**Potential statistical models**

Explanatory values: fixed effects

Disturbance only

* Disturbance variables themselves
* Environmental proxy for disturbance (canopy cover? Stand age?)
  + How to figure this out if we don’t have a good measure of disturbance itself
    - We kind of have moose values

\*ask for map of known moose meadows – do they line up with historic moose densities + old forest clearing disturbances?

* + Could look at literature?
  + Create an index?
  + Could this be a chapter in itself?

Environmental

* Biotic, aka forest characteristics
* Abiotic \*would be at different spatial scale
* Geographic
* Combinations of the above

Combination of above

\*at least want one model that accounts for disturbance so that we can alter disturbance values to compare outcomes

Random effects

Definitely year and park

Site?

Don’t think subplot

*Can these models be used to inform dynamic model?*

Use max biomasses found to estimate carrying capacities of vegetation types

\*how did Augustine et al 1998 get a tipping point based on initial vegetation?

Conceptual model of how boreal forest is impacted by forest clearing events and moose herbivory

A diagram of a forest

Description automatically generated with low confidence

At what level does moose herbivory become high enough for the forest to be unable to regenerate?

* Likely different for different sizes and types of gaps

\*if gaps are being identified based on a mix of environmental variables – then can look at gaps in the past as well and measure recovery