

Information about thinning demonstrating biofuel and Roundwood production

General information about stand

State	Latvija
Region	Sēlija
Stand ID	5666 004 0035
Thinning year/season	2020. January
Topic	<i>Precommercial thinning using a chainsaw, removal by forwarding.</i>
Area (ha)	0.84
Age	23

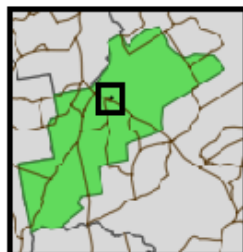
Stand composition

10B

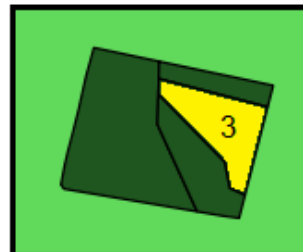
Terrain and soil conditions

Myrtillosa mel.

Location of the demo site



Jēkabpils novada
Kalna pagasts



Meža Liepāres
1. kvartāla 3. nogabals

Photo: I.Buša

Stand characteristic before thinning

Average DBH (cm)	13
Average height (m)	16
Number of trees (trees per ha ⁻¹)	2300
Standing volume (m ³ /ha ⁻¹)	157

Stand management targets

The commercial thinning was used in this site for carrying out the most promising forest stand in the future and to gain additional profit from the sale of firewood.

Demonstration site before thinning



Photo: I.Buša

Stand characteristic after thinning

Average DBH (cm)	14
Average height (m)	17
Number of trees (trees per ha ⁻¹)	1300
Standing volume (m ³ /ha ⁻¹)	102

Demonstration site after thinning



Photo: I.Buša

Mechanical damages due to thinning

There are no significant damages to the remaining trees and soil. Some trees on the side of technological corridors show bark damage caused by the forwarder.



Photo: I.Buša



Photo: I.Buša

Applied work method in thinning:

Work order considers thinning to minimal basal area or number of trees according to average tree height after thinning. Commercial thinning is done with a hand-held chainsaw, such a technique is the most optimal option, as it causes less damage to the remaining trees and is the most economically advantageous. Forwarding is done using a forwarder.

Technical units:

Forwarding is done using forwarder Timberjack 810B.

Technical specification: Engine power 80,9 kW (110 hp.); weight 11,2 t; load capacity 8,5 t; length 8.56 m; width 2.66 m; height 3.7 m; fuel - diesel; fuel tank capacity 120 l.



Photo: I. Buša

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