



Tree and Shrub Establishment

Conservation Practice Job Sheet **AK-612**

NATURAL RESOURCES CONSERVATION SERVICE (NRCS)



Definition

The establishment of woody plants by planting seedlings or cuttings, direct seeding or natural regeneration.

Purpose

To establish woody plants for forest products, wildlife habitat, long-term erosion control and improvement of water quality, treat waste, reduction of air pollution, sequestration of carbon, energy conservation and enhance aesthetics.

Where Used

On any area where woody plants can be grown.

Conservation/Forest Management Planning

Tree and shrub establishment practices should include the following consideration and documentation:

- field map and soil map
- time to economic or functional maturity
- expected products and yield
- recommended nutrient rates, form, timing, and method of application
- location of designated sensitive areas
- guidelines for maintenance
- current and expect stocking levels

Successful Practice Implementation

Tree and shrub establishment success is directly linked to the following factors.

- a) The quality of the plant material being used.
- b) The time and effort expended on site preparation.
- c) Care of the planting stock from the time received to the time placed on the site.

Tree and Shrub Establishment Considerations

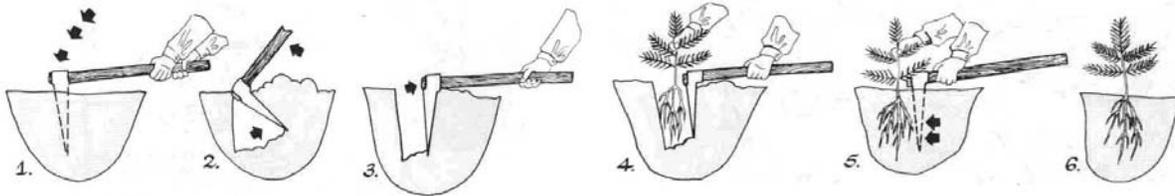
- Species will be adapted to soil-site conditions.
- Species will be suitable for the planned purpose.
- Species indigenous to the area will be used when ever possible.
- Planting and seeding rates will be adequate to accomplish the intended purpose.
- Planting dates will reflect the time needed to ensure maximum plant survival.
- Seedling stock will be free of diseases, mold, and damage and will have well-developed root systems.

Guidelines for Operation and Maintenance

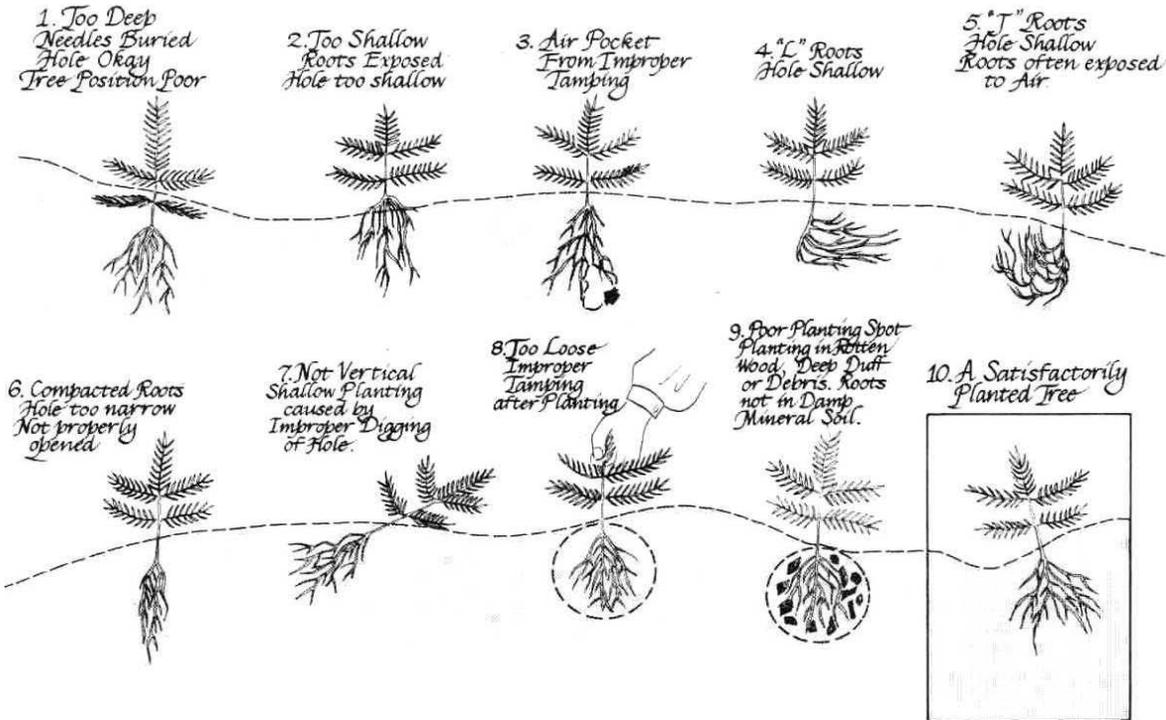
- Reasonable means for protection of the new plants will be followed.
- High value specimens may require fencing and protection from moose and cattle.
- Weed control should be used if the initial site preparation did not reduce plant competition.
- Irrigation maybe needed during establishment.
- Fertilization may also be needed after establishment.
- Inspect periodically for insects and diseases and take appropriate actions for control and suppression
- Replant as needed in order to meet the purpose of the practice.

Proper Planting Techniques for Small Planting Stock

Planting with a Hoe



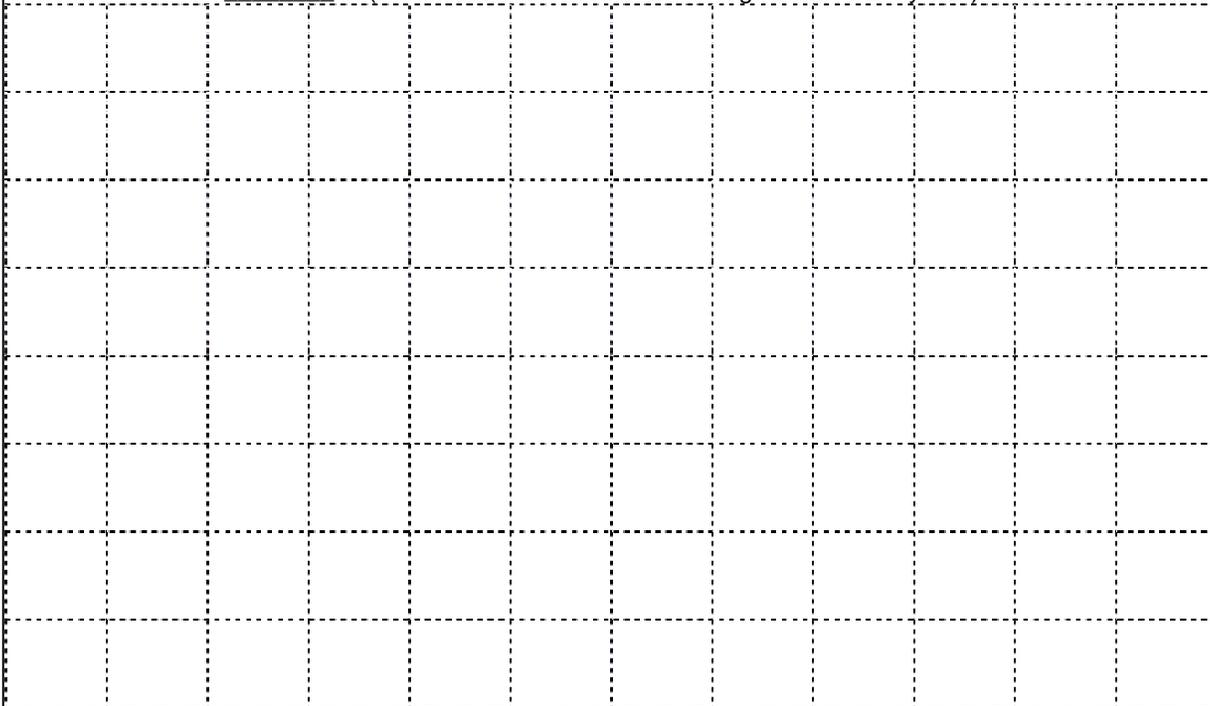
Satisfactory (#10) and Unsatisfactory Planting (#1-9)



Tree and Shrub Establishment – Job Sketch

Draw or sketch the field, showing any sensitive areas and required setback zones. Inside each sketched field, enter total field acres and net application acres. Other relevant information, such as complementary practices or adjacent field or tract conditions may be included.

Scale 1"=_____ ft. (NA indicates sketch not to scale: grid size=1/2" by 1/2")



Perform the following operations and maintenance:

- Replant when required to meet the intended purpose or intent.
- Supplemental water when required, or as needed
- Inspect trees periodically and protect from adverse impacts such as insects, diseases or competing vegetation
- Protect from fire and damage from livestock or wildlife
- Periodic application of nutrients may be needed to maintain plant vigor.

Additional specifications and notes:

Tree and Shrub Establishment Documentation Form

Landuser
 Assisted by

Field
 Date

Planned	
Acres Planned	<input style="width: 60px; height: 20px;" type="text"/> ac.
Stocking Rate Planned	<input style="width: 60px; height: 20px;" type="text"/> trees/acre
Site Preparation Planned	<input style="width: 60px; height: 20px;" type="text"/> ac.
Species Planned	<input style="width: 150px; height: 40px;" type="text"/>

Applied and Approved	
Acres Applies	<input style="width: 60px; height: 20px;" type="text"/> ac.
Stocking Rate Applied	<input style="width: 60px; height: 20px;" type="text"/> trees/ac
Site Preparation Applied	<input style="width: 60px; height: 20px;" type="text"/> ac.
Species Planted	<input style="width: 150px; height: 40px;" type="text"/>

Operation and Maintenance

Growth of seedling or transplants shall be monitored for insects, disease and animal damage and shall be controled when 20% or more of the planted material is threaten.

I agree to install this practice as designed and planned.

Client: _____ Date _____

This practice is designed and planned according to NRCS AK Standards and Specifications.

Conservationist: _____ Date _____

This practice as installed and maintained in accordance with this job sheet. (complete applied section above)

Completed by: _____ Date _____

The United States Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs and marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication program information (Braille, large print, audiotape, etc.) should contact the USDA Office of Communications (202) 720-2791.