

## Forest plants of excellent habit and vigour

### *Prunus avium* - Wild Cherry

Due to its valuable wood Wild Cherry is increasingly being taken into silvicultural consideration. The cultivation of cherries provides the option to interlink economic and ecological objectives in an optimal way. Within 60-80 years valuable wood will be produced, the diversity of tree species will increment as well as the range of habitat and the landscape will be invigorated.

### The plant material

The Wild Cherry seed stock commonly available at this time usually contains only a small part of upright (straight) growing trees allowing the anticipation of high revenue. Selected elite trees are being reproduced vegetatively by the method of micropropagation. By this means the progeny's good growth characteristics remain unaltered.

The progeny of elite trees of different origins (e.g. Bovenden, Lensahn, Reinfeld, Osnabrück, Farchau, Diekholzen, Wesel, Xanten, Resita) was tested in Schöningen. The best trees were cloned and retested. As a result of this clone testing the best trees were cloned again and now are available for *in vitro* propagation. In doing so the biological diversity of this clonal mixture exceeds those of seedlings at control stands.



Figure 1: *Prunus avium* reproduced by *in vitro* culture, age 19 years

## Advantages of selected Wild Cherries

The Wild Cherry's habit is of vital importance for the production of high quality mixtures for veneers and solid wood furniture. Maximum prices are realised by straight-boled, finely branched trees.

The findings show that in comparison to seedlings *in vitro* reproduced Wild Cherries yield a large volume production. According to North West German Forestry Research Institute the cherries for instance yield up to 1.08 m<sup>3</sup> per stem at the age of 33 years.

## Quality characteristics

For silvicultural purposes the mixture "SilvaSELECT III" may be delivered exclusively as a mixture of at least 19 clones.



Figure 2: Propagation in flats (multipot)



Figure 3 and 4: Propagation of container plants quality C

We practice mycorrhizal inoculation in order to harden our cherries and enable proliferation at the natural habitat.

## Silvicultural information

The cultivation should be effected on sites that ensure the achievement of the exploitable diameters. Options for secure cultivation are provided by mesotrophic to eutrophic habitats up to the submontane altitudinal zone (450-550 m). Every sustainably fresh habitat will provide opportunities for good development. Humus- and base-rich agricultural areas normally provide best premises.

Your planning should arrange for the growing of 100 to 150 future plus trees/ha. We therefore recommend to spread the high-class plant material evenly throughout the area using quantities of 400 to 600 trees/ha and integrating filler. As final quantity of plants 1,200 to 2,500 plants/ha (plant spacing 2 x 2 to 2 x 4 m) is recommended.

Semicircular spade or hole planting is realised in the forest. After planting, a single protection by fencing or single tree protection of different materials makes sense. First green prunings should be started in good time. In any case lateral branches should be < 2.5 cm to be deshooted.

Depending on the plant spacing the first thinning should be realised reaching top heights of approximately 6 m. Future plus trees are to be preparatorily limbed at the height of 3 m. A second high thinning like release cutting and pruning (up to 4.5 m) should be realised at the top height of 8 to 9 m. In combination with the third pruning at 6 to 7 m an intense high thinning starting at the top height of 12 m makes sense in order to stimulate the confirmed future crop trees. Starting at the top height of 22 m thinning intervals extend to 5 to 6 years.

Target diameter harvesting regime single stem up to in groups starts at a breast-height diameter of 50 cm.

For further information regarding forestry operations see leaflet Wild Cherry by Lower Saxony State Forests. (Equally available as download)



Figure 5: *Prunus avium* reproduced by *in vitro* culture, age 19 years

### Information regarding Act on Forest Reproductive Material (Forstvermehrungsgesetz FoVG)

Wild cherry is listed in the German FoVG, our clones are listed in the category “proven”. A list of the registration numbers and the root certificates will be attached to the delivery documents. You get a clone collection of at least 14 clones plus licence fee, packaging and delivery costs and VAT.

### Unequivocal identification of clones

We guarantee the delivery of at least 16 clones annually controlled within the scope of our quality management procedures. By genetic fingerprint clones can be correctly identified and their origin can be verified. This provides security for you and ourselves.

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