



## **Energy Enhancement Activity – ENR11 – Improving energy feedstock production using alley cropping systems with short rotation woody crops**

### **State Criteria (same as NATIONAL CRITERIA)**

This enhancement is for cropland or pastureland.

Use of the NRCS Alley Cropping Job Sheet listed below will provide the framework of a plan for what is needed to accomplish this enhancement. Consult a Nebraska Forest Service forester or NRCS staff with adequate job approval authority for assistance in selecting woody species suitable for your site and for designing the alley cropping system.

### **References**

NRCS Alley Cropping Job Sheet

[http://efotg.sc.egov.usda.gov/references/public/NE/NE-CPA-311\(Alley\\_Cropping\\_jobsheet\).pdf](http://efotg.sc.egov.usda.gov/references/public/NE/NE-CPA-311(Alley_Cropping_jobsheet).pdf)

Additional information can be found with the NRCS Conservation Practice Standard 311 Alley Cropping

<http://efotg.sc.egov.usda.gov/references/public/NE/NE311.pdf>

Hodge, Sandra, H. E. Garrett, J. Bratton. Alley Cropping: An Agroforestry Practice. January 1999. USDA National Agroforestry Center, Lincoln, NE, Agroforestry Notes – AF Note 12.

<http://www.unl.edu/nac/agroforestrynotes/an12ac01.pdf>

Kuhn, G. A., W. J. Rietveld, D. E. Riemenschneider. Establishment and Cultural Guidelines for Using Hybrid Tree Species in Agroforestry Plantings. May 1998. USDA National Agroforestry Center, Lincoln, NE, Agroforestry Notes – AF Note 11. <http://www.unl.edu/nac/afnotes/spec-2/spec-2.pdf>

Kuhn, G. A. and W. J. Rietveld. Opportunities for Growing Short-Rotation Woody Crops in Agroforestry Practices. May 1998. USDA National Agroforestry Center, Lincoln, NE, Agroforestry Notes – AF Note 10.

<http://www.unl.edu/nac/afnotes/spec-1/spec-1.pdf>

### **Recommended Species for Use as Short Rotation Woody Crops in Alley Cropping**

Eastern Cottonwood (*Populus deltoids*), Native for Nebraska Vegetative Zones 1-4

Peach Leaf Willow (*Salix amygdaloides*), Native for Nebraska Vegetative Zones 1-4

Black Willow (*Salix nigra*), Native for Nebraska Vegetative Zones 3-4

Quaking Aspen (*Populus tremuloides*), Native for Nebraska Vegetative Zones 1-2

Boxelder (*Acer negundo*), Native for Nebraska Vegetative Zones 1-4

Silver Maple (*Acer saccharinum*), Native for Nebraska Vegetative Zones 3-4

Honeylocust (*Gleditsia triacanthos*), Native for Nebraska Vegetative Zones 3-4

Black Walnut (*Juglans nigra*), Native for Nebraska Vegetative Zones 3-4



United States Department of Agriculture  
 Natural Resources Conservation Service

NE-ENR11 2015 Ranking Period 1

**Documentation Requirements (SEE NATIONAL ENHANCEMENT ACTIVITY JOBSHEET)  
 Complete the Table below:**

To be completed by NRCS and Producer during planning					To be completed by Producer during certification		
1	2	3	4	5	6	7	8
Tract	Field No./ Acres	Planned short rotation woody crops planted	Planned type of woody feedstock material	Planned Completion Date	Applied short rotation woody crops planted	Applied typed of woody feedstock material	Date Activities were Completed
EX Tract 1243	Field 1/ 10 Ac	Poplar	Chips	2012	Poplar	Chips	4/15/12

EX= EXAMPLE, COLUMNS 1-5 NRCS COMPLETES, COLUMNS 6-8 PRODUCER COMPLETES

**I certify that the enhancement criteria have been met and the required documentation provided to NRCS.**

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