

# Reforestation and afforestation.

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# Afforestation

Afforestation was done on a large scale in the period after the II World War during the soviet occupation.

Nowadays it is limited by other land usages. Forests cover 53,7% and agricultural lands 28,2%.

Potential for afforestation is on areas covered with bushes that covers 1,5% and can often be unused agricultural land.



# Reforestation

The owner must use some reforestation methods within 2 years after harvesting if the area is larger than 0,5 hectares.

- Soil scarification
- Sowing seeds
- Planting
- Young stand maintenance
- Other methods that favor the natural regeneration





20-70 trees per hectare should be left as trees for the seeds.



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The used methods must ensure that new forest is growing within 5 years after harvest.

New forest is growing when there are at least:

- 1500 pcs. of Scots pine that are at least 0,5m high
- 1000 pcs. of Norway spruce that are at least 0,5m high
- 1500 pcs. of oak that are at least 0,5m high
- 1500 pcs. of other trees that are allowed for reforestation that are 1,0 m high



# Plants and seeds

State Forest Management Centre is responsible for maintaining enough seeds for Estonian forest sector.

They can sell the seeds and they can be used for planting in the forest or in the nurseries.

Tree selection program began in 1959.

1964 there were 1178 tree nurseries.

1967 76 million trees produced

1993 12 million trees produced

2020 36 million trees produced



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# Production in 2020

Species	Open root	Container
Betula pendula	3 284 115	783 400
Picea abies	12 793 655	5 809 613
Pinus sylvestris	844 986	12 199 076
Alnus glutinosa	147 305	31 250





Smaller nurseries sometimes lack experience and have difficulties in getting financing.



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# Planting

Planting is usually done on scarified soil.

Most of the planting takes place in April and May. About 10% is planted in the autumn.

Spruce and pine plants might need layer of wax for protection (*Hylobius abietis*).

Risk of drought.





Soil scarification



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Other plants need to be cut around planted trees as they will cause the trees to fall down with the weight of the snow.



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22nd of October  
2020

Young stand  
maintenance is  
often done when  
the leaves have  
fallen down.



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Thank you!

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