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PREPARATIONS OBTAINED FROM CONIFERS IN REPRODUCTION OF SEA BUCKTHORN

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It is known that sea buckthorn may be reproduced by generative and vegetative way. In Novosibirsk region reproduction of sea buckthorn usually is made with hardwood cuttings. It is a great problem to decrease the death of cuttings during rootage and replanting. Use of growth substances is advisable for better survival of seedlings.

In our experiments the efficiency of some preparations on survival of seedlings under theirs replanting from hotbeds to experimental fields was studied.

Preparations obtained on the base of substances from conifers such as Novosil and Raststim were used in the experiments. Treating of seedlings by these regulators was made in autumn before theirs replanting. The account of survived plants was conducted in the next year.

Results of the field experiments showed that coniferous regulators increased quantity of survived seedlings (table). The average value per preparations showed increase of quantity of survived seedlings in variety Zyryanka up to 10%, in variety Zarnitsa up to 8,7 %. The most efficient consumption rate of preparations that increased seedling survival on 10,45% was 500 ml/ha,

Influence of growth regulators on survived seedlings of sea buckthorn .

Preparation, consumption rate	Quality survived seedlings, %	
	varieties of sea buckthorn	
	Zyryanka	Zarnitsa
Control	38,3	74,0
Raststim, 50 ml/ha	55,0*	86,0
Raststim, 200 ml/ha	40,0	76,0
Raststim, 500 ml/ha	48,0	90,0*
Novosil, 50 ml/ha	42,5	80,0
Novosil, 200 ml/ha	50,0	80,0
Novosil, 500 ml/ha	54,4*	84,0
Average value per preparations	48,3	82,7
LSD ₀₅	13,85	13,56

Thus, coniferous preparations increasing quantity of survived plants of sea buckthorn are advisable when seedlings are replanted to field.

Key world: sea buckthorn, seedlings, survival, growth regulators, conifers