

CROP : ONION - *PRINCE*

Trial carried out in France in 2003

SITE DETAILS

TRIAL N° :	D/F/OIG/03/07	Crop information
26250 LIVRON South East of France		Variety : Prince Sowing date : 19/02/03 Density of sowing : 42 seeds per m ² Soil type : Loam Irrigation : over head irrigation (sprinklers)

APPLICATION DETAILS

	Product	Dose rate	Date of spraying	Crop stage at application	Volume of water	Remarks
Application N°1	AMINOFIT.Xtra	2 l/ha	03/06/03	Early bulb formation	250 l/ha	Mixed with Pulsan (oxadixyl+cymoxanil)
Application N°2	AMINOFIT.Xtra	2 l/ha	17/06/03	Bulb swelling	250 l/ha	Mixed with Pulsan (oxadixyl+cymoxanil)
Application N°3	AMINOFIT.Xtra	2 l/ha	04/07/03	1 month before harvest	250 l/ha	Mixed with Pulsan (chlorothalonil+mefenoxam)

MATERIALS AND METHODS

Plot size : 1 ha
Trial design : 4 samplings per treatment on one row and 3 metres long
Application method : Foliar spray
Equipment used : Farmers tractor mounted sprayer equipped with a boom

DISCUSSION, CONCLUSION

Climatic conditions were very stressful during the progress of the trial with daily high temperatures, long sunny periods and very low air relative humidity. The crop was regularly watered to fulfil the plant water needs.

Under these conditions, AMINOFIT.Xtra applied 3 times increased significantly the size of the bulbs, since 38% of the bulbs are 70 mm diameter or more in the treated plots against 25% in the control plots. The size increase leads to a 20% yield increase.

A significant effect is also measured in the brix level with a gain of 1,3 point.

RESULTS

Date of assessment	06/08/03 = 33 days after the last application						
Crop stage	Maturity						
Type of record	Total number of onions	Number of onions calibre < 45	Number of onions calibre 50	Number of onions calibre 60	Number of onions calibre 70	Number of onions calibre 80	Number of onions calibre > 80
AMINOFIT.Xtra	113 (a)	4.25 (b)	27.00 (a)	39.5 (a)	34.75 (a)	7.25 (a)	0.75 (a)
Untreated control	122 (a)	8.5 (a)	37.75 (a)	47.00 (a)	26.75 (b)	3.75 (b)	0.25 (a)

Remark : The number of onions by size is measured on a 12 kg sample

Date of assessment	06/08/03 = 33 days after the last application							
Crop stage	Maturity							
Type of record	Total weight of onions on 3 m long in kg	Weight of onions calibre < 45 en g	Weight of onions calibre 50 en g	Weight of onions calibre 60 en g	Weight of onions calibre 70 en g	Weight of onions calibre 80 en g	Weight of onions calibre > 80 en g	Brix
AMINOFIT.Xtra	31.09 (a)	83 (b)	1723 (a)	3705 (a)	4285 (a)	1452 (a)	-	9.9 (a)
Untreated control	25.94 (b)	199 (a)	1967 (a)	4462 (a)	3554 (a)	706 (b)	-	8.6 (b)

Date of assessment	06/08/03 = 33 days after the last application					
Crop stage	Maturity					
Type of record	% onions calibre < 45	% onions calibre 50	% onions calibre 60	% onions calibre 70	% onions calibre 80	% onions calibre > 80
AMINOFIT.Xtra	4	24	35	31	6	1
Untreated control	7	31	38	22	3	0

GRAPHS

