

## Afghan Conservation Corps

### Important points before planting trees in Afghanistan

Clarify about  
country conditions:

- forests
- climate
- precipitation



## Afghan Conservation Corps

### Important points before planting Trees in Afghanistan (con)

- Afghanistan is a mountainous country
- Enormous micro climate changes in Afghanistan
- Precipitation differs according to elevation
  - \* Less rain fall in the lower areas
  - \* More rain fall in the higher areas



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### Important points to know before planting Trees in Afghanistan (con)

- Temperature differs according to elevation
  - \* Warm in the low or flat areas
  - \* Cold in the higher areas
- Forests are located in the stages

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### Important points to know before planting Trees in Afghanistan (con)

- Topography varies throughout the country, as well as the climate regime



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### Important points to know before planting Trees in Afghanistan (con)

- The maximum height of Koh-e-Baba is 5140m.
- Nuristan mountains are 6300m high.

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### Important points to know before planting Trees in Afghanistan (con)

- Wakhan valley of Pamir is 7500m high.
- The minimum elevation of the country is 300m above sea level.
- Precipitation varies across Afghanistan from 100mm to 400mm per year.

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### Important points to know before planting Trees in Afghanistan (con)

- The Indian Ocean monsoon season lasts from July to September and is very important for the eastern, northeastern and southeastern regions of the country.



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### Important points to know before planting Trees in Afghanistan (con)

- Different topography takes monsoon rains in the east and southeast (Kunar, Nuristan, Nangarhar, Laghman, Paktia, Paktica, Khost and some part of the northern Hindu Khsh) up to 2000-5000m above see level.
- That's the reason why conifer forests grow naturally there.
- Mountains and valleys are naturally suitable for forests.



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### Important points to know before planting Trees in Afghanistan (con)

- The Hindu Kush are the biggest and highest mountains in the country. They are located east to west (very important fact for forests and ranges).
- Elevations of ranges are from 300m -6000m above sea level or even higher.

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### Important points to know before planting Trees in Afghanistan (con)

- Deserts in the south and south west of the country are on 300m – 1000m above sea level. Marco desert is the biggest, joined by Loot desert in the south.
- These deserts plus others cover most of the country.
- Varying topographies and elevations in the country bring about different plant ecosystems.



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### Important points to know before planting Trees in Afghanistan (con)

- A classification of the ecosystem has been done based on topography, climate and vegetation stages.
- Two ranges were identified: 1- scrub forests, 2- collective of trees stages.

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### Important points to know before planting Trees in Afghanistan (con)

After understanding all the mentioned, we can say:

- What we can plant or (what to plant).
- Who can plant what or (who can plant).
- Where we can plant what or (where to plant).





## Afghan Conservation Corps

### Why to plant trees?

- People plant trees for a variety of reasons:
- \* Fruits/ nuts - for their consumption and merchandise.
- \* Wood for construction poles and other wood uses.
- \* To control desertification and wind breaks.
- \* For greenery, beautification, picnic areas and shade.



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### Why to plant trees? (con)

- \* To control soil erosion and stabilizing hillsides.
- \* For preventing land slides and avalanches.
- \* To provide medicines (medicinal plants).
- \* To get fuel wood for heating and cooking

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### Why to plant trees? (con)

- Fuel wood.



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### Why to plant trees?

- To protect the environment and wildlife.
- For several industrial purposes of wood.
- There are many more reasons to plant trees!



## Afghan Conservation Corps

Where to plant trees, who will plant them and maintain them?

There are many types of places where people can plant trees:

- Home compounds.
- Private land and agricultural lands.
- Hill sides.
- Marginal lands.
- River sides (riparian areas).



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Where to plant trees, and who will plant and maintain them? (con)

- In deforested areas.
- In decertified areas.
- On road sides.



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Where to plant trees, and who will plant and maintain them? (con)

- In mosques and shrines.
- Close to factories and industries.
- In public parks and green areas.
- In school yards and university parks.



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Where to plant Trees, and who will plant and maintain them? (con)

- In clinics and hospitals.
- On governmental land and army bases.
- In official areas, buildings and airports.
- In other public locations.



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### Where to plant Trees, and who will Plant and Maintain them? (con)

Who plants trees:

- Governmental and non-governmental organizations.
- School students.
- Families and women.



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**Where to plant trees, who will plant and maintain them? (con)**

- Local communities.
- Local farmers and land owners.
- Paid workers (cash component).

## Afghan Conservation Corps

### Where to plant trees, who will plant and maintain them (con)

After understanding all the mentioned, we can say:

- What we can plant or (what to plant).
- Who can plant what or (who can plant).
- Where we can plant what or (where to plant).



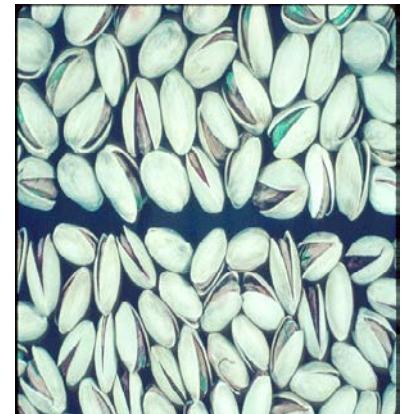
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### What to plant?

Selection of what to plant depends on our idea to accomplish by what we want by planting trees, and what type of species are available:

The planting material can be:

- \* Seeds.
- \* Seedlings.
- \* Saplings.
- \* Cuttings.



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### What to plant? (con)

The planting material can be:

- Seeds are used to grow seedlings in nurseries, and may also be used in direct seeding at planting sites.
- Seeds can be planted in containers or poly bags for seedlings production.
- Seeds can be grown in nurseries and later planted as bare root seedlings.

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### Steps for selecting what to plant?

- Survey, what is available?
- Why we want to plant trees and where you want to plant them?
- Who will be planting the trees?
- Be sure for protection of the trees!
- Select the type of planting material (seeds, seedlings, saplings or cuttings), site, logistics of planting (to have transportation for the material, water, and tools) and protection of plants.

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### Steps for selecting what to plant? (con)

- Plan with nurseries according to where and why to plant trees. When trees are ready to be planted the purpose and place should be determined.
- Work with private nurseries so that they can provide some of the planting materials. This is to enhance local economy.

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## Planning for Reforestation

When planning for reforestation check on the availability of the main resources you need:

- People
  - \*Public
  - \*Private

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### Planning for Reforestation (con)

- Planting material
  - \* Public sources (government)
  - \* Private sources (community and private nurseries)
- Consider payment for
  - \* people
  - \* planting material
  - \* logistic (transport and other)



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### Planning for Reforestation (con)

- Needs and knowledge
  - \* About species
  - \* About planting material
  - \* About how to organize and supervise people for effective tree planting and maintenance

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### Planning for Reforestation (con)

#### Phases of Reforestation

##### **1. Preparation**

- \* Selection of species
- \* Training of the working team
- \* Timing of what will take place where and when
- \* Preparation of planting sites
- \* Have materials to keep roots of saplings moist
- \* Water and tools ready for planting

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## Planning for Reforestation (con)

### **2. Planting of saplings**

- \* Root off or collecting of planting material
- \* Transport of planting material and people
- \* Planting and watering
- \* Monitoring and check that the trees are planted correctly

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### Planning for Reforestation (con)

#### 3. Maintenance

- \* Watering
- \* Protection
- \* Monitoring for survival, if necessary  
replacement of some trees

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*Thank you*

