Regressions with Cluster average Food Security

March 1, 2018

Table 1: Cluster level average of logFCS measure: IPC zone covariates

	(1) clust_logFCS	(2) clust_logFCS	(3) clust_logFCS
ipc_lag1	0.015	0.002	−0.022
	(0.027)	(0.025)	(0.025)
ipc_lag12	−0.163***	−0.077	−0.020
	(0.059)	(0.055)	(0.066)
ipczone_L12raincytot	−0.070	−0.034	−0.023
	(0.081)	(0.076)	(0.078)
ipczone_L12day1rain	−0.165**	0.081	−0.069
	(0.075)	(0.075)	(0.081)
ipczone_L12maxdays	−0.220	−0.156	−0.044
	(0.223)	(0.206)	(0.208)
ipczone_floodmax	−0.348	−0.204	0.165
	(0.473)	(0.436)	(0.443)
ipczone_price	−0.142***	−0.184***	−0.180***
	(0.036)	(0.035)	(0.035)
ipczone_thinn	0.005	−0.011	−0.009
	(0.034)	(0.031)	(0.031)
ipczone_percent_ag	−0.118	0.126	0.020
	(0.075)	(0.080)	(0.083)
ipczone_elevation	−0.070*	−0.079**	−0.118***
	(0.040)	(0.038)	(0.040)
ipczone_nutri_reten_constrained	−0.026	−0.025	−0.023
	(0.036)	(0.037)	(0.037)
ipczone_dist_road	−0.009***	−0.003**	−0.003**
	(0.001)	(0.001)	(0.001)
ipczone_dist_admarc	0.009***	0.010***	0.008***
	(0.003)	(0.003)	(0.003)
ipczone_roof		0.169	0.181
		(0.114)	(0.121)
ipczone_cells_own		0.203***	0.028
		(0.063)	(0.073)
ipczone_hhsize			0.002
			(0.036)
ipczone_hh_age			−0.015**
			(0.007)
ipczone_hh_gender			−0.188
			(0.199)
ipczone_asset			0.334***
			(0.073)
Observations	553	553	553
R^2	0.158	0.294	0.329

Table 2: Cluster level average of logFCS measure: TA level covariates

	(1) clust_logFCS	(2) clust_logFCS	(3) clust_logFCS
ipc_lag1	0.032	0.025	0.016
	(0.025)	(0.020)	(0.019)
ipc_lag12	−0.140***	−0.113***	−0.092**
	(0.053)	(0.042)	(0.044)
TA_L12raincytot	0.132**	0.090*	0.117**
	(0.065)	(0.052)	(0.052)
TA_L12day1rain	−0.014	−0.089	−0.114
	(0.156)	(0.125)	(0.125)
TA_L12maxdays	0.063	0.148	0.189
	(0.173)	(0.139)	(0.138)
TA_floodmax	−0.052	0.138	0.243
	(0.400)	(0.320)	(0.318)
TA_price	−0.035	−0.068**	−0.064*
	(0.042)	(0.034)	(0.034)
TA_thinn	−0.012	−0.005	−0.007
	(0.040)	(0.032)	(0.032)
TA_percent_ag	−0.071	0.051	0.043
	(0.045)	(0.037)	(0.037)
TA_elevation	−0.020	−0.098***	−0.106***
	(0.034)	(0.028)	(0.027)
TA_nutri_reten_constrained	−0.020	−0.016	−0.025
	(0.024)	(0.019)	(0.019)
TA_dist_road	−0.008***	−0.002***	−0.002***
	(0.001)	(0.001)	(0.001)
TA_dist_admarc	0.002	0.004***	0.004***
	(0.002)	(0.001)	(0.001)
TA_roof		0.147***	0.066
		(0.051)	(0.054)
TA_cells_own		0.175***	0.162***
		(0.024)	(0.025)
TA_hhsize			−0.028*
			(0.015)
TA_hh_age			−0.002
			(0.002)
TA_hh_gender			−0.080
			(0.086)
TA_asset			0.141***
			(0.033)
Observations	546	546	546
R^2	0.168	0.470	0.497

Table 3: Cluster level average of logFCS measure

	(1) clust_logFCS	(2) clust_logFCS	(3) clust_logFCS
ipc_lag1	0.019	0.020	0.013
	(0.025)	(0.019)	(0.018)
ipc_lag12	−0.134**	−0.105***	−0.075*
	(0.053)	(0.039)	(0.039)
clust_L12raincytot	0.095	0.094**	0.112***
	(0.058)	(0.043)	(0.042)
clust_L12day1rain	0.091	−0.010	−0.077
	(0.123)	(0.092)	(0.090)
clust_L12maxdays	0.144	0.130	0.180*
	(0.148)	(0.111)	(0.107)
clust_floodmax	−0.028	0.153	0.258
	(0.316)	(0.234)	(0.227)
clust_price	−0.049	−0.070***	−0.076***
	(0.030)	(0.023)	(0.022)
clust_thinn	−0.014	−0.000	−0.007
	(0.024)	(0.018)	(0.018)
clust_percent_ag	−0.071**	0.006	0.006
	(0.034)	(0.026)	(0.025)
clust_elevation	−0.021	−0.111***	−0.120***
	(0.032)	(0.024)	(0.024)
clust_nutri_reten_constrained	−0.008	−0.002	−0.009
	(0.020)	(0.015)	(0.014)
clust_dist_road	−0.008***	−0.003***	−0.003***
	(0.001)	(0.001)	(0.001)
clust_dist_admarc	0.000	0.003***	0.003***
	(0.001)	(0.001)	(0.001)
clust_roof		0.189***	0.145***
		(0.037)	(0.037)
clust_cells_own		0.155***	0.133***
		(0.017)	(0.018)
clust_hhsize			−0.010
			(0.010)
clust_hh_age			−0.003*
			(0.001)
clust_hh_gender			−0.028
			(0.053)
clust_asset			0.121***
			(0.021)
Observations	532	532	532
R^2	0.189	0.557	0.591

Table 4: Cluster level average of HDDS measure: IPC zone covariates

	(1) clust_HDDS	(2) clust_HDDS	(3) clust_HDDS
ipc_lag1	−0.007	−0.076	−0.151*
	(0.089)	(0.083)	(0.084)
ipc_lag12	−0.608***	−0.382**	−0.157
	(0.197)	(0.185)	(0.224)
ipczone_L12raincytot	−0.887***	−0.893***	−0.709***
	(0.269)	(0.255)	(0.265)
ipczone_L12day1rain	−0.264	0.408	0.011
	(0.250)	(0.252)	(0.273)
ipczone_L12maxdays	−0.364	−0.009	0.214
	(0.746)	(0.690)	(0.703)
ipczone_floodmax	−0.820	−0.132	0.813
	(1.579)	(1.456)	(1.495)
ipczone_price	−0.397***	−0.609***	−0.596***
	(0.119)	(0.117)	(0.117)
ipczone_thinn	−0.146	−0.164	−0.174*
	(0.112)	(0.105)	(0.104)
ipczone_percent_ag	−0.508**	0.053	−0.260
	(0.250)	(0.269)	(0.281)
ipczone_elevation	0.003	−0.095	−0.145
	(0.135)	(0.128)	(0.137)
ipczone_nutri_reten_constrained	−0.038	0.079	0.139
	(0.119)	(0.123)	(0.125)
ipczone_dist_road	−0.028***	−0.010**	−0.009**
	(0.004)	(0.004)	(0.004)
ipczone_dist_admarc	0.024**	0.029***	0.017*
	(0.010)	(0.009)	(0.010)
ipczone_roof		1.295***	1.021**
		(0.380)	(0.409)
ipczone_cells_own		0.262	0.065
		(0.210)	(0.247)
ipczone_hhsize			−0.089
			(0.120)
ipczone_hh_age			−0.008
			(0.022)
ipczone_hh_gender			0.467
			(0.673)
ipczone_asset			0.915***
			(0.246)
Observations	553	553	553
R^2	0.158	0.291	0.312

Table 5: Cluster level average of HDDS measure : TA level covariates

	(1) clust_HDDS	(2) clust_HDDS	(3) clust_HDDS
ipc_lag1	0.086	0.049	0.012
	(0.082)	(0.066)	(0.065)
ipc_lag12	−0.531***	−0.444***	−0.300**
	(0.175)	(0.141)	(0.145)
TA_L12raincytot	0.033	−0.147	−0.068
	(0.216)	(0.174)	(0.172)
TA_L12day1rain	0.597	0.301	0.144
	(0.518)	(0.416)	(0.414)
TA_L12maxdays	−0.088	0.129	0.385
	(0.576)	(0.462)	(0.459)
TA_floodmax	−0.109	0.461	0.763
	(1.334)	(1.069)	(1.056)
TA_price	−0.037	−0.201*	−0.205*
	(0.139)	(0.114)	(0.112)
TA_thinn	−0.129	−0.085	−0.107
	(0.132)	(0.106)	(0.105)
TA_percent_ag	−0.228	0.127	0.072
	(0.149)	(0.124)	(0.123)
TA_elevation	0.162	−0.118	−0.130
	(0.113)	(0.092)	(0.091)
TA_nutri_reten_constrained	−0.083	−0.048	−0.072
	(0.080)	(0.065)	(0.064)
TA_dist_road	−0.027***	−0.007***	−0.007**
	(0.003)	(0.003)	(0.003)
TA_dist_admarc	0.001	0.012**	0.010**
	(0.006)	(0.005)	(0.005)
TA_roof		0.852***	0.588***
		(0.171)	(0.178)
TA_cells_own		0.416***	0.348***
		(0.081)	(0.084)
TA_hhsize			−0.065
			(0.050)
TA_hh_age			−0.014*
			(0.008)
TA_hh_gender			0.163
			(0.285)
TA_asset			0.538***
			(0.110)
Observations	546	546	546
R^2	0.166	0.467	0.497

Table 6: Cluster level average of HDDS measure

	(1) clust_HDDS	(2) clust_HDDS	(3) clust_HDDS
ipc_lag1	0.040	0.041	0.004
	(0.083)	(0.062)	(0.059)
ipc_lag12	−0.470***	−0.370***	−0.214*
	(0.174)	(0.129)	(0.128)
clust_L12raincytot	−0.057	−0.057	−0.000
	(0.191)	(0.142)	(0.137)
clust_L12day1rain	0.675*	0.287	−0.000
	(0.405)	(0.304)	(0.294)
clust_L12maxdays	0.308	0.202	0.428
	(0.490)	(0.367)	(0.350)
clust_floodmax	−0.326	0.261	0.610
	(1.044)	(0.777)	(0.740)
clust_price	−0.085	−0.175**	−0.205***
	(0.099)	(0.075)	(0.071)
clust_thinn	−0.108	−0.060	−0.094
	(0.081)	(0.060)	(0.058)
clust_percent_ag	−0.186	0.051	0.042
	(0.113)	(0.086)	(0.082)
clust_elevation	0.174	−0.130	−0.161**
	(0.107)	(0.081)	(0.079)
clust_nutri_reten_constrained	−0.086	−0.059	−0.084*
	(0.066)	(0.049)	(0.047)
clust_dist_road	−0.028***	−0.009***	−0.008***
	(0.003)	(0.002)	(0.002)
clust_dist_admarc	−0.004	0.005	0.005
	(0.005)	(0.004)	(0.003)
clust_roof		0.805***	0.648***
		(0.121)	(0.119)
clust_cells_own		0.425***	0.333***
		(0.058)	(0.058)
clust_hhsize			−0.028
			(0.031)
clust_hh_age			−0.015***
			(0.005)
clust_hh_gender			0.079
			(0.173)
clust_asset			0.460***
			(0.068)
Observations	532	532	532
R^2	0.201	0.559	0.606

Table 7: Cluster level average of with RCSI measure:IPC zone covariates

	(1) clust_RCSI	(2) clust_RCSI	(3) clust_RCSI
ipc_lag1	1.935***	1.789***	1.519***
	(0.283)	(0.281)	(0.284)
ipc_lag12	1.019	0.392	0.489
	(0.627)	(0.628)	(0.755)
ipczone_L12raincytot	−1.063	−2.020**	−1.505*
	(0.855)	(0.865)	(0.890)
ipczone_L12day1rain	1.755**	0.129	−1.207
	(0.795)	(0.853)	(0.918)
ipczone_L12maxdays	−5.702**	−4.896**	−2.588
	(2.368)	(2.335)	(2.365)
ipczone_floodmax	2.365	3.434	8.532*
	(5.014)	(4.931)	(5.030)
ipczone_price	0.397	0.015	0.032
	(0.379)	(0.396)	(0.392)
ipczone_thinn	−0.418	−0.149	−0.231
	(0.357)	(0.355)	(0.351)
ipczone_percent_ag	2.104***	−0.228	−1.038
	(0.793)	(0.911)	(0.944)
ipczone_elevation	−1.107***	−1.547***	−2.002***
	(0.427)	(0.435)	(0.460)
ipczone_nutri_reten_constrained	1.684***	2.470***	2.561***
	(0.377)	(0.418)	(0.419)
ipczone_dist_road	0.000	−0.038**	−0.044***
	(0.013)	(0.015)	(0.015)
ipczone_dist_admarc	−0.043	−0.031	−0.046
	(0.030)	(0.030)	(0.033)
ipczone_roof		4.630***	3.714***
		(1.288)	(1.377)
ipczone_cells_own		−3.360***	−4.665***
		(0.712)	(0.832)
ipczone_hhsize			−0.930**
			(0.404)
ipczone_hh_age			−0.182**
			(0.075)
ipczone_hh_gender			−3.414
			(2.265)
ipczone_asset			2.452***
			(0.826)
Observations	553	553	553
R^2	0.400	0.426	0.450

Table 8: Cluster level average of with RCSI measure: TA level covariates

	(1) clust_RCSI	(2) clust_RCSI	(3) clust_RCSI
ipc_lag1	2.222***	2.275***	2.273***
	(0.264)	(0.255)	(0.258)
ipc_lag12	0.460	0.331	0.533
	(0.567)	(0.547)	(0.578)
TA_L12raincytot	−1.016	−0.757	−0.839
	(0.698)	(0.677)	(0.686)
TA_L12day1rain	−0.113	0.316	0.320
	(1.675)	(1.617)	(1.655)
TA_L12maxdays	0.480	0.146	0.318
	(1.861)	(1.797)	(1.833)
TA_floodmax	5.701	4.846	4.700
	(4.309)	(4.154)	(4.217)
TA_price	1.442***	1.675***	1.610***
	(0.449)	(0.444)	(0.448)
TA_thinn	0.529	0.468	0.453
	(0.426)	(0.412)	(0.418)
TA_percent_ag	0.493	−0.041	−0.077
	(0.482)	(0.480)	(0.489)
TA_elevation	−1.244***	−0.834**	−0.793**
	(0.365)	(0.359)	(0.364)
TA_nutri_reten_constrained	0.917***	0.869***	0.835***
	(0.257)	(0.251)	(0.255)
TA_dist_road	0.031***	0.002	0.003
	(0.010)	(0.011)	(0.011)
TA_dist_admarc	0.027	0.012	0.010
	(0.018)	(0.018)	(0.018)
TA_roof		−1.195*	−1.088
		(0.665)	(0.712)
TA_cells_own		−0.645**	−0.810**
		(0.316)	(0.336)
TA_hhsize			0.234
			(0.199)
TA_hh_age			−0.021
			(0.033)
TA_hh_gender			0.680
			(1.137)
TA_asset			0.376
			(0.439)
Observations	546	546	546
R^2	0.382	0.429	0.431

Table 9: Cluster level average of with RCSI measure

	(1) clust_RCSI	(2) clust_RCSI	(3) clust_RCSI
ipc_lag1	2.223***	2.226***	2.266***
	(0.276)	(0.265)	(0.265)
ipc_lag12	0.836	0.685	0.882
	(0.577)	(0.553)	(0.574)
clust_L12raincytot	−0.310	−0.311	−0.471
	(0.636)	(0.609)	(0.613)
clust_L12day1rain	−0.407	0.213	0.567
	(1.345)	(1.300)	(1.316)
clust_L12maxdays	−1.174	−0.958	−1.175
	(1.629)	(1.569)	(1.569)
clust_floodmax	0.833	−0.010	−0.342
	(3.467)	(3.324)	(3.316)
clust_price	0.645*	0.796**	0.817**
	(0.329)	(0.320)	(0.319)
clust_thinn	0.021	−0.052	0.008
	(0.268)	(0.257)	(0.259)
clust_percent_ag	0.510	0.185	0.128
	(0.376)	(0.366)	(0.366)
clust_elevation	−1.182***	−0.728**	−0.552
	(0.355)	(0.347)	(0.354)
clust_nutri_reten_constrained	0.497**	0.450**	0.425**
	(0.220)	(0.212)	(0.212)
clust_dist_road	0.032***	0.006	0.006
	(0.010)	(0.010)	(0.010)
clust_dist_admarc	0.017	0.003	0.003
	(0.016)	(0.016)	(0.016)
clust_roof		−1.359***	−0.971*
		(0.520)	(0.535)
clust_cells_own		−0.528**	−0.649**
		(0.248)	(0.260)
clust_hhsize			0.426***
			(0.141)
clust_hh_age			−0.013
			(0.021)
clust_hh_gender			0.951
			(0.776)
clust_asset			−0.210
			(0.305)
Observations	532	532	532
R^2	0.359	0.414	0.426