

Validating a Bayesian Spatio-Temporal Model to Predict La Crosse Virus Human Incidence in the Appalachian Mountain Region, USA

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Table S1: Forecasting Model Mean Square Prediction Error of Leave-One-Out Prediction Validation and Counties with Highest Error, by Year

Year	Mean Square Prediction Error (Cases ²)	Counties with Error ≥ 2 Count
2010	0.4424	Forsyth, NC; Forsyth, GA; Buncombe, NC; Holmes, OH; Tuscarawa, OH; Kanawha, WV; Swain, NC; Transylvania, NC
2011	0.6203	Forsyth, NC; Forsyth, GA; Buncombe, NC; Knox, TN; Raleigh, WV; Transylvania, NC; Mercer, WV; Ross, OH; Muskingum, OH; Macon, NC;
2012	0.5704	Forsyth, NC; Forsyth, GA; Buncombe, NC; Knox, TN; Transylvania, NC
2013	0.2686	Forsyth, NC; Forsyth, GA; Knox, TN; Claiborne, TN; Raleigh, WV; Jackson, NC
2014	0.4095	Forsyth, NC; Forsyth, GA; Buncombe, NC; Jackson, NC; Knox, TN; Coshocton, OH; Muskingum, OH; Holmes, OH
2015	0.1753	Forsyth, NC; Forsyth, GA; Transylvania, NC; Knox, TN
2016	0.1050	Forsyth, NC; Forsyth, GA
2017	0.4035	Forsyth, NC; Forsyth, GA; Buncombe, NC; Jackson, NC; Cocke, TN; Grainger, TN; Knox, TN
2018	0.3751	Forsyth, NC; Forsyth, GA; Buncombe, NC; Knox, TN; Transylvania, NC; Haywood, NC; Jackson, NC; Raleigh, WV; Hocking, OH
2019	0.1628	Forsyth, NC; Knox, TN
2020	0.3725	Forsyth, NC; Holmes, OH; Jackson, NC; Buncombe, NC; Knox, TN; Transylvania, TN; Jefferson, TN
2021	0.0986	Forsyth, NC; Forsyth, GA

Table S2: Forecasting Model Mean Square Prediction Error and Counties with Highest Error, by Year

Year	Mean Square Prediction Error (Cases ²)	Counties with Error > 2 Count
2015	0.2759	Forsyth, NC; Forsyth, GA; Transylvania, NC; Knox, TN
2016	0.0740	Buncombe, NC
2017	0.3918	Buncombe, NC; Jackson, NC; Cocke, TN; Grainger, TN; Knox, TN
2018	0.3607	Forsyth, NC; Buncombe, NC; Knox, TN; Transylvania, NC; Haywood, NC; Jackson, NC; Raleigh, WV; Hocking, OH
2019	0.1553	Forsyth, NC; Knox, TN
2020	0.3715	Forsyth, NC; Holmes, OH; Jackson, NC; Buncombe, NC; Knox, TN; Jefferson, TN; Transylvania, NC
2021	0.0986	Forsyth, NC; Forsyth, GA

Figure S1: 95% Highest Posterior Distribution Lower and Upper Bounds for 2021 Predictions

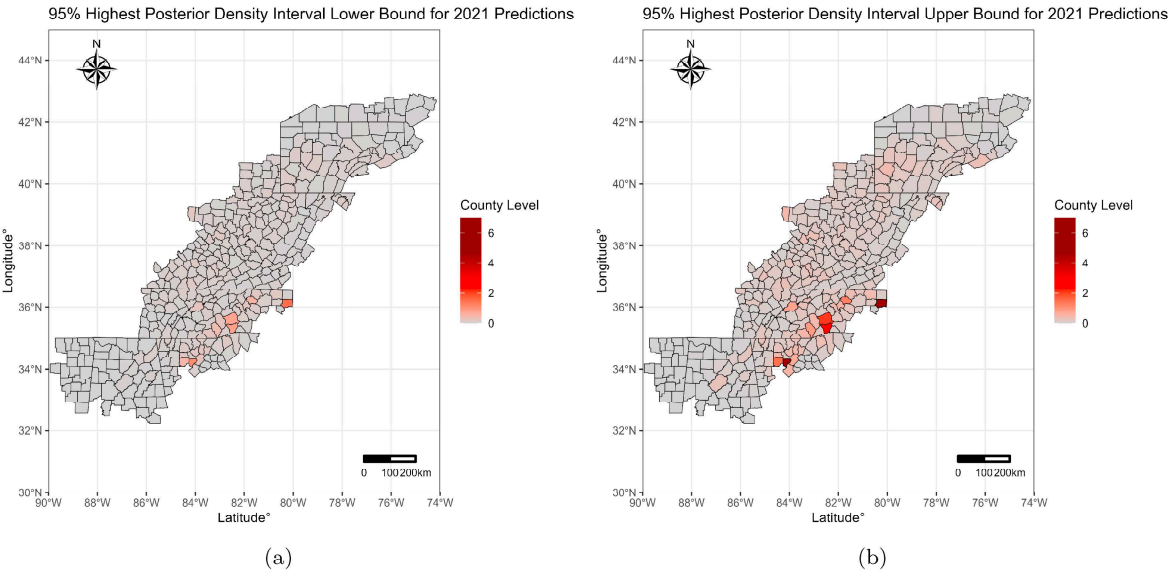


Figure S2: Observed Case Counts, by Year

