Modelling the impact of forest design plans on an endangered mammal species: the Eurasian red squirrel

Jones, Hannah Elizabeth Mary; White, Andrew Ronald; Geddes, Neville; Clavey, Paul; Farries, Jonathan; Dearnley, Tom; Boots, Mike; Lurz, Peter Wilhelm

Published in: Hystrix, the Italian Journal of Mammalogy

DOI: 10.4404/hystrix-27.1-11673

Publication date: 2016

Document Version Peer reviewed version

Link to publication in Heriot-Watt University Research Portal

Citation for published version (APA):
**Supplementary Information**

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The material in this supplementary document is ordered in the manner in which it is cited in the main document.

![Figure S1: Snapshots of the red squirrel carrying capacity (squirrels/ha) using the high estimates for Kidland, Uwayford and Tilhill for 2012 (Year 0) to 2050 (year 38) for scenario A.](image-url)
Figure S2: Snapshots of the red squirrel carrying capacity (squirrels/ha) using the low estimates for Kidland, Uswayford and Tilhill for 2012 (Year 0) to 2050 (year 38) for scenario A.
Figure S3: Snapshots of the red squirrel carrying capacity (squirrels/ha) using the high estimates for Kidland, Uswayford and Tilhill for 2012 (Year 0) to 2050 (year 38) for scenario B.
Figure S4: Snapshots of the red squirrel carrying capacity (squirrels/ha) using the low estimates for Kidland, Uswayford and Tilhill for 2012 (Year 0) to 2050 (year 38) for scenario B.
Figure S5: Snapshots of the red squirrel carrying capacity (squirrels/ha) using the high estimates for Kidland, Uswayford and Tilhill for 2012 (Year 0) to 2050 (year 38) for scenario C.
Figure S6: Snapshots of the red squirrel carrying capacity (squirrels/ha) using the low estimates for Kidland, Uswayford and Tilhill for 2012 (Year 0) to 2050 (year 38) for scenario C.
Figure S7: Snapshots of the red squirrel carrying capacity (squirrels/ha) using the high estimates for Kidland, Uwayford and Tilhill for 2012 (Year 0) to 2050 (year 38) for scenario D.
Figure S8: Snapshots of the red squirrel carrying capacity (squirrels/ha) using the low estimates for Kidland, Uwayford and Tilhill for 2012 (Year 0) to 2050 (year 38) for scenario D.
Figure S9: A map showing the location of a proposed dispersal corridor (yellow) between Kildand/Tilhill (red) and Uswayford (green).
Figure S10: Realisations showing the 100 year spin-up for the scenario A forest design plans and the high density estimates for 2012 (see Figure 2 and Table 1) with the combined population abundance in Kidland (blue), Uswayford (green) and both (Kidland + Uswayford; black). The left figure shows the full 100 year spin-up and the right figure the final 10 years of the spin-up.

Figure S11: Realisations showing the spin-up for the scenario A forest design plans and the low density estimates for 2012 (see Figure 2 and Table 1) with the combined population abundance in Kidland (blue), Uswayford (green) and both (Kidland + Uswayford; black). In all realisations the populations become extinct.

Figure S12: Realisations showing the 100 year spin-up for the scenario A forest design plans and the 3 high 1 low carrying capacity scenario for 2012 with the combined population abundance in Kidland (blue), Uswayford (green) and both (Kidland + Uswayford; black). The left figure shows the full 100 year spin-up and the right figure the final 10 years of the spin-up.
Figure S13: Maps showing the distribution of mature forest (greater than 30 years old) (green), immature forest (blue), no trees (red) and Tilhill (dark green) based on the forest design plans of scenario A for 2012 - 2052.