

What dated disturbances are:

Why study of dated disturbances is important:

Allow observation of vegetation recovery response to a variety of land use activities

Measurement of vegetation recovery response at individual sites can lead to general models of recovery rates of vegetation cover and plant density and the trajectory of species composition recovery in the Mojave ecosystem.

Such models will allow land managers to better predict the outcome of particular land use activities on vegetation and can be used to better understand succession in the desert ecosystem.

















Ruderal species are annual herbaceous, whether native or non-native.

Stress tolerant ruderals are short-lived shrubs and subshrubs with characteristically large seed production.

Stress tolerant competitors are short- to long- lived shrubs and trees with intermediate to slow growth and small seed production.

Stress tolerators are long-lived shrubs and trees with slow growth and small seed production.





Total cover varies greatly between sites.

A simple Wilcoxon rank sum test for differences between the pairs of disturbance types and each with undisturbed did not show any significant differences at the .10 level. A two way (fixed effects) Anova also did not show significant differences in cover by treatment and by site.





Density is not significantly different between the treatments.

The three sites with Yubr show higher density in the berm and borrow disturbance.











These sites occurred at the lowest elevation and reflect a gradient of alkalinity. Only five species occurred among the sites. The most common species are 'stress ruderals' under the life history classification scenario.











Contrary to expectation stress tolerant species occur in every treatment. Latr and yusc are the only two stress tolerators present. Yusc only occurs in undisturbed sites. One explanation for this may be in the clonal nature of Latr. The Latr present on the treatments may reflect root sprouting from individuals that were disturbed during placement of the coaxil cable line but that were not killed.

At least 37 species among these sites.



























