Remapping Lynx Habitat in Colorado, and Snowshoe Hare Response to Timber Management

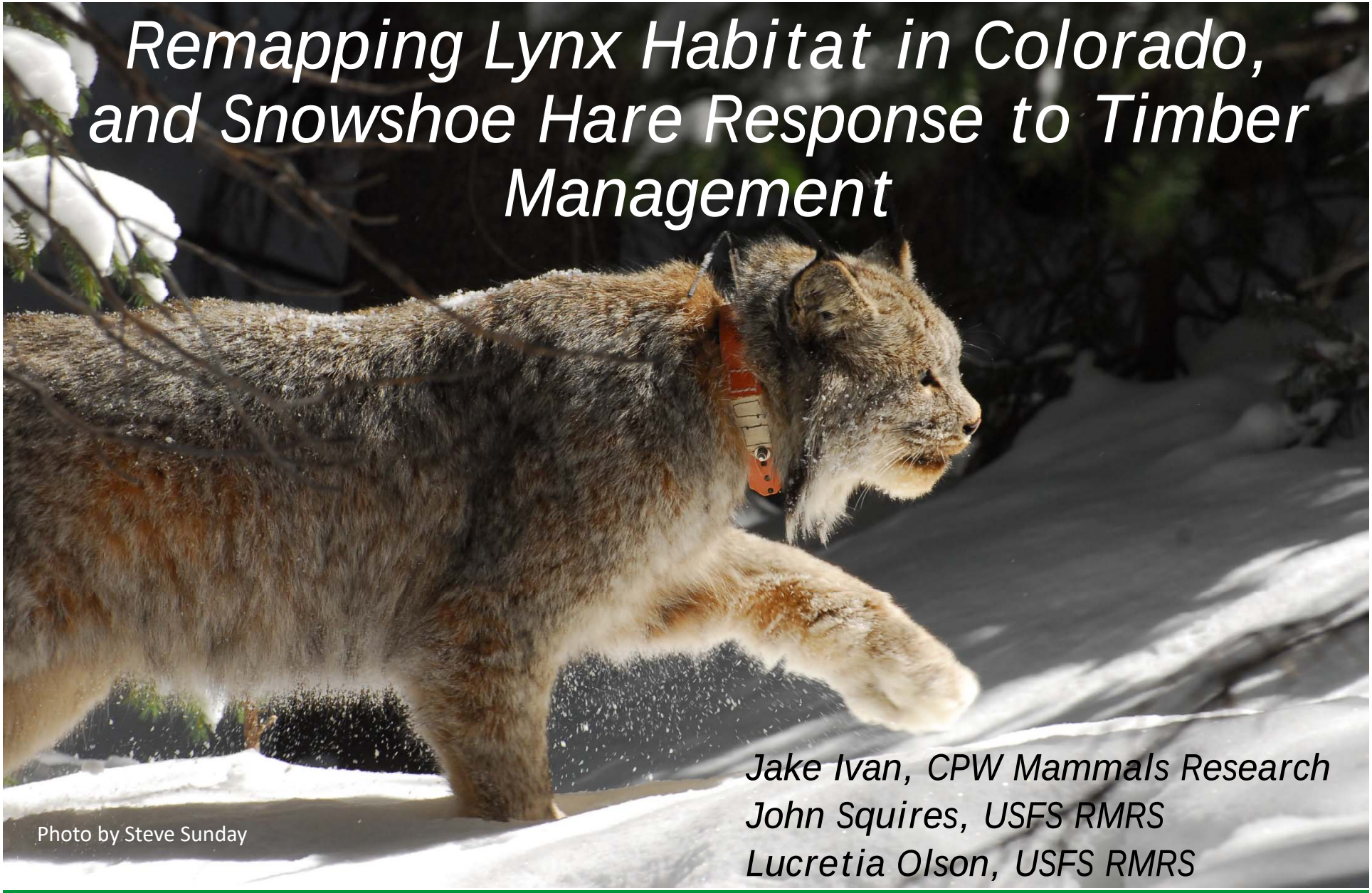
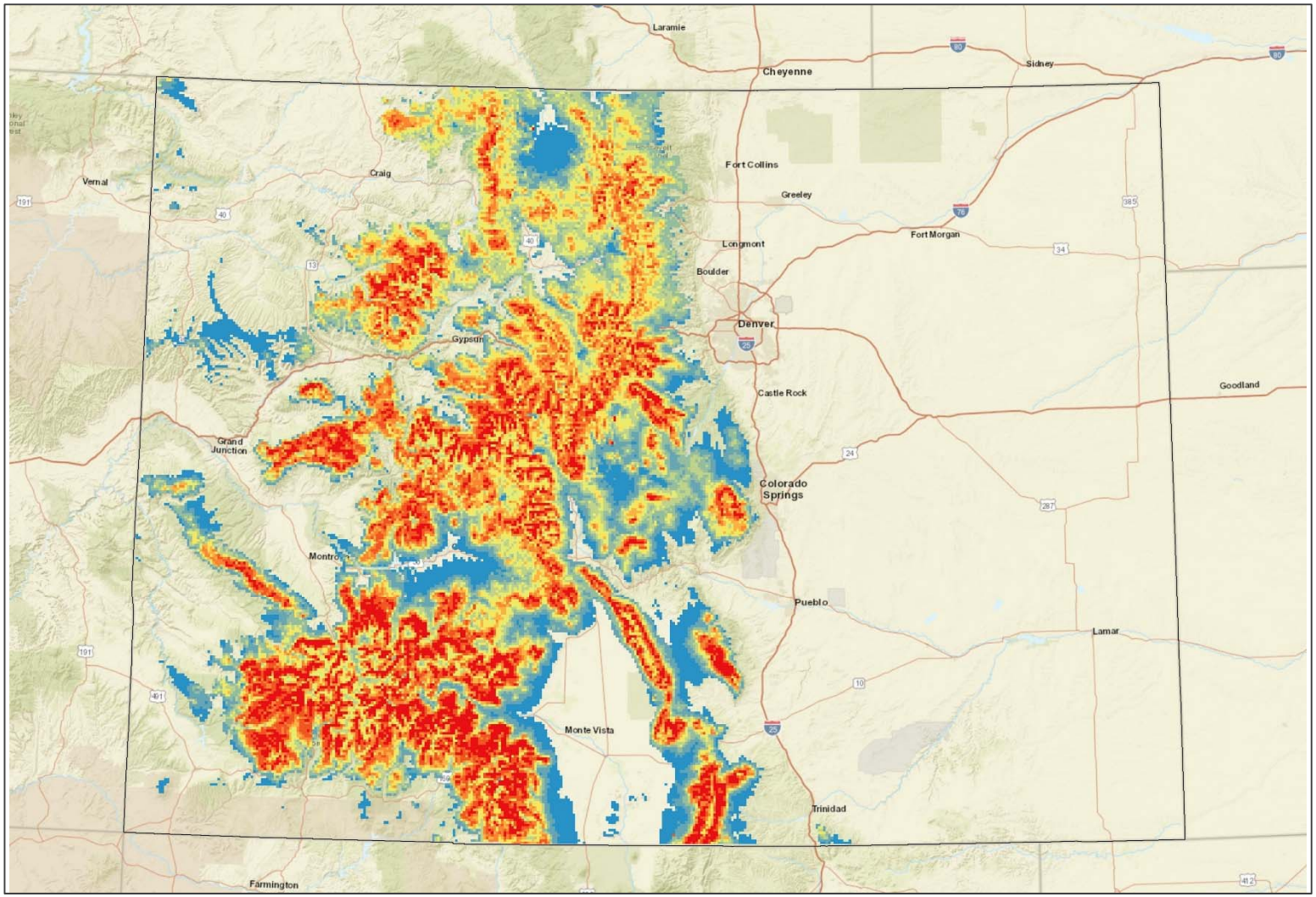


Photo by Steve Sunday

Jake Ivan, CPW Mammals Research
John Squires, USFS RMRS
Lucretia Olson, USFS RMRS

LIVE LIFE OUTSIDE

Mapping Canada lynx habitat in the Southern Rockies



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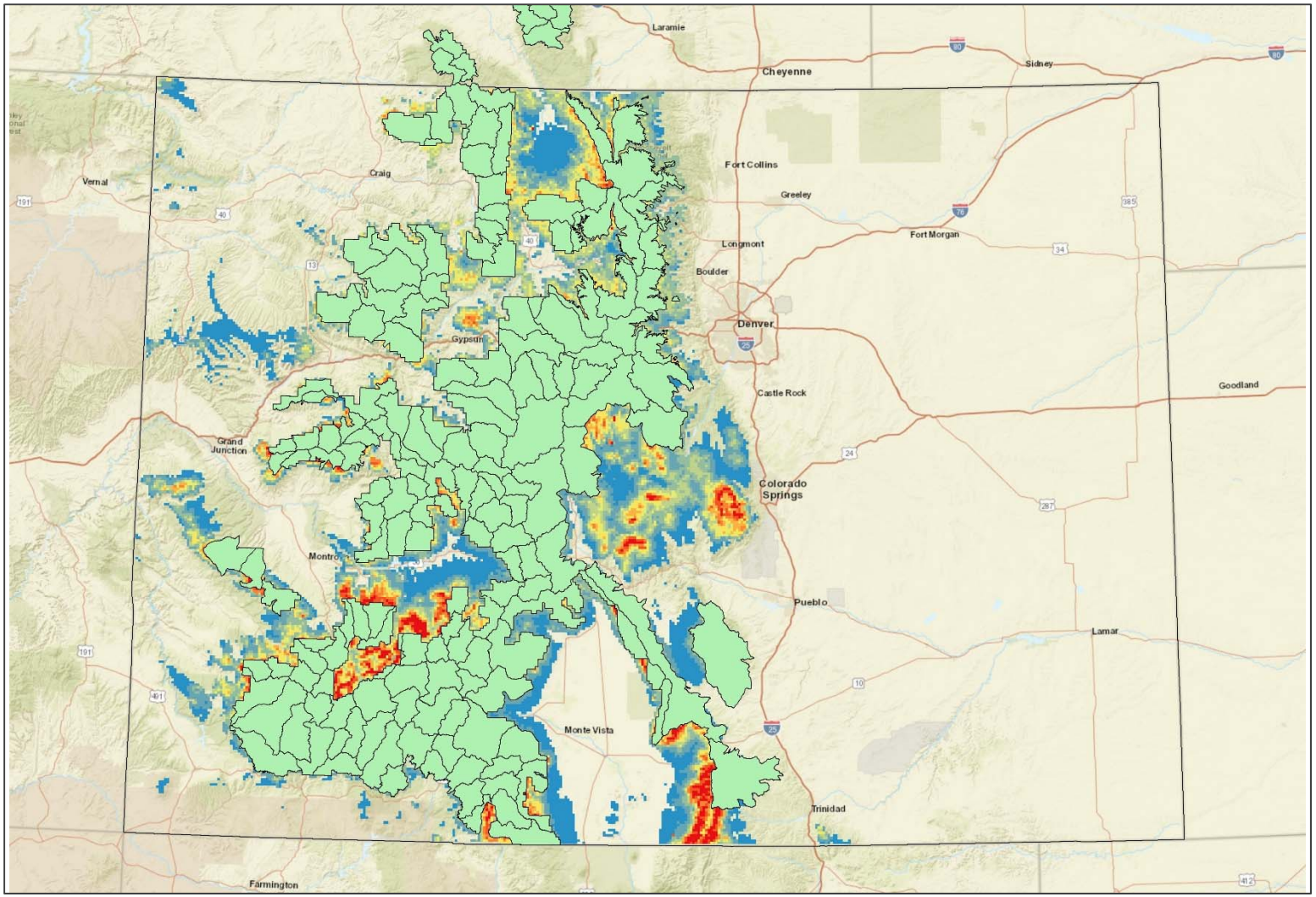
Mapping Canada lynx habitat in the Southern Rockies



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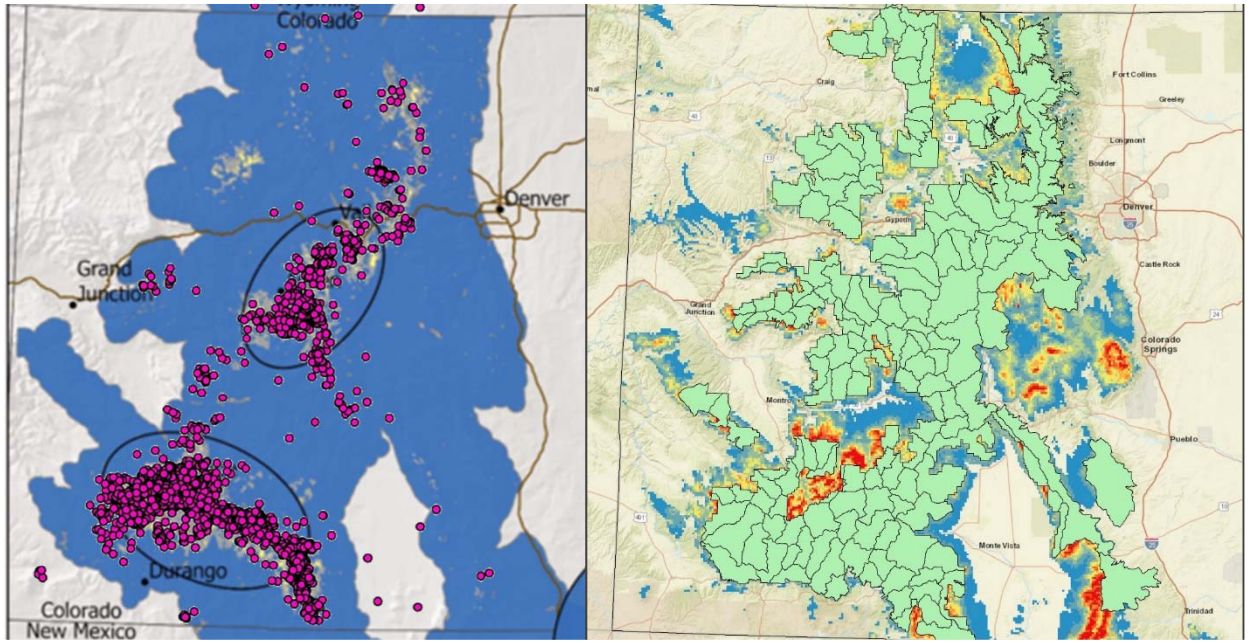
Mapping Canada lynx habitat in the Southern Rockies

- Use lynx GPS data from Lynx-Winter-Recreation study to build a suite of new potential models.
  - Important Variables:
    - Percent of Precip As Snow
    - Relative Humidity
    - Soil pH
    - Summer Precip
    - Topographic Position
    - Mean Temp of the Coldest Month
- Use the best CPW Argos data from the reintroduction, along with other CPW & USFS survey data to verify the top-fitting model

Mapping Canada lynx habitat in the Southern Rockies



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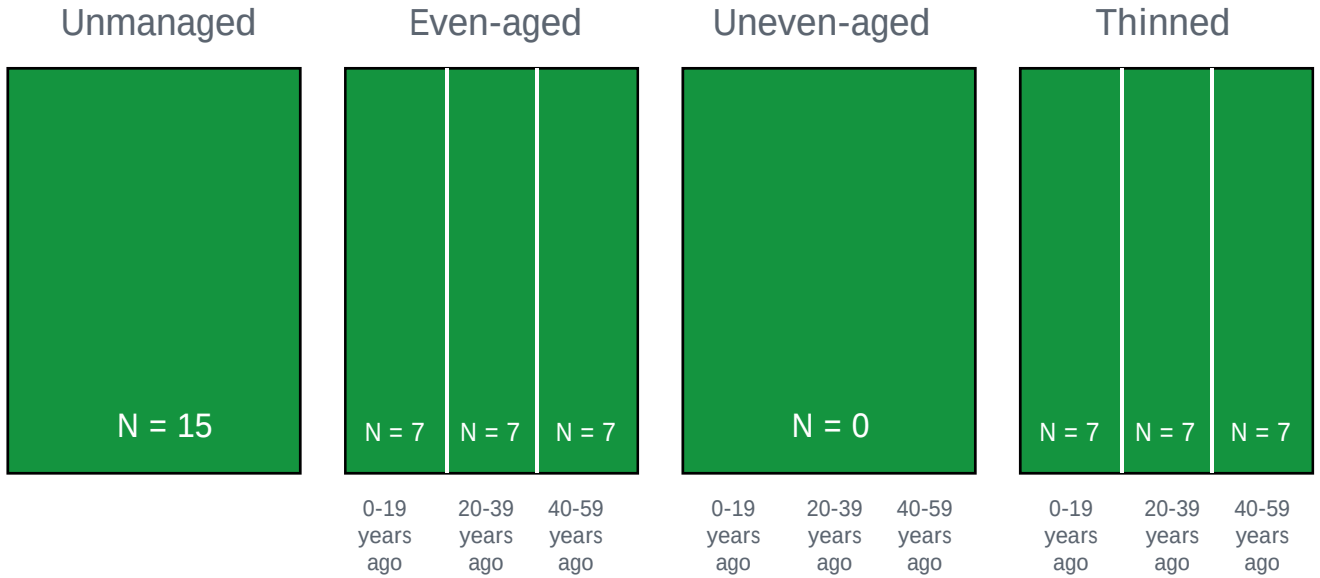
Strata

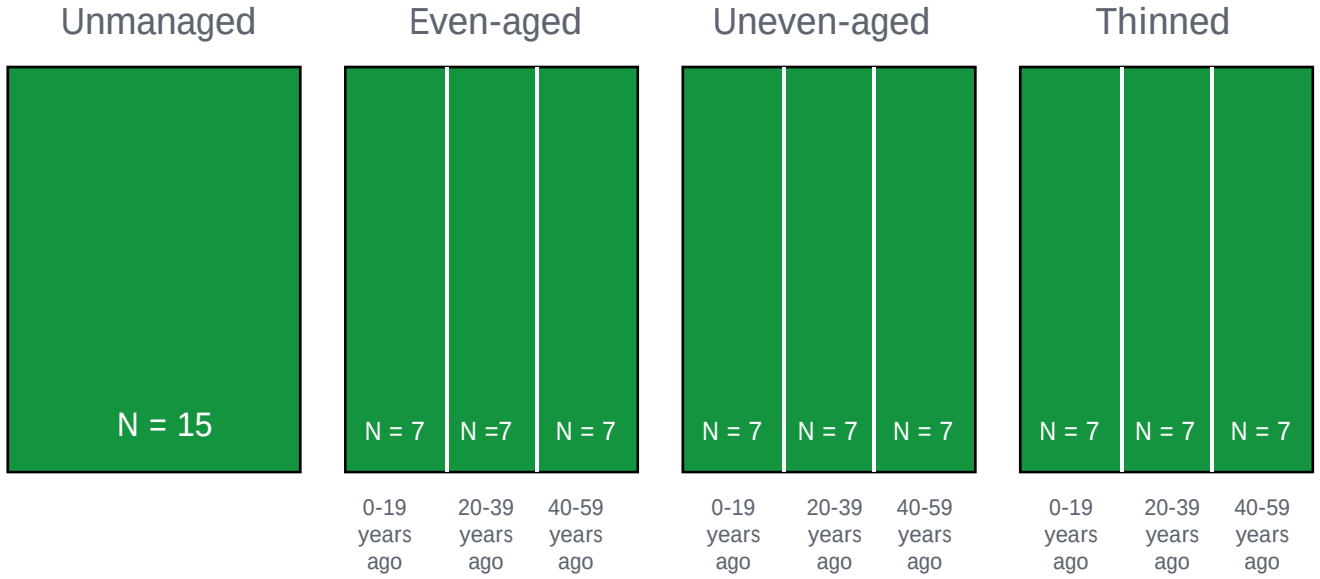
Code	Description	Category
4113	Stand clearcutting (EA/RH/FH)*	Even
4117	Stand clearcutting (w/res) (EA/RH/FH)*	Even
~~4131~~	~~Shelterwood cut (EA/RN/NFH)*~~	~~Even~~
4141	Shelterwood final removal cut (EA/NRN/FH)*	Even
~~4142~~	~~Seed-tree final removal cut (EA/NRN/FH)*~~	~~Even~~
4143	Overstory removal cut (from advanced regeneration) (EA/RN/FH)*	Even
4145	Final overstory removal cut with reserve trees (EA/NRN/FH)*	Even
~~4146~~	~~Seed-tree final removal cut (w/res) (EA/NRN/FH)*~~	~~Even~~
4147	Overstory removal cut (w/res) (EA/RN/FH)*	Even
~~4193~~	~~Heavy Salvage~~	~~Even~~
~~4230~~	~~Salvage Cut (Older Code)~~	~~Even~~
~~4231~~	~~Salvage cut (intermediate treatment, not regeneration)~~	~~Even~~
~~4220~~	~~Commercial Thinning~~	~~Thinning~~
4521	Precommercial thinning - individual or selected trees	Thinning
4522	Precommercial thinning - strip	Thinning
~~6103~~	~~Wildlife Habitat Precommercial thinning~~	~~Thinning~~
4112	Strip clearcutting (EA/RH/FH)*	Uneven
4116	Strip clearcutting (w/res) (EA/RH/FH)*	Uneven
~~4151~~	~~Single-tree selection cut (UA/RN/NFH)*~~	~~Uneven~~
4152	Group selection cut (UA/RN/FH)*	Uneven
~~4154~~	~~Single-tree selection cut (UA/NRN/NFH)*~~	~~Uneven~~
4176	Strip clearcutting (w/res) (2A/RH/FH)*	Uneven
-------	None	Control

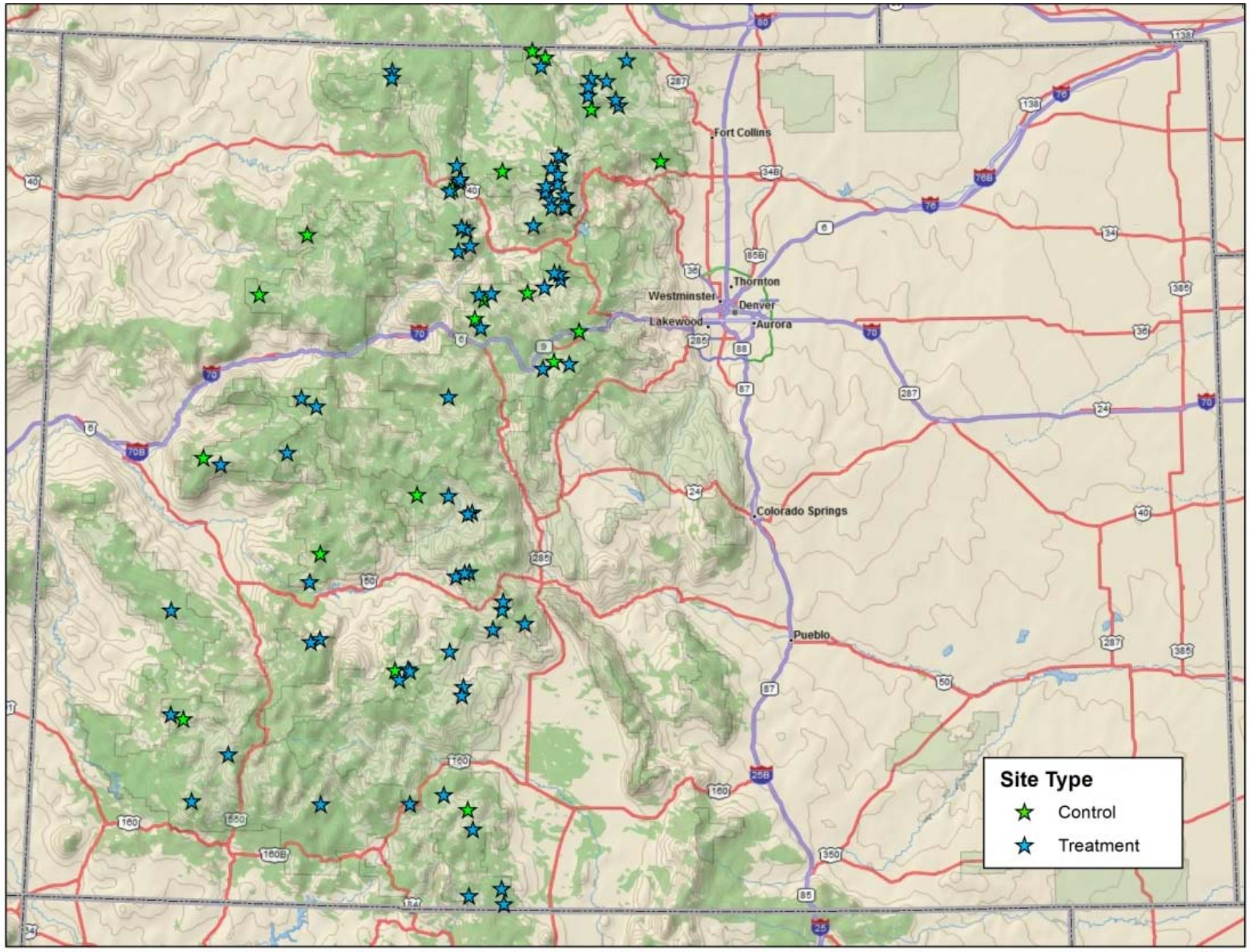
Lodgepole

N = 50 plots/stand



Spruce-fir





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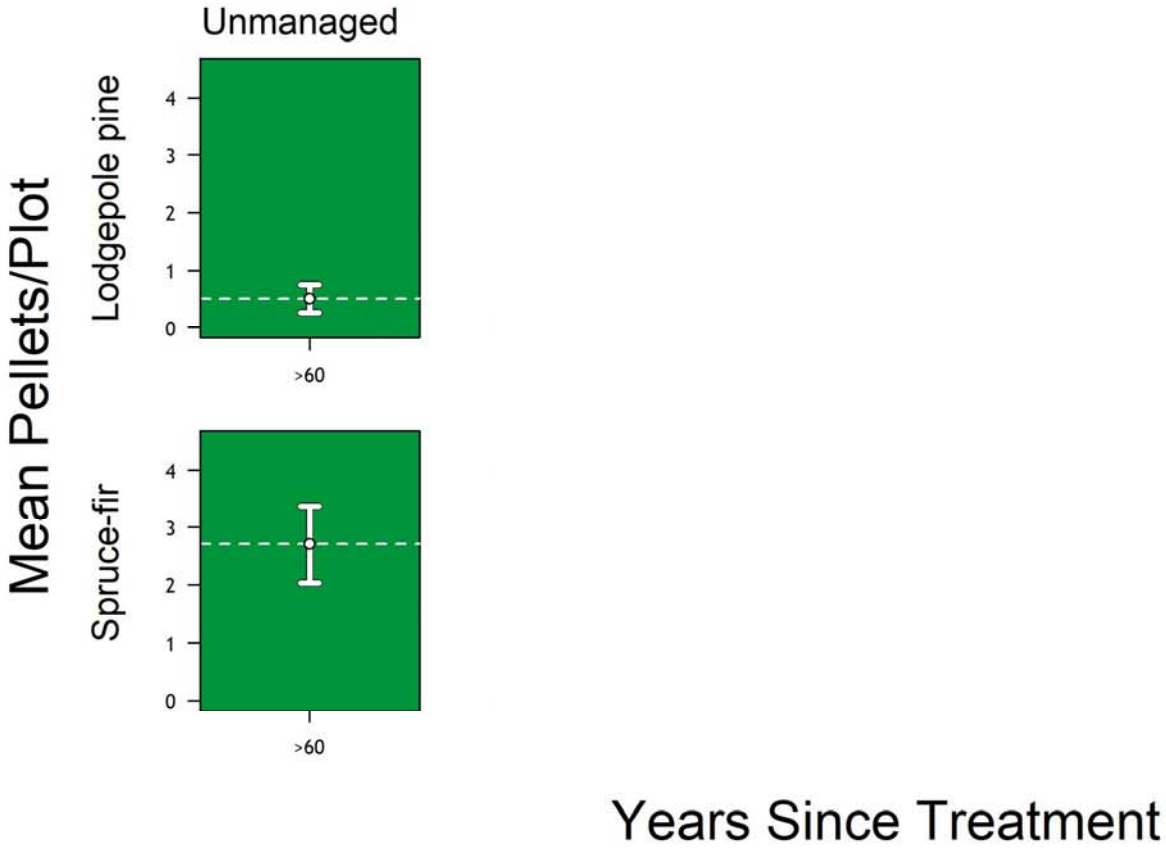
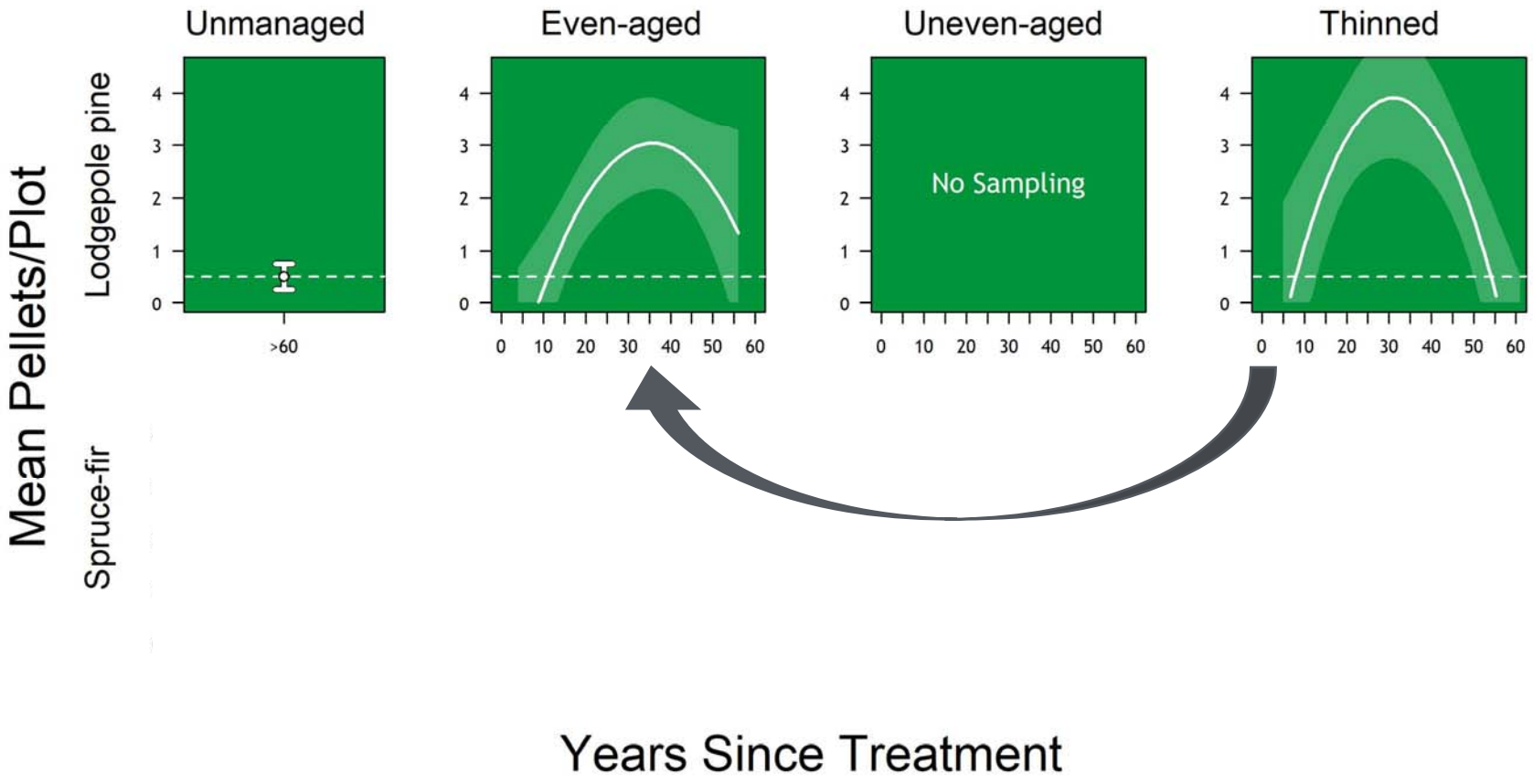
Preliminary Results:



Preliminary Results:



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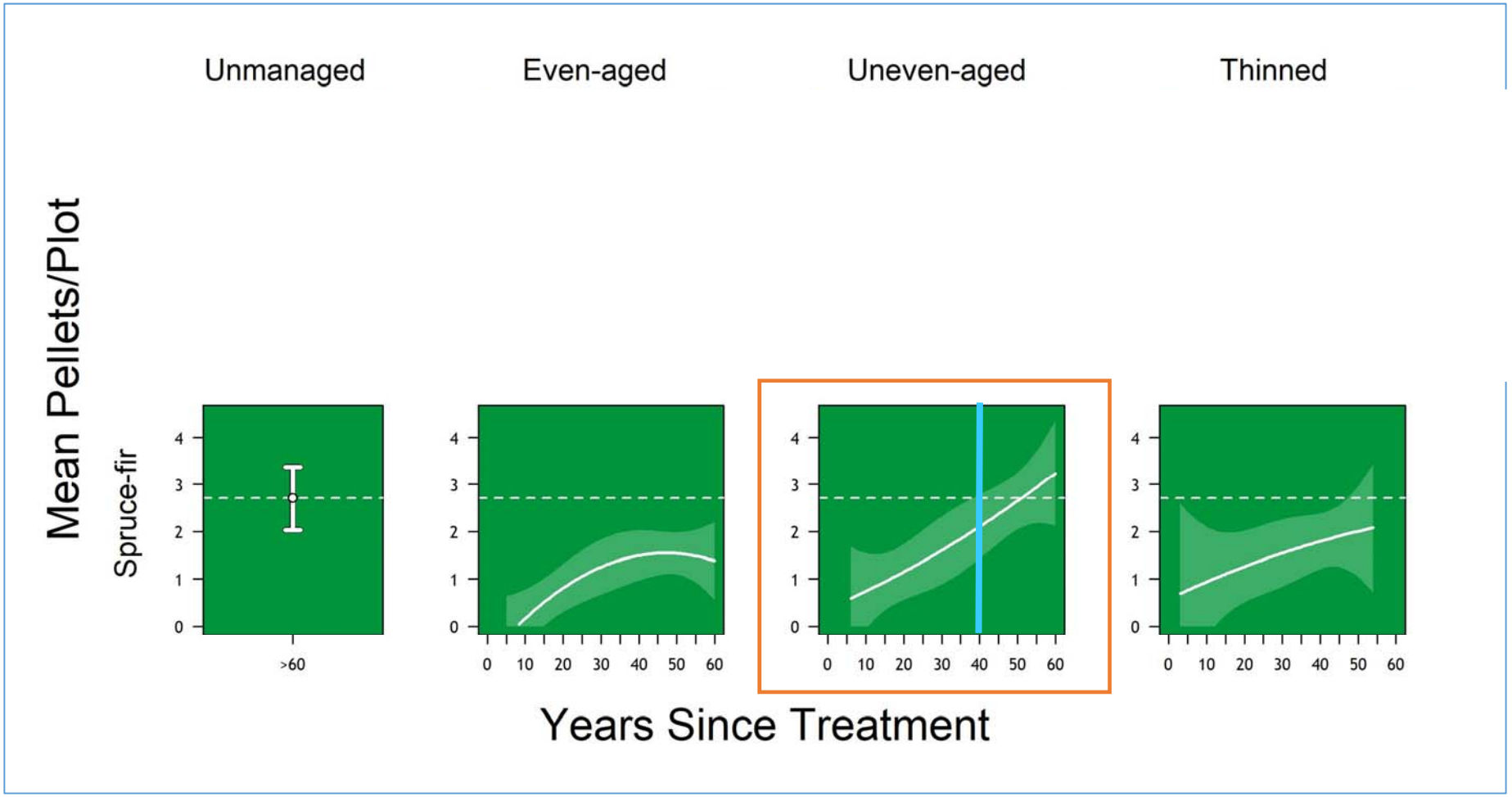
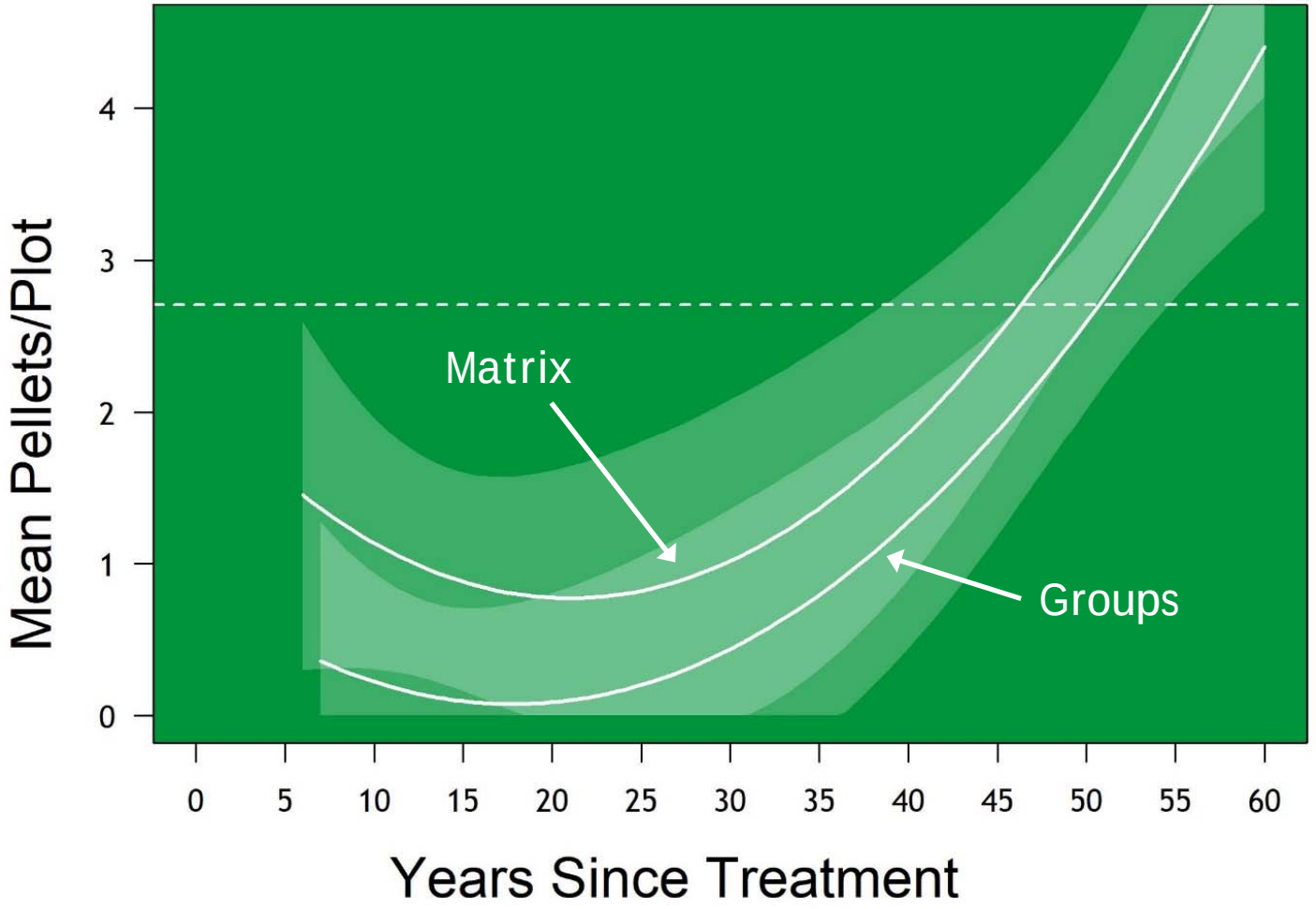


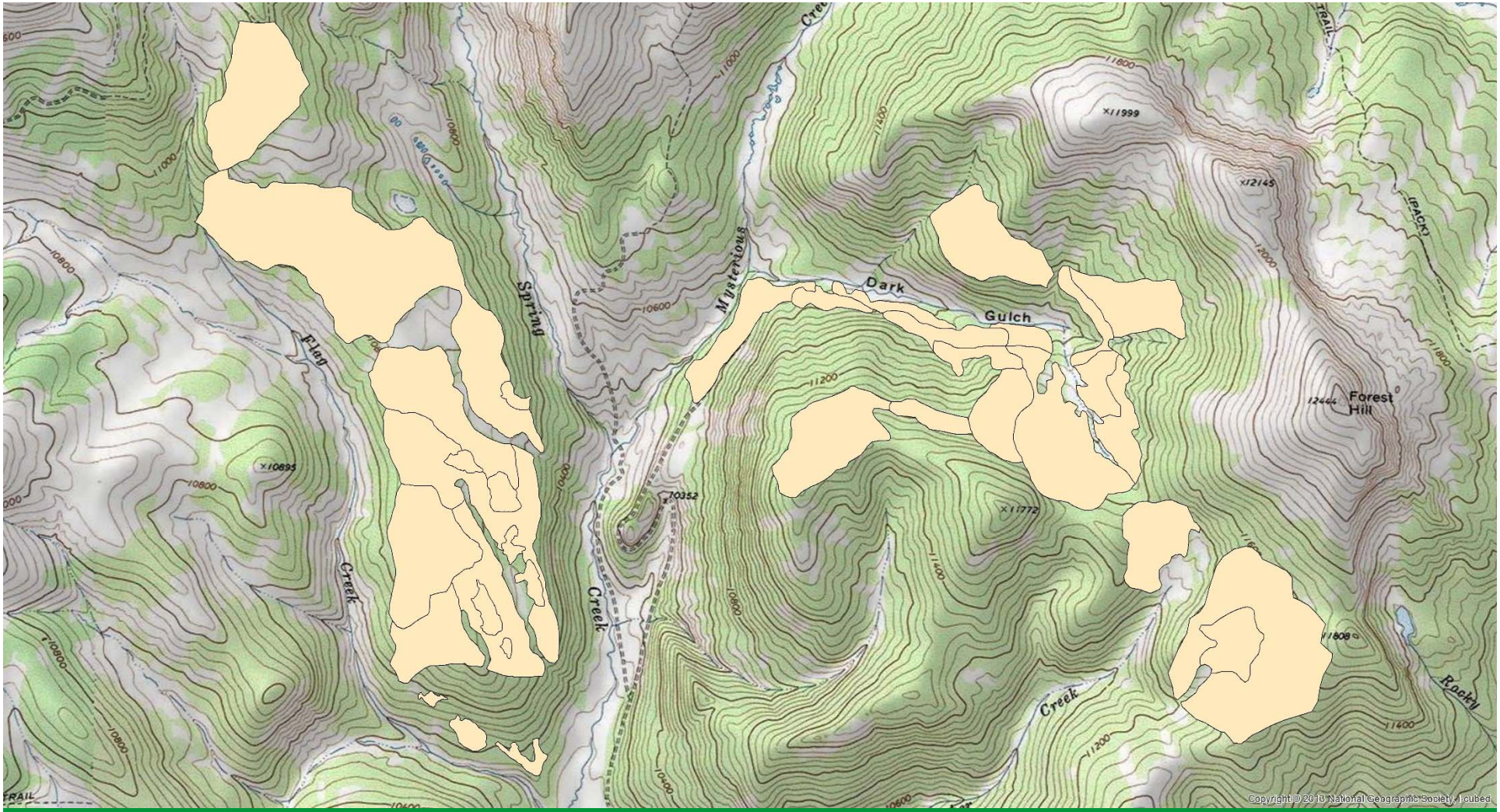
Preliminary Results:



Next Project:

- Planning App?
  - You feed it a landscape of polygons
  - Attribute the polygons with cover type & last treatment
  - It calculates total hares for the landscape and how that will change through time
  - Assess “what if” scenarios

Next Project:



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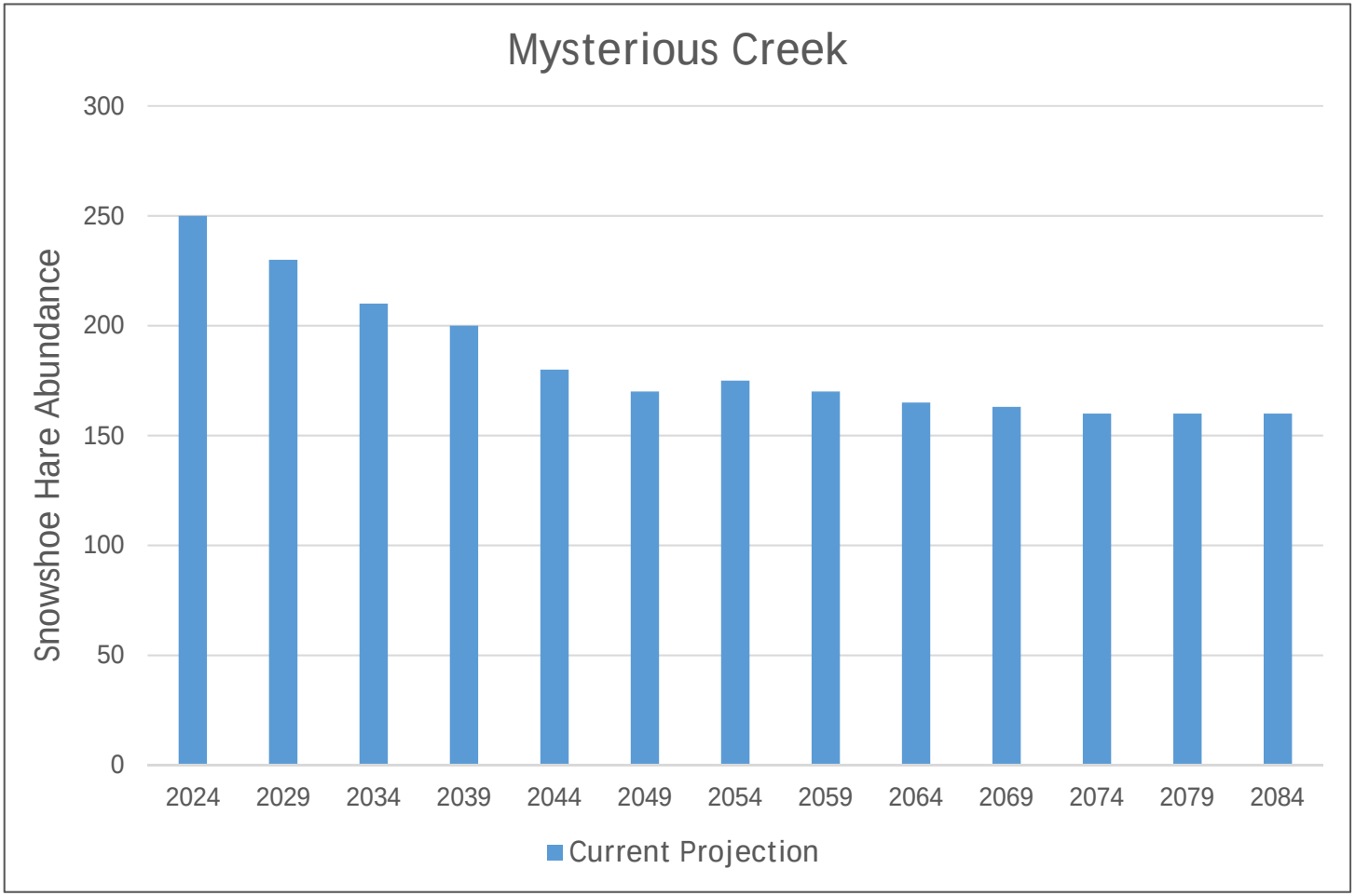
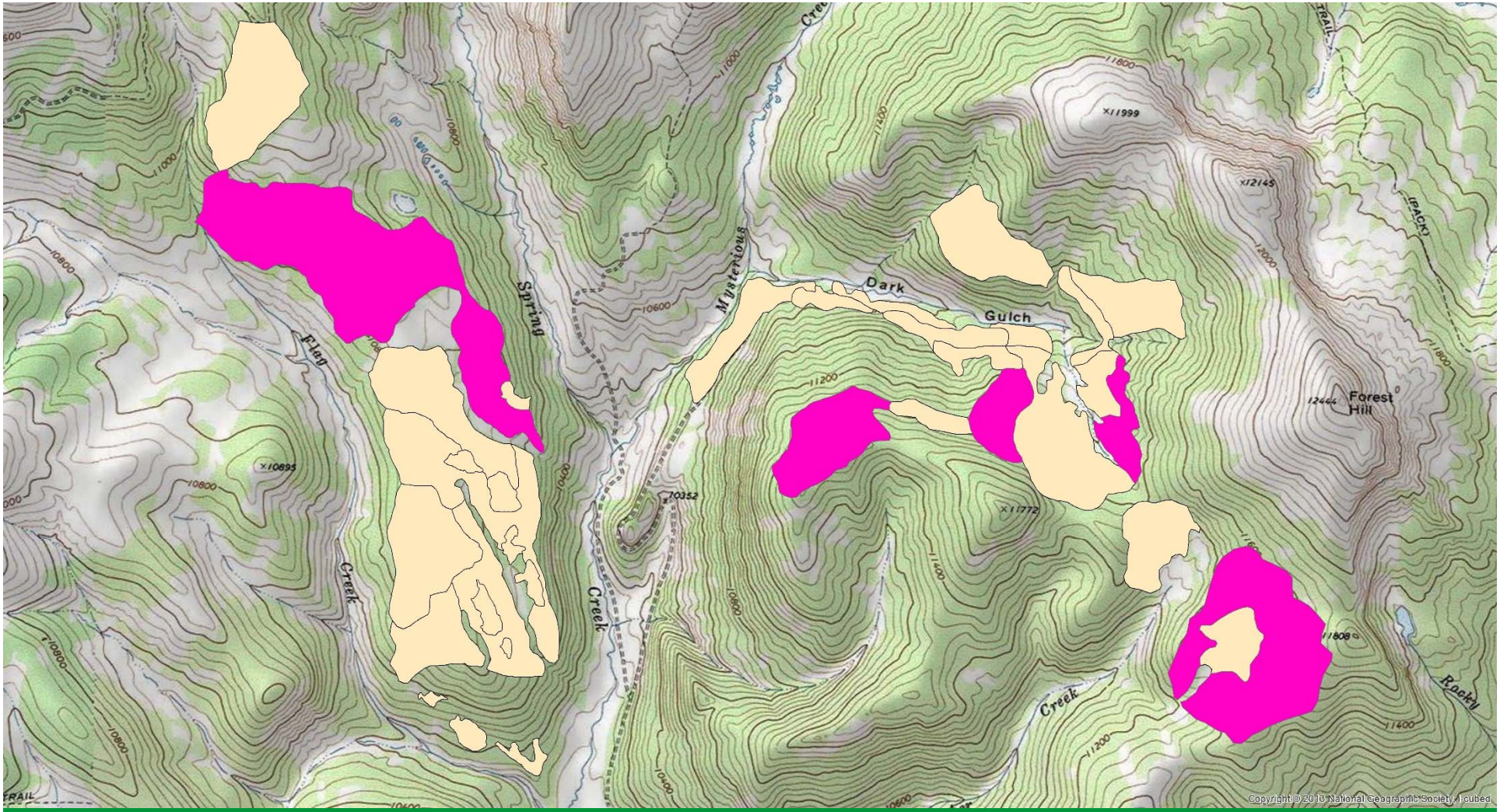
Next Project:



Next Project:



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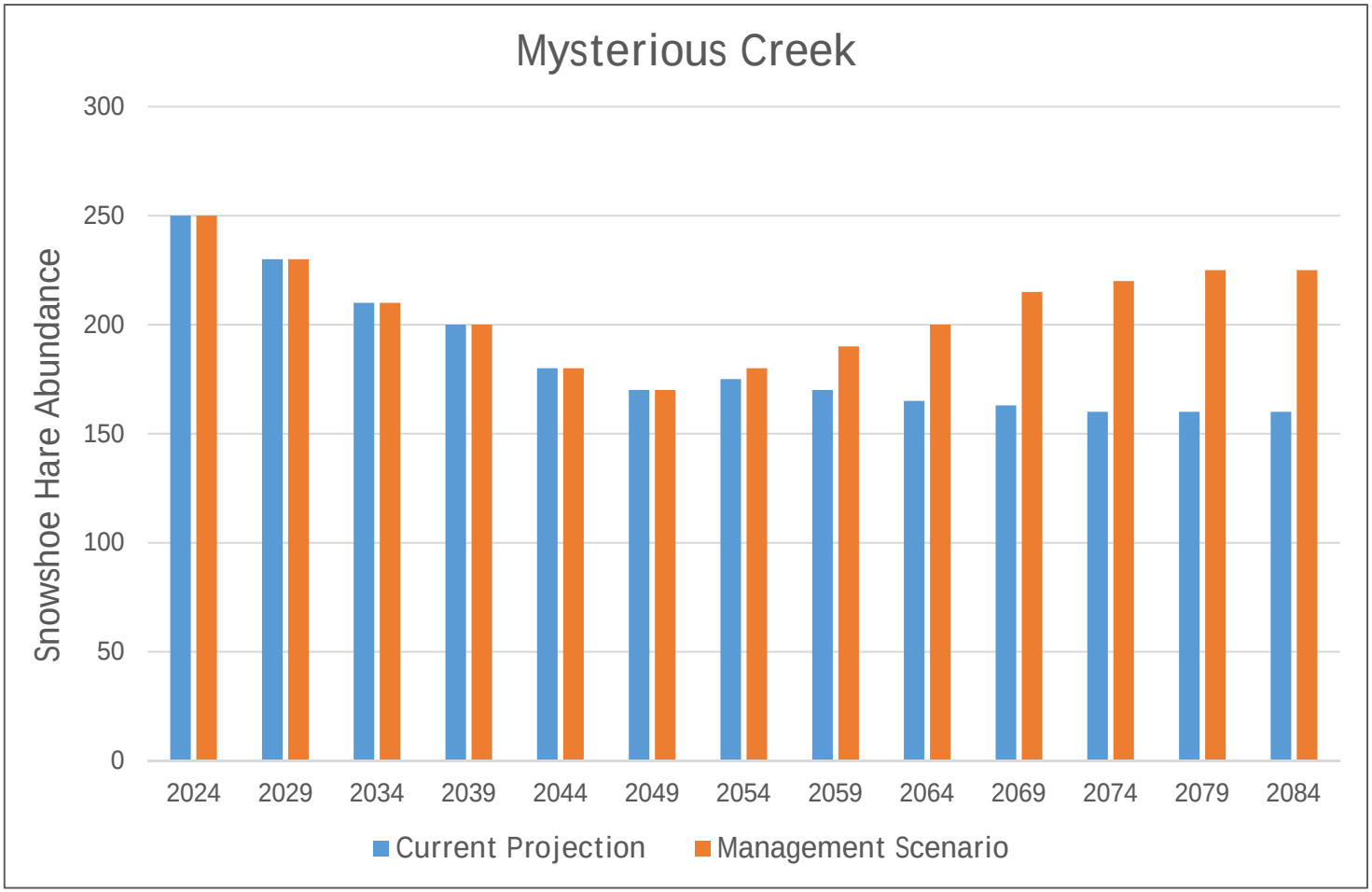
Next Project:



Next Project:

- Group Selection?
  - Is there much variation in group sizes?
  - Is there much variation in the % of a stand removed with each entry?
  - Does it matter that much?


LIVE LIFE
OUTSIDE
Questions?