JULY **26**th

10:00 am - 1:00 pm

THE PARTY OF THE P

Demonstrations & Session Topics:

- Overview of Long Pine Creek Watershed conservation efforts
- · Value-added products from cedar tree management
- Soil and water conservation with cedar mulch
- Soil health
- Manure in cropping systems
- Rainfall simulator
- Soil monitoring data

Registration is free! Lunch will be served.

Register online at www.surveymonkey.com/r/ **UNL726**

Location

GJW Farms

71/2 miles south of Ainsworth on Hwy. 7, East 2 miles on Richardson Rd., and south 11/4 miles on Grammy's Bumpy Rd. Follow field day signs.

















NEBRASKA EXTENSION

in cooperation with

Local Landowners Middle Niobrara Natural Resources District Nebraska Forest Service **NE Department of Environmental Quality** Natural Resources Conservation Service Nebraska Environmental Trust

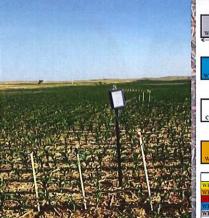
will host a

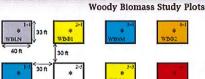
MIDDLE NIOBRARA NRD

LONG PINE CREEK WATERSHED

CONSERVATION FIELD DAY









































Utilization of Woody Biomass as an Agronomic Land Treatment and Conservation Practice in the Middle Niobrara Natural Resources District Long Pine Creek Watershed

PURPOSE

A value-added market for woody biomass (wood chips) generated during management of Eastern Red Cedar and native trees in riparian forests and rangeland is critical to offset the cost to landowners of managing forested areas for fire prevention, invasive plant species control, improving wildlife habitat and ecological preservation.

APPROACH

Utilization of wood chips alone and co-mingled with livestock manure or nitrogen fertilizer being investigated (since 2015) as a land treatment practice on local landowner crop fields with research focused on evaluating impacts on soil moisture holding capacity, temperature, biology, other properties that impact crop productivity.

IMPACT

Watershed Quality Management Plan activities in the Long Pine Creek Watershed are focused on improving water and soil quality through implementation of conservation practices by landowners producers. Woody biomass application to crop land to improve soil quality, conserve water, improve crop productivity, reduce soil & wind erosion, and improve soil/water conservation are practices being assessed.



season monitoring and crop grain and

biomass yields are recorded.

"Essentially, all life depends upon the soil... There can be no life without soil and no soil without life; they have evolved together."

April 2017

> - Charles E. Kellogg USDA Yearbook of Agriculture (1938)

6 ton/ac woody biomass

No treatment application

Yield monitorina data comparison for corn production under woody biomass + cattle manure application

vs. no treatment.

Woody Biomass/Cattle Manure Application