

## Preventing Damages Caused by Late Spring Frosts in the Cherry by Chemical Treatment

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### SUMMARY

Damages caused by late-spring frosts in cherry growing are frequently, in Transylvania, Romania. The results referring to lower damages in cherry growing caused by late spring frost, in 2011, at SC Agroindustrial SA Cluj-Napoca are presented. The biological material was represented by 2000 trees of each cherry cultivars: 'Stella', 'Van', 'Germersdorf', 'Boambe de Cotnari'. In order to reduce damage caused by late spring frost, there were applied the following treatments: I. Damisol BB 5Kg/ha; II. a mixture consisting of boric acid 70 g/l + glutamic acid 130 g/l, 6 l/ha; III. a mixture consisting of boric acid 60g/l and aspartic acid 120 g/l, and Campfo Ca, in the amount of 6 l/ha. The application of all chemical treatments substantially reduced the level of damage due to late-spring frosts. Compared to untreated control where average production obtained was 0.4 t/ha, in the variant treated with Damisol BB the yield was 3.5 t/ha, in case of Mixture II 1.6 t/ha and 8 t/ha using Mixture III, the differences being statistically assured. Among cultivars there were no differences statistically assured.

Tab. 1

Effect of chemical treatments and cultivars upon average cherries yield (t/ha), following the late spring frosts, in 2011, at Cluj-Napoca

Cultivar/treatment	Control (Untreated)	Damisol BB	Boron + glutamic acid	Boron + aspartic acid + Campfo Ca	Cultivar average
'Stella'	0.4 <sup>d</sup>	3.0 <sup>bc</sup>	5.0 <sup>b</sup>	7.0 <sup>a</sup>	3.9 <sup>A</sup>
'Van'	0.4 <sup>d</sup>	4.0 <sup>b</sup>	6.0 <sup>b</sup>	8.0 <sup>a</sup>	4.6 <sup>A</sup>
'Germersdorf'	0.2 <sup>d</sup>	3.0 <sup>bc</sup>	6.0 <sup>b</sup>	8.0 <sup>a</sup>	4.3 <sup>A</sup>
'Boambe de Cotnari'	0.5 <sup>d</sup>	4.0 <sup>b</sup>	7.0 <sup>a</sup>	9.0 <sup>a</sup>	5.1 <sup>A</sup>
Treatment average	0.4 <sup>O</sup>	3.5 <sup>MN</sup>	6.0 <sup>M</sup>	8.0 <sup>M</sup>	
DS 5% cultivar = 2.6-2.7 t/ha		DS 5% treatment = 2.6-2.7 t/ha		DS 5% interaction = 2.3-2.8 t/ha	

The difference between any two values followed by at least one common letter is not significant.

**Keywords:** cherry, frost, damage, yield

### REFERENCES

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