

NRCS Emergency Watershed Protection (EWP) Program

Certification of Floodplain Easement (FPE) Vegetative Practices

County: Clark, IL
Location: Sections 22 & 27, T11N, R11W
Producer: Carolyn Robinson
Customer: Ken Hoene
Agency: NRCS
Field Office: Martinsville Service Center
District Conservationist: Jason Conner

1. Tree/Shrub Establishment (612TS)

1.1 Specifications:

Total Acres: 148.3
Job Sheet 612TS: Completed
Spacing: 10x10 (ft)
Seedlings/Acre: 435
Total Number of Seedlings: 64,510
Stock: Bare Root Seedling
Planting Dates: Fall after dormancy
Site Preparation: None specified

Table 1. Plant materials information¹.

Species	Stock	Stems/acre	Total stems
Overcup oak (<i>Quercus lyrata</i>)	Bare Root	(20% = 87)	(20% = 12,902)
Sycamore (<i>Platanus occidentalis</i>)	Bare Root	(20% = 87)	(20% = 12,902)
Hackberry (<i>Celtis occidentalis</i>)	Bare Root	(20% = 87)	(20% = 12,902)
Pin Oak (<i>Quercus palustris</i>)	Bare Root	(20% = 87)	(20% = 12,902)
Swamp White Oak (<i>Quercus bicolor</i>)	Bare Root	(20% = 87)	(20% = 12,902)
Swamp Chestnut Oak (<i>Quercus michauxii</i>)	Bare Root	(20% = 87)	(20% = 12,902)
Shumard Oak (<i>Quercus shumardii</i>)	Bare Root	(20% = 87)	(20% = 12,902)
Persimmon (<i>Diospyros virginiana</i>)	Bare Root	(20% = 87)	(20% = 12,902)
Northern Pecan (<i>Carya illinoensis</i>)	Bare Root	(20% = 87)	(20% = 12,902)
<i>Total</i>			64,510

¹ Specifications call for planting at least 5 of the listed species in equal numbers (20%).

1.2 Field Inspection:

Field inspection date(s): Dec. 6-8, 2010

Table 2. Certification checklist.

Category	Specification	Completed Satisfactorily?	Details
Total acres planted	148.3	Yes	146.8 acres (99%) planted by Dec. 17
Spacing	10x10 (ft)	Yes	
Seedlings/acre	435	Yes	Error within sampled plots ≤ 5%
Total number of seedlings	64,510	Yes	63,865 (99%) planted by Dec. 17
Stock	Bare Root Seedlings	Yes	
Plant materials	(see above)	Yes	(see table 3)
Planting dates	Fall-after dormancy	Yes	– 95% completed by Dec. 8; – 99% completed by Dec. 17
Site Preparation		Yes	
Planting method		Yes	
Planting depth		Yes	

Table 3. Plant materials – field inspection.

Group	Proportion	Stems/acre	Total Stems
White Oak	45%	188	27,652
Overcup Oak (<i>Quercus lyrata</i>)			
Swamp White Oak (<i>Quercus bicolor</i>)			
Swamp Chestnut Oak (<i>Quercus michauxii</i>)			
Bur Oak (<i>Quercus macrocarpa</i>)			
Red Oak	35%	147	21,646
Pin Oak (<i>Quercus palustris</i>)			
Cherrybark oak (<i>Quercus pagoda</i>)			
Shumard Oak (<i>Quercus shumardii</i>)			
Northern Pecan (<i>Carya illinoensis</i>)	8%	35	5,178
Black Walnut (<i>Juglans nigra</i>)	5%	22	3230
Baldcypress (<i>Taxodium distichum</i>)	6%	23	3443
<i>Total</i>		<i>417</i>	<i>61,149</i>

1.3 General Notes:

The contractor planted a total of 10 different species on site, which was twice the diversity called for in the scope of work (SOW). Six of these 10 species were listed in the SOW. Additional species not listed in the SOW included bur oak, cherrybark oak, black walnut, and baldcypress. All of these additional species are appropriate to be planted at this site. The contractor made an effort to plant more water tolerant species (i.e., baldcypress) in lower elevation areas, and less water tolerant species such as pecan in higher elevation areas.

In general, the overall condition of the planting was very good. There were very few leaning stems or exposed root collars. The biggest threat to the future survival of this planting is likely to be browse damage. Some areas of the planting were already showing signs of browse damage at the time of inspection. These areas tended to be located closest to the tree lines, with browse damage decreasing toward the interior of the fields.

The contractor was successfully able to complete approximately 99% of the planting by December 17, 2010. Adverse wintry weather conditions subsequently resulted in frozen soil conditions, which have delayed final planting efforts on the remaining 1.5 acres of the Robinson site (approximately 1% of the total planting area), primarily located between the overflow area and the berm.

1.4 Contact Information:

Certification completed by:

National Great Rivers Research and Education Center
Lewis and Clark Community College
5800 Godfrey Rd
Godfrey, IL 62035

Point of contact:

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