test

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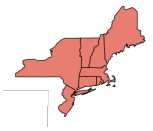
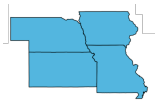
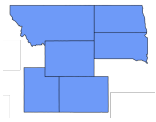
Contents

Table 1: Table T1: Variable Descriptions. * = dependent variable

Variables	Description	Data Source
Socioeconomic Status	Index which represents income, poverty, employment, and education.	Social Vulnerability Indices (SVI) taken from the US Census agency for toxic substances and disease registry (ATSDR)
Household Composition and Disability	Index with represents age, single parenting, and disability.	
Minority Status	Index which represents race and ethnicity.	
Housing Type and Transportation	Index which represents housing structure, crowding and vehicle access.	
Obesity	Number of people who are obese, at a county level.	University of Wisconsin's Population Health Institute
Unemployment	Number of unemployed adults per county.	
Uninsured Adults	Number of uninsured adults per county.	
Social Associations	Number of people who are members of a social organization (churches, clubs, etc).	
Diabetes	Number of people with diabetes at a county level.	
Food Insecurity	Index indicating the relative level of food insecurity in a county.	
Broadband Access	Number of people without broadband access.	
Population Density	Population density at a county level.	2020 US Census
Population Age 65+	Number of people age 65 or older in a county.	
Democratic Voting Percentage	Represents voting outcomes from the 2020 presidential general election.	Massachusettes Institute of Technology's (MIT) Election Lab
Vaccination Rate	CDC data for two dose vaccination rates at a county level, ending in April 1, 2022.	US Centers for Disease Control (CDC)
Population adjusted COVID-19 deaths*	Population-adjusted COVID-19 deaths per county.	

Regions	Alpha	AlphaR2	Delta	DeltaR2	Omicron	OmicronR2	Map
Regions 1-2	Housing Type, Food Insecurity, Population Density, Minority Status	0.4	Household Composition	0.59	Household Composition, Unemployment, Food Insecurity, Obesity, Voting	0.48	
Region 3	Socioeconomics, Diabetes, Voting, Vaccination Rate	0.69	Household Composition, Unemployment, Food Insecurity, Voting	0.7	Diabetes, Voting	0.54	
Region 4	Broadband Access, Obesity, Vaccination Rate	0.31	Socioeconomics, Unemployment, Obesity, Vaccination Rate	0.23	Broadband Access, Population Density, Social Associations, Voting	0.14	
Region 5	Socioeconomics, Food Insecurity, Social Associations, Voting, Vaccination Rate	0.22	Socioeconomics, Unemployment, Broadband Access, Diabetes, Obesity, Population Density, Voting, Minority Status	0.51	Socioeconomics, Food Insecurity, Diabetes, Social Associations, Minority Status	0.3	
Region 6	Household Composition, Food Insecurity, Social Associations	0.33	Household Composition, Population Density, Voting, Vaccination Rate	0.17	Socioeconomics, Household Composition, Broadband Access, Obesity, Social Associations, Minority Status	0.3	
Region 7	Household Composition, Social Associations, Voting	0.18	Unemployment, Diabetes, Vaccination Rate, Minority Status	0.41	Unemployment, Broadband Access, Diabetes, Obesity, Minority Status	0.4	
Region 8	Housing Type, Unemployment, Broadband Access, Diabetes, Voting, Vaccination Rate	0.38	Housing Type, Food Insecurity, Diabetes, Population Density, Age over 65+, Voting	0.4	Diabetes, Population Density, Voting	0.26	
Region 9	Socioeconomics, Housing Type, Diabetes, Social Associations, Voting	0.39	Broadband Access, Population Density	0.52		0.34	
Region 10		0.74	Household Composition, Unemployment, Population Density, Social Associations, Voting	0.41	Socioeconomics, Food Insecurity, Broadband Access, Voting	0.49	