Additional file 7: Comparison of spatial transmission kernel estimates used in articles studying between-farm transmission.

Spatial kernel $\mathit{K}(d_{ij})$	Reference	Parameters	
Pareto distribution $(1, 0 \le d_{ij} \le x_{min})$			$\alpha = -0.358$ $(-0.666, -0.159)$
$\begin{cases} 1, & 0 \le d_{ij} < x_{min} \\ \left(\frac{x_{min}}{d_{ij}}\right)^{\alpha}, d_{ij} \ge x_{min} \end{cases}$	Hill et al. [42, 43]	$x_{min} = 0.1 \text{ km}$	$\alpha = 0.0136$ $(-0.122, 0.143)$
Power-law $ \left(\frac{\delta}{d_{ij}} \right)^{\rho} $	Rorres et al. [51]	$\delta = 1.529 \times 10^{-5} \text{ km}$	ρ = 2.2
	Rorres et al. [52]	$\delta = 9.334 \times 10^{-5} \text{ km}$	ρ = 2.5
	Pelletier et al. [46]	$\delta = 5.899 \times 10^{-5} \text{ km}$	$\rho = 2.009$
Logistic expression $\frac{1}{1 + \left(\frac{d_{ij}}{r_0}\right)^{\alpha}}$	Boender et al. [67]; Backer et al. [70]	$r_0 = 1.9 \text{ km}$ (1.1, 2.9)	$\alpha = 2.1$ (1.8, 2.4)
	Dorigatti et al. [62]	$r_0 = 3.160 \text{ km}$ (1.770, 4.549)	$\alpha = 2.192$ (1.894, 2.490)
	Bonney et al. [53]	$r_0 = 7.02 \text{ km}$ (3.07, 16.16)	$\alpha = 2.46$ (1.80, 4.38)
	Salvador et al. [57]	$r_0 = 3.4 \text{ km}$ $(1.001, 10.0)$	$\alpha = 1.4$ (1.001, 5.0)

For estimated parameter values, the mean and 95% confidence or credible interval (when reported) are indicated.