



**Soil Quality Enhancement Activity – SQL07 – Forest Stand Improvement for Soil Quality**

**State Criteria:**

Refer to NE [666DP, Forest Stand Improvement Design Procedures](#), Nebraska NRCS Field Office Technical Guide.

**Documentation Requirements**

Complete the Table below:

1	2	3	4	5	6	7	8
Tract	Field	Planned Acres	List of activities used (Planned)	Approximate Timeframe	Applied Acres	List of activities used- (Applied)	Date(s) activities were completed
<i>Ex.100</i>	<i>F2</i>	<i>50</i>	<i>1. Soil Compaction: Use of walk-on-slash on sub-soil compacted areas 2.Roads &amp; Landings: Establish cover and control use 3. Limit Soil Disturbance: establish cover and retain all downed tops</i>	<i>March of 2013</i>	<i>50</i>	<i>Used walk-on-slash during harvest. Established cover and control use on roads &amp; landings after harvest. Retained all downed tops for ground cover/nutrient recycling</i>	<i>03/15/2013  03/22/2013  03/29/2013</i>

Ex. = example. NRCS completes COLS. 1-5. Producer Completes COLS. 6-8.

**I certify that the following information meets specifications and has been provided to NRCS:**

1. List of activities used to improve soil quality (COL. 7 on table completed)
2. Copy of NE-CPA-11 Jobsheet for Forest Stand Improvement
3. Copy of [NE-CPA-8 for Grass Seeding](#), if appropriate
4. Map with location of roads and landings
5. Photos of all activities completed

I understand that it is my responsibility to obtain all necessary permits and to comply with all laws, regulations and ordinances pertaining to the application of these activities.

**Certified by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

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<b>Operator:</b> _____	<b>Address:</b> _____	<b>Phone No(s):</b> _____	<b>E-mail:</b> _____
_____	_____	_____	_____
_____	_____	_____	_____
<b>NRD/County:</b>	<b>Section:</b>	<b>Township:</b>	<b>Range:</b>
			<b>Tract/ No. of Ac:</b>

<b>Program (Circle):</b>	CRP	CSP	CTA	EQIP	NSWCP	WHIP	WRP	Other	<b>Planner:</b>	<b>Date:</b>
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Objectives (Circle all that apply):						
Improve stand density/structure (TSI)	Improve soil quality	Improve wildlife habitat	Reduce wildfire hazard/improve conditions for safe burning	Reduce pest/disease damage	Restore natural plant communities	Other (specify):

<b>Treatment Method(s) 1/ (Circle):</b>	Cutting	Girdling/ Frilling	Herbicide Treatment	Tree Injection	Basal Bark Spray	<b>Slash Disposal Method (Circle):</b>	None	Lopped & Scattered	Piled for Wildlife	Piled & Burned	Removed &/or Utilized
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1/ Refer to products and labels, etc. in the current "Guide for Weed Management in Nebraska".

Treatment Schedule (i.e., What treatment; When; By whom):				
Treatment Method	Date Scheduled	By (Name):	Date Completed	By (Name):

Treatment: 2/								
Treatment Unit	Ac/Unit	Existing Basal Area (ft <sup>2</sup> /ac)	Ave. DBH	Trees/Ac	Target Basal Area (ft <sup>2</sup> /ac)	Ave. DBH	Trees/Ac	Comments:

2/ Basal Area (BA) = the area of a given section of land occupied by the cross-section of tree trunks at their base. Mathematically, BA per Tree = 0.005454 x DBH<sup>2</sup>. BA per Acre = Trees per Ac (TPA) x BA perTree or TPA X 0.005454 x DBH<sup>2</sup>. The result will be by ft<sup>2</sup>. DBH refers to a tree's diameter at breast height (about 4.5 ft above base of tree).  
 Thinning Levels for Basal Area Reduction are:                      Light = 20-30 ft<sup>2</sup>/ac                      Medium = 30-40 ft<sup>2</sup>/ac                      Heavy = >40 ft<sup>2</sup>/ac

Species to Favor:				Comments:
Species Name	Species Name	Species Name	Species Name	

**Map of Area to be Treated (see p. 2 or attach separately)**

**Detailed Maintenance Requirements: See Forest Stand Improvement Design Procedures (NE666DP)**

**Plan Map of Site:**

**General Maintenance Requirements:**

- Minimize disturbances to the site, i.e., rutting, soil compaction, disturbance to litter layer, etc.
- Facilitate safe and efficient tree removal by control of the treatment method felling direction, timing of the tree cutting.
- Make sure slash, debris, and vegetative material left on the site do not present a fire or pest hazard or interfere with the intended purpose.
- Protect sensitive areas, such as vernal pools, riparian zones, and cultural resources.

**Wildlife Habitat Maintenance Requirements:**

- At least every 10 years monitor sites to determine if retreatment is necessary.
- Consider prescribed burning to encourage herbaceous plant growth.
- Burn only under an approved burn plan from NRCS, the Nebraska Forest Service or the NE Game and Parks Commission.

**Notes/Comments:**