

Table S2. Model characteristics of the generalised linear mixed effects models (all models with $\Delta AICc < 2$) for the proportion of non-native species with a certain trait as a function of elevation (scaled with mean = 0 and sd = 1) and plot type (roadside compared to adjacent vegetation). Models were fitted for all regions together and contained road nested in region as random factors. Model estimates (with P-values), AICc, $\Delta AICc$ and weight given to the model are provided for each of the included models. Ruderal: Grime-strategy = R; Non-ruderal: Grime-strategy = C or S; Drought-adapted: Ellenberg moisture values of 2 to 4; Moisture-adapted: Ellenberg moisture values of 5 to 10; Shade-adapted: Ellenberg light values of 4 to 7; Light-adapted: Ellenberg light values of 8-9; Cold-adapted: Ellenberg temperature values of 3 to 5; Warm-adapted: Ellenberg temperature values of 6 to 8; Seeds dispersal: seeds with traits adapted for dispersal (see Table 2 for adaptations included); Seeds no dispersal: seeds without dispersal-adaptations.

Trait	(Int)	Plot _{Road}	Elevation	Plot:Elevation	AICc	ΔAICc	weight
Perennial	0.894 (<0.001)	---	0.555 (<0.001)	---	689.1	0.00	0.391
	0.772 (0.006)	0.253 (0.189)	0.560 (<0.001)	---	689.4	0.30	0.336
	0.757 (0.007)	0.298 (0.130)	0.444 (0.001)	0.251 (0.204)	689.8	0.72	0.273
Annual	-1.179 (<0.001)	---	-0.388 (<0.001)	---	628.1	0.00	0.510
	-1.148 (<0.001)	-0.083 (0.690)	-0.210 (0.145)	-0.359 (0.083)	629.1	1.04	0.304
Ruderal	0.138 (0.549)	-0.090 (0.614)	0.464 (<0.001)	-0.479 (0.008)	755.9	0.00	1
Non-ruderal	-1.122 (<0.001)	-0.664 (0.003)	-0.326 (0.026)	0.476 (0.032)	547.3	0.00	0.596
	-1.089 (<0.001)	-0.699 (0.001)	---	---	549.2	1.86	0.235
Drought-adapted	-1.622 (<0.001)	---	---	---	505.6	0.00	0.477
	-1.698 (<0.001)	0.141 (0.539)	---	---	507.3	1.65	0.209
	-1.626 (<0.001)	---	-0.058 (0.613)	---	507.4	1.77	0.197
Moisture-adapted	-1.044 (<0.001)	-0.744 (<0.001)	---	---	552.8	0.00	0.634
	-1.046 (<0.001)	-0.747 (<0.001)	-0.055 (0.611)	---	554.6	1.78	0.261
Shade-adapted	-0.785 (<0.001)	-1.357 (<0.001)	---	---	535.9	0.00	0.662
Light-adapted	-1.293 (<0.001)	---	---	---	591.5	0.00	0.490
	-1.363 (<0.001)	0.130 (0.530)	---	---	593.2	1.63	0.216
Cold-adapted	-2.833 (<0.001)	---	0.257 (0.163)	---	245.5	0.00	0.272
	-2.850 (<0.001)	---	---	---	245.6	0.08	0.261
	-2.619 (<0.001)	-0.451 (0.228)	0.253 (0.171)	---	246.0	0.56	0.206
	-2.640 (<0.001)	-0.441 (0.240)	---	---	246.2	0.72	0.190
Warm-adapted	-2.052 (<0.001)	---	-0.203 (0.134)	---	407.4	0.00	0.321
	-2.026 (<0.001)	---	---	---	407.7	0.26	0.283
	-2.157 (<0.001)	0.194 (0.468)	-0.201 (0.138)	---	408.9	1.51	0.151
	-2.136 (<0.001)	0.202 (0.449)	---	---	409.1	1.71	0.137
Seed Dispersal	1.924 (<0.001)	---	-0.274 (0.030)	---	432.5	0.00	0.420
	1.927 (<0.001)	0.035 (0.893)	-0.500 (0.007)	0.441 (0.087)	433.4	0.94	0.263
	1.870 (<0.001)	0.104 (0.682)	-0.273 (0.031)	---	434.4	1.87	0.165
Seed	-2.242 (<0.001)	---	0.336 (0.019)	---	361.7	0.00	0.566
No dispersal	-2.212 (<0.001)	-0.057 (0.843)	0.335 (0.019)	---	363.7	2.00	0.209