

# CROP : APPLE - *GOLDEN*

Trial carried out in France in 2002

## SITE DETAILS

TRIAL N° :	D/F/POM/02/09	Crop information
81500 LAVAUUR South West region		Variety : <b>Golden</b> Date of planting : 1980 Density of planting : 3,5 m between rows, 1,2 m on the row Height of the trees : 3 m Irrigation type : Drip irrigation Over head hail protecting nets

## APPLICATION DETAILS

	Product	Dose rate	Date of spraying	Crop stage at application	Volume of water	Remarks
Application N°1	AMINOFIT.Xtra	2,5 l/ha	29/03/02	Beginning of flowering	200 l/ha	Mixed with Microthiol + Dithane M 45
Application N°2	AMINOFIT.Xtra	2,5 l/ha	05/04/02	Mid flowering	200 l/ha	Mixed with Microthiol + Dithane M 45 + Score
Application N°3	AMINOFIT.Xtra	5 l/ha	06/05/02	Fruit 15 to 17 mm diameter	200 l/ha	Mixed with Microthiol + Delan WG + Score
Application N°4	AMINOFIT.Xtra	5 l/ha	12/07/02	Fruit 53 mm diameter	200 l/ha	AMINOFIT.Xtra applied alone
Application N°5	AMINOFIT.Xtra	5 l/ha	14/08/02	Fruit 68 mm diameter	200 l/ha	AMINOFIT.Xtra applied alone

## MATERIALS AND METHODS

Plot size : 1 ha. The observations are carried out on 3 consecutive trees by sampling  
Trial design : 4 bloks at random  
Application method : Foliar spray  
Equipment used : Tractor towed mist-blower  
Assessments : At harvest : size and weight of fruits on 100 fruits sampled at random on 3 consecutive trees,  
The calibre was measured with the help of a manual calibration slab,  
Brix was measured on 20 fruits per plot with a manual refractometer  
Firmness was measured on 20 fruits per plot with a penetrometer  
After harvest, fruits were stored in a dark store at 6 to 10°C.

## COMMENTS CONCLUSION

The weather throughout the season was favourable for a good maturation of the fruit. The amount of fruit on the trees was large and equal in both modalities.

In the plots treated with AMINOFIT.Xtra, the sugar content in the fruit was significantly superior to the control plots : + 0,6 points brix at harvest and + 0,4 points 132 days later.

The apples were equally firm at harvest, but evolved more favourable in the plots treated with AMINOFIT.Xtra with a difference of 0,11 kg/cm<sup>2</sup> after four months of storage.

## RESULTS

Date of assessment	03/09/02 = 20 days after the last application		
Crop stage	Maturity		
Type of record	% fruit of calibre <70	% fruit of calibre 70 to 80	% fruit of calibre > 80
AMINOFIT.Xtra	29 (a)	67 (a)	4 (a)
UNTREATED CONTROL	32 (a)	64 (a)	4 (a)
% of the control	- 9.4	+ 4.7	0

Date of assessment	03/09/02 = 20 days after the last application		13/01/03	
Crop stage	Harvest – at maturity		132 days after harvest	
Type of record	Refractometer index	Firmness	Refractometer index	Firmness
AMINOFIT.Xtra	13.4 (a)	7.34 (a)	12.8 (a)	5.18 (a)
UNTREATED CONTROL	12.8 (b)	7.39 (a)	12.4 (a)	5.07 (a)
% of the control	+ 4.7	- 0.7	+ 3.2	+ 2.2

## GRAPHS

