



Species coexistence in BC forests

# Project origins:

- Initially set up by Darwin Sodhi
- Subset of plots established in 2019
  - Additional plots added in 2020 & 2021



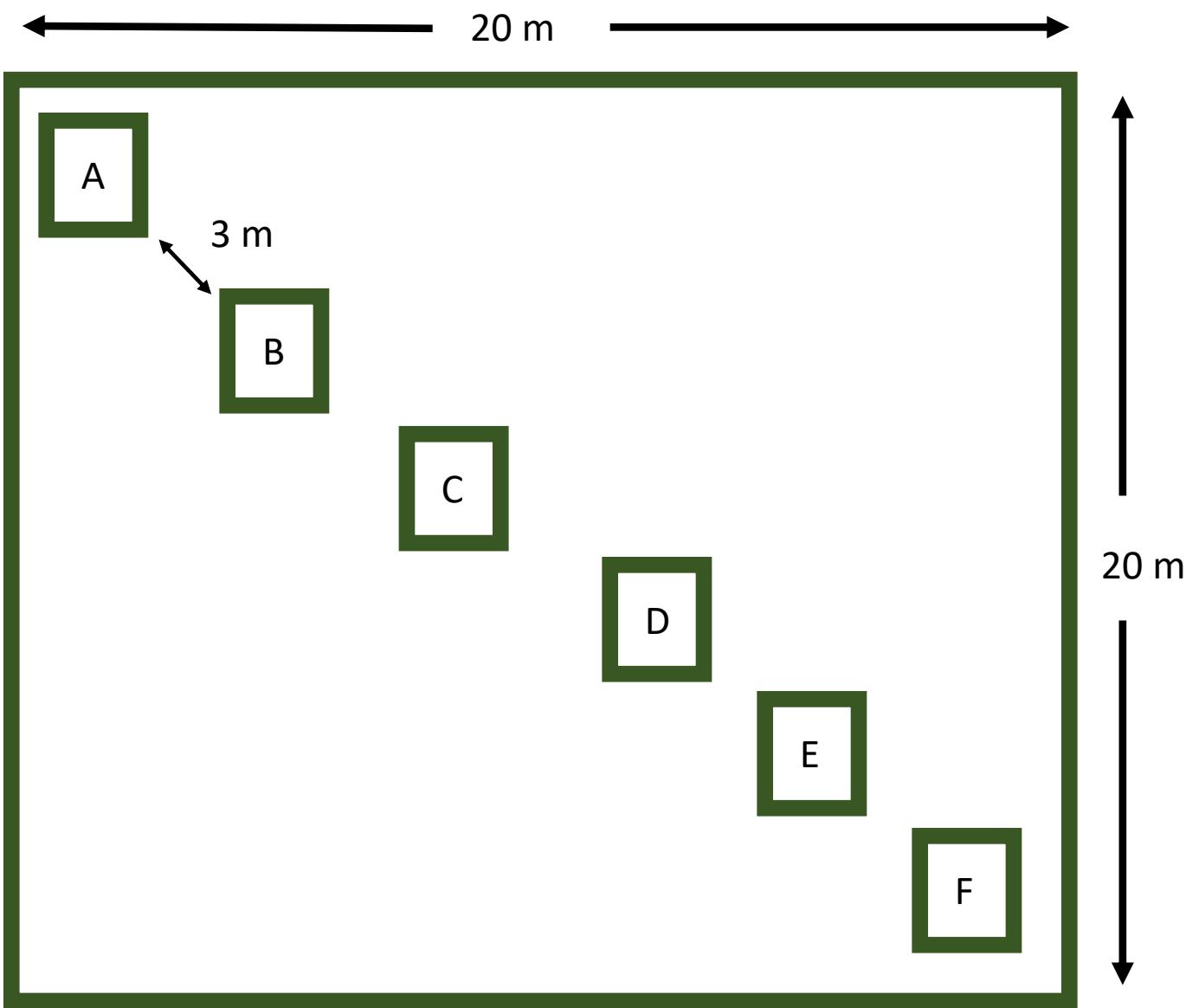


# What is a demography study?

- Study of growth and regulation of populations
- Collecting data on individual births and deaths
- Calculate population growth rates
- Requires multiple years of observations of individuals

# Our study design

- Babine Provincial Park
- 453 m elevational transect:
- 17 sites – 6 plots per site
- Collecting:
  - Adult diameter data
  - Seedling survival
  - Soil moisture
- Three species:
  - *Abies lasiocarpa* – Subalpine fir
  - *Tsuga heterophylla* – Western hemlock
  - *Picea* hybrid - Spruce

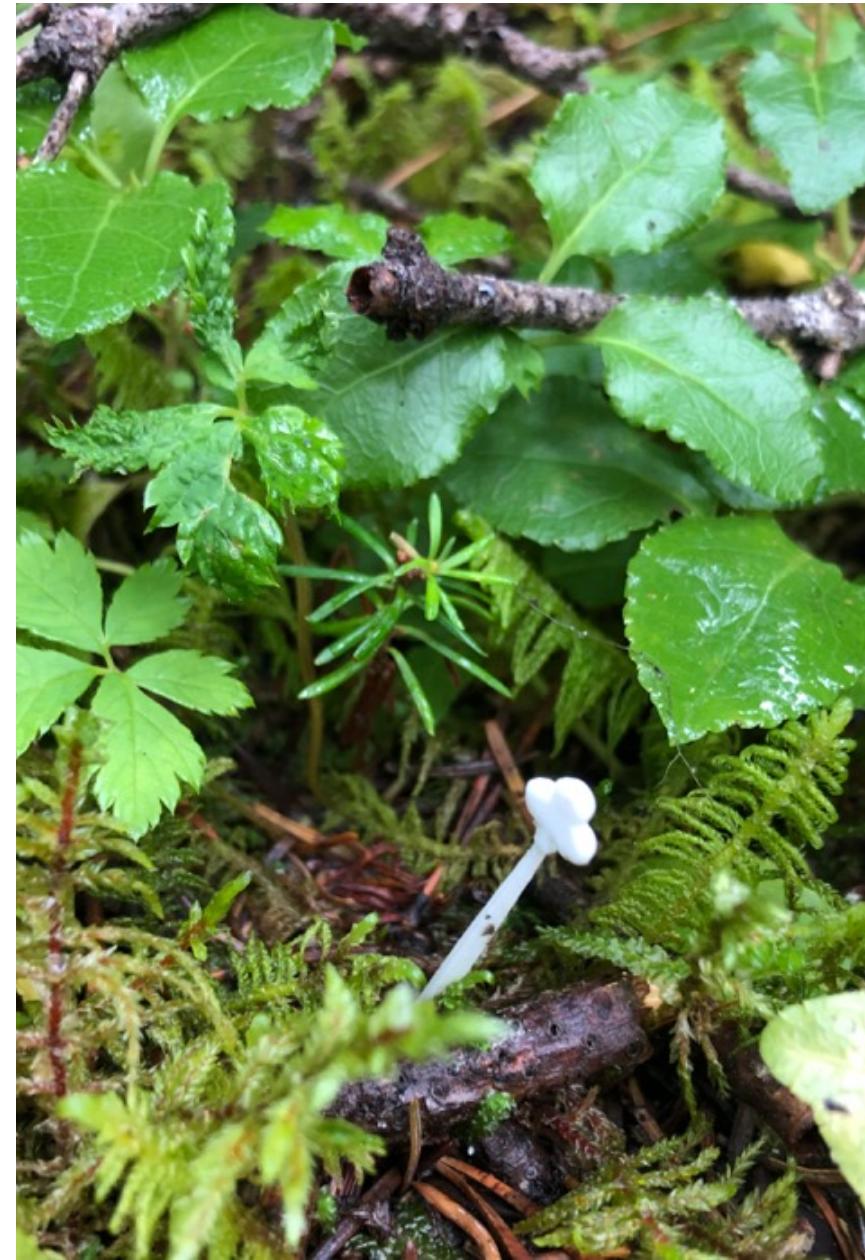




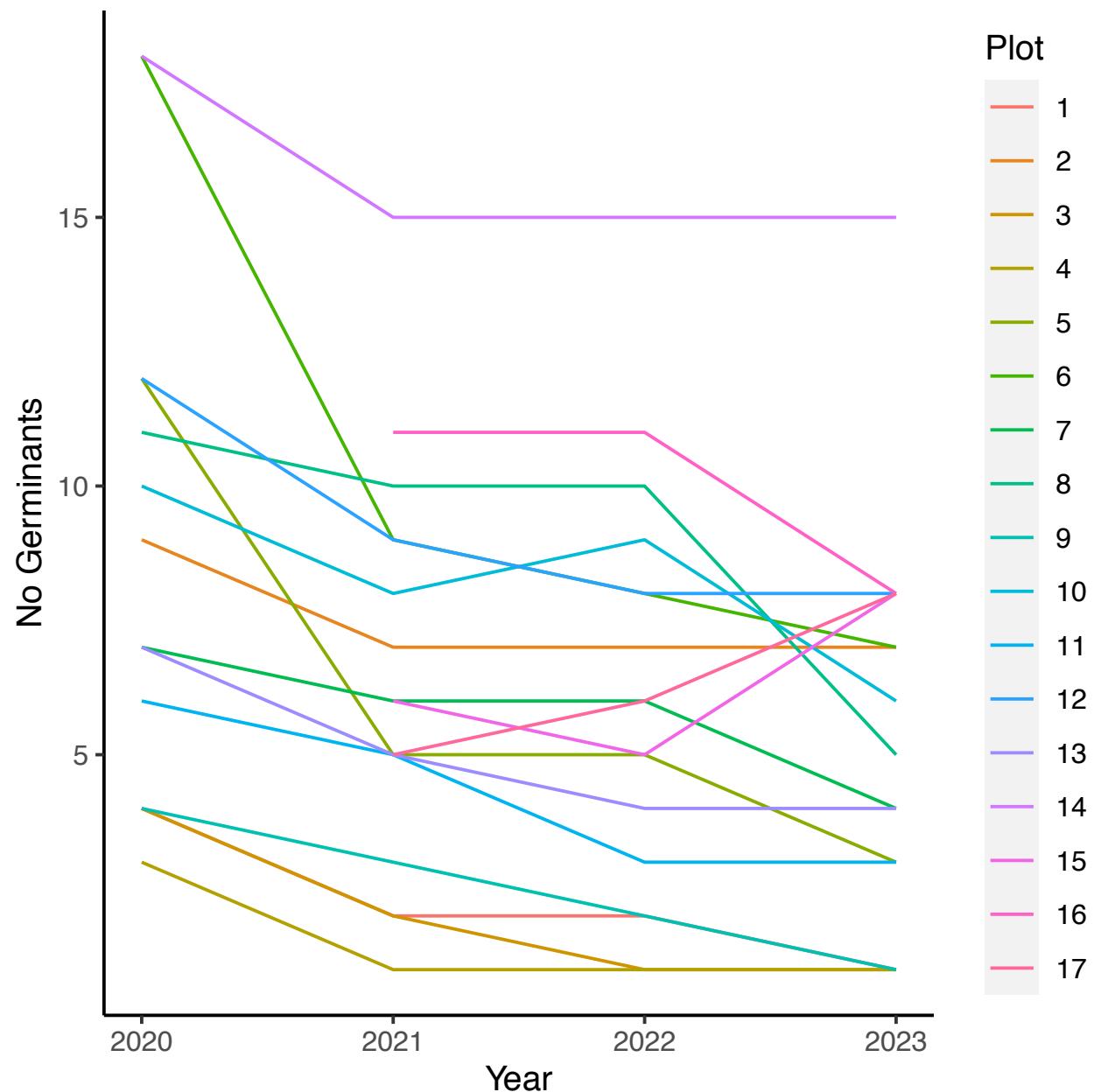
What that  
looks like in  
practice?

What that looks like in practice?

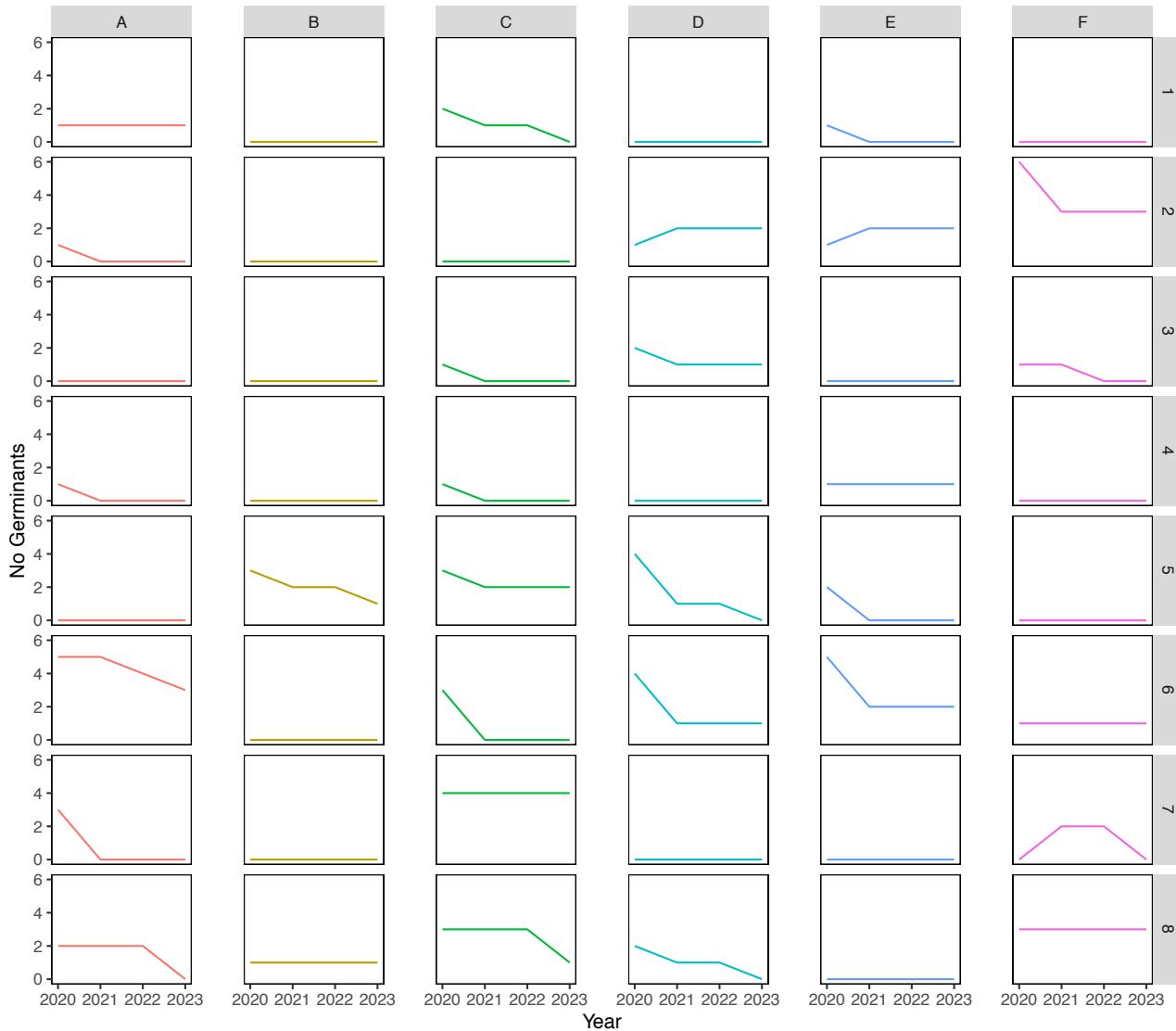




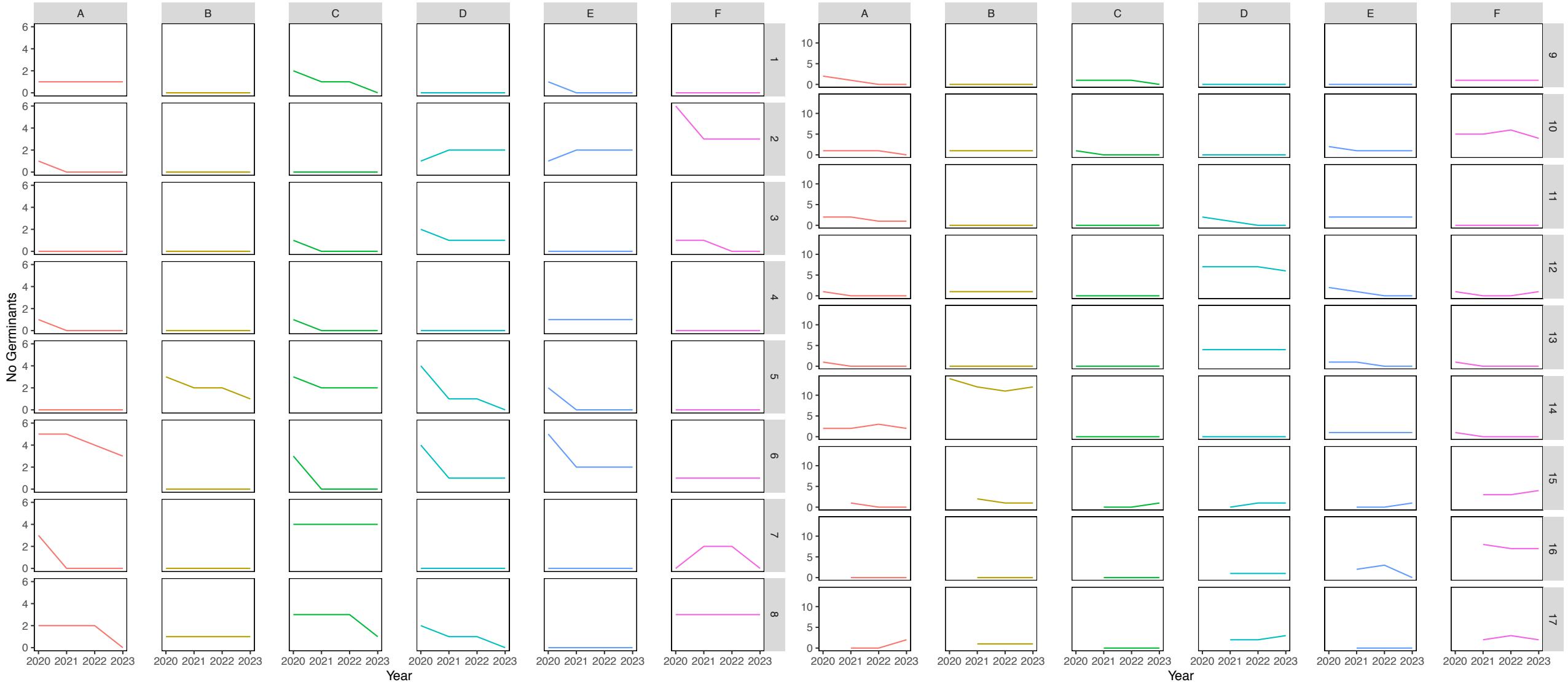
# Preliminary results: Four years in



# Preliminary results: Four years in



# Preliminary results: Four years in



# Preliminary results: Four years in

0 – plots never had germinants

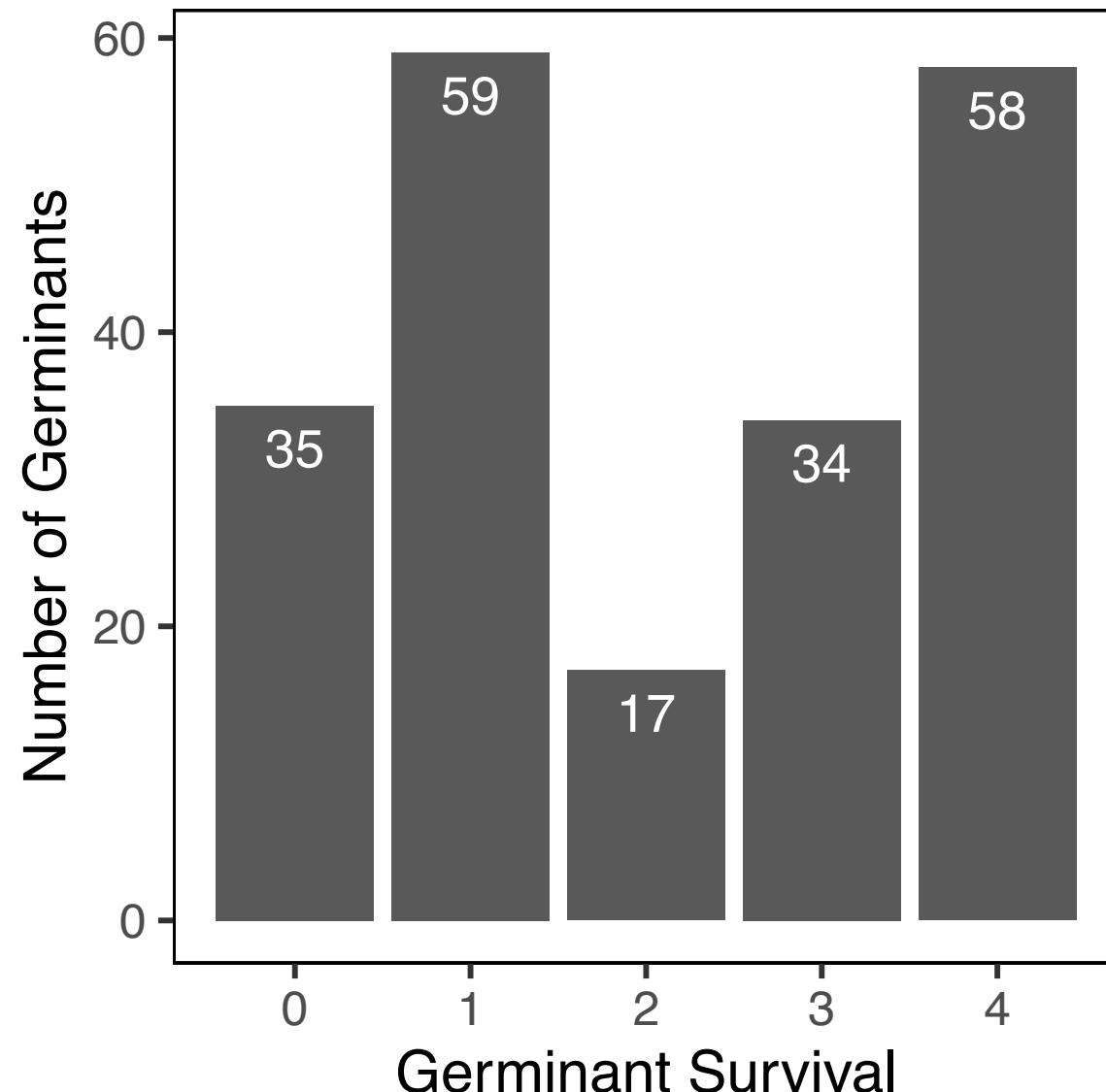
1 – Germinant survived 1 year

2 – Germinant survived 2 years consecutively

3 – Germinant survived 3 years consecutively

4 – Germinant survived 4years consecutively

- 168 observed germinants total
- 34% of plots have never had a germinant



# Preliminary results: Four years in

