Analyses 1, 4, 7:
Atlantic coastal counties (bordering the ocean, ie 1st degree) versus Inland Counties (including all counties bordering non-ocean bodies of water).
Pacific coastal counties (bordering the ocean, ie 1st degree) versus Inland Counties (including all counties bordering non-ocean bodies of water).
Gulf coastal counties (bordering the ocean, ie 1st degree) versus Inland Counties (including all counties bordering non-ocean bodies of water).

	Cases (All)		
Predictors	*Incidence Rate Ratios*	*CI*	*p*
(Intercept)	0.092	0.083 – 0.102	**<0.001**
regionatlantic	1.226	1.077 – 1.394	**0.002**
regiongulf of mexico	0.893	0.805 – 0.990	**0.032**
regionpacific	0.951	0.790 – 1.145	0.594
scale(popdensity)	1.002	0.982 – 1.022	0.868
scale(poverty)	0.971	0.891 – 1.058	0.500
scale(log(median_income))	0.890	0.807 – 0.982	**0.020**
scale(pct_obesity)	0.950	0.872 – 1.035	0.242
scale(voter_margin_2020)	1.155	1.064 – 1.253	**0.001**
scale(median_age)	0.895	0.859 – 0.933	**<0.001**
factor(party)Republican	0.972	0.869 – 1.088	0.625
scale(mean_pm25)	1.037	0.997 – 1.079	0.068
scale(mean_summer_rm)	1.057	0.994 – 1.123	0.079
scale(mean_winter_rm)	0.906	0.848 – 0.967	**0.003**
Observations	571		

	Deaths (All)		
Predictors	*Incidence Rate Ratios*	*CI*	*p*
(Intercept)	0.002	0.001 – 0.002	**<0.001**
regionatlantic	1.221	1.063 – 1.402	**0.005**
regiongulf of mexico	0.930	0.833 – 1.038	0.198
regionpacific	0.846	0.698 – 1.024	0.085
scale(popdensity)	1.017	0.971 – 1.065	0.475
scale(poverty)	1.308	1.092 – 1.566	**0.004**
scale(log(median_income))	1.107	0.928 – 1.321	0.259
scale(pct_obesity)	1.052	0.996 – 1.111	0.071
scale(voter_margin_2020)	1.122	1.020 – 1.235	**0.018**
scale(median_age)	1.219	1.138 – 1.305	**<0.001**
factor(party)Republican	0.888	0.789 – 1.000	0.051
scale(mean_pm25)	1.058	1.001 – 1.118	**0.046**
scale(mean_summer_rm)	1.111	0.992 – 1.244	0.067
scale(mean_winter_rm)	0.832	0.756 – 0.917	**<0.001**
Observations	571		

Analysis 2, 5, 8:

Atlantic urban coastal counties (bordering the ocean, ie 1st degree) versus Inland urban Counties (including all counties bordering non-ocean bodies of water).

Pacific urban coastal counties (bordering the ocean, ie 1st degree) versus Inland urban Counties (including all counties bordering non-ocean bodies of water).

Gulf urban coastal counties (bordering the ocean, ie 1st degree) versus Inland urban Counties (including all counties bordering non-ocean bodies of water).

	Cases (Urban)		
Predictors	*Incidence Rate Ratios*	*CI*	*p*
(Intercept)	0.087	0.081 – 0.093	**<0.001**
regionatlantic	1.087	0.927 – 1.275	0.303
regiongulf of mexico	0.877	0.750 – 1.026	0.100
regionpacific	0.845	0.673 – 1.061	0.148
scale(popdensity)	0.969	0.928 – 1.011	0.148
scale(poverty)	1.000	0.923 – 1.083	0.994
scale(log(median_income))	0.947	0.889 – 1.008	0.088
scale(pct_obesity)	1.030	0.970 – 1.094	0.336
scale(voter_margin_2020)	1.143	1.097 – 1.191	**<0.001**
scale(median_age)	0.974	0.910 – 1.042	0.437
factor(party)Republican	1.097	0.869 – 1.385	0.436
scale(mean_pm25)	1.028	0.956 – 1.107	0.453
scale(mean_summer_rm)	0.967	0.940 – 0.995	**0.020**
scale(mean_winter_rm)	0.887	0.845 – 0.931	**<0.001**
Observations	59		

	Deaths (Urban)		
Predictors	*Incidence Rate Ratios*	*CI*	*p*
(Intercept)	0.002	0.002 – 0.002	**<0.001**
regionatlantic	1.141	0.885 – 1.473	0.309
regiongulf of mexico	0.971	0.711 – 1.326	0.854
regionpacific	0.660	0.478 – 0.913	**0.012**
scale(popdensity)	1.018	0.945 – 1.098	0.634
scale(poverty)	1.180	0.988 – 1.409	0.068
scale(log(median_income))	1.102	0.886 – 1.372	0.382
scale(pct_obesity)	1.088	0.943 – 1.256	0.246
scale(voter_margin_2020)	1.126	1.049 – 1.209	**0.001**
scale(median_age)	1.252	1.140 – 1.375	**<0.001**
factor(party)Republican	0.959	0.645 – 1.425	0.836
scale(mean_pm25)	1.019	0.862 – 1.205	0.823
scale(mean_summer_rm)	0.925	0.840 – 1.017	0.108
scale(mean_winter_rm)	0.832	0.764 – 0.906	**<0.001**
Observations	59		

Analysis 3, 6, 9:

Atlantic rural coastal counties (bordering the ocean, ie 1st degree) versus Inland rural Counties (including all counties bordering non-ocean bodies of water).

Pacific rural coastal counties (bordering the ocean, ie 1st degree) versus Inland rural Counties (including all counties bordering non-ocean bodies of water).

Gulf rural coastal counties (bordering the ocean, ie 1st degree) versus Inland rural Counties (including all counties bordering non-ocean bodies of water).

	Cases (Rural)		
Predictors	*Incidence Rate Ratios*	*CI*	*p*
(Intercept)	0.093	0.086 – 0.100	**<0.001**
regionatlantic	1.228	1.078 – 1.399	**0.002**
regiongulf of mexico	0.976	0.881 – 1.083	0.651
regionpacific	0.828	0.646 – 1.060	0.134
scale(popdensity)	1.046	1.001 – 1.092	**0.044**
scale(poverty)	1.022	0.935 – 1.118	0.633
scale(log(median_income))	0.934	0.878 – 0.994	**0.032**
scale(pct_obesity)	0.967	0.892 – 1.049	0.423
scale(voter_margin_2020)	1.188	1.115 – 1.266	**<0.001**
scale(median_age)	0.880	0.841 – 0.921	**<0.001**
factor(party)Republican	0.960	0.884 – 1.042	0.326
scale(mean_pm25)	0.997	0.961 – 1.034	0.859
scale(mean_summer_rm)	0.998	0.932 – 1.068	0.950
scale(mean_winter_rm)	0.947	0.895 – 1.003	0.062
Observations	512		

	Deaths (Rural)		
Predictors	*Incidence Rate Ratios*	*CI*	*p*
(Intercept)	0.002	0.002 – 0.002	**<0.001**
regionatlantic	1.198	1.051 – 1.367	**0.007**
regiongulf of mexico	1.040	0.856 – 1.263	0.694
regionpacific	0.714	0.596 – 0.855	**<0.001**
scale(popdensity)	1.036	0.988 – 1.086	0.150
scale(poverty)	1.390	1.202 – 1.609	**<0.001**
scale(log(median_income))	1.139	1.010 – 1.284	**0.033**
scale(pct_obesity)	1.079	1.035 – 1.125	**<0.001**
scale(voter_margin_2020)	1.176	1.084 – 1.276	**<0.001**
scale(median_age)	1.169	1.074 – 1.274	**<0.001**
factor(party)Republican	0.850	0.745 – 0.971	**0.016**
scale(mean_pm25)	0.997	0.947 – 1.049	0.908
scale(mean_summer_rm)	1.033	0.932 – 1.146	0.537
scale(mean_winter_rm)	0.892	0.831 – 0.959	**0.002**
Observations	512		