

Table 5.4: Factors Associated with Adaptive Capacity for Disaster Resilience Scores

		Disaster Resilience Index	Adaptive Capacity for Resilience Index Components					Resilience Capacities across Disaster Stages				
			Social	Comm. Capital	Economic	Institutional	Infra-structure	Ecological	Mitigation	Prep.	Response	Recovery
Urban/Rural County	Metro: ≥ 1 million pop	-0.111 (0.061)	0.016 (0.038)	-0.079 (0.048)	0.059 (0.028)	-0.016 (0.061)	3.07e-04 (0.054)	-0.090 (0.064)	-0.133 (0.134)	-0.072 (0.070)	-0.054 (0.077)	-0.142 (0.238)
	Metro: < 250,000 pop	0.091 (0.053)	-0.008 (0.029)	-0.003 (0.040)	0.008 (0.044)	0.029 (0.025)	0.005 (0.024)	0.061 (0.025)*	0.104 (0.078)	0.068 (0.052)	0.057 (0.027)*	0.087 (0.130)
	Urban: ≥20,000 pop	-0.041 (0.073)	-0.039 (0.035)	0.000 (0.055)	-0.073 (0.025)*	-0.065 (0.024)*	-0.012 (0.013)	0.149 (0.035)**	-0.034 (0.073)	-0.276 (0.059)**	-0.225 (0.057)*	0.055 (0.112)
	Urban: 2,500 - 19,999	-0.062 (0.093)	-0.040 (0.018)*	0.048 (0.039)	-0.060 (0.019)*	-0.125 (0.006)**	-0.042 (0.041)	0.158 (0.020)**	-0.024 (0.063)	-0.275 (0.088)*	-0.269 (0.126)*	0.157 (0.082)
	Rural: < 2,500 pop	-0.400 (0.099)**	-0.083 (0.009)**	0.022 (0.024)	-0.221 (0.052)**	-0.125 (0.021)**	-0.173 (0.014)**	0.180 (0.038)**	-0.271 (0.136)	-0.647 (0.164)**	-0.745 (0.103)**	-0.153 (0.148)
Grants	Public assistance	1.00e-04 (4.22e-05)*	4.10e-05 (-2.84e-05)	3.20e-05 (1.38e-05)*	-1.49e-05 (1.09e-05)	2.42e-05 (3.84e-05)	9.46e-05 (5.77e-05)	5.29e-06 (6.45e-05)	6.75E-06 (1.08e-04)	8.26e-05 (9.57e-05)	2.03e-04 (1.07e-04)	-2.79e-05 (1.49e-04)
	Hazard mitigation	-0.002 (0.002)	3.57e-04 (7.58e-04)	-6.21e-04 (3.68e-04)	-1.09e-04 (3.16e-04)	6.07e-04 (2.07e-04)*	-5.44e-04 (8.15e-04)	-0.002 (0.001)*	-0.002 (0.003)	-2.46e-04 (0.002)	-0.001 (0.001)	-0.004 (0.003)
Disaster	Hurricane max	-1.07e-04 (3.76e-05)*	-1.78e-05 (1.25e-05)	-6.16e-05 (2.00e-05)	4.85e-06 (3.44e-06)	-1.43e-05 (1.89e-05)	-2.23e-05 (1.66e-05)	4.22e-06 (3.74e-05)	-1.02e-04 (6.00e-05)	-1.42e-04 (1.88e-05)**	-1.40e-04 (2.03e-05)**	-1.06e-04 (1.01e-04)
	Tornado max	0.011 (0.006)	0.004 (0.003)	0.003 (0.008)	-0.017 (0.014)	0.001 (0.007)	0.016 (0.017)	0.004 (0.020)	-0.006 (0.024)	-0.026 (0.010)*	0.005 (0.028)	-0.009 (0.040)
State Context	Home rule county	0.043 (0.036)	-0.008 (0.007)	0.005 (0.011)	-0.015 (0.008)	0.025 (0.027)	0.051 (0.027)	-0.014 (0.011)	-0.009 (0.059)	0.030 (0.072)	0.098 (0.051)	-0.049 (0.043)
	Alabama	0.160 (0.047)*	0.065 (0.010)**	0.084 (0.016)**	0.035 (0.007)**	0.065 (0.006)**	0.059 (0.026)*	-0.147 (0.043)*	0.121 (0.074)	0.366 (0.033)**	0.363 (0.024)**	0.054 (0.101)
	Louisiana	0.088 (0.049)	0.024 (0.015)	0.120 (0.023)*	-0.005 (0.011)	-0.092 (0.014)**	0.025 (0.009)*	0.014 (0.024)	0.074 (0.069)	0.047 (0.053)	0.073 (0.027)*	0.231 (0.085)*
	Mississippi	-0.487 (0.050)**	0.092 (0.019)**	-0.107 (0.026)*	-0.013 (0.032)	-0.382 (0.041)**	0.016 (0.016)	-0.094 (0.019)**	-0.604 (0.050)**	-1.003 (0.091)**	-0.727 (0.063)**	-0.183 (0.083)
	Texas	-0.212 (0.018)**	-0.031 (0.007)**	0.023 (0.011)	-0.050 (0.005)**	-0.267 (0.008)**	0.038 (0.015)*	0.074 (0.013)**	-0.300 (0.032)**	-0.586 (0.028)**	-0.382 (0.007)**	0.025 (0.033)
	Constant	3.370 (0.041)**	0.731 (0.016)**	0.476 (0.034)**	0.609 (0.023)**	0.684 (0.026)**	0.266 (0.009)**	0.605 (0.010)**	3.726 (0.039)**	3.537 (0.065)**	3.051 (0.060)**	3.630 (0.052)**
	N	75	75	75	75	75	75	75	75	75	75	75
	R ²	0.48	0.37	0.58	0.59	0.60	0.48	0.58	0.55	0.58	0.55	0.58

Notes: Ordinary least square regression analyses conducted; observations are clustered by state. Coefficients reported with robust standard errors in parentheses. Significance denoted as: * p≤0.05 (one-tailed test); ** p≤0.01 (one-tailed test). Significant variables also in bold.

Citation:

Ross, Ashley. *Local Disaster Resilience: Administrative and Political Perspectives*. New York: Routledge, 2014.