

OmyaPro® Calcium in Plums - 2016

Trial performed by Maracineni Fruits Growing Research Institute & C. Moga, Romania



Aim

Determine the effect of foliar application of OmyaPro® Calcium on yield and fruit firmness.

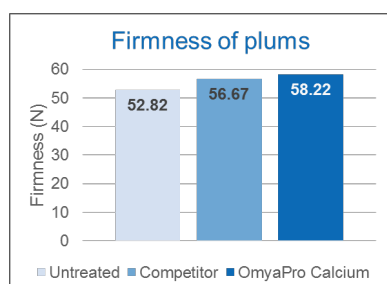
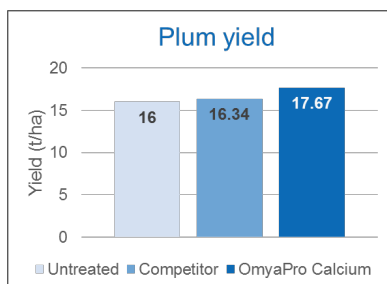
Method:	The specified amount of product was mixed in water, stirred and applied immediately without adjuvant with a backpack applicator directly on the leaves.
Trial design:	open field trial, randomized block design
Crop description:	plums, <i>Prunus domestica</i> , Carpatin variety
Soil description:	pH (H ₂ O) = 5.3; Sand 45%, Silt 45%, Clay 10%



Protocol

Product	Ca (%)	Product Rate	Rate (kg Ca/ha)	Applications
Untreated	-	-	-	-
Common Practice (CaCl ₂)	12	10 l/ha	1.57	3 times (at BBCH 76, 79, 81)
OmyaPro® Calcium	36	4.35 kg/ha	1.57	3 times (at BBCH 76, 79, 81)

Results



OmyaPro® Calcium improves the calcium nutrition of plums. As calcium is an essential part of the plant's cell walls and cell membranes, this is strengthening the structure of the fruit and the whole crop.

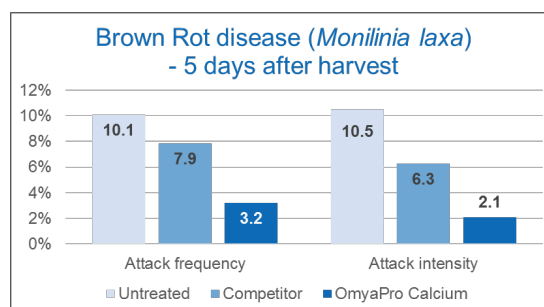
Field trial data showed a **10% increase in firmness of plums** compared to untreated fruits.

The increased fruit firmness is important for prolonged shelf-life and the reduction of harvest losses reflected in increased yields.

Field trial data showed a **11% increase in plum yield** compared to untreated fruits.

Due to the improvement of fruit strengths and probably due to the change in surface pH **OmyaPro® Calcium** also has a negative effect on pathogen attacks.

Field trial data showed a **strong reduction of brown rot disease frequency and intensity**.



Conclusions

OmyaPro® Calcium is improving calcium nutrition of plums. It strengthens the whole plant and fruits and reduces harvest losses caused by calcium deficiency.