

Assessment of Growth and Development in the Arctic Arctic Bramble (*Rubus arcticus* L.) with Application of Mineral Fertilizers

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The reason for investigation of the cultivation of Arctic raspberry is the exhaustion of its natural stock.

The first works on growing of this species in Russia dates back to the year 1860. Later some small experiments with this species were produced in the middle of XX century. More intensive work with it was held since the 60s of the last century in Finland and Sweden. They are working on selecting of new cultivars of this species.

Studies conducted to date show the prospective of the introduction of this valuable berry plant. The experiments of cultivating of Arctic raspberry on depleted peat deposits were started on the Central European Forest Experiment Station in 2005.

Arctic raspberry is relatively new species in culture. So, some issues on its growing on peat substrates, including the use of mineral fertilizers, are still insufficiently developed.

The article addressed the issues of the use of mineral fertilizers in plantings of the Arctic raspberry on depleted peat deposit of intermediate type. The repeated use of mineral fertilizers stimulates growth, development and fruiting of the plants. The optimal dosage of the fertilizers during repeated use is – $N_{30}P_{30}K_{30}$.