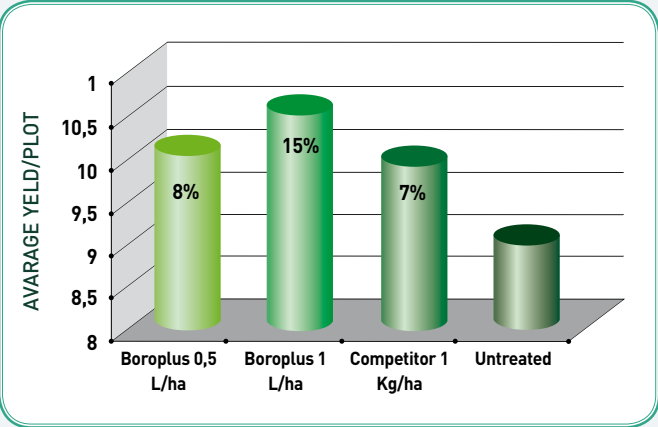
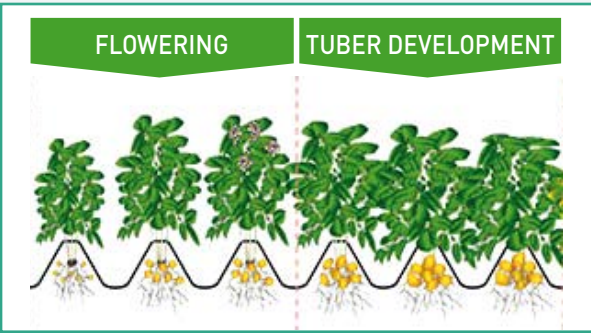


8. EXPERIMENTAL TRIALS

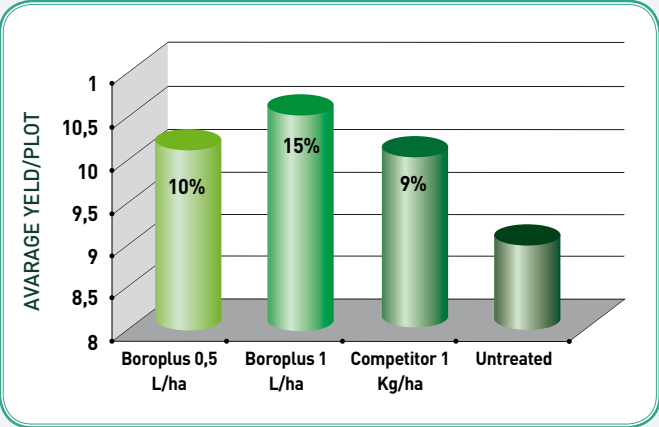
Experimental trial in condition of low Boron availability on potato.  
(San Pedro Colombia)



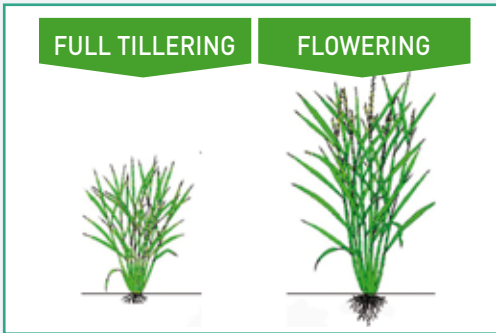
APPLICATION



Experimental trial in condition of low Boron availability on rice.  
(La Mata, Colombia)



APPLICATION



9. DIRECTIONS FOR USE





CROP



PERIOD OF APPLICATION



DOSAGE

 FOLIAR APPLICATION	CITRUS, DRUPACEOUS, GRAPE	3 applications starting from beginning of flowering	100-200 ml/hl
	POMACEOUS	3 applications starting from beginning of flowering	100-200 ml/ha
	OLIVE	pre-flowering	2 l/ha
		post-setting	2 l/ha
	VEGETABLES	from beginning of flowering	100-200 ml/hl
	ROW CROPS	early plant growth stages	1-2 l/ha
 FERTIGATION	FLOWER CROPS	pre-bud formation	100-150 ml/hl
	ROW CROPS	distribute before sowing or before pre emergence crop stages alone or mixed with herbicides	3-5 l/ha
	FRUIT CROPS	at starting vegetative growth	4-6 l/ha
	FLOWERS AND ORNAMENTAL CROPS	distribute before trasplanting or during fastes vegetative growth development	3-5 l/ha

RECCOMENDATIONS: We do not recommended to mix Boroplus with mineral oils, activated oils or with other products by alkaline reaction.



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BOROPLUS is a liquid boron based product that can be used for all crops. BOROPLUS contains fully soluble boron that can be easily uptaken by plants. BOROPLUS is not phytotoxic and can be mixed with other products in the tank mix. BOROPLUS can be applied by foliar application as well as drip irrigation system. Applied regularly on plants, BOROPLUS is able to improve flowering, fruit setting and sugar translocation and accumulation in fruits. [www.valagro.com](http://www.valagro.com)



BOROPLUS

MORE FLOWERS, IMPROVED FRUIT SETTING AND EFFICIENT SUGAR TRANSLOCATION IN YOUR PLANTS



MORE FLOWERS



MORE FRUITS



EFFICIENT SUGAR TRANSLOCATION





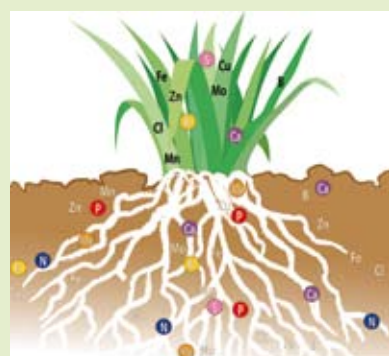
# 1. WHAT IS BOROPLUS?

Boroplus is a Boron-based product complexed with ethanolamine. The liquid formulation allow perfect uniformity of distribution of the product, both via foliar and fertigation. Thanks to its formulation, effective in the prevention of Boron deficiency, BOROPLUS is very safe even at early plant growth stages foliar applications.



# 2. BORON DEFICIENCY

The Boron deficiency is one of the most widespread deficiency in the world and it can cause an huge loss in the qualitative and quantitative crop production, with a consequent inhibition of the cell expansion, the death of meristem and a reduced fertility.


























The first signs and symptoms of a boron deficiency will begin to appear in the regions of new growth, in fact, it's deficiency causes a damage of cellular expansion in organs growing rapidly (leaves ,roots and the pollen tube). Moreover, it causes thickening, fragility and chlorosis of the leaves. It reduces, furthermore, the flowering and increases the fruit drop.

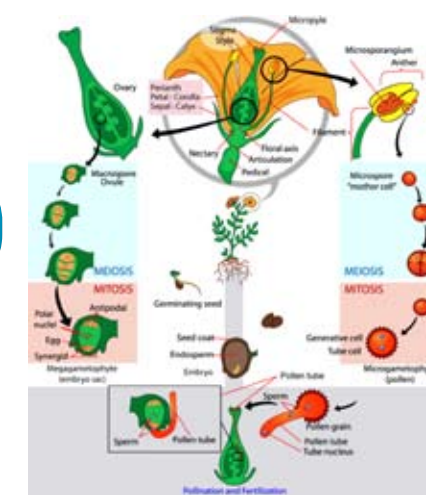
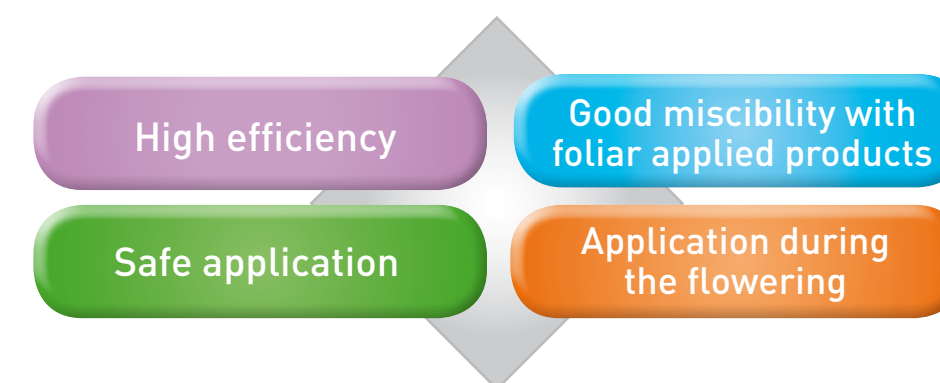
# 3. BOROPLUS: a key element for cell development

BOROPLUS releases Boron, which is one of the micronutrients that is essential for plant health, and is also considered to be one of the most deficient in the majority of crops. The major functions of Boron are based on its capacity to form complexes with the constituents of cell walls and plasma membranes and its involvement in maintaining cell wall structure and both the structural and the functional integrity of plasma membrane. Plants use the Boron provided by BOROPLUS promoting pollen germination, pollen tube growth, flower retention and the cell wall formation. BOROPLUS is also involved into carbohydrate metabolism, and sugar translocation into the plants. Cell division, fruit and seed development are also considerably dependent upon the presence of sufficient boron levels. Some of these functions are closely-related with the functions and roles of nitrogen, phosphorous, potassium and calcium in plants.

# 4. SENSITIVE CROPS

SENSITIVE				MODERATELY SENSITIVE				NOT SO SENSITIVE			
											
ROSA	CELERY	SUNFLOWER	GRAPE	CAULIFLOWER	LETTUCE	PEACH	CORN	ASPARAGUS	ONION	CUCUMBER	
											
OLIVE	APPLE	CARROT	SUGAR BEET	PEAR	TOMATO	SPINACH	TOBACO	WHEAT	RYE	BEANS	SOYBEAN

# 5. WHY CHOOSE BOROPLUS?



# 6. COMPOSITION

Boron complexed with ethanolamine	Water-soluble boron (B)	11,0%
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# 7. PHYSICAL PROPERTIES

FORMULATION	pH [1% in solution]	DENSITY [g/cm <sup>3</sup> ] 20°C	COLOUR	CONDUCTIVITY E.C. -1‰ (mS/cm) 18°C
liquid	7,7	1,37	yellow	0,20



Valagro is a leader in the production and commercialization of biostimulants and specialty nutrients for use in agriculture, gardening, and industrial applications. Founded in 1980 and headquartered in Atesa (Italy), Valagro is committed to providing innovative and effective solutions for plant nutrition and care. Its mission is to increase the quantity and quality of plants and harvested crops while enhancing productivity and reducing the environmental impact of cultivations.



# INNOVATION ACCORDING TO GEAPOW

Using science to seize and exploit the potential of Nature with an eye to environmental sustainability:

This is the principle behind GeaPower, the exclusive technology platform developed by Valagro in order to turn potential active ingredients into high-quality nutrient solutions. A technology based on four fundamental concepts:



Deep knowledge of active ingredients and raw materials



Selection of the extraction methods of active ingredients



Cutting edge investigations and analytical skills



Proven ability to provide effective solutions to the customer's requirements