

The Use of Plant Protection Products in Healing Wounds Caused by Hail in Plum

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SUMMARY

Damages caused by hailstone to plum in certain years can be especially high. Utilization of some fungicides with effect upon *Monilinia sp.* and rot right after hail shower is within reach fruit tree growers (Mitre, 2004). The influence of six fungicide products on healing wounds caused by hail attacks and implicitly on reducing the damages on plum fruits caused by such meteorological phenomenon was studied. The best results have been obtained with Folicur solo (80.4% healed fruits), followed by the variants treated with Benlate (76.2% healed fruits), Topsin (66.9% healed fruits). These results were obtained only on fruits hit superficially. The fruits having deep wounds (where the hail pierced the peel of fruits) were totally loosed. In addition, satisfying results have been obtained with fungicides based on captan, mancozeb and cooper. There were differences statistically assured among cultivars (Tab. 1), as far as healing of fruits after hailstorm, 'Stanley' and 'Tuleu gras' have been presented the best response.

Tab. 1

Effect of various fungicides on healing of plum fruits hit superficially by hailstone (% healed fruits)

Cultivar/ Treatment	Untreated	Bouille Bordellaise	Captan	Mancozeb	Topsin	Folicur solo	Benlate	Mean cv.
'Tuleu gras'	9.5 ^t	32.0 ^p	58.3 ^j	39.0 ^m	68.3 ^b	76.0 ^e	78.7 ^d	51.7 ^B
'Vinete de Italia'	9.9 ^t	26.0 ^f	54.7 ^k	31.0 ^o	65.3 ⁱ	80.7 ^c	72.7 ^g	48.6 ^C
'Anna Späth'	8.7 ^t	31.3 ^p	47.7 ^l	33.3 ⁿ	57.0 ^j	74.3 ^f	69.1 ^h	45.9 ^D
'Stanley'	12.0 ^s	28.0 ^q	66.7 ⁱ	47.3 ^l	77.0 ^e	90.7 ^a	84.3 ^b	57.9 ^A
Mean treat.	10.0 ^Q	29.3 ^R	56.8 ^O	37.7 ^P	66.9 ^N	80.4 ^L	76.2 ^M	
DS5% variety: 1.83-1.99			DS5% treatment: 2.42-2.78			DS5% interact.: 1.30-1.59		

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

Keywords: hailstone, damage, plum, yield

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