

**S3 Table. Results of county-level analyses using general linear mixed modeling to quantify associations between the incidence of Lyme disease with six racial/ethnic and socioeconomic variables (socioeconomic variables) and two ecological variables.**

Variable	Univariable models			Multivariable model		Multivariable model with ecology	
	Coefficient, SE	P value	R <sup>2</sup> value of model	Coefficient, SE	P value	Coefficient, SE	P value
Percent of housing units vacant	0.1766, 0.0279	<0.0001	0.8379	0.2246, 0.0287	<0.0001	0.2040, 0.0291	<0.0001
Percent of population living below the poverty line	-0.1701, 0.0386	<0.0001	0.8293				
Percent of population classified as white non-Hispanic	0.2318, 0.0404	<0.0001	0.8372	0.2371, 0.0405	<0.0001	0.1694, 0.0420	<0.0001
Percent of population with a bachelors degree or higher	0.1749, 0.0286	<0.0001	0.8269	0.2557, 0.0287	<0.0001	0.2622, 0.0283	<0.0001
Percent of population unemployed	-0.0614, 0.0478	0.1990	0.8343				
Per capita number of property crimes	-0.0999, 0.0333	0.0027	0.8362				
Density of white-tailed deer						0.2087, 0.0365	<0.0001
Percent cover of forests						0.1978, 0.0452	<0.0001
<b>Conditional estimated R<sup>2</sup> value of model</b>				0.8302		0.8364	

	Not included in model
	Included but not significant in final (reduced) model