**Supporting Information**. Drees, T.H. and K. Shea, 2022. *Climate warming increases insect-driven seed removal of two eliaosome-bearing invasive thistle species*. Pending.

**Appendix S1.** Supporting figures for model results and observed seed removal patterns, as well as photographs of frequently observed insect seed removers.

A picture containing map

Description automatically generated

**Figure S1.** Ant visiting seed depot 34 and removing a *C. acanthoides* seed with an elaiosome during the day.



**Figure S2.** Cricket visiting seed depot 21 removing a *C. acanthoides* seed without an elaiosome during the evening.



**Figure S3.** Observed rates of seed removal for the four combinations of elaiosome treatment (E+ elaiosome present, E- absent) and warming treatment (NW unwarmed, W warmed) for each species (CN *Carduus nutans*, CA *Carduus acanthoides*).

Graphical user interface, chart, line chart

Description automatically generated

**Figure S4.** Marginal effect plots for seed removal models at the three timesteps for each species (CN *Carduus nutans*, CA *Carduus acanthoides*) for seeds with (E+) and without (E-) elaiosomes. Note that the warmed (W) and unwarmed (NW) treatments are discrete values; lines connecting them are just to help facilitate interpretation of interactions.



**Figure S5.** Observed number of seeds remaining between species (CN *Carduus nutans*, CA *Carduus acanthoides*), conditioned on warming treatment applied to the maternal plant and elaiosome presence (E+ present, E- absent). Error bars represent standard error on the mean; -values are obtained from Kolmogorov-Smirnov tests, with low -values indicating significant differences between the two survival curves.