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Supplement 3. 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 Ostrobothnia. Δ 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 significant variable in both models at all landscape sizes. Variables with $0.05 \leq p \leq 0.10$ shown in parentheses, ns = no significant variables.

Landscape size	Model step, #	Δ AIC	AIC	Count model	Zero model
1 km ²	1	114.16	10913.29	ns	ns
	2	124.62	10923.75	FORESTSUM	ns
	3	88.68	10887.81	OPENMIN, PLANTSUM, THINNSUM, MATURE	MATURE
	4	130.34	10929.47	OTHERPLANT, PINETHINNSUM, OTHERTHI	PINEPLANTSUM
	5	252.82	11051.95	PINEPLAMIN, PINEPLANTPEATSUM	ns
	6	276.17	11075.3	PINEMINSUM	ns
	7	260.33	11059.46	ns	PINEPLAPEATND
	8	252.59	11051.72	PINENDSUM	PINENDSUM
	9	176.81	10975.94	INHABITED, AGRI	ns
	10	262.6	11061.73	REGROAD, CONNROAD	ns
Final	0	10799.13	PINEPLAMIN, OTHERPLANT, THINNSUM, MATURE, INHABITED	MATURE	
25 km ²	1	17.914	2986	ns	ns
	2	24.398	2992.484	ns	ns
	3	2.153	2970.239	PLANTSUM, MATURE	THINNSUM, MATURE
	4	55.868	3023.954	PINEPLANTSUM, OTHERPLANT	PINETHINNSUM, OTHERTHI
	5	90.705	3058.791	PINEPLAMIN, PINETHIMIN	PINETHINNPEATSUM
	6	104.408	3072.494	ns	ns
	7	105.638	3073.724	ns	ns
	8	98.674	3066.76	ns	PINEDRAINSUM, PINENODITCHSUM
	9	46.763	3014.849	INHABITED, AGRI	ns
	10	68.752	3036.838	REGROAD, CONNROAD	REGHIGHWAY
Final	0	2968.086	INHABITED, PLANTSUM, MATURE	THINNSUM, MATURE	
100 km ²	1	2.634	1410.523	FORESTSUM	ns
	2	6.599	1414.488	FORESTSUM	OPENMIN, MATURE
	3	7.049	1414.938	PLANTSUM, MATURE	OTHERTHI
	4	35.574	1443.463	OTHERTHI	ns
	5	40.04	1447.929	ns	ns
	6	35.894	1443.783	PINEPEATSUM	ns
	7	37.383	1445.272	ns	ns
	8	34.086	1441.975	PINEDRAINSUM	ns
	9	23.038	1430.927	INHABITED	ns
	10	26.123	1434.012	REGROAD	ns
Final	0	1407.889	PLANTSUM, MATURE	OPENMIN, MATURE	