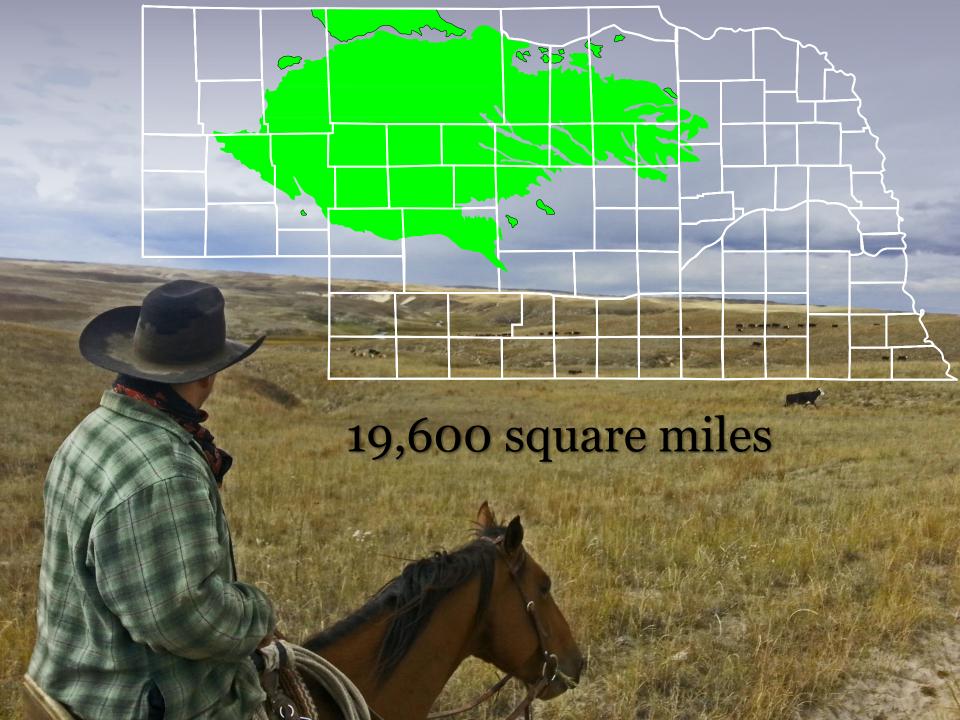
# Ranching & Conservation:

The Sandhills Task Force's Landscape Impact



#### Overview

- Information about the Nebraska Sandhills
- Sandhills Task Force
- Projects & Impacts





### Nebraska Sandhills

• Largest contiguous native grassland in North America.



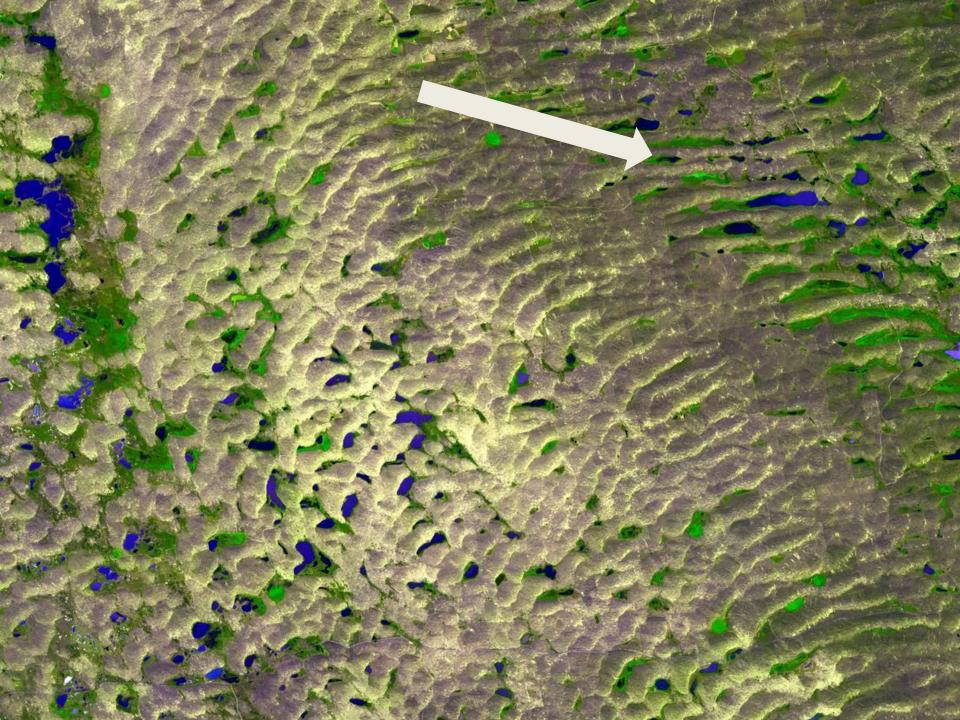
#### Nebraska Sandhills

- 19,600 square miles
- 90% private ownership
- 95% grassland
- About 1 billion acre feet of groundwater
- 1.3 million acres of wetlands
- 1,500 2,000 lakes
- First ranches began in late 1800's

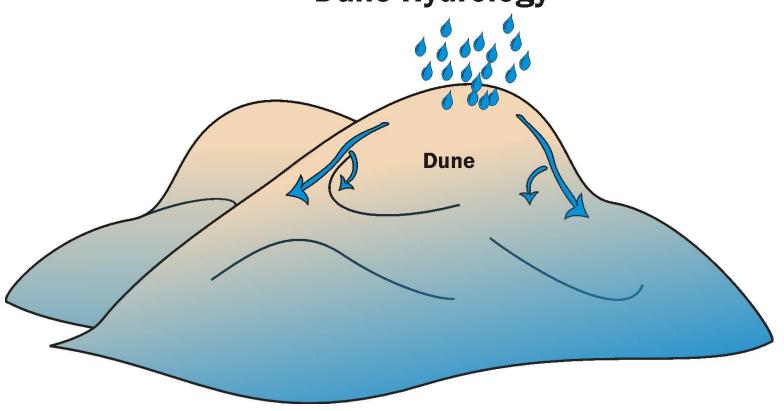
#### Nebraska Sandhills

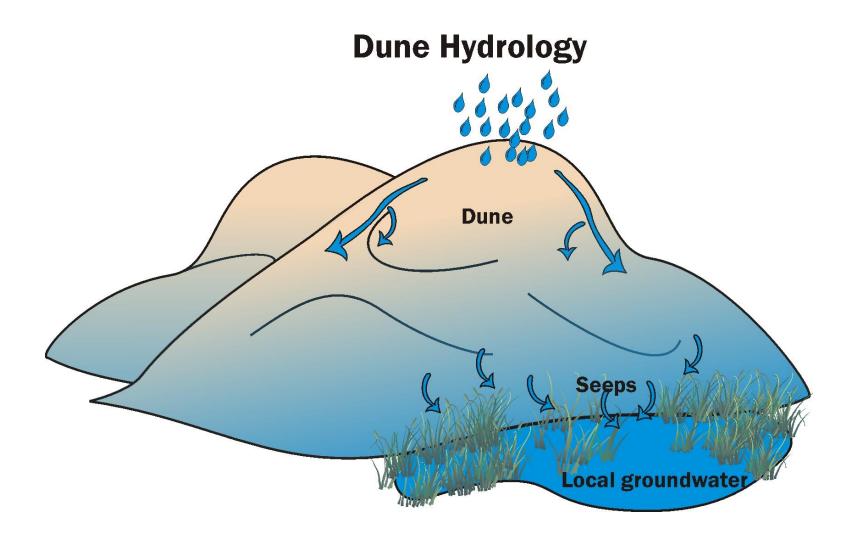
- Geologically young formation.
- Once a spruce & aspen forest.
- Major droughts.
- Wind deposited sand.
- Stabilized in last 100 years.

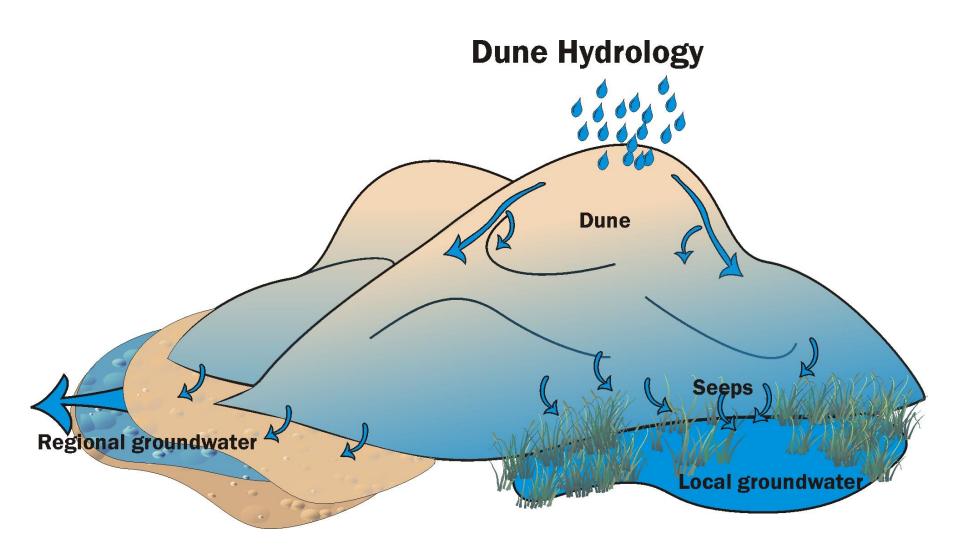




#### **Dune Hydrology**







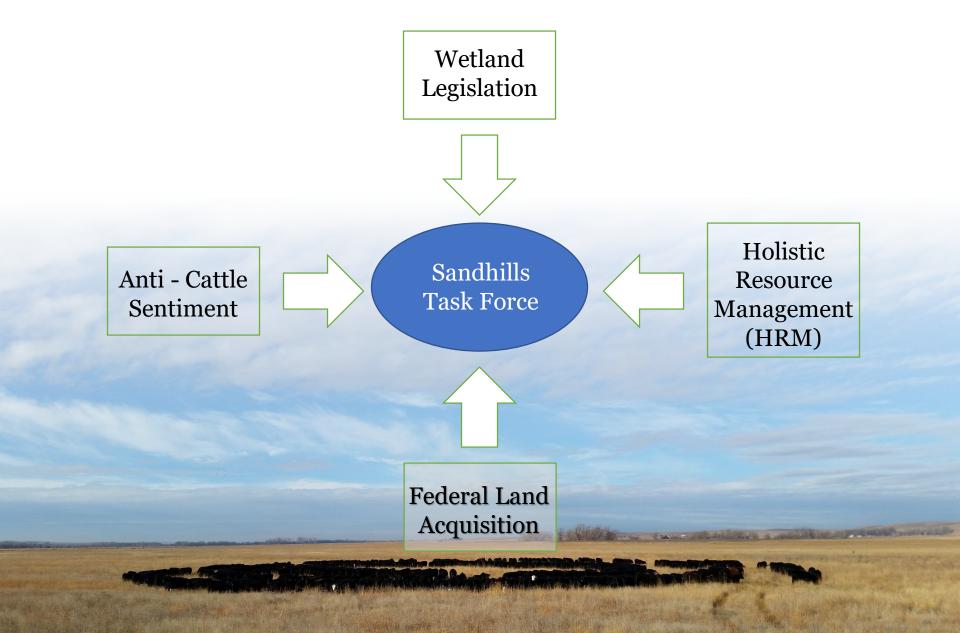




Non-profit organization and land trust



#### Formation of Sandhills Task Force



### **Mission Statement**

"To partner with ranchers; local communities, groups, and organizations; and local state and federal agencies to identify, prioritize, plan, and implement mutually acceptable projects that benefit private ranching, wildlife and vegetative diversity, and associated water supplies."



- Established in early 1990s
- 16 board members
  - 9 ranchers
  - Representatives from Nebraska Cattlemen,
     NE Game and Parks Commission, US Fish
     and Wildlife Service, Natural Resources
     Conservation Service, The Nature
    - Conservancy, Natural Resource District,
    - County Commissioner

### Partnerships





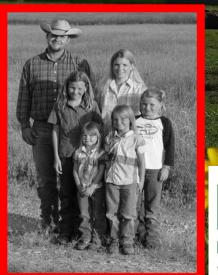
























Connecting People, Birds and Land



Landscape Strategies

- Restoring hydrology to streams and wetlands
- Designing grazing plans
- Eastern red cedar control
  - Mechanical treatment
  - Prescribed burn
- Invasive carp removal
  - Lake renovations
- Education/Outreach
  - Tours/meetings
  - Hands on burn training
- And more

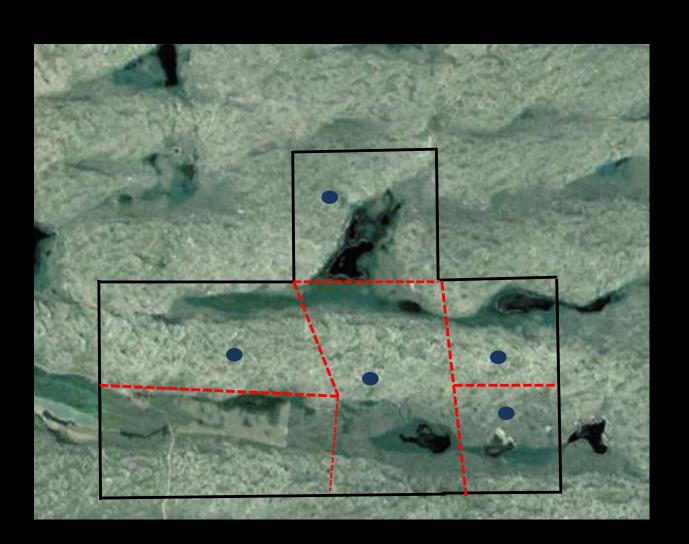


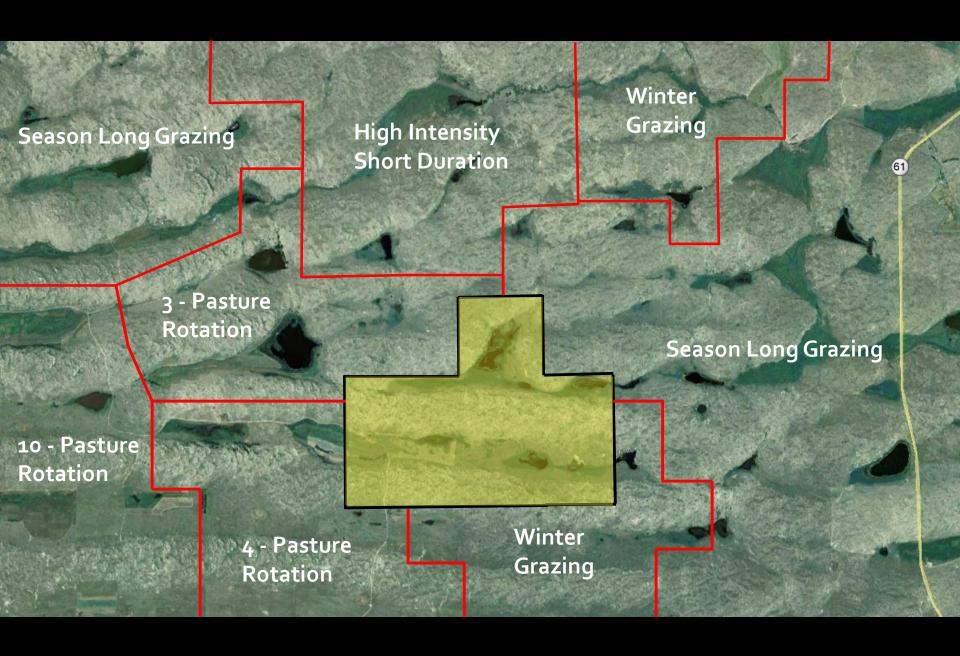
## Grazing Management

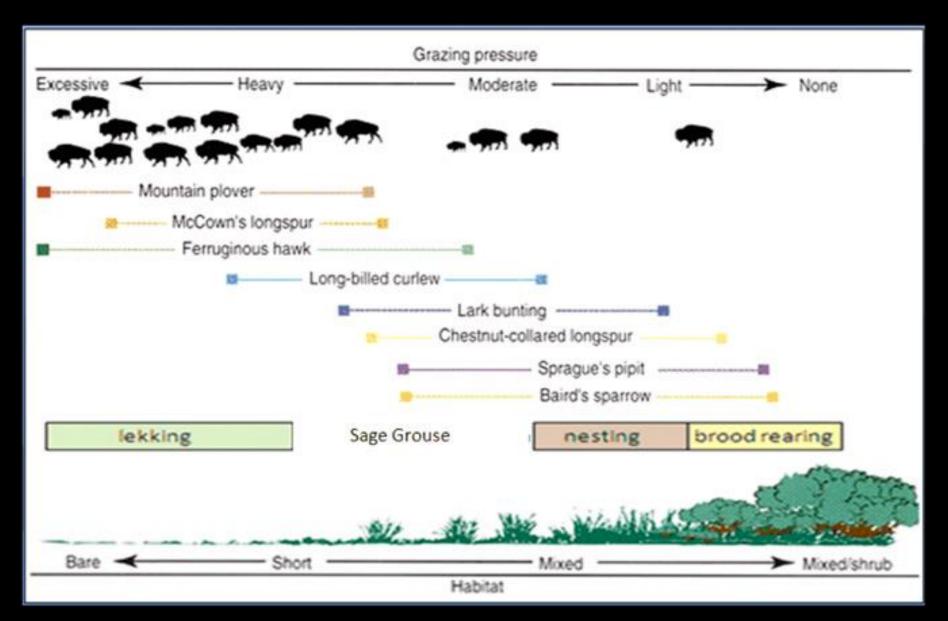
- Economics & Tradition
  - One chance a year to get it right.
  - Profitability and wildlife habitat.
- Peer Pressure
- Landscape view
  - Dynamic system

# Grazing Systems

- Season long → Planned Grazing System
- Rotational Grazing
  - Provides opportunity for variable stocking rates
  - Restrict time of use (rest)
  - Manage invasive species
  - Fence wetland/riparian areas into units









#### Stream Restorations

- Down-cutting causes
  - Historic ditching
  - Road crossings
  - Connecting river/stream level lowered





















## Lake Renovations

- Invasive carp
  - Poor water quality
  - Poor fishery potential
  - Poorwaterfowlhabitat

## YOUR STRESS O' THE DAY

Y	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
E	GLOBAL 1	COLOSSAL 2	IRANIAN 3	INVASIVE 4
5	ECONOMIC	FEDERAL	NUCLEAR	CARP
	COLLAPSE	DEBT	ARMAGEDDON	CARP??
	MIKE THOMPON® PETROIT FREE PRES	9	10	11



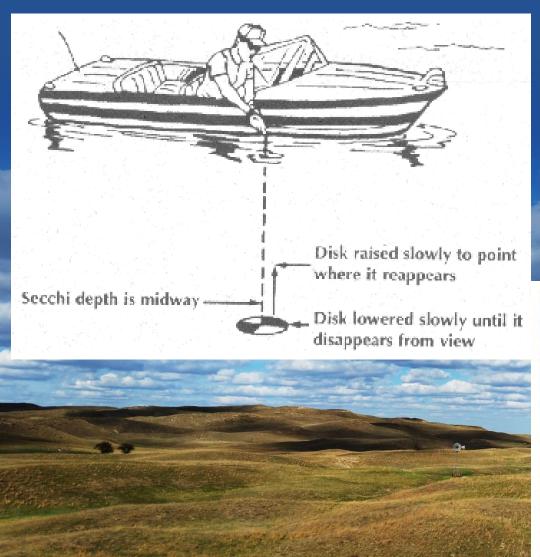








# How do we know it works?







## Eastern Red Cedar

- Pros
  - Easy to get established
  - Grows quickly
  - Dense
- Cons
  - Easy to get established
  - Grows quickly
  - Dense





# Overlooked Problems

Accretion property



### Overlooked Problems

That lone tree in the pasture.



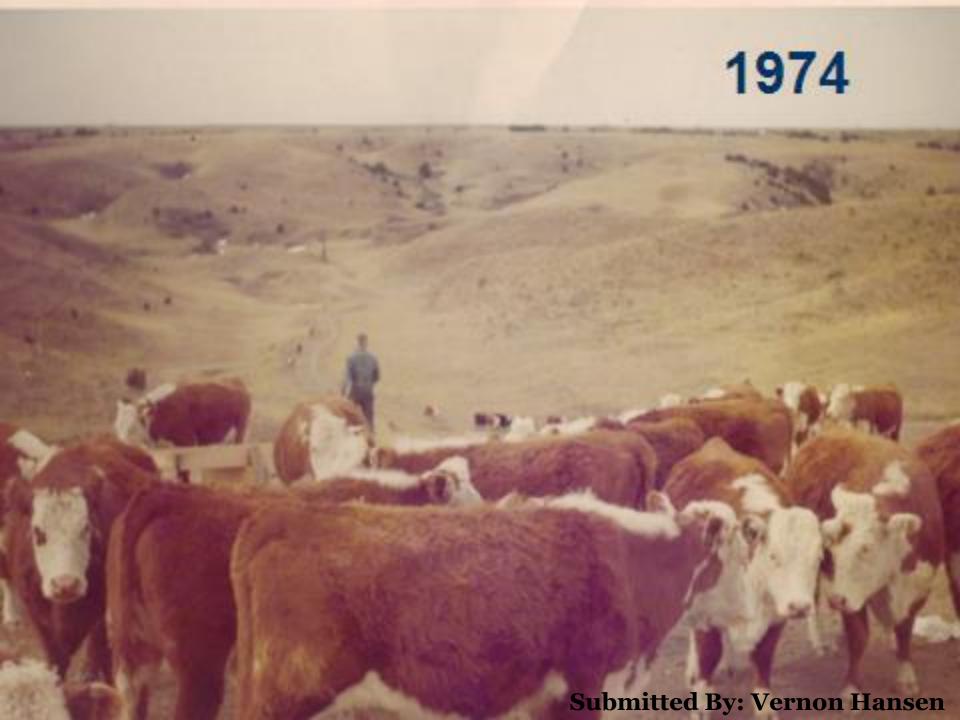






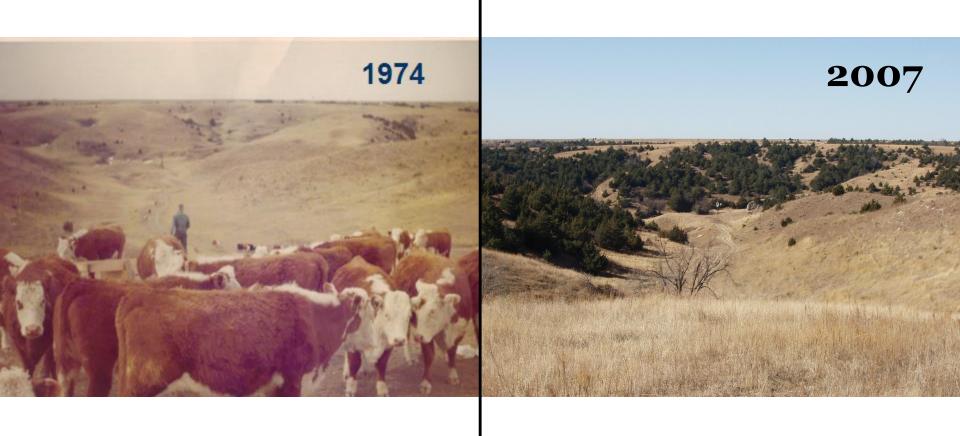






# 





## **Control Methods**

- Cultural
  - Prescribed Burning
- Mechanical
  - Cut below lowest branch
- Chemical



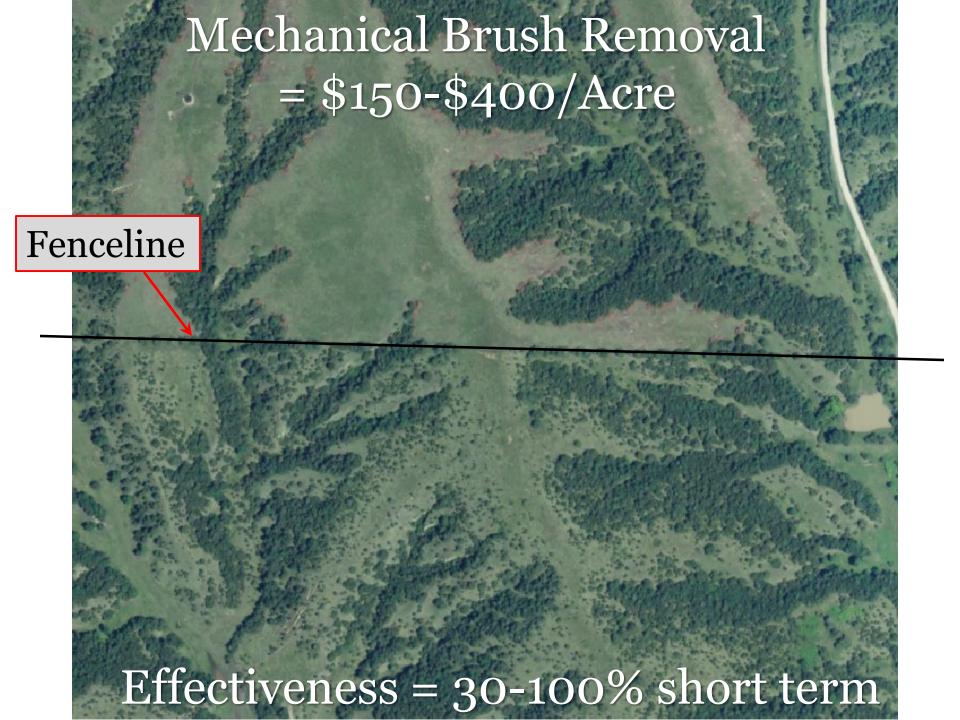












# STF and Partners Impact on Cedar Invasion

- Over 27,000 acres cleared of invasive cedars in the last 5 years
- Currently have 27,000+ acres in contract or in planning phase
- For every \$1 STF spends, \$4.46 is leveraged from partners
- Average cost of \$13.56/acre



#### Outreach

- Ranch Tours
- Informational meetings
- Hands on prescribed burn trainings
- Supporting Nebraska Youth Range Camp
- Supporting Nebraska Leopold Conservation Award
- Providing a scholarship for UNL Grazing
   Livestock Systems major









- 25 participants in Ericson!
- 80% had zero prescribed burn experience
- Successfully burned 2 units
- Shared a lot of information and people were able to ask lots of questions.











Come learn prescribed fire techniques and safety measures from a professional prescribed burn contractor! Registration is FREE, Lunch is provided!

Two locations in the

**Sandhills:** 

Will be scheduled for spring of 2018

**How to Register:** 

Email or text/call Tad to get on the contact list:

Tad@sandhillstaskforce.org

402-340-6839

Training sponsored by:



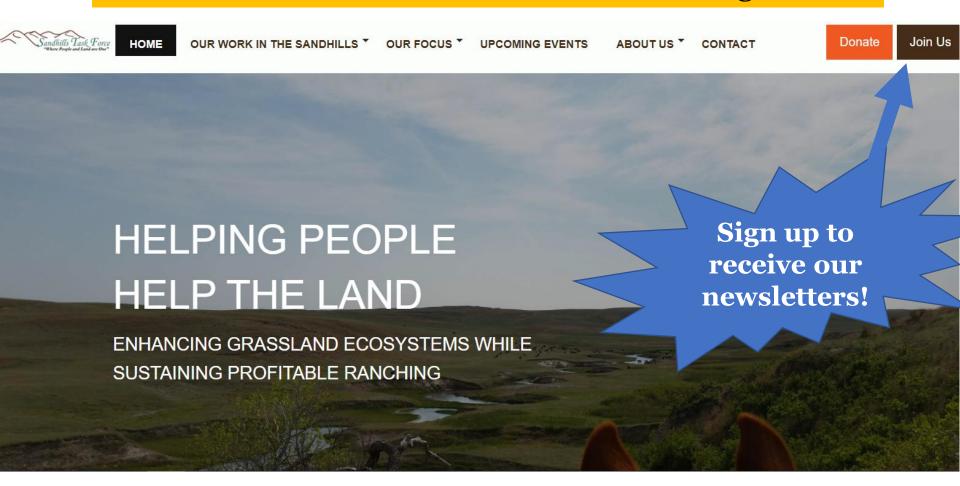


## Summary

- Information about the Nebraska Sandhills
  - Largest native, intact grassland in North
     America
- Sandhills Task Force
  - Non-profit organization
- Projects and Impacts
  - Helping ranchers and wildlife at the same
  - time

# www.SandhillsTaskForce.org

Check our website to learn more and keep up with our activities. Find us on Facebook and Instagram!



### Sources

- 1. Tunnel, S., Stubbendieck, J., Huddlez, J., Brollier, J.. Seed Dynamics of Eastern Redcedar in the Mixed-Grass Prairie.
  University of Nebraska Lincoln. 2004
- 2. USFS USDA. Silvics of Forest Trees of the United States. US Gov Printing Office.
- 3. University of Nebraska-Lincoln. 2012 Guide for Weed Management. 2012

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