

Documentation of Survivorship and fecundity data collected in long-term study of demography of *Clarkia xantiana* ssp. *xantiana* at 20 populations in the Kern River Valley, California, USA from 2006 to 2017.

Data File Name: "Datafile_Survivorship_Fecundity.csv"

At each site, 30 permanent plots of 0.5 m² were established in 2006 along 4-6 transects. Each year, the number of seedlings in each permanent plot was recorded in February, the number of surviving fruiting plants and the average number of fruits per plant in each plot with fruiting plants were recorded in June.

In 2006, only a subset of permanent plots were monitored for seedling germination, and fruit number per fruiting plant was not recorded.

From 2006-2012, fruit number per plant was scored as the sum of undamaged fruits plus the "undamaged fruit equivalents" of damaged fruit. For example, if a plant had 2 damaged fruits, where half of each fruit was missing, the number of undamaged fruit equivalents was scored as 1, and added to the number of undamaged fruits. From 2013-2017, undamaged and damaged fruits were scored separately.

Column heading definitions:

Site: Site Acronym (population acronym)

Site_Name: Full site name

Transect: transect number (I-VI)

Plot: plot number on transect

Year: year data were collected

Seedling_Number: number of seedlings in 0.5 m² plot, NA if not recorded

Fruiting_Plant_Number: number of fruiting plants in 0.5 m² plot,

Undamaged_Fruit_Number_per_Plant: average number of undamaged fruits per plant (see explanation above of how fruits were counted); blank if no fruiting plants in plot

Damaged_Fruit_Number_per_Plant: average number of damaged fruits per plants (see explanation above of how fruits were counted)); blank if no fruiting plants in plot

Fruiting#>Seedling#: Boolean variable denoting that the number of fruiting plants in a plot exceeded the number of seedlings recorded earlier in the plot (T=true, F=false), indicating that some winter germination was missed.

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