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Supplement 4. Significant variables, AIC and the best variable combination at each modelling step and final models for 1 km², 25 km² and 100 km² landscape sizes in Lapland.  $\Delta$ AIC indicates the difference to the final model. Final models were obtained by including all significant variables from each step in both the count and zero models in the final model and by running the models as many times as needed to ensure only significant variables were left in both models. Note, that the average number of damage in neighboring cells (NNDAMAGE) was a significant variable in both models at all landscape sizes. Variables with  $0.05 \le p \le 0.10$  shown in parentheses, ns = no significant variables.

Landscape size	Model step, #	ΔΑΙС	AIC	Count model	Zero model
1 km²	1 2 3 4 5 6 7 8 9 10 Final	88.219 88.705 37.017 45.041 151.844 172.321 179.656 175.286 149.625 156.552 0	7307.432 7307.918 7256.23 7264.254 7371.057 7391.534 7398.869 7394.499 7368.838 7375.765 7219.213	FORESTSUM FORESTSUM OPENMIN, PLANTSUM, THINNSUM, MATURE OTHERPLANT, PINETHINNSUM PINEPLAMIN  PINEMINSUM  ns ns AGRI, (ROADSUM) (MAINROAD), CONNROAD PINEPLAMIN, OTHERPLANT, (THINNSUM), CONNROAD	FORESTSUM FORESTSUM OPENMIN, PLANTSUM, THINNSUM, MATURE OTHERPLANT, PINETHINNSUM PINEPLANTPEATSUM, PINETHIMIN PINEMINSUM, PINEPEATSUM ns PINENDSUM ns ns OPENMIN, OTHERPLANT, MATURE, THINNSUM
$25 \text{ km}^2$	1 2 3 4 5 6 7 8 9 10 Final	20.333 24.178 13.811 20.981 38.869 50.336 52.342 48.387 54.628 41.955 0	2388.245 2392.09 2381.723 2388.893 2406.781 2418.248 2420.254 2416.299 2422.54 2409.867 2367.912	ns ns PLANTSUM, MATURE OTHERPLANT PINETHIMIN ns ns ns CONNROAD PLANTSUM, CONNROAD, PINETHIMIN, MATURE	ns FOREST PLANTSUM, THINNSUM OTHERTHI PINEPLAMIN ns ns ns ns
$100 \text{ km}^2$	1 2 3 4 5 6 7 8 9 10 Final	8.69 7.86 1.41 23.83 23.39 18.76 29.83 23.82 19.17 25.51 0	816.23 815.4 808.95 831.37 830.93 826.3 837.37 831.36 826.71 833.05 807.54	FORESTSUM FORESTSUM PLANTSUM, MATURE ns ns ns ns ns	FORESTSUM FORESTSUM PLANTSUM ns ns ns ns (INHABITED) FORROAD PLANTSUM, (FORROAD)