

**Supplementary Table S1** Selection of the best monthly cattle rabies outbreaks time series model. Columns indicate the type of model (models): full or the backward elimination round. The Akaike Information Criterion (AIC) is a model selection criterion which is minimized by the best model. The AIC for the best models of each selection round are **bolded**. o and x indicate, respectively, the presence or absence of a variable in a model. Temp is an abbreviation for temperature. Time lags are in months.

Models	Intercept	Covariates (Lag)						AIC
		Autoregressive (3)	Temp (17)	Temp (4)	Rain(16)	Rain (11)	Rain (3)	
Full	o	o	o	o	o	o	o	<b>590.29</b>
	o	o	o	o	o	o	x	589.36
1st Round	o	o	o	o	o	x	o	<b>588.30</b>
	o	o	o	o	x	o	o	589.81
	o	o	o	x	o	o	o	588.72
	o	o	x	o	o	o	o	596.06
	o	o	o	o	o	x	x	587.41
2nd Round	o	o	o	o	x	x	o	587.96
	o	o	o	x	o	x	o	<b>586.72</b>
	o	o	x	o	o	x	o	595.26
3rd Round	o	o	o	x	o	x	x	585.66
	o	o	o	x	x	x	o	587.44
	o	o	x	x	o	x	o	597.98
	o	o	o	x	x	x	x	<b>592.77</b>
	o	o	x	x	o	x	x	596.21