Invasive Plant Remooooval









MADISON



How grazing can change plant composition

Rotational Grazing is similar to Fire



Results depend on

- 1. Time of year
- 2. Fuel load
- 3. Weather conditions
- 4. Frequency
- 5. Species present
- 6. Many more

How you implement will alter the result.....

Rotational Grazing is similar to Fire



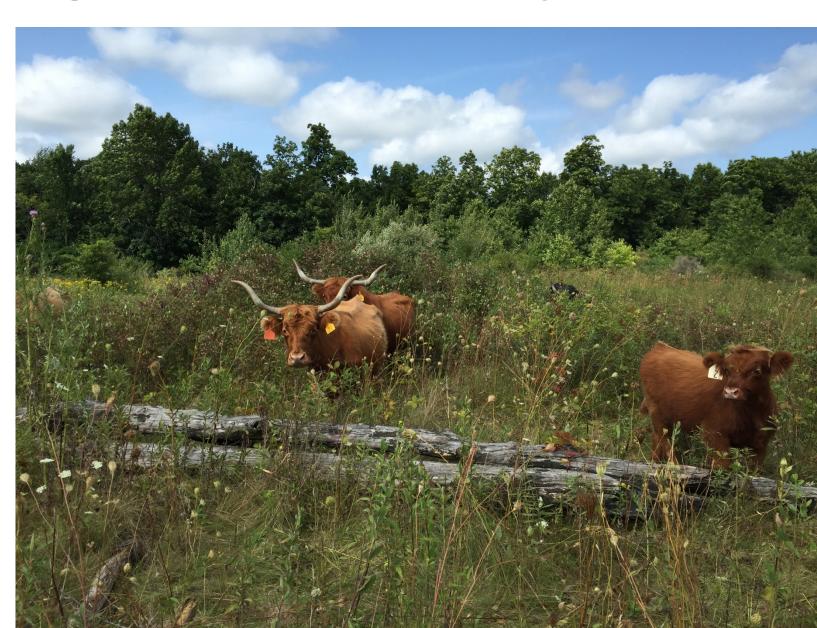
Results depend on

- 1. Stocking rate/density
- 2. Frequency of grazing
- 3. Length of grazing
- 4. Species present
- 5. Many more

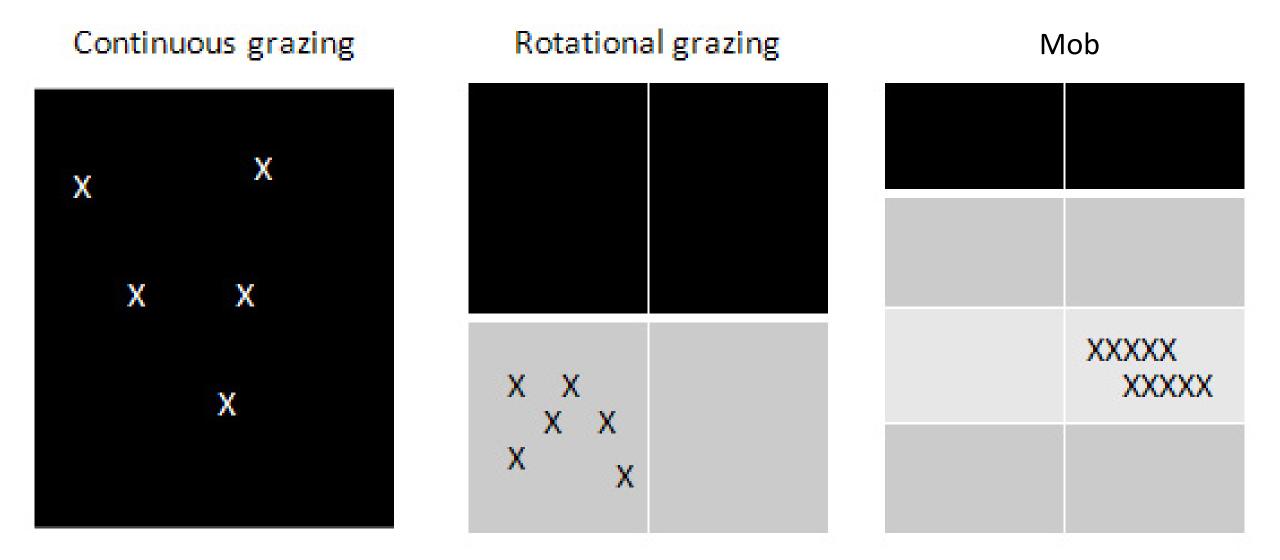
How you implement will alter the result.....

How does grazing control invasive plants?

- Eating plant tissue
- Physical impact
 - Breaking stems, trampling roots
- Promote grass competition



The Grazing Spectrum



Rotational Grazing

60,000 lbs/A

Mob Grazing

400,000 lbs/A



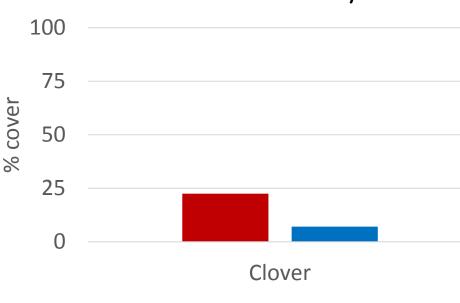
Initially > 75% Kentucky Bluegrass

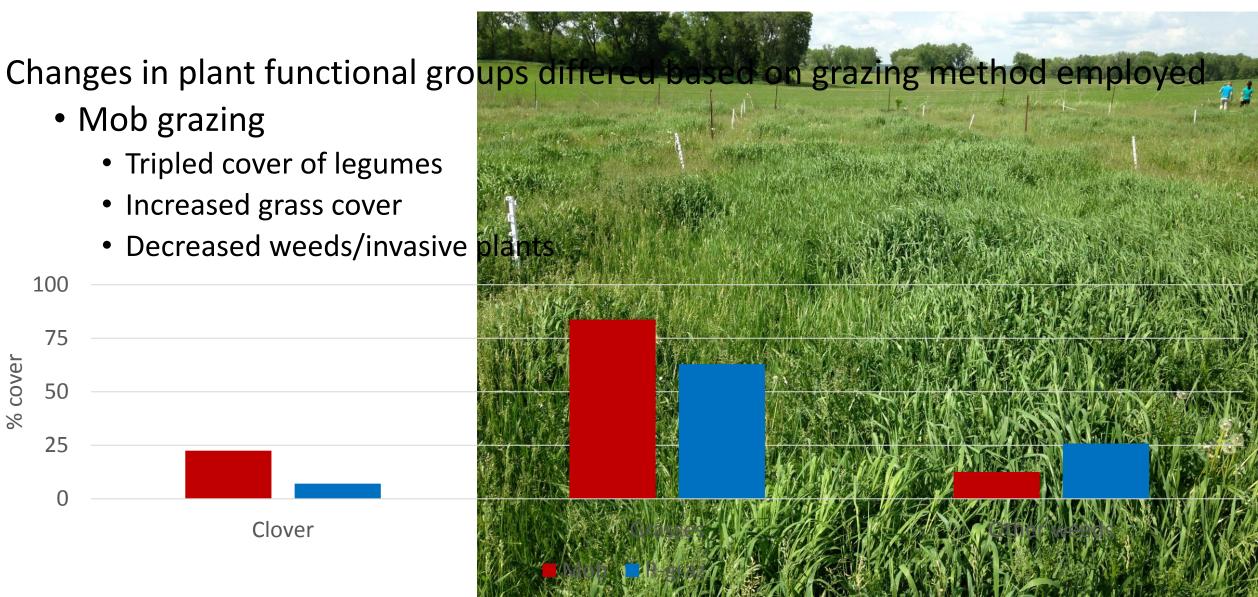


3 years after rotational grazing

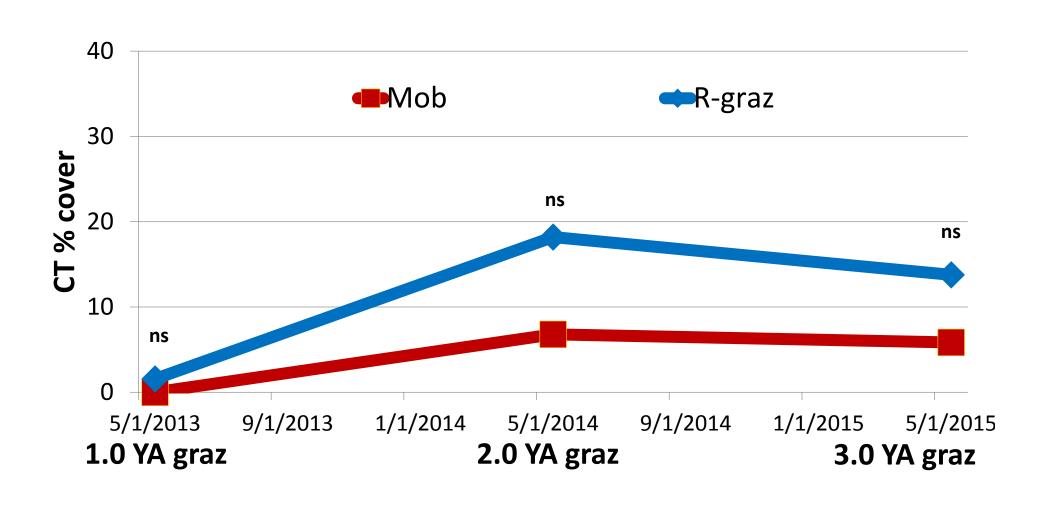
50% less KBG

- Mob grazing
 - Tripled cover of legumes
 - Increased grass cover
 - Decreased weeds/invasive plants

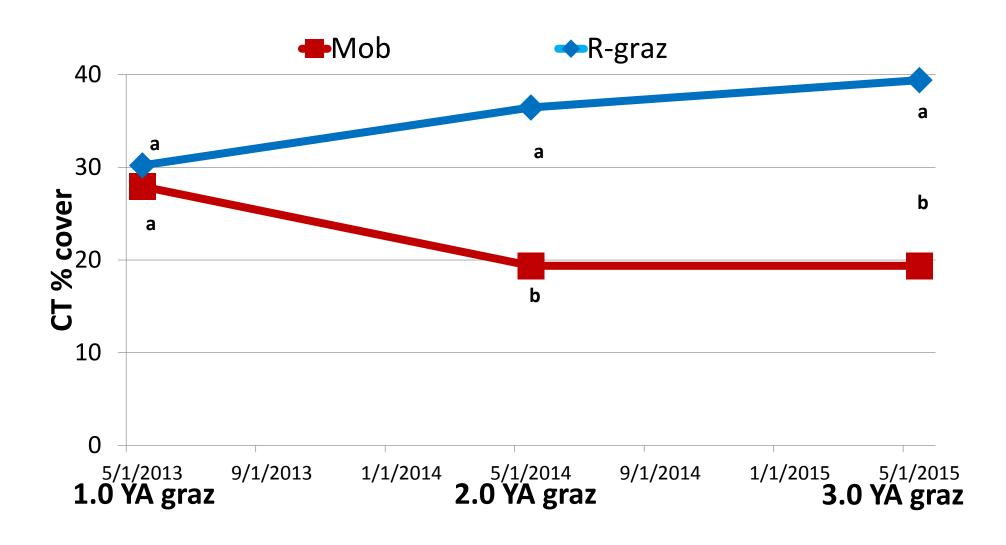




Canada Thistle Cover 1 — 3 YAT Prairie du Sac WI 2011-2015



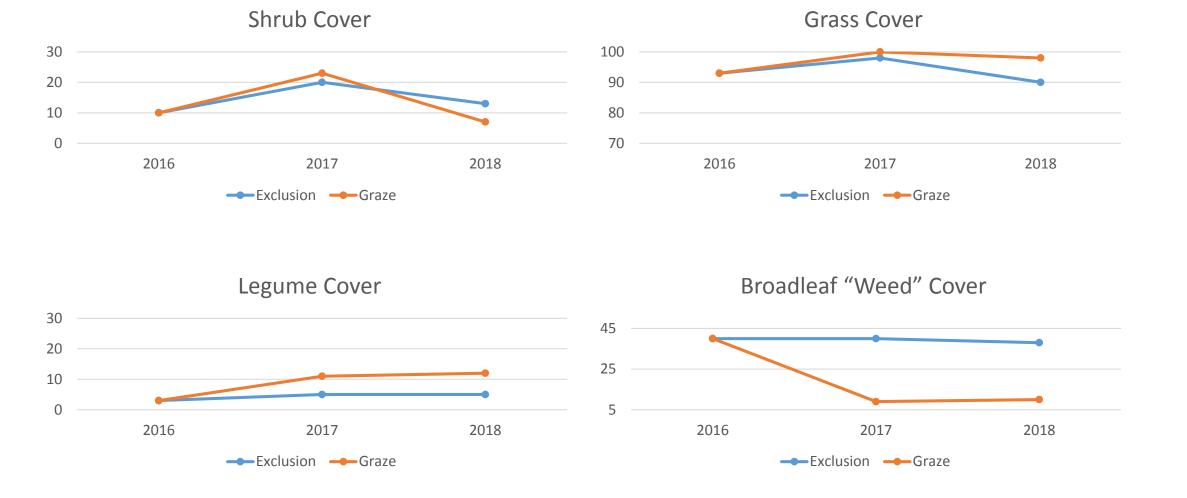
Canada Thistle Cover 1 — 3 YAT Lancaster WI 2011-2015



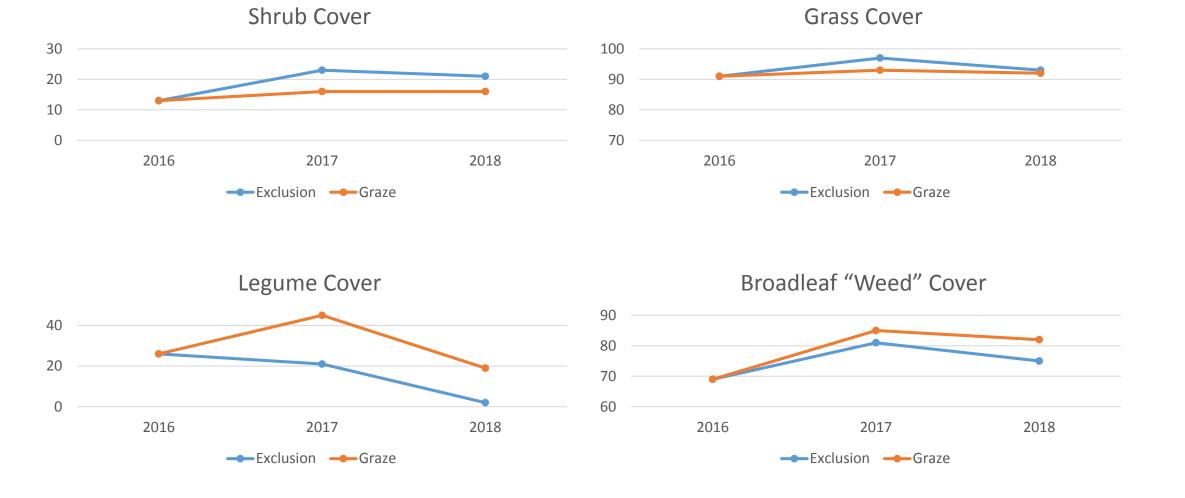
Grazing Management at WI-DNR sites

	Hook Lake	Buena Vista	Western Prairie
Animal	Scottish Highland cattle (7 animal units)	Red angus cow-calf pairs (113 animal units)	Holstein heifers (40 animal units)
Stocking density	1,784 lbs/a	12,491 lbs/a	11,538 lbs/a
Grazing length per paddock	1-3 weeks, grazed once in 2016 and 2017	1-3 days, grazed twice in 2016, four times in 2017.	1-2 weeks, grazed twice in 2017

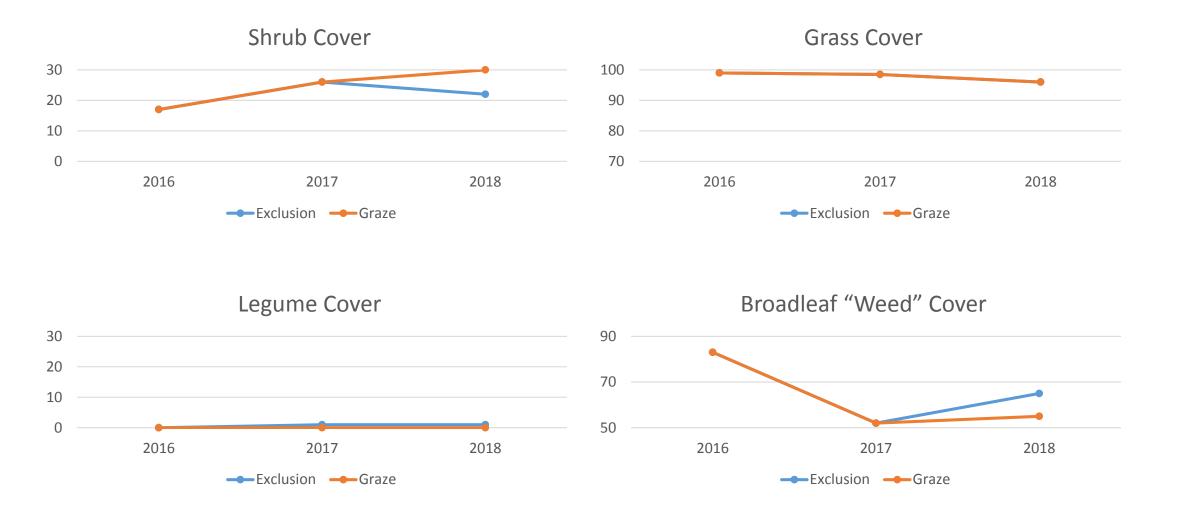
Buena Vista Results after 2 years of grazing....



Hook Lake Results after 2 years of grazing....



Western Prairie Results after 1 year of grazing....



Will continue grazing for 2 more years.....

- Will brush cover begin to decline at all sites?
 - Trend but not significant
 - Will susceptible brush be replaced with tolerant shrubs?
- Will grass continue to dominate?
 - All trends say yes
- Will broadleaf "weeds" continue to decline?
 - Only significant at one location
- What will happen with legumes?
 - Variable responses, likely based on species present at each location

