

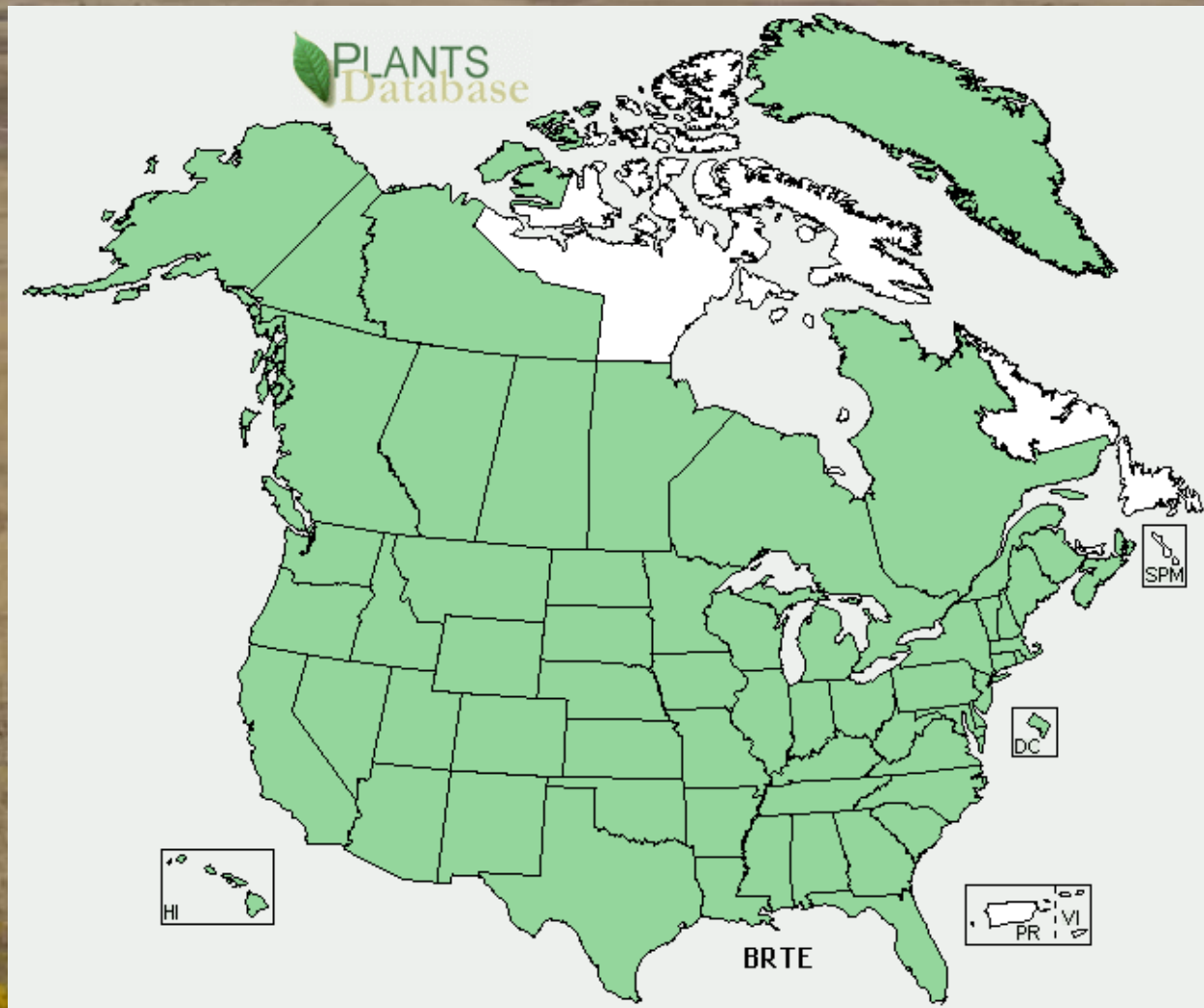
Is Sage-Grouse Habitat Management Compatible with Weed Management?



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Why is Weed Management Important?



Roadmap

- What is successful sage-grouse habitat management
- What is successful weed management
- Can we do both?

Sage-Grouse Management Perspective

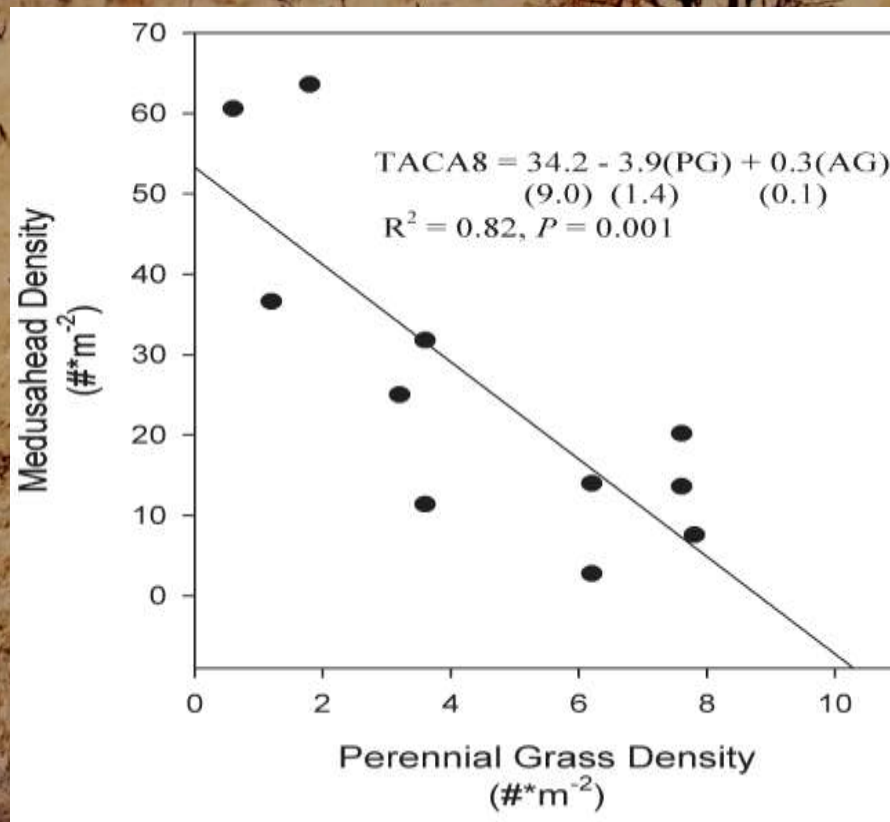
- Sagebrush cover and morphology
- Perennial bunchgrass cover and height
- Forb abundance

Table 3. Characteristics of sagebrush rangeland needed for productive sage grouse habitat.

	Breeding		Brood-rearing		Winter ^e	
	Height (cm)	Canopy (%)	Height (cm)	Canopy (%)	Height (cm)	Canopy (%)
Mesic sites ^a						
Sagebrush	40–80	15–25	40–80	10–25	25–35	10–30
Grass–forb	>18 ^c	≥25 ^d	variable	>15	N/A	N/A
Arid sites ^a						
Sagebrush	30–80	15–25	40–80	10–25	25–35	10–30
Grass/forb	>18 ^c	≥15	variable	>15	N/A	N/A
Area ^b	>80		>40		>80	

Weed Management Perspective

- Perennial bunchgrasses are key to reducing annual grasses



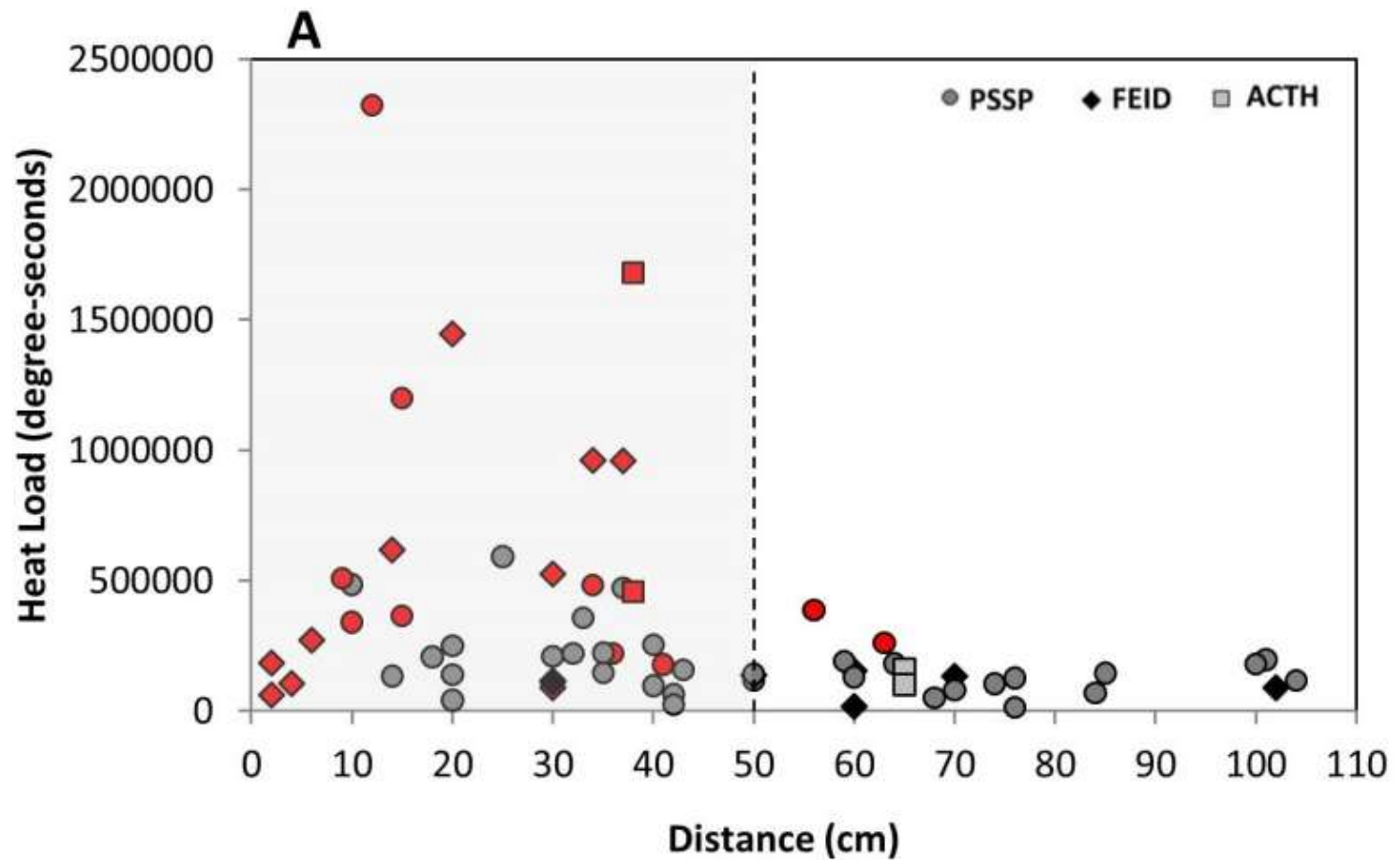




Why not shrubs?

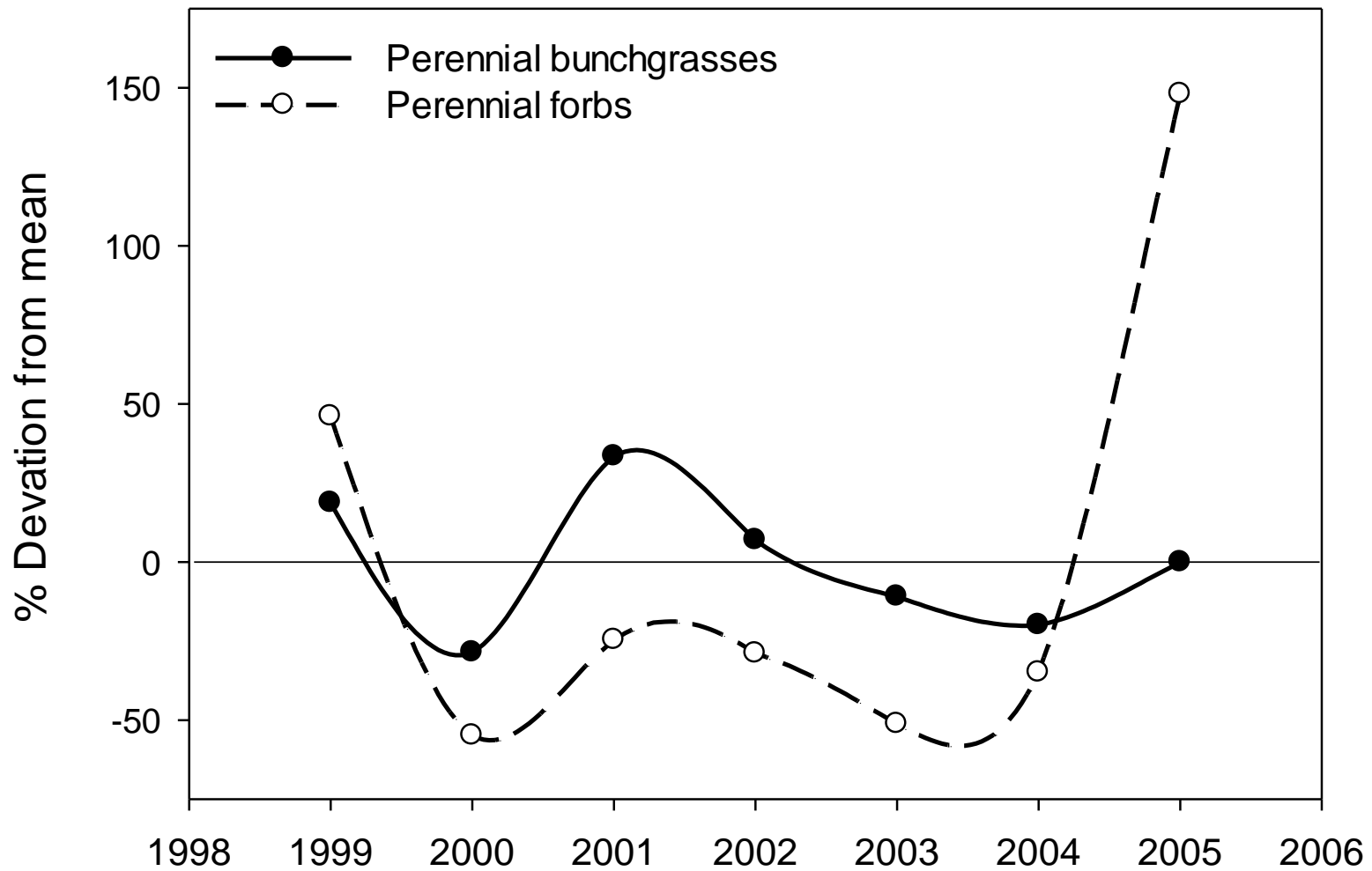


Why not shrubs?





Why not forbs?



A

**Sagebrush - Perennial
Herbaceous State**



B

**Perennial
Herbaceous State**



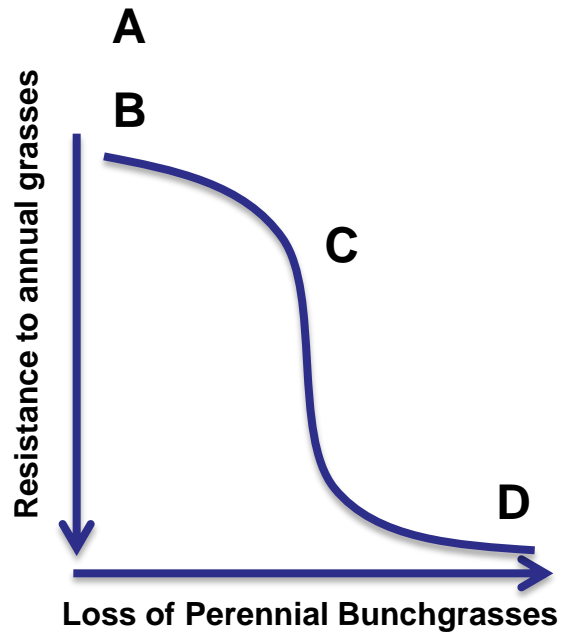
C

**Degraded Sagebrush
State**



D

**Exotic
Annual Grass State**



A

**Sagebrush - Perennial
Herbaceous State**



B

**Perennial
Herbaceous State**



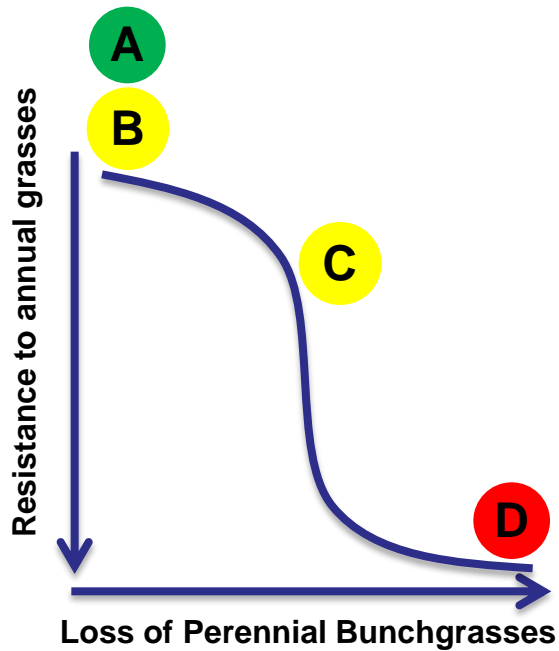
C

**Degraded Sagebrush
State**

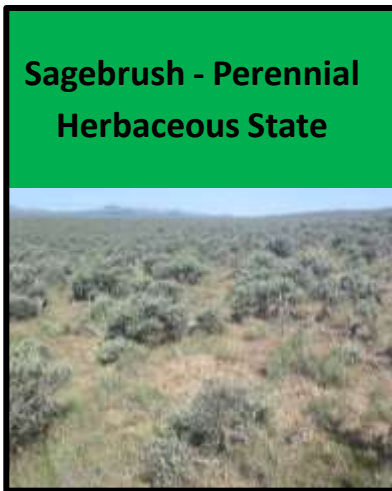


D

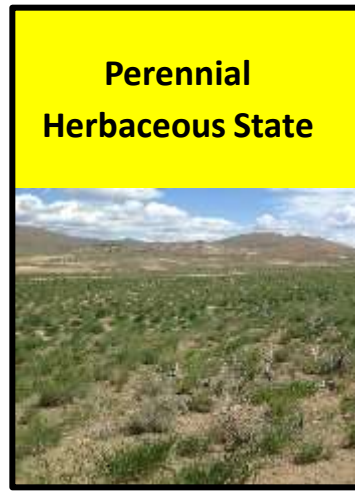
**Exotic
Annual Grass State**



A



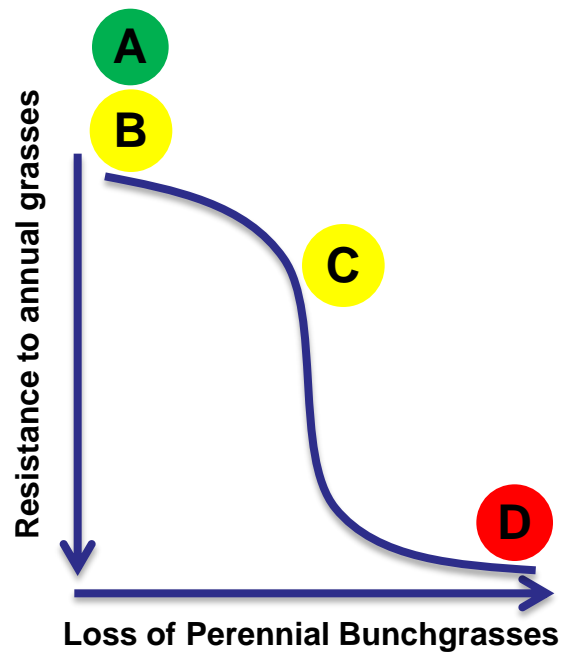
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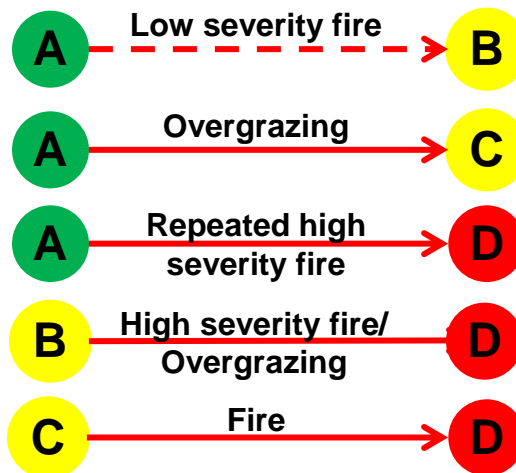
C



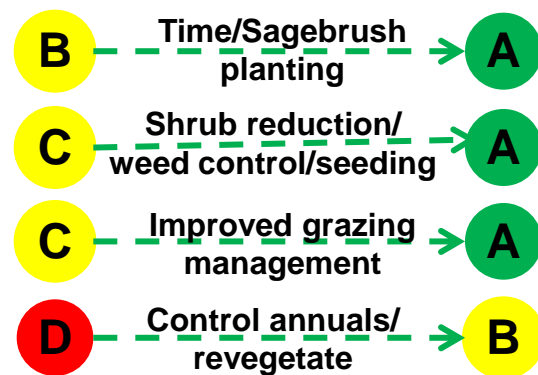
D



Threats



Conservation Measures



Implications

- Weeds (annual grasses) are the ultimate enemy of sage-grouse habitat managers and weed managers
- Considering the ecology of the PC and the needs of grouse can lead to a common solution

