

Appendix

Table A1: Country descriptive statistics

Country	GW no	No. cells	min GCPpc	max GCPpc	mean GCPpc	s.d. GCPpc	GDPpc
USA	2	4863	5559.4	62044.88	30985.35	15584.24	27951.31
Canada	20	8030	0	67800.31	22436.01	8099	23049.89
Bahamas	31	44	15334.62	15633.02	15412.89	59.51	15403.68
Cuba	40	78	4023.37	4113.67	4090.24	16.48	4084.48
Haiti	41	17	1587.59	1588.01	1587.91	0.1	1587.96
Dominican Republic	42	29	2712.91	2717.21	2716.39	1.11	2716.97
Jamaica	51	10	4807.54	4936.29	4863.53	43.6	4863.69
Trinidad and Tobago	52	7	6595	6637.61	6613.24	22.75	6595.5
Barbados	53	2	11858.8	11858.8	11858.8	0	11858.8
Mexico	70	825	594.25	33001.28	7962.98	3821.21	7868.15
Belize	80	11	4341.98	4494.62	4387.61	56.29	4371.64
Guatemala	90	43	3148.65	3854.3	3528.09	191.34	3598.29
Honduras	91	46	735.63	7974.84	2447	1275.86	2268.55
El Salvador	92	9	3472.75	3647.09	3536.64	61.07	3504.4
Nicaragua	93	52	1543.36	2235.69	1834.3	155.06	1853.42
Costa Rica	94	26	4868.43	5344.51	5126.56	159.21	5158.22
Panama	95	47	4458.49	5780.97	4691.21	295.73	4705.43
Colombia	100	396	1400.92	21701.32	3957.93	2842.45	4244.74
Venezuela	101	331	330.18	63451.18	8898.31	8593.57	8392.46
Guyana	110	71	1096.31	1232.53	1194.85	44.29	1226.74
Surinam	115	56	3576.55	23078	7990.16	2922.25	4990.92

Ecuador	130	107	1995.16	25793.59	5939.79	5419.86	4302.63
Peru	135	452	303.17	746957.96	9564.6	37561.53	4044.36
Brazil	140	2932	758.56	147577.42	7248.76	10219.78	6298.46
Bolivia	145	368	1423.17	4205.09	2643.28	700.72	2567.17
Paraguay	150	141	816.53	3814.6	3186.94	709.51	3558.25
Chile	155	430	48.87	87201.82	10174.78	16662.87	5562.68
Argentina	160	1169	922.64	15431.56	4568.54	2441.8	5939.16
Uruguay	165	75	5875.5	6247.69	5975.91	78.96	5980.07
United Kingdom	200	217	84.77	57917.5	19192.09	9434.53	20206.92
Ireland	205	54	6804.4	43923.92	15434.68	8956.6	14721.11
Netherlands	210	23	17019.65	25556.95	22463.23	2062.55	23076.84
Belgium	211	18	15975.45	26340.93	20661.28	4030.58	22827.39
Luxembourg	212	1	37040.48	37040.48	37040.48	NA	37040.48
France	220	292	14342.61	36661.56	19043.18	2825.68	22414.48
Switzerland	225	16	26182.42	32613.86	29975.47	1393.2	30492.72
Spain	230	272	10125.6	22746.84	16201.2	3328.82	17148.5
Portugal	235	58	6207.9	20564.67	10870.34	3019.91	12635.26
GFR	260	135	15510.81	33513.16	22985.64	3751.85	24225.99
GDR	265	65	10446.26	21691.72	15118.86	2404.19	16717.47
Poland	290	174	3674.23	11875.06	6857.78	1907.73	6765.39
Austria	305	40	16934.72	29987.27	21232.88	3593.36	23317.24
Hungary	310	45	5833.09	14650.29	9559.59	2141.36	10819.1
Czechoslovakia	315	62	6908.58	17096.07	11257.54	2564.87	12311.17
Italy	325	200	2890.24	77335.23	22337.03	12688.08	21065.6
Malta	338	2	12835.57	12835.57	12835.57	0	12835.57

Albania	339	16	3115.25	3115.85	3115.61	0.24	3115.66
Serbia (Yugoslavia)	345	129	2730.78	24694.71	8257.98	5542.75	6927.58
Greece	350	122	6665.62	217621.67	29541.02	31280.39	18782.94
Cyprus	352	12	10806.49	66660.58	28103.13	19699.39	16625.64
Bulgaria	355	50	4261.63	13478.87	6476.44	2159.1	6261.12
Rumania	360	116	2481.02	26366.32	7728.26	3892.57	7133.25
Russia (Soviet Union)	365	15010	0	366949.32	14537.64	10335.8	8740.53
Finland	375	276	13075.65	35748.47	18239.41	3202.14	20058.64
Sweden	380	359	17243.79	28111.99	20764.26	1457.91	21731
Norway	385	334	14477.72	36734.85	19513.1	3103.01	24270.05
Denmark	390	51	15163.39	28847.32	19383.03	2655.55	21189.64
Iceland	395	126	6300.37	22816.22	19260.73	4442.06	22355.63
Cape Verde	402	16	1419.55	1426.18	1424.86	1.47	1425.05
Guinea-Bissau	404	13	515.96	541.94	531.65	7.42	533.19
Equatorial Guinea	411	12	1701.59	1874.84	1799.21	71.31	1794.23
Gambia	420	3	879.33	880.34	880	0.59	880.18
Mali	432	428	8.7	2989.75	749.64	511.69	665.94
Senegal	433	75	1088.26	1175.38	1150.7	15.92	1156.7
Benin	434	40	637.34	1070.5	793.49	140.1	907.91
Mauritania	435	403	736.31	10319.34	1754.85	1149.33	1527.76
Niger	436	402	98.56	4814.16	1414.07	1119.65	599.02
Côte d'Ivoire	437	113	1349.76	1450.45	1416.04	9.32	1415.27
Guinea	438	85	782.23	818.35	796.37	4.65	795.49
Burkina Faso	439	87	438.25	785.77	658.27	57.71	647.43
Liberia	450	37	2298.26	2305.81	2302.91	2.45	2304.09

Sierra Leone	451	30	536.85	537.61	537.33	0.19	537.41
Ghana	452	85	590.25	1002.07	765.41	102.47	743.29
Togo	461	19	728.46	741.33	734.58	4.59	737.33
Cameroon	471	156	1178.81	4681.49	1774.98	615.47	1804.08
Nigeria	475	312	699.51	242808.66	1780.95	13704.33	1020.22
Gabon	481	94	9703.92	16038.67	13638.64	1019.02	11892.6
Central African Republic	482	202	328.34	1429.06	573.92	138.47	696.63
Chad	483	391	450.8	28338.5	749.43	1437.38	776.48
Congo	484	112	2391.29	2513.55	2477.73	34.13	2504.94
DR Congo (Zaire)	490	763	370.4	5966.71	452.1	220.53	476.67
Uganda	500	80	27.48	796.57	481.96	141.91	471.18
Kenya	501	192	161.46	12890.33	1392.95	1807.7	1250.19
Tanzania	510	316	306.4	1156.9	697.27	211.44	646.29
Burundi	516	11	420.85	425.84	422.95	1.9	422.51
Rwanda	517	9	589.82	589.86	589.84	0.02	589.84
Somalia	520	241	144.94	5073.7	727.04	419.72	626.35
Djibouti	522	9	2593.45	2607.14	2601.52	5.11	2604.79
Ethiopia	530	424	193.33	1041.76	423	91.31	436.24
Angola	540	435	864.65	237724.83	3006.43	16001.42	1939.22
Mozambique	541	302	92.69	1323.43	375.73	215.15	353.21
Zambia	551	250	534.08	1639.09	781.89	177.88	964.99
Zimbabwe	552	135	1143.56	3723.31	2566.7	432.02	2442.73
Malawi	553	39	534.08	534.8	534.66	0.16	534.74
South Africa	560	483	1259.74	220862.25	11633.95	21317.95	6702.35
Namibia	565	307	260.07	40640.24	7150.68	7763.57	3660.66

Lesotho	570	12	1339.9	1510	1462.18	58.14	1475.58
Botswana	571	205	1472.33	14329.54	3851.85	2832.03	5756.12
Swaziland	572	5	4054.17	4133.28	4069.99	35.38	4059.04
Madagascar	580	255	684.98	988.09	779.86	75.06	830.35
Comoros	581	5	998.46	1108.42	1045.54	57.75	1057.98
Mauritius	590	6	4887.63	5055.53	4999.57	86.68	5054.08
Morocco	600	242	1049.72	9702.66	2451.63	1482.38	2354.09
Algeria	615	870	2831.84	664972.84	9628.79	45361.06	4495.18
Tunisia	616	72	3101.69	4029.36	3406.5	255.34	3408.46
Libya	620	655	8140.33	565393.81	20925.83	57746.65	14556.5
Sudan	625	840	247.86	2690.41	687.01	341.6	833.6
Iran	630	644	820.08	135110.44	12687.64	22254.17	5590.54
Turkey	640	368	1071.98	11271.61	4392.45	2021.97	5045.3
Iraq	645	169	3207.56	12642.54	5393.45	1347.37	5994.97
Egypt	651	388	81.8	3062677.95	131378.63	471607.33	2897.16
Syria	652	72	857.12	7578.02	3411.84	1809	2489.11
Lebanon	660	5	5654.44	5655.47	5655.21	0.45	5655.39
Jordan	663	34	2720.81	2805.39	2782.91	23.22	2802.45
Israel	666	15	10996.46	24576.05	16284.87	4678.12	14512.8
Saudi Arabia	670	722	485.61	1150064.78	21744.59	95645.72	17375.84
Yemen	678	168	988.77	10447.09	1554.37	1400.87	1587.84
Kuwait	690	9	4083.56	90978.58	35279.4	28385.03	21921.89
Bahrain	692	1	11125.74	11125.74	11125.74	NA	11125.74
Qatar	694	9	26447.99	571824.91	244440.7	232588.2	34084.83
United Arab Emirates	696	33	33281.55	33446.81	33388.08	45.03	33422.64

Oman	698	128	3993.86	12501.26	11099.43	2032.06	12158.17
Afghanistan	700	255	213.91	51847.65	2136.03	4749.98	1062.9
China	710	3880	133.11	3133.64	930.03	245.31	980.39
Mongolia	712	741	222.03	10569.03	2377.79	1378.97	1830.53
Taiwan	713	23	7513.78	8613.66	8526.8	221.01	8570.96
PR Korea	731	65	924.52	4121.5	2010.96	702.87	1779.99
R Korea	732	60	5400.38	19110.91	9675.97	2480.22	9484.29
Japan	740	273	4008.96	430549.89	33046.22	32816.02	22897.6
India	750	1197	464.63	8351.56	1188.51	895.15	1051.46
Bhutan	760	12	1501.37	1502.39	1501.73	0.31	1501.74
Pakistan	770	336	620.26	5487.5	1444.79	629.2	1550.61
Bangladesh	771	55	502.7	941.93	635.79	109.53	624.8
Myanmar (Burma)	775	265	209.52	392.68	284.86	21.93	299.21
Sri Lanka	780	37	682.11	3435.55	1812.05	575.49	1778.13
Maldives	781	20	380.21	12337.49	4404.55	2812.14	3471.11
Nepal	790	53	602.97	647.31	627.88	7.11	626.73
Thailand	800	196	1037.13	12333.9	2720.99	2257.27	3752.64
Cambodia (Kampuchea)	811	64	260.77	1651.66	965.2	210.46	1006.78
Laos	812	79	752.45	1078.95	859.21	58.37	888.15
DR Vietnam	816	138	211.68	1595.36	670.91	233.78	754.92
Malaysia	820	144	2150.61	9626.13	5360.21	1261.94	5792.17
Singapore	830	1	21238.64	21238.64	21238.64	NA	21238.64
Brunei	835	4	41490.44	44330.17	43620.24	1419.86	44315.41
Philippines	840	236	859.93	4367.44	1686.56	629.33	2170.77
Indonesia	850	1047	0	105377.88	4513.98	10467.3	1772.96

Australia	900	3038	833.22	45573.84	20316.08	4711.22	20592.54
Papua New Guinea	910	250	943.46	3618.18	1108.94	364.79	1285.37
New Zealand	920	190	12058.86	23458.15	15796.46	1755.74	16027.24
Solomon Islands	940	52	739.02	5791.13	2958.78	1689.48	1835.21
Fiji	950	25	1534.3	10603.9	4735.74	2576.75	3237.69

Table A2: Summary statistics for full sample of cells

Variable	N	Mean	St. dev.	Min	Max
Ln GCP pc	55707	8.71	1.36	2.16	14.93
Ln GPD pc	55707	8.7	1.22	5.86	10.7
Ln infant mortality rate	53164	5.42	1.01	2.94	7.9
Positive income deviations	55707	0.59	12.54	0	1067.91
Negative income deviations	55707	-0.13	0.18	-1	0
Least Developed Country	55707	0.06	0.23	0	1
Ln distance to border (+1)	55707	1.02	0.7	0	2.79
Ln distance to capital (+1)	55707	7.03	1.07	2.51	8.98
Capital city	55707	0	0.05	0	1
Forrest cover (%)	55707	40.53	42.09	0	100
Mountainous terrain (%)	55707	23.66	36.43	0	100
Ln Population	55707	9.74	2.98	2.33	17.09
No. of cells (*1000)	55707	5132.75	5747.25	1	14518

Table A3: Summary statistics for case control sample of cells

Variable	N	Mean	St. dev.	Min	Max
Ln GCP pc	342	8.59	1.33	5.28	11.86
Ln GPD pc	342	8.63	1.24	5.86	10.24
Ln infant mortality rate	330	5.5	1.01	2.94	7.42
Positive income deviations	342	0.25	0.83	0	11.6
Negative income deviations	342	-0.14	0.2	-0.95	0
Least developed country	342	0.08	0.27	0	1
Ln distance to border (+1)	342	1.02	0.72	0	2.71
Ln distance to capital (+1)	342	6.93	1.13	3.13	8.78
Capital city	342	0.02	0.14	0	1
Forest cover (%)	342	37.53	41.92	0	100
Mountainous terrain (%)	342	23.6	36.54	0	100
Ln Population	342	10.17	2.97	2.52	15.85
No. of cells (*1000)	342	4808.02	5524.2	1	14518

Table A4: Estimates for country level data, Model 3 including Fearon and Laitin (2003) control variables

	Model 1			Model 2			Model 3		
	Coef.	SE	Z	Coef.	SE	Z	Coef.	SE	Z
Intercept	3.482	1.239	2.809	4.592	1.731	2.653	0.519	4.711	0.11
Ln min. GCP pc	-0.708	0.183	-3.869	-0.636	0.199	-3.192	-0.857	0.289	-2.959
Ln GDP pc				-0.206	0.218	-0.948	-0.410	0.508	-0.807
LDC * ln max. GCP pc							1.662	1.304	1.275
Cell variance scaled							2.839	2.133	1.331
Ln No. of cells							-0.418	0.305	-1.371
Ln Population							0.574	0.288	1.994
Ln mountainous terrain							0.246	0.208	1.185
Non-contiguous							1.725	0.933	1.849
Oil-producing state							0.774	0.852	0.908
New state							-13.907	1455.4	-0.01
Instability							-0.197	0.846	-0.233
Polity II							0.126	0.059	2.117
Ethnic fractionalization							1.854	1.093	1.697
Religious fractionalization							0.851	1.503	0.566
N		149			149			132	
Log likelihood		-63.66 (df=2)			-63.20 (df=3)			-46.38 (df=15)	
LR Chi-Square		19.56 (df=1)			20.47 (df=2)			46.24 (df=14)	
AIC		131.31			132.40			122.76	

Figure A1: Distribution of average pairwise cell distances across full sample and case control sample

