Food subsidies for pest animals? An outdoor piggery study

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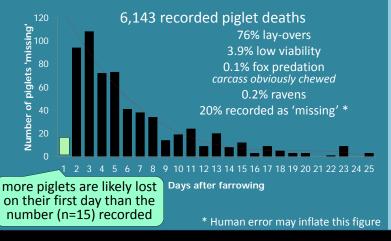
Many carnivore species readily exploit high-energy anthropogenic food sources, leading to subsidised predator populations.

Where are the problem sites?

Using remote sensing cameras, we examined fox activity at an outdoor piggery to identify the level of threat posed by fox predation to piglets. We recorded a focus of fox activity around the farm carcass pit, where up to five individuals were present in one image, but foxes were also present around farrowing huts.



Are piglets more vulnerable at a particular life stage? Although few piglets recorded as lost to fox predation, foxes are likely contributing to the 20% of piglets born that are later reported 'missing'. Newborn and young piglets are the most vulnerable, especially when they are born in the paddock (rather than houses provided for sows).



Does predation risk vary between sows, no effect of parity Effect on weaning rate no effect of distance Fixed (covariate) 0.37 ns to vegetation or Paddock ID ns 1.00 proximity to Dist. to vegetation Fixed (covariate) 0.06 ns paddocks sows with few piglets born (i.e. sows weaned piglets lost fewer piglets before than were recorded) born

Where do foxes take food (can we locate dens)? GPS trackers on 32 piglet carcasses
• 9 removed by foxes



Improving predator control on outdoor piggeries:

Managing offal pits needed: covering the pig carcass pit, or fencing it to keep out foxes

Removing hay from paddocks (reduce paddock

farrowing

Drawing attention to the behaviour of predators in outdoor/free-range piggeries will increase focus on predator control to improve outdoor production figures for the Australian pork industry.













by fox through dry

sow paddocks