## West Nile virus forecast model submission form Email completed form to vbd-predict@cdc.gov

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Team name		
Kernel of Truth		
Team leader		
Name	Institution	Email
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Other team members		
Name	Institution	Email
Model description Provide a brief summary of the model methods with sufficient detail for another modeler to understand the approach being applied. If multiple models are used, describe each model and how they were combined.  We use a zero-inflated Poisson regression model where the probability of the Poisson component is obtained as inverse-logit{population * spline(latitude, longitude)} and the mean of the Poisson distribution is population * exp{spline(latitude, longitude)}. In both cases, a tensor product B-spline basis is used with 15 evenly spaced knots for each of latitude and longitude; the spline coefficients are separate for each component. In our first submission, no information specific to this year is used other than population.		
Variables List each variable used and its temporal relation	nshin to the forecast. If multiple models are used	specify which enter into each model
List each variable used and its temporal relationship to the forecast. If multiple models are used, specify which enter into each model.  1. Latitude and longitude; not year-specific		
	n jeur speeme	
2. County population; 2019		
3.		

4.		
5.		
6.		
7.		
8.		
9.		
10.		
Computational resources  Describe the programming languages and software tools that were used to write and execute the forecasts.		
Python and tensorflow probability.		
Publications		
Note whether the model was derived from previously published work and, if so, provide references.		
Participation agreement		
By submitting these forecasts, the team agrees to abide by the project rules and data use		
agreements.		
Team lead name Date		
Evan Lowell Pay 2020-04-30		