

# Integrated Pest (Weed) Management

.....or what is Integrated???

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# The IPM ToolBox

- Prevention and Awareness
- Cultural (grazing, re-seeding)
- Biological (insects, sheep)
- Chemical (also called herbicides)
- Mechanical (disking, plowing, hand-pulling)

# The Idea of Healthy Plant Communities, “weed resistant”



# Grazing-Grass and Chemicals

- How did we get to this point?
- How much bare ground is there?
- What is currently growing on the site?
  - Annuals (I hope not)
  - Perennials (I hope so)

# How Does Grass Grow?



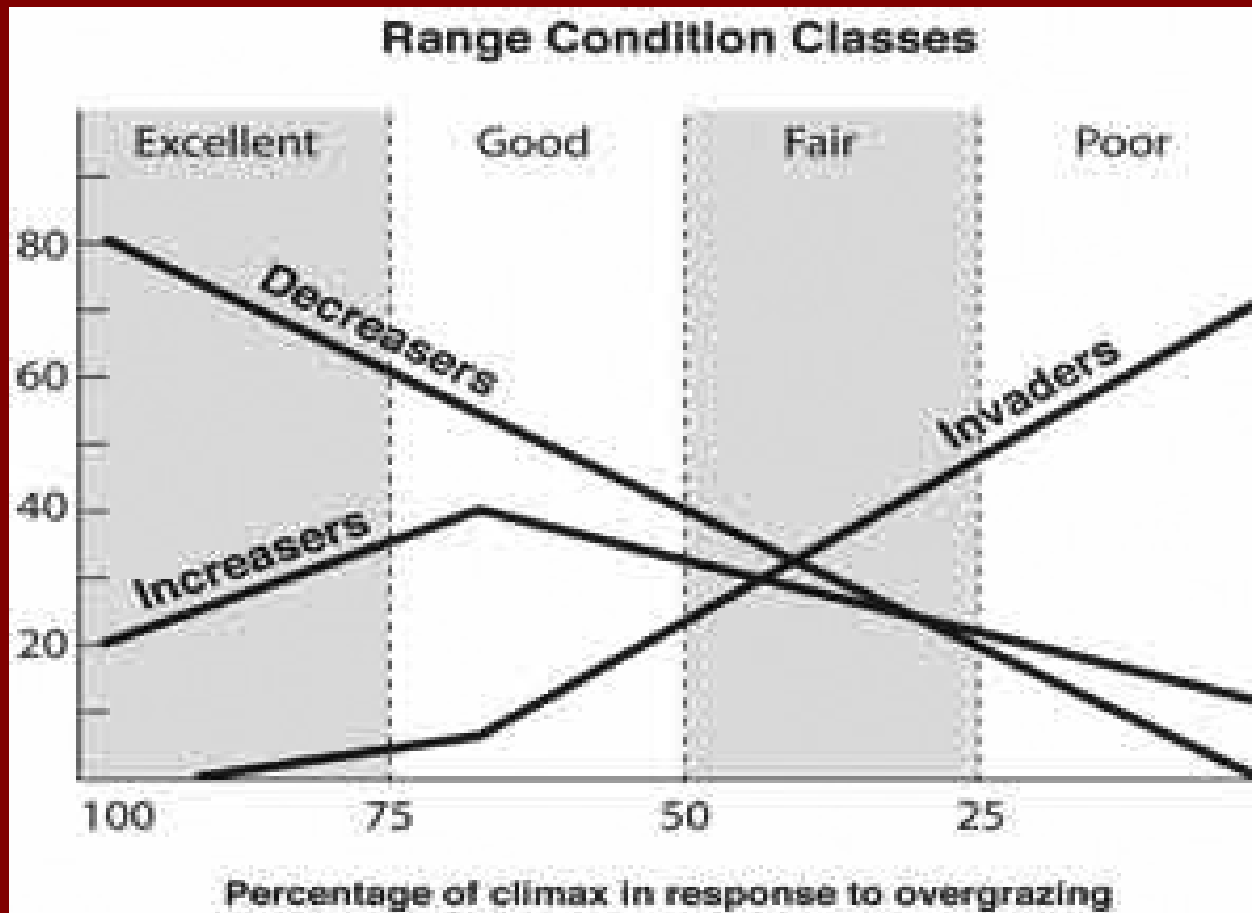
# Combining Grazing and Herbicide Use

- Cool Season grasses (Continual Spring use 😞)
- Nature will fill a (soil profile) vacuum
- Root (CHO) reserve recharge
  - Apical dominance, seed head formation

# “Range Trend”

1 point = snap shot

2+ points = direction of change



# Chemicals and Fertilizer?

- Ox Eye Daisy (where is it growing?)
- Low soil Nitrogen sites?
- Spotted Knapweed on rangeland
  - Research indicates (N) probably not. Plant communities evolved under scarce N conditions.

# Chemicals and Re-seeding?

- The “Bare ground” Conundrum
- 30% rule of thumb  
(ppt/annuals/perennials)
- Seeding into stands?