trade	0.34 (0.55)	0.02 (0.03)	0.08 (0.17)	0.21 (0.56)	0.44 (0.55)
Alliance	0.39 (1.35)	0.05 (0.08)	-0.66 (0.54)	-1.84 (2.58)	0.79 (1.69)
Distance	1.15 (1.01)	0.05 (0.05)	0.60 (0.44)	2.75** (0.86)	0.95 (1.27)
R <sup>2</sup>	0.21	0.20	0.19	0.20	0.21
Adj. R <sup>2</sup>	0.20	0.18	0.16	0.18	0.19
Num. obs.	838	838	460	838	838
RMSE	8.17	0.45	2.39	8.24	8.19
N Clusters	106	106	97	106	106

\*\*\* $p < 0.001$ ; \*\* $p < 0.01$ ; \* $p < 0.05$ ;  $p < 0.1$

Table 2: Model Estimates

	East Asia + Pacific	Europe + Central Asia	Latin America + Caribbean	Middle East + North Africa	South Asia	Sub-Saharan Africa
Coverage (lag)	0.15 (0.49)	0.61 <sup>*</sup> (0.30)	-0.38 (0.99)	-0.17 (0.83)	4.32 (3.04)	1.71*** (0.39)
Diplomatic Visits	1.59* (0.66)	0.16 (1.17)			-0.23 (1.43)	
Polity	0.10 (0.14)	-0.30 <sup>*</sup> (0.17)	-0.00 (0.22)	0.09 (0.12)	-0.07 (0.13)	-0.21 <sup>*</sup> (0.11)
GDP	-2.73* (1.30)	-2.71*** (0.50)	-1.49 (1.47)	-1.49 (1.32)	-1.55 (4.30)	-1.68*** (0.62)
Population	2.08 (1.34)	2.66*** (0.65)	1.10 (1.26)	1.48 (1.14)	-1.84 (4.88)	1.28* (0.61)
Unemployment	-1.97 (2.97)	-0.27 (1.06)	-1.22 (1.45)	1.60 (1.57)	-1.71 (1.04)	0.59 (0.82)
Disaster Deaths	0.51 <sup>*</sup> (0.29)	1.07** (0.34)	-0.39 (0.38)	0.47 (0.29)	-0.01 (0.41)	0.21 (0.21)
Civil War	-0.79 (1.26)	-0.58 (1.69)	0.25 (1.48)	-5.16* (2.01)	-4.78* (1.44)	-1.83 (1.18)
Trade	0.02 (0.17)	-0.04 (0.14)	0.92 <sup>*</sup> (0.48)	0.14 (0.87)	2.01 (2.31)	0.83** (0.29)
Alliance	1.95 (1.28)				-3.48 (3.03)	
Distance	0.39 (1.18)	1.49 (2.15)	12.59 <sup>*</sup> (7.21)	-2.05 (4.02)	-0.39 (17.27)	0.04 (3.53)
R <sup>2</sup>	0.33	0.21	0.23	0.21	0.36	0.24
Adj. R <sup>2</sup>	0.28	0.14	0.17	0.14	0.15	0.21
Num. obs.	322	294	336	252	98	630
RMSE	7.64	8.48	7.99	7.15	7.87	7.79
N Clusters	23	21	24	18	7	45

\*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ;  $^{\circ}$   $p < 0.1$

Table 3: OLS Estimates by Region

	East Asia + Pacific	Europe + Central Asia	Latin America + Caribbean	Middle East + North Africa	South Asia	Sub-Saharan Africa
Coverage (in-year)	-4.18 (4.36)	0.67* (0.31)	-0.58 (1.52)	-0.21 (1.03)	5.98 (4.53)	1.90*** (0.44)
Diplomatic Visits	15.38 (14.33)	0.71 (0.79)			-3.02 (4.79)	
Polity	-0.16 (0.32)	-0.28 (0.17)	-0.01 (0.22)	0.10 (0.12)	0.07 (0.26)	-0.22* (0.11)
GDP	-2.98* (1.67)	-2.67*** (0.52)	-1.44 (1.55)	-1.47 (1.37)	-2.76 (2.22)	-1.76*** (0.62)
Population	3.10 (1.95)	2.57** (0.68)	1.17 (1.27)	1.49 (1.11)	-0.84 (3.41)	1.22 (0.62)
Unemployment	3.10 (4.86)	-0.22 (1.02)	-1.23 (1.46)	1.61 (1.59)	-1.83 (1.52)	0.61 (0.82)
Disaster Deaths	0.64 (0.63)	1.04** (0.30)	-0.40 (0.39)	0.47 (0.30)	-0.16 (0.50)	0.22 (0.21)
Civil War	3.75 (6.37)	-0.05 (1.74)	0.22 (1.45)	-5.16* (2.02)	-6.78* (2.77)	-1.92 (1.18)
Trade	-0.32 (0.46)	-0.05 (0.14)	0.94 (0.48)	0.14 (0.87)	2.23 (2.90)	0.82** (0.29)
Alliance	-3.65 (7.30)				-2.01 (3.45)	
Distance	1.46 (1.64)	2.80* (1.10)	12.89 (7.52)	-2.17 (4.32)	2.73 (3.08)	0.17 (3.61)
R <sup>2</sup>	-0.90	0.21	0.22	0.21	0.31	0.23
Adj. R <sup>2</sup>	-1.05	0.15	0.17	0.14	0.10	0.21
Num. obs.	322	294	336	252	98	630
RMSE	12.89	8.47	8.02	7.15	8.12	7.80
N Clusters	23	21	24	18	7	45

\*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ;  $p < 0.1$

Table 4: IV Lag Estimates by Region

	East Asia + Pacific	Europe + Central Asia	Latin America + Caribbean	Middle East + North Africa	South Asia	Sub-Saharan Africa
Coverage (in-year)	-0.41 (0.74)	0.32 (0.28)	0.83 (1.30)	1.97 (1.34)	5.67 (3.77)	1.63*** (0.31)
Diplomatic Visits	2.14 <sup>*</sup> (1.10)	-1.15 (1.42)			0.50 (1.41)	
Polity	0.11 (0.15)	-0.33 <sup>*</sup> (0.17)	0.04 (0.20)	0.03 (0.13)	-0.03 (0.14)	-0.22 <sup>*</sup> (0.11)
GDP	-2.58 <sup>*</sup> (1.25)	-2.78*** (0.64)	-1.75 (1.28)	-2.12 (1.41)	-1.78 (3.90)	-1.65* (0.61)
Population	2.09 (1.36)	2.81** (0.77)	0.68 (1.50)	0.54 (1.36)	-2.32 (4.12)	1.30* (0.62)
Unemployment	-2.15 (2.90)	-0.47 (1.11)	-1.15 (1.43)	1.22 (1.66)	-1.52 <sup>*</sup> (0.75)	0.57 (0.82)
Disaster Deaths	0.51 <sup>*</sup> (0.29)	1.16*** (0.34)	-0.38 (0.38)	0.83 <sup>*</sup> (0.40)	-0.00 (0.46)	0.23 (0.21)
Civil War	-0.47 (1.33)	-1.69 (1.79)	0.21 (1.45)	-5.92*** (1.95)	-5.72* (2.04)	-1.81 (1.21)
Trade	0.04 (0.17)	-0.01 (0.18)	0.85 <sup>*</sup> (0.49)	0.46 (0.87)	2.12 (1.57)	0.83*** (0.29)
Alliance	2.08 <sup>*</sup> (1.12)				-2.70 (1.93)	
Distance	0.50 (1.31)	-1.60 (3.16)	11.04 (6.88)	4.58 (3.93)	-1.32 (15.81)	0.24 (3.70)
R <sup>2</sup>	0.33	0.20	0.23	0.20	0.36	0.24
Adj. R <sup>2</sup>	0.27	0.13	0.18	0.12	0.15	0.21
Num. obs.	322	294	336	252	98	630
RMSE	7.68	8.53	7.98	7.23	7.90	7.80
N Clusters	23	21	24	18	7	45

\*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ;  $p < 0.1$

Table 5: Lewbel IV Estimates by Region

	East Asia + Pacific	Europe + Central Asia	Latin America + Caribbean	Middle East + North Africa	South Asia	Sub-Saharan Africa
Coverage (lag)	2.58 (2.11)	0.58 (0.37)	-0.39 (2.05)	1.34 (0.82)	4.65 (5.66)	1.20 (0.81)
Diplomatic Visits	0.85 (1.15)	-0.61 (1.82)			-0.93 (3.55)	
Polity	0.01 (0.14)	-0.28 (0.24)	0.33 (0.19)	0.15 (0.21)	-0.44 (0.26)	-0.10 (0.11)
GDP	-7.82*** (1.49)	-1.89 (1.61)	0.16 (2.44)	-3.17* (1.10)	-5.36 (22.08)	-0.68 (0.88)
Population	6.93*** (0.82)	1.62 (1.04)	2.93 (1.81)	2.78 (1.40)	1.46 (17.68)	-0.20 (0.89)
Unemployment	4.46** (1.21)	-0.19 (0.95)	-2.72 (2.10)	0.04 (1.22)	-0.51 (4.22)	0.50 (0.91)
Disaster Deaths	-0.25 (0.26)	1.31** (0.42)	-1.14* (0.46)	0.42 (0.53)	-0.29 (0.56)	0.31 (0.32)
Civil War	0.03 (1.68)	-0.30 (3.73)	2.86 (2.47)	-7.76** (2.25)	-0.20 (3.50)	-1.89 (1.58)
Trade	0.30 (1.43)	-0.13 (1.78)	-2.17 (1.24)	0.92 (0.99)	2.57 (8.28)	1.05* (0.51)
Alliance	1.23 (2.42)				-7.16 (7.38)	
Distance	5.40** (1.50)	-2.98 (8.16)	8.19 (7.57)	1.56 (4.75)	12.70 (40.69)	-8.53* (3.95)
R <sup>2</sup>	0.54	0.22	0.26	0.43	0.62	0.20
Adj. R <sup>2</sup>	0.45	0.10	0.16	0.32	0.30	0.15
Num. obs.	112	136	136	102	40	312
RMSE	6.76	8.50	7.70	6.37	7.57	7.59
N Clusters	14	17	17	14	5	39

\*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ;  $p < 0.1$

Table 6: OLS Estimates by Region

	East Asia + Pacific	Europe + Central Asia	Latin America + Caribbean	Middle East + North Africa	South Asia	Sub-Saharan Africa
Coverage (in-year)	2.36 (1.60)	0.73* (0.33)	-0.73 (3.84)	1.53 (0.93)	8.57 (10.26)	1.61 (1.06)
Diplomatic Visits	5.06 (11.06)	0.62 (1.03)			-7.43 (20.25)	
Polity	-0.05 (0.25)	-0.27 (0.23)	0.32 (0.22)	0.14 (0.22)	-0.31 (0.40)	-0.10 (0.11)
GDP	-9.25* (3.98)	-1.81 (1.79)	0.25 (2.78)	-3.23* (1.15)	0.44 (19.87)	-0.80 (0.90)
Population	6.94** (0.67)	1.82 (0.88)	3.03 (1.79)	2.63 (1.43)	-3.49 (6.06)	-0.37 (0.94)
Unemployment	5.85 (4.16)	-0.47 (0.96)	-2.75 (2.17)	-0.02 (1.25)	-0.04 (5.35)	0.44 (0.90)
Disaster Deaths	-0.24 (0.21)	1.33** (0.41)	-1.16* (0.50)	0.47 (0.55)	-0.97 (1.79)	0.33 (0.32)
Civil War	1.32 (4.02)	0.50 (4.09)	2.85 (2.46)	-7.81** (2.25)	-2.77 (8.98)	-1.97 (1.58)
Trade	1.11 (2.42)	-0.52 (2.09)	-2.14 (1.24)	0.98 (1.00)	1.41 (9.95)	1.05* (0.50)
Alliance	1.68 (2.51)				-6.08 (5.27)	
Distance	5.76** (1.46)	2.59 (1.96)	8.58 (8.83)	2.63 (4.86)	0.34 (9.63)	-8.03 (4.08)
R <sup>2</sup>	0.47	0.21	0.26	0.42	0.60	0.20
Adj. R <sup>2</sup>	0.38	0.11	0.16	0.31	0.29	0.16
Num. obs.	112	136	136	102	40	312
RMSE	7.17	8.47	7.70	6.42	7.64	7.56
N Clusters	14	17	17	14	5	39

\*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ;  $p < 0.1$

Table 7: IV Lag Estimates by Region



	East Asia + Pacific	Europe + Central Asia	Latin America + Caribbean	Middle East + North Africa	South Asia	Sub-Saharan Africa
Coverage (in-year)	7.84 (5.57)	0.43 (0.61)	-0.41 (2.38)	0.28 (1.71)	16.72* (4.53)	-1.48 (2.49)
Diplomatic Visits	1.04 (1.98)	-2.40 (5.06)			-1.11 (4.58)	
Polity	0.07 (0.13)	-0.31 (0.28)	0.33 (0.20)	0.24 (0.20)	-0.29 (0.28)	-0.10 (0.13)
GDP	-7.98** (2.52)	-2.16 (1.61)	0.17 (2.48)	-2.71 (1.32)	14.26 (27.59)	-0.10 (1.13)
Population	6.03*** (1.19)	1.29 (1.37)	2.96 (1.96)	3.15 (1.65)	-26.42 (25.87)	1.03 (1.07)
Unemployment	4.91* (1.68)	0.29 (1.29)	-2.72 (2.10)	0.07 (1.36)	0.68 (2.68)	0.91 (1.03)
Disaster Deaths	-0.11 (0.27)	1.26* (0.46)	-1.15* (0.46)	0.23 (0.58)	-0.65 (0.45)	0.29 (0.36)
Civil War	-0.38 (2.29)	-0.88 (3.61)	2.79 (2.26)	-7.81** (2.18)	-1.08 (3.95)	-1.61 (1.83)
Trade	-1.65 (2.04)	0.53 (2.08)	-2.18 (1.25)	0.75 (1.07)	6.07 (5.47)	1.16 (0.64)
Alliance	1.89 (2.57)				-2.89 (7.21)	
Distance	4.56* (2.08)	-10.90 (21.62)	8.13 (7.99)	-0.88 (6.02)	-57.25 (62.51)	-11.17* (4.94)
R <sup>2</sup>	0.52	0.21	0.26	0.42	0.69	0.16
Adj. R <sup>2</sup>	0.43	0.09	0.16	0.31	0.42	0.11
Num. obs.	112	136	136	102	40	312
RMSE	6.86	8.53	7.70	6.41	6.91	7.78
N Clusters	14	17	17	14	5	39

\*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ;  $p < 0.1$

Table 8: Lewbel IV Estimates by Region