



Figure S1. The range of deposition values resulted from the 18 scenarios with independently varying input parameter values. This excludes the emitting farms. The parameters combinations included 1) emission quantity, i.e. the particle concentration at source farms (n=3; 100, 1000, 10000 particles), 2) model duration which is a proxy for pathogen survival (n=3; 12h, 24h, 36h), and 3) takeoff/emission height (n=2; 0.5 and 4 m-AGL). This summarization depicts the optimum parameter combinations that results in highest deposition on the terrain.