

Original article

EDN RTTILV

DOI 10.24419/LHI.2304-3083.2023.3.07

Stimulation of Root Formation in Semi-Hardwood Cuttings of *Juniperus* × *Pfitzeriana* 'Pfitzeriana Glauca' with Growth Powders with Auxins

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Annotation. The results of a study of the effect of growth powders containing indolyl-3-butyric acid (IBA) in various concentrations on root formation in semi-hardwood cuttings of *Juniperus* × *Pfitzeriana* 'Pfitzeriana Glauca' are presented. Cuttings were harvested from eight-year-old mother plants at the end of forced winter dormancy. A stimulating effect on the rooting of cuttings of this variety of growth powders with a concentration of IBA of 2.5 g/kg was shown, which consisted in an increase in the percentage of rooting of cuttings by 2.0–2.19 times and a significant improvement in the quality of the root system. With an increase in the concentration of IBA in growth powders from 2.5 g/kg to 20 g/kg, there was a decrease in the percentage of survival and an increase in signs of phytotoxicity of the growth regulators on cuttings.

Key words: Conifers, reproduction plants, rooting of cuttings, growth powders, indolyl-3-butyric acid.

For citation: Borovkov V., Demchenko G. Stimulation of Root Formation in Semi-Deciduous Cuttings of *Juniperus* × *Pfitzeriana* 'Pfitzeriana Glauca' with Growth Powders with Auxins // *Forestry information*. 2023. № 3. P. 94–102. DOI 10.24419/LHI.2304-3083.2023.3.07. <https://elibrary.ru/rtilv>.

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