

Supplementary Figure S1. Influence of low-level immigration on population trajectories of a free-ranging dog population.

Population trajectories projected over 10 years under annual removal rates of 30, 35, 40, 45, and 50 adult dogs. Solid lines indicate simulations assuming a closed population, whereas dashed lines indicate simulations incorporating immigration of one adult dog per month. Even low-level immigration substantially reduced the effectiveness of capture: annual removal of 35–40 adult dogs was insufficient to control the population, whereas removal of 45–50 adult dogs suppressed the population to near zero in only about half of the simulations. Eradication was therefore not reliably attained under the immigration scenario.

Comparison of adult dog population trends: Impact of immigration

Solid line: Median, Band: 90% interval

