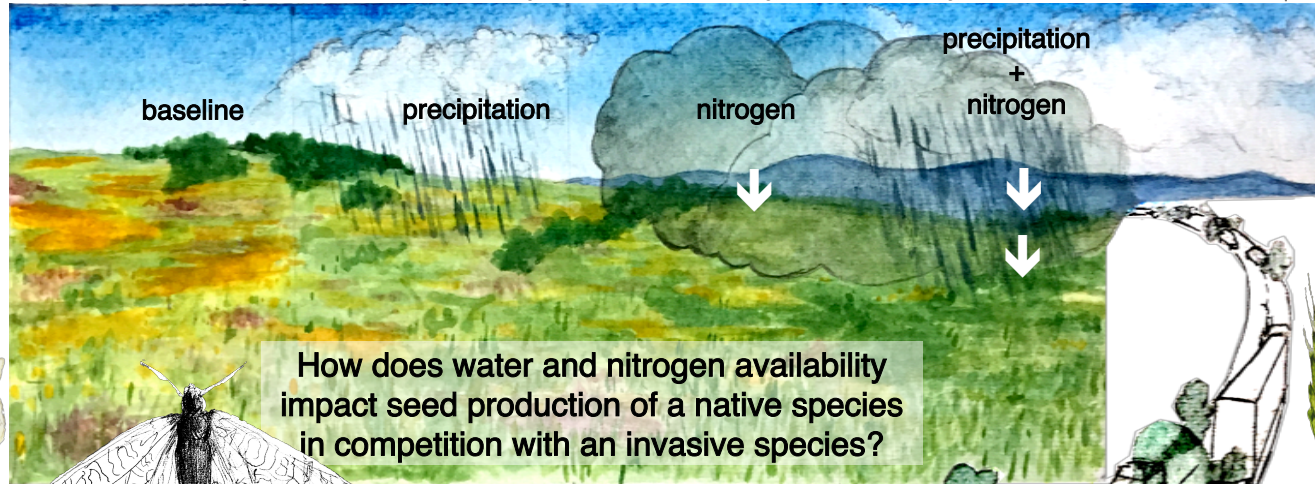




Population Dynamics in Endemic Serpentine Grasslands Amid Anthropogenic Environmental Change

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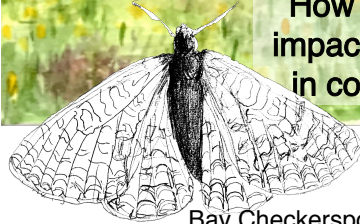
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How does water and nitrogen availability impact seed production of a native species in competition with an invasive species?



Plantago erecta



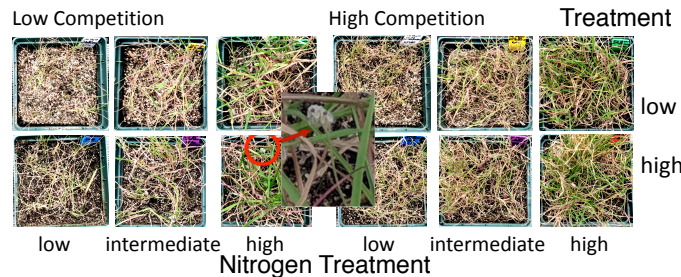
Bay Checkerspot Butterfly



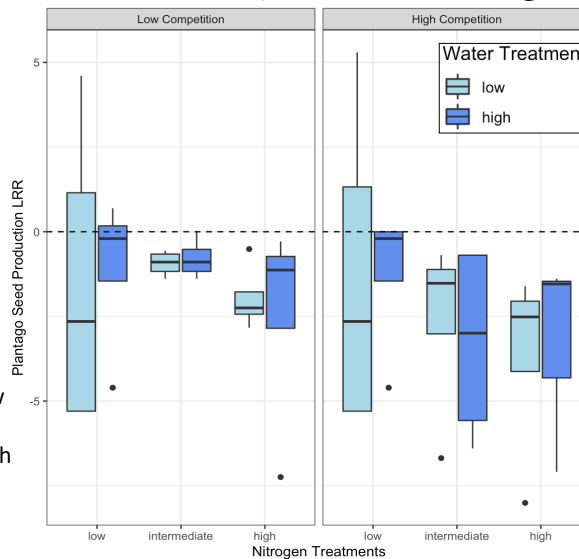
Bromus hordeaceus



Greenhouse Experiment (Photos by Eliza Hernández)



Water Treatment



Results

Competition from *Bromus* does not significantly impact the seed production of native species *Plantago* when nitrogen and water are low. However, with greater resource availability, especially increased nitrogen, *Plantago* produces significantly fewer seeds under competition pressure.

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All illustrations were made by myself, Michaela Fishback.