

Yield of Berry-Fields of *Rubus Caesius* in Flood Plain Forests of Steppe Pridonye depending on Density of Forest Crop

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The article devoted to research of influence of relative density of forest crops of the main forest-forming species on yield of *Rubus fruticosus* in flood plain of the Don river.

In the scientific publications, devoted to problems of berry resource research, there is data about existing of close interconnection between yield of wild berry-fields and conditions of their growth. However, all these researches are devoted to the main northern berry crops: cranberries, cowberry, cloudberries.

Relevance of provided article is due to the fact that, *Rubus caesius*, being an important non-woody resource of forests of the Southern regions of our country is researched very poor. We have not found works based on influence of taxation characteristics of forest crop on wild berry-fields of *Rubus caesius*. At the same time, it is necessary to pay attention to the fact, that brushwoods of *Rubus caesius* impose specific requirements to environmental factors. First of all, it is significant an influence on growth and development of this crop of illumination level.

The authors based on these examinations of 2012–2014 and 2017 years have done quantitative evaluation of yield indexes of *Rubus caesius* in flood plain forests of steppe Pridonye [1], there was found dependence of yield of this crop on density of forest crops, there was found it's optimal density to reach the most comfortable fruiting of brushwoods of *Rubus caesius*.

In the course of work there were examined 31 sampling units in 5 dominant groups of forests types of flood plain of the Don river: willow groves, black poplar forests, elm forests, oak-forests, white poplar forests.

The largest indexes of yield of berry-fields is typical for tree plantations with density 0,5–0,6. With other relatively equal conditions, in such forests there was pointed out the largest average indexes of yield of berry in the 4 years.

Finally, there are given preliminary conclusions on the research topic, that confirms, that density of plantation is one of the determining factors of yield of brushwoods of *Rubus caesius*.

References

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