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## Supplementary material

### Development of known-fate survival monitoring techniques for juvenile wild pigs (*Sus scrofa*)

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**Table S1. Basic descriptions of previous published studies estimating piglet (*Sus scrofa*) survival rates, 2016**

Reference	Population type; Country	Method
Jezienski 1977	Wild boar; Poland	Comparison of number of lactating teats on captured female versus number of piglets captured with female
Barrett 1978	Wild pigs; USA	Long-term visual observation
Singer and Ackerman 1981	Wild pigs, USA	Comparison of observed piglet number versus average pre-natal litter sizes from culled animals
Baubet <i>et al.</i> 1985	Wild boar; France	Capture-mark-recapture
Baber and Coblenz 1986	Wild pigs; USA	Comparison of observed piglet number versus average pre-natal litter sizes from culled animals
Toïgo <i>et al.</i> 2009	Wild boar; France	Capture-mark-recapture and harvest
Hanson <i>et al.</i> 2009	Wild pigs; USA	Capture-mark-recapture/resight, and harvest
Baubet <i>et al.</i> 2009	Wild boar; France	Known-fate using telemetry; unsuccessful due to poor transmitter retention

## References

- Baber, D. W., and Coblenz, B. E. (1986). Home range, habitat use, and reproduction in feral pigs on Santa Catalina Island. *Journal of Mammalogy* **67**, 512–525. doi:10.2307/1381283
- Barrett, R. H. (1978). Feral hog at Dye Creek Ranch, California. *Hilgardia* **46**, 283–355. doi:10.3733/hilg.v46n09p283
- Baubet, E., Van Laere, G., and Gaillard, J. M. (1995). Growth and survival in piglets. *Ibex Journal of Mountain Ecology* **3**, 71.
- Baubet, E., Servanty, S., and Brandt, S. (2009). Tagging piglets at the farrowing nest in the wild: some preliminary guidelines. *Acta Silvatica & Lignaria Hungarica* **5**, 159–166.
- Hanson, L. B., Mitchell, M. S., Grand, J. B., Jolley, D. B., Sparklin, B. D., and Ditchkoff, S. S. (2009). Effect of experimental manipulation on survival and recruitment of feral pigs. *Wildlife Research* **36**, 185–191. doi:10.1071/WR08077
- Jezienski, W. (1977). Longevity and mortality rate in a population of wild boar. *Acta Theriologica* **22**, 337–348. doi:10.4098/AT.arch.77-31
- Singer, F. J., and Ackerman, B. B. (1981). Food availability, reproduction and condition of European wild boar in Great Smoky Mountains National Park. U.S. Department of Interior, National Park Service, NPS. Research/Resource Management Report 43:52.
- Toïgo, C., Servanty, S., Gaillard, J.-M., Brandt, S., and Baubet, E. (2008). Disentangling natural from hunting mortality in an intensively hunted wild boar population. *The Journal of Wildlife Management* **72**, 1532–1539.