Spring Sapling Sowing/Propagation Season In Afghanistan

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Guzargah Nursery

Dehmurah Khan Nursery

Paghman Nursery
Positive Observations/Leadership

Dedicated, knowledgeable:
• Administrators
• Nursery managers
• Nursery foremen
• Advisors
Positive Observations/Site Preparation

Agropyron seed production in Nursery seedbeds

Mechanical site preparation/
Deep plowing
Positive Observations/Seed

Seed orchards being planted on Nursery grounds

Seed storage facility

Seed collection, processing and storage training
Positive Observations/Sapling Inventory

Inventory of native Afghan saplings for 2008 and beyond look promising

Every effort is being made to meet the contracted quantities
Positive Observations/Seeding

Species with long stratification are being sown in the fall (Cercis)

Species with short/no stratification are being sown in the spring (Ulmus)
Positive Observations/Transplanting

Conifer transplanting done in the fall

Polybag conifers transplanted
Positive Observations/Populus production

Second year shoot growth used for producing cuttings
Positive Observations/Polybag Production

- Germination
- Growth and Development
- Transplanting
Areas Needing Improvement:
Ensure Adequate Sapling Root Development

Transplant root length 20 cm

Prepare seedbeds to depth of 30 cm for root development, drainage
Areas Needing Improvement:
Match the Nursery to the Sapling Crop

Deciduous:
• Finer soils
• Can tolerate some flooding

Conifers:
• Well-drained, coarse soils
• Slightly acidic soil

Cold Frames:
• High-maintenance (irrigation, preparation, harvest)
• Lacking plastic/glass covering
Areas Needing Improvement
Determine Effectiveness of Nursery Operations

1. Determine Provincial Sapling Production Goals
2. Identify species and age-classes
3. Identify stock type needs (bareroot or polybag)
4. Determine individual nursery production targets
5. Re-direct inefficient nurseries
6. Limited funding
Areas Needing Improvement
Provide Training

Short-Term: Workshops on techniques
Long-Term: Detail Assignments on technology
Sowing/Propagation Summary: Quality Control

Establish annual calendar of events
  Time-Critical

Establish Minimum Standards
  Production goals
  Shoot height (minimum/maximum)
  Root length (minimum)
  Sapling diameter at harvest (minimum/maximum)
  Cultivation depths

Provide Training Prior to Practice
  You demonstrate and explain
  They demonstrate, you explain
  They demonstrate and explain

Have Right Tools
  Deep cultivators for site preparation (>30 cm)
  Seed to meet production goals

Enforce Standards
نهاال مشابه به طفلى بوده
نیازه حفاظت وپرورش دارد.
(USAID)