*Supplementary material 1*:

Red milkweed beetles were collected from July 11 through July 28, 2022.

**Statistical Analysis**:

We investigated whether mandible shape was influenced by the time in the breeding season that the beetle was collected to determine if mandible use or wear had a role in the shape of the mandible. We conducted a second Procrustes ANOVA using the same shape data from the first Procrustes ANOVA (see statistical analysis section in main paper). We included sex and Julian date in our model. We originally included the interaction between sex and Julian date, however, it was not significant (p>0.8), so we removed it.

**Result**:

We found that beetle weapon shape is not influenced by date (F=0.78, df=1, p=0.23), but is influenced by sex (F=5.60, df=1, p=0.001).