

Tables testing

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Table 1:

	Source	Years	Interpolated
Socioeconomic			
Population with a college degree, %	Census/ACS	2000, 2010, 2015	
Population below poverty line, %	SAIPE	2000, 2010, 2015	
Transfers, as % of total personal income	BEA	2000, 2010, 2015	
Manufacturing, as % of total employment	BEA	2000, 2010, 2015	
Healthcare			
Active MDs per 1000	Area Health Resource File	2000, 2010, 2015	
Diabetic monitoring (% of Medicare enrollees, 65-75)	Dartmouth Atlas Project	2006-2014	X
Mammography screening (% of female Medicare enrollees, 67-69)	Dartmouth Atlas Project	2006-2014	X
Health behaviors and risk factors			
Smoking (cigarette smoking prevalence in adults aged 20 and older)	IHME time series (NHANES, BRFSS)	1996-2012	X
Obesity (% of adults aged 20 and older that report a BMI of 30 or more)	IHME time series (NHANES, BRFSS)	2004-2013	X
Alcohol use (% any drinking, heavy drinking, binge drinking)	IHME time series (NHANES, BRFSS)	2002-2012	X
Population composition			
Foreign-born population, %	Census/ACS	2000, 2010, 2015	
Black population, %	Census/ACS	2000, 2010, 2015	
Hispanic population, %	Census/ACS	2000, 2010, 2015	

Table 2: County-level allcause mortality rate (2000, 2010, 2015)

	1	2	3	4	5	6
Intercept	0	0	0	0	0	0
Male	-	-	-	-	-	-
Female	0.59	0.59	0.59	0.62	0.58	0.6
2000	-	-	-	-	-	-
2010	0.91	0.86	0.93	0.91	0.95	0.93
2015	0.94	0.91	0.95	0.94	1.01	1.02
Age group						
Age 25-29	-	-	-	-	-	-
Age 30-34	1.19	1.19	1.19	1.19	1.19	1.19
Age 35-39	1.56	1.56	1.56	1.56	1.56	1.56
Age 40-44	2.22	2.22	2.22	2.22	2.22	2.22
Age 45-49	3.36	3.36	3.36	3.36	3.36	3.36
Age 50-54	5.08	5.08	5.08	5.08	5.08	5.08
Age 55-59	7.59	7.58	7.58	7.59	7.58	7.58
Age 60-64	11.04	11.04	11.04	11.04	11.03	11.03
Metro						
Lg central metro	-	-	-	-	-	-
Lg fringe metro	0.89	0.89	0.87	0.87	0.83	0.82
Md/Sm metro	0.97	0.93	0.96	0.94	0.88	0.84
Nonmetro	1.05	0.92	1.01	0.97	0.92	0.82
Region						
Pacific	-	-	-	-	-	-
Appalachia	1.11	1.17	1.06	1.06	1.08	1.07
East South Central	1.07	1.2	1.05	1.04	1.03	1.08
Mountain	1.12	1.17	1.08	1.07	1.09	1.07
West South Central	1.04	1.17	1	1	1.04	1.06
New England	0.96	1.17	0.96	0.99	0.97	1.1
South Atlantic	1.1	1.2	1.05	1.08	1.05	1.1
East North Central	1.01	1.13	0.98	1.01	0.98	1.04
West North Central	1.03	1.13	1	0.99	1.01	1.03
Middle Atlantic	1.05	1.13	1.01	1.01	1.04	1.05
Contextual						
College	-	0.89	-	-	-	0.94
Poverty	-	1.03	-	-	-	1.02
Transfers	-	1.08	-	-	-	1.06
Manufacturing	-	0.97	-	-	-	0.99
Percent Black	-	-	-	-	1.08	1.04
Percent Hispanic	-	-	-	-	0.97	0.96
Percent 25-64	-	-	-	-	0.92	0.92
Percent Foreign-born	-	-	-	-	0.7	0.77
Net-mig/1000	-	-	-	-	0.98	0.99
Obesity	-	-	-	1.05	-	1.01
Heavy drinking	-	-	-	1	-	0.99
Smoking	-	-	-	1.09	-	1.05
MDs/pc	-	-	0.96	-	-	0.99
Mammography	-	-	0.92	-	-	0.96
Diabetes monitoring	-	-	0.92	-	-	0.95
Moran's I	-0.02	-0.01	-0.02	-0.01	-0.01	0
DIC	792145	789596	789321	788723	784402	781155
RMSE	0.00085	0.00085	0.00085	0.00084	0.00083	0.00083

Table 3: County-level drugs mortality rate (2000, 2010, 2015)

	1	2	3	4	5	6
Intercept	0	0	0	0	0	0
Male	-	-	-	-	-	-
Female	0.58	0.58	0.58	0.63	0.58	0.6
2000	-	-	-	-	-	-
2010	2.02	1.78	2.12	2.07	2.22	1.98
2015	2.81	2.46	2.93	2.89	3.33	2.94
Age group						
Age 25-29	-	-	-	-	-	-
Age 30-34	1.16	1.16	1.16	1.16	1.16	1.16
Age 35-39	1.26	1.26	1.26	1.26	1.26	1.26
Age 40-44	1.32	1.32	1.32	1.32	1.32	1.32
Age 45-49	1.4	1.4	1.4	1.4	1.4	1.4
Age 50-54	1.27	1.27	1.27	1.27	1.27	1.27
Age 55-59	1.02	1.02	1.02	1.02	1.01	1.01
Age 60-64	0.61	0.61	0.61	0.61	0.61	0.61
Metro						
Lg central metro	-	-	-	-	-	-
Lg fringe metro	0.85	0.97	0.81	0.83	0.66	0.74
Md/Sm metro	0.92	0.99	0.9	0.87	0.72	0.77
Nonmetro	0.86	0.92	0.79	0.77	0.64	0.66
Region						
Pacific	-	-	-	-	-	-
Appalachia	0.74	0.81	0.69	0.7	0.69	0.69
East South Central	0.66	0.71	0.64	0.64	0.64	0.67
Mountain	1.35	1.41	1.28	1.26	1.22	1.17
West South Central	0.74	0.81	0.68	0.69	0.7	0.69
New England	1.02	1.24	1.02	1.07	0.98	1.12
South Atlantic	0.59	0.6	0.55	0.58	0.61	0.61
East North Central	0.61	0.67	0.59	0.62	0.58	0.63
West North Central	0.67	0.75	0.64	0.63	0.62	0.64
Middle Atlantic	0.62	0.69	0.58	0.59	0.61	0.63
Contextual						
College	-	0.98	-	-	-	1.14
Poverty	-	1.17	-	-	-	1.2
Transfers	-	0.97	-	-	-	0.94
Manufacturing	-	0.87	-	-	-	0.89
Percent Black	-	-	-	-	0.9	0.82
Percent Hispanic	-	-	-	-	0.83	0.83
Percent 25-64	-	-	-	-	1.05	1.08
Percent Foreign-born	-	-	-	-	0.64	0.72
Net-mig/1000	-	-	-	-	0.9	0.91
Obesity	-	-	-	1.07	-	1.06
Heavy drinking	-	-	-	0.99	-	0.96
Smoking	-	-	-	1.14	-	1.11
MDs/pc	-	-	0.92	-	-	0.95
Mammography	-	-	0.82	-	-	0.88
Diabetes monitoring	-	-	0.81	-	-	0.88
Moran's I	-0.02	0	-0.01	-0.01	-0.01	0.01
DIC	310964	310453	310186	310503	309465	308257
RMSE	0.00017	0.00017	0.00017	0.00017	0.00017	0.00016

Table 4: County-level cardio mortality rate (2000, 2010, 2015)

	1	2	3	4	5	6
Intercept	0	0	0	0	0	0
Male	-	-	-	-	-	-
Female	0.46	0.46	0.46	0.45	0.45	0.44
2000	-	-	-	-	-	-
2010	0.8	0.75	0.81	0.75	0.82	0.75
2015	0.8	0.78	0.81	0.74	0.84	0.78
Age group						
Age 25-29	-	-	-	-	-	-
Age 30-34	1.88	1.88	1.88	1.88	1.88	1.88
Age 35-39	3.46	3.46	3.46	3.46	3.46	3.46
Age 40-44	6.52	6.51	6.52	6.52	6.52	6.52
Age 45-49	11.51	11.5	11.51	11.51	11.51	11.51
Age 50-54	19.1	19.1	19.1	19.11	19.11	19.1
Age 55-59	30.11	30.1	30.11	30.12	30.12	30.11
Age 60-64	45.84	45.83	45.84	45.85	45.84	45.83
Metro						
Lg central metro	-	-	-	-	-	-
Lg fringe metro	0.85	0.85	0.83	0.82	0.87	0.82
Md/Sm metro	0.95	0.89	0.94	0.9	0.93	0.85
Nonmetro	1.03	0.87	1	0.94	1	0.84
Region						
Pacific	-	-	-	-	-	-
Appalachia	1.25	1.34	1.21	1.2	1.24	1.26
East South Central	1.22	1.41	1.2	1.2	1.16	1.28
Mountain	1.21	1.28	1.18	1.17	1.2	1.21
West South Central	1.25	1.44	1.22	1.2	1.26	1.34
New England	0.94	1.18	0.94	1.01	0.96	1.14
South Atlantic	1.25	1.42	1.22	1.25	1.16	1.3
East North Central	1.15	1.32	1.13	1.17	1.11	1.24
West North Central	1.18	1.31	1.15	1.14	1.17	1.21
Middle Atlantic	1.14	1.25	1.11	1.1	1.12	1.17
Contextual						
College	-	0.88	-	-	-	0.93
Poverty	-	1.04	-	-	-	1.02
Transfers	-	1.12	-	-	-	1.09
Manufacturing	-	1	-	-	-	1
Percent Black	-	-	-	-	1.16	1.07
Percent Hispanic	-	-	-	-	1	0.96
Percent 25-64	-	-	-	-	0.95	0.94
Percent Foreign-born	-	-	-	-	0.75	0.84
Net-mig/1000	-	-	-	-	1	1
Obesity	-	-	-	1.12	-	1.07
Heavy drinking	-	-	-	0.96	-	0.96
Smoking	-	-	-	1.07	-	1.03
MDs/pc	-	-	0.97	-	-	1.01
Mammography	-	-	0.94	-	-	0.98
Diabetes monitoring	-	-	0.97	-	-	1
Moran's I	-0.04	-0.04	-0.04	-0.03	-0.04	-0.04
DIC	488803	488022	488541	487578	487572	486390
RMSE	0.00038	0.00038	0.00038	0.00038	0.00038	0.00038

Table 5: County-level lung mortality rate (2000, 2010, 2015)

	1	2	3	4	5	6
Intercept	0	0	0	0	0	0
Male	-	-	-	-	-	-
Female	0.74	0.74	0.74	0.87	0.74	0.83
2000	-	-	-	-	-	-
2010	0.81	0.78	0.81	0.85	0.85	0.86
2015	0.76	0.75	0.76	0.81	0.85	0.89
Age group						
Age 25-29	-	-	-	-	-	-
Age 30-34	1.55	1.55	1.55	1.55	1.55	1.55
Age 35-39	2.98	2.98	2.98	2.98	2.98	2.98
Age 40-44	7.07	7.06	7.07	7.07	7.07	7.06
Age 45-49	16.62	16.61	16.62	16.63	16.62	16.62
Age 50-54	37.15	37.13	37.15	37.16	37.15	37.14
Age 55-59	72.94	72.9	72.94	72.97	72.93	72.9
Age 60-64	125.46	125.38	125.45	125.52	125.4	125.34
Metro						
Lg central metro	-	-	-	-	-	-
Lg fringe metro	0.99	0.96	0.96	0.96	0.82	0.86
Md/Sm metro	1.09	1	1.07	1.02	0.89	0.87
Nonmetro	1.16	0.96	1.11	1.02	0.91	0.82
Region						
Pacific	-	-	-	-	-	-
Appalachia	1.01	1.06	0.97	0.94	0.97	0.99
East South Central	0.93	1.05	0.92	0.9	0.9	0.99
Mountain	1.12	1.15	1.08	0.98	1.05	1
West South Central	0.94	1.04	0.92	0.88	0.92	0.96
New England	0.8	1.03	0.8	0.83	0.8	0.97
South Atlantic	0.94	1.04	0.91	0.93	0.93	1.01
East North Central	0.88	0.99	0.86	0.89	0.84	0.96
West North Central	0.92	1.02	0.9	0.87	0.89	0.94
Middle Atlantic	0.95	1.03	0.92	0.9	0.94	0.99
Contextual						
College	-	0.8	-	-	-	0.89
Poverty	-	1.04	-	-	-	1.05
Transfers	-	1.07	-	-	-	1.06
Manufacturing	-	0.95	-	-	-	0.97
Percent Black	-	-	-	-	1.01	0.97
Percent Hispanic	-	-	-	-	0.93	0.93
Percent 25-64	-	-	-	-	1	0.98
Percent Foreign-born	-	-	-	-	0.58	0.72
Net-mig/1000	-	-	-	-	0.99	0.99
Obesity	-	-	-	1.06	-	1
Heavy drinking	-	-	-	1.02	-	1.01
Smoking	-	-	-	1.19	-	1.12
MDs/pc	-	-	0.95	-	-	1.02
Mammography	-	-	0.9	-	-	0.96
Diabetes monitoring	-	-	0.94	-	-	0.98
Moran's I	-0.03	-0.03	-0.03	-0.03	-0.02	-0.03
DIC	354355	353505	353945	352877	352541	351142
RMSE	0.00027	0.00027	0.00027	0.00027	0.00027	0.00027

Table 6: County-level suicide mortality rate (2000, 2010, 2015)

	1	2	3	4	5	6
Intercept	0	0	0	0	0	0
Male	-	-	-	-	-	-
Female	0.3	0.3	0.3	0.34	0.29	0.32
2000	-	-	-	-	-	-
2010	1.22	1.26	1.22	1.24	1.28	1.3
2015	1.32	1.37	1.31	1.3	1.43	1.41
Age group						
Age 25-29	-	-	-	-	-	-
Age 30-34	1.03	1.03	1.03	1.03	1.03	1.03
Age 35-39	1.11	1.11	1.11	1.11	1.11	1.11
Age 40-44	1.19	1.19	1.19	1.19	1.19	1.19
Age 45-49	1.28	1.28	1.28	1.28	1.28	1.28
Age 50-54	1.32	1.32	1.32	1.32	1.32	1.32
Age 55-59	1.26	1.26	1.26	1.26	1.25	1.25
Age 60-64	1.06	1.05	1.05	1.05	1.05	1.05
Metro						
Lg central metro	-	-	-	-	-	-
Lg fringe metro	1.1	1.04	1.09	1.1	0.93	0.95
Md/Sm metro	1.16	1.1	1.16	1.14	0.98	0.98
Nonmetro	1.21	1.13	1.18	1.17	1	0.96
Region						
Pacific	-	-	-	-	-	-
Appalachia	1.17	1.14	1.14	1.08	1.07	1.03
East South Central	1.05	1.05	1.04	0.99	1.01	0.99
Mountain	1.47	1.45	1.45	1.37	1.38	1.34
West South Central	1.07	1.05	1.05	0.99	1	0.97
New England	1.11	1.15	1.1	1.05	1.05	1.06
South Atlantic	1.03	1.03	1.01	0.96	1.01	0.98
East North Central	1.03	1.02	1.01	0.97	0.96	0.95
West North Central	1.07	1.05	1.05	0.99	0.98	0.95
Middle Atlantic	1.02	1	0.99	0.97	0.97	0.95
Contextual						
College	-	0.91	-	-	-	0.93
Poverty	-	0.95	-	-	-	0.98
Transfers	-	1.02	-	-	-	1.03
Manufacturing	-	0.97	-	-	-	0.98
Percent Black	-	-	-	-	0.92	0.9
Percent Hispanic	-	-	-	-	0.91	0.91
Percent 25-64	-	-	-	-	0.97	0.95
Percent Foreign-born	-	-	-	-	0.77	0.86
Net-mig/1000	-	-	-	-	0.98	0.98
Obesity	-	-	-	1	-	0.98
Heavy drinking	-	-	-	1.1	-	1.08
Smoking	-	-	-	1.07	-	1.04
MDs/pc	-	-	0.98	-	-	1.03
Mammography	-	-	0.92	-	-	0.95
Diabetes monitoring	-	-	0.99	-	-	1.01
Model fit						
Moran's I	-0.02	-0.02	-0.02	-0.02	0	0
DIC	287644	287608	287555	287447	287303	287123
RMSE	0.00015	0.00015	0.00015	0.00015	0.00015	0.00015