*Supplementary material for the publication:*

**Intensive professional vehicle-based shooting provides local control of invasive rusa deer in a peri-urban landscape.**

RH: Peri-urban rusa deer management

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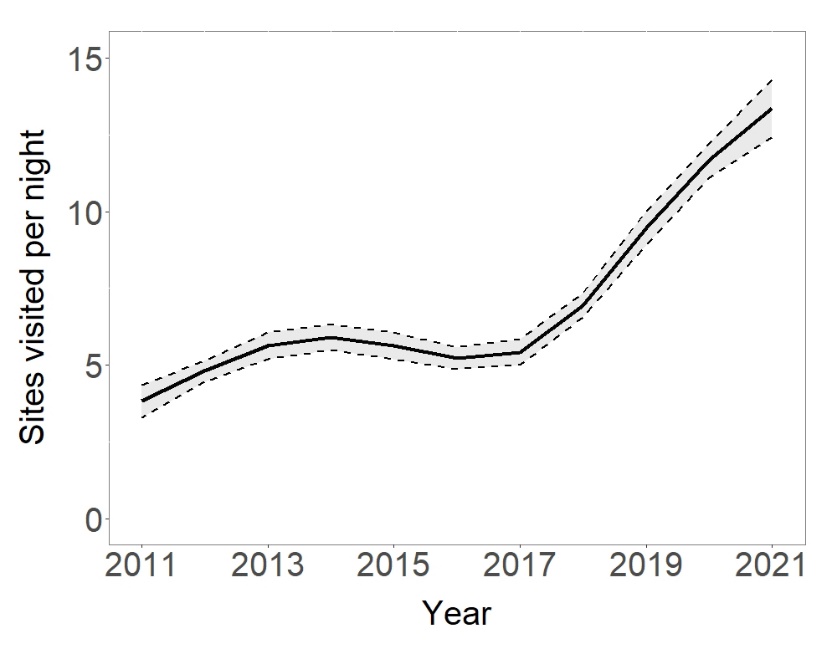
HCorresponding author. Email: [sebastien.comte@dpi.nsw.gov.au](mailto:sebastien.comte@dpi.nsw.gov.au)

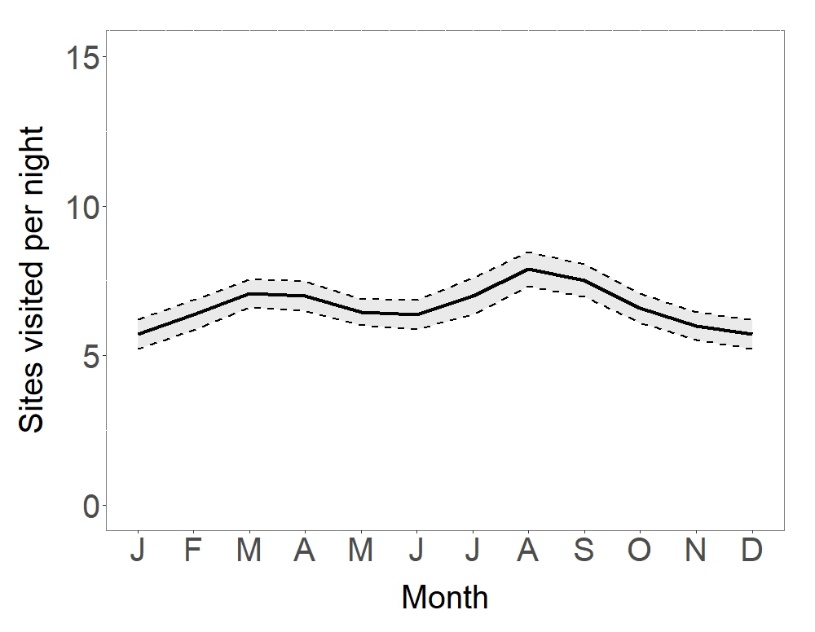
**Appendix I: Cost-effectiveness of vehicle-based shooting**

**Table S1: Effectiveness of the six teams of professional vehicle-based shooters during the Illawarra Wild Deer Management Program in Wollongong LGA, eastern Australia, 2011–2021.**

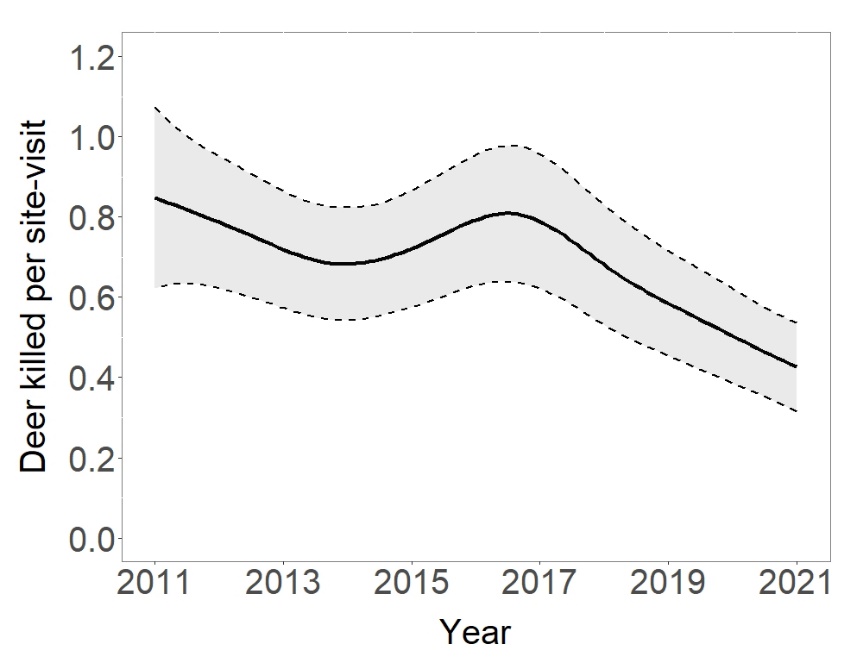
|  |  |  |  |
| --- | --- | --- | --- |
| **Teams of shooters** | **Years** | **Number of nights** | **Deer killed per night  (95% confidence intervals)** |
| A | 2011–2016 | 228 | 5.6 (4.9–6.4) |
| B | 2012–2014 | 65 | 3.9 (3.2–4.6) |
| C | 2014–2015 | 24 | 5.9 (4.6–7.2) |
| D | 2016–2017 | 98 | 7.1 (6.3–7.9) |
| E | 2017–2022 | 249 | 5.3 (4.7–5.8) |
| F | 2018–2022 | 182 | 5.5 (4.8–6.1) |

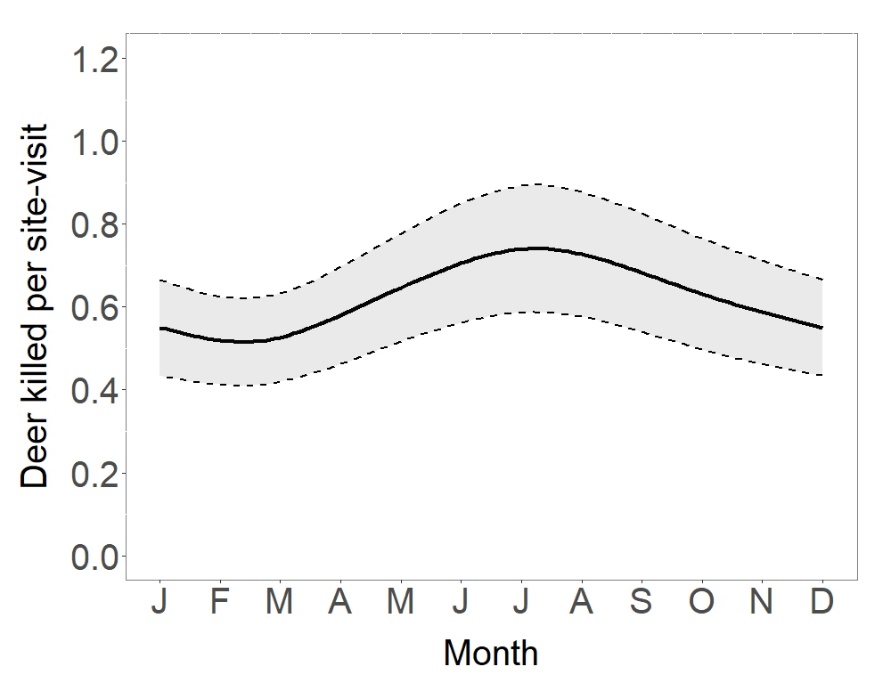
**Figure S1: Modelled annual and monthly number of shooting sites visited per night of professional vehicle-based shooting of rusa deer during the Illawarra Wild Deer Management Program in Wollongong LGA, eastern Australia, 2011–2021. Model outputs are means (solid lines) and 95% confidence intervals (grey). Years start in May and end in April.**





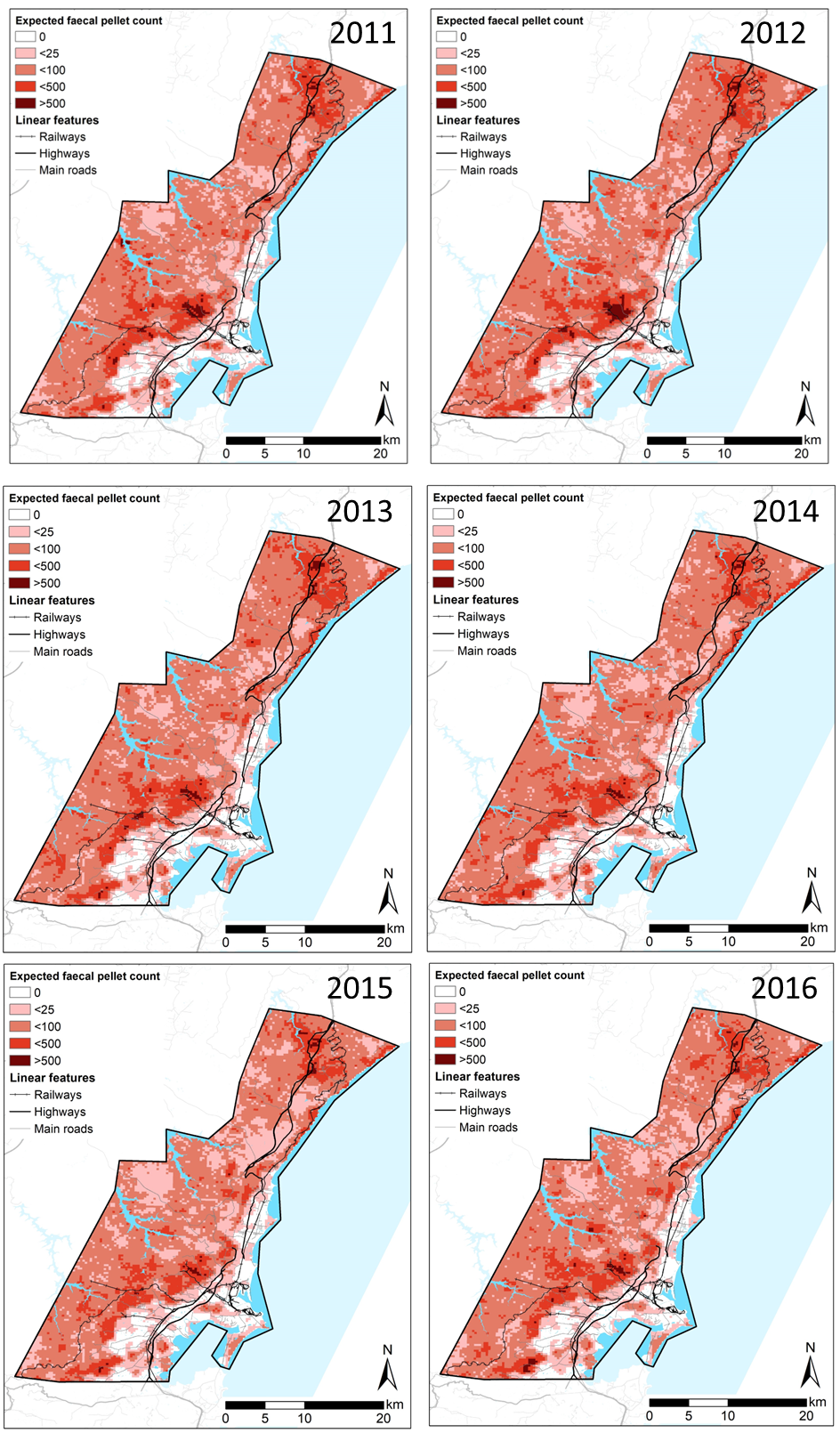
**Figure S2: Expected annual and monthly number of deer killed per site-visit by professional vehicle-based shooters of rusa deer during the Illawarra Wild Deer Management Program in Wollongong LGA, eastern Australia, 2011–2021. Model outputs are means (solid line) and 95% confidence intervals (grey). Years start in May and end in April.**

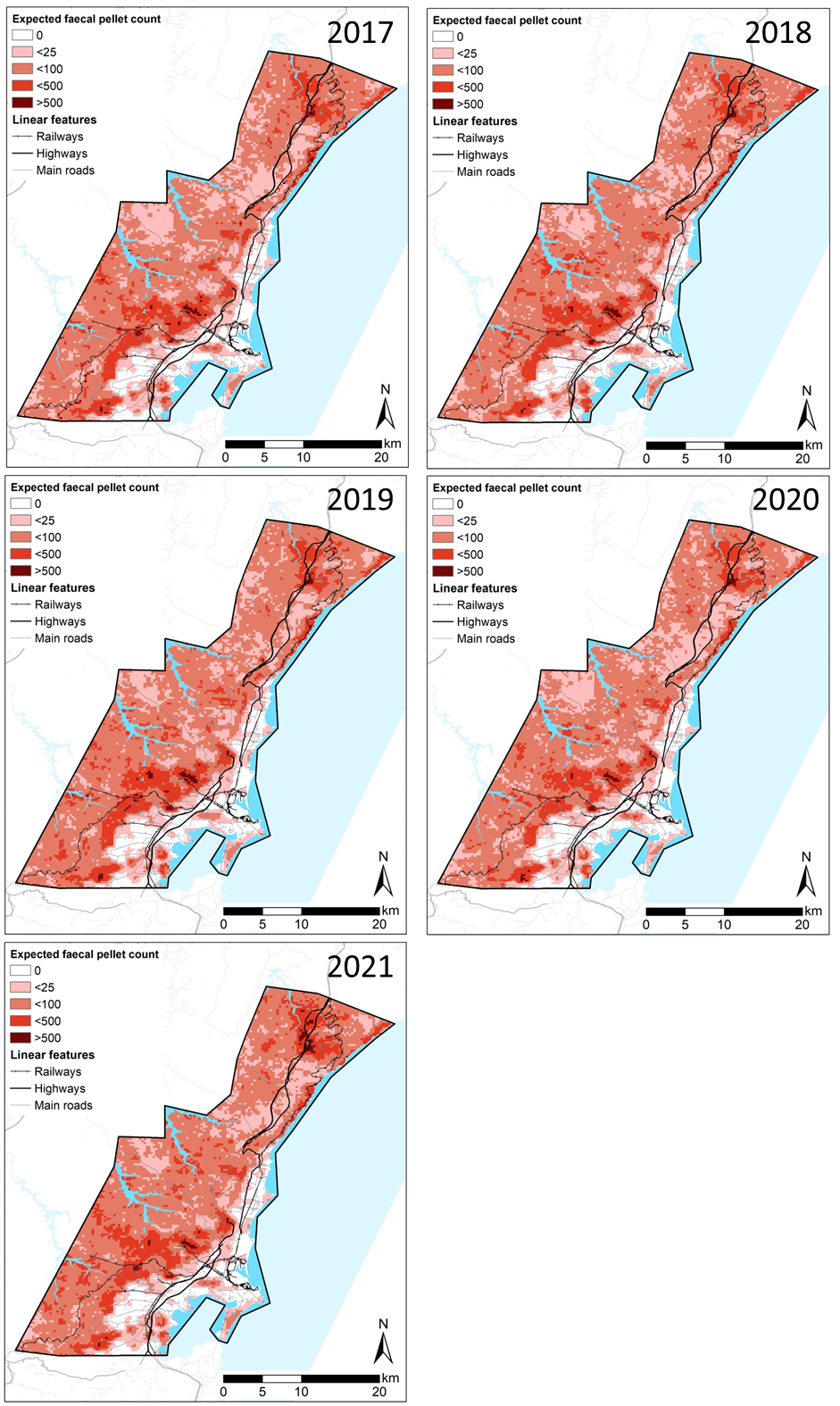




**Appendix II: Rusa deer relative abundance.**

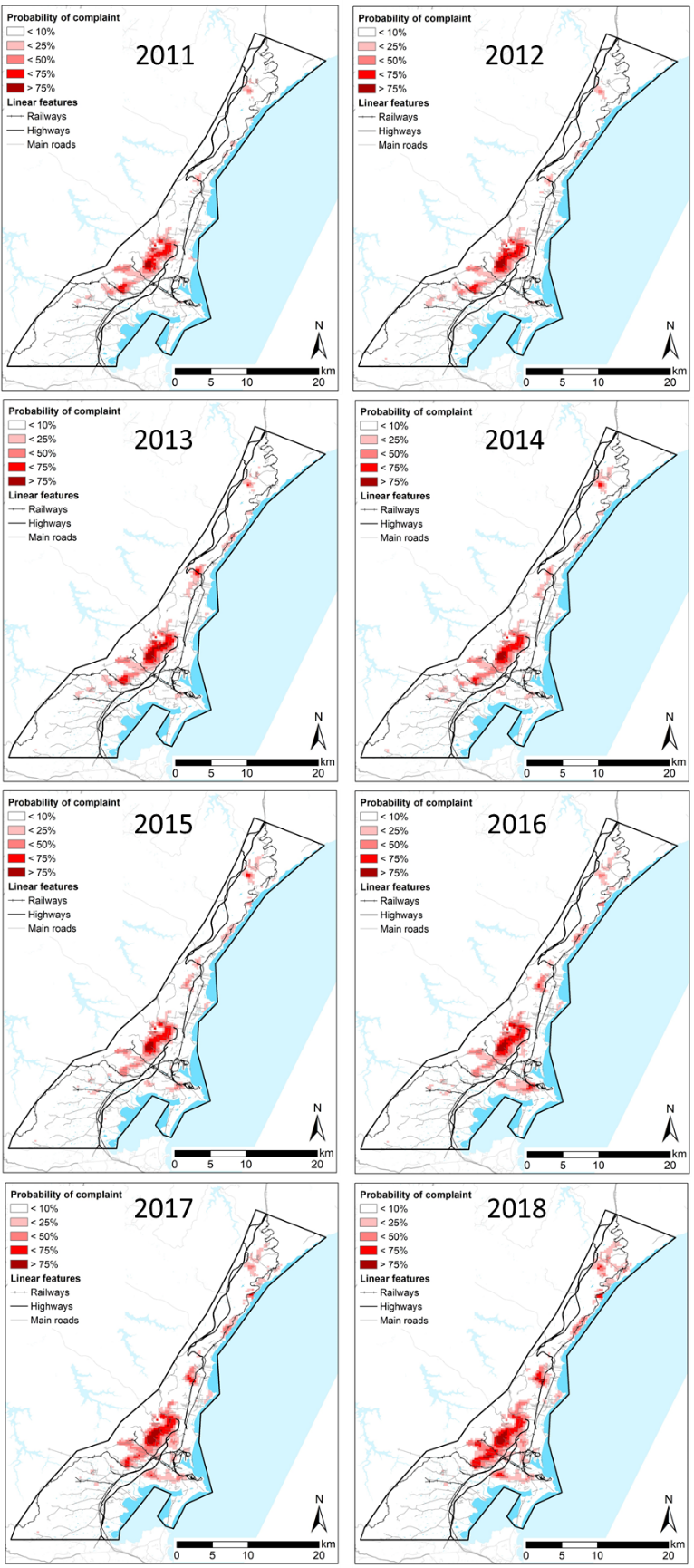
**Figure S1. Expected faecal pellet count (April) during the Illawarra Wild Deer Management Program in Wollongong LGA, eastern Australia, 2011–2021. Years start in May and end in April.**

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**Appendix III: Expected probabilities of resident complaints.**

**Figure S1. Expected annual probabilities of a resident complaint about rusa deer being lodged during the Illawarra Wild Deer Management Program in Wollongong LGA, eastern Australia, 2011–2018. Years start in May and end in April.**

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