

CROP : APPLE - *FORTUNE*

Trial carried out in France in 2002

SITE DETAILS

TRIAL N°: D/F/POM/02/54	Crop information
81500 LAVAUUR South West region	Variety : Fortune 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 : micro jets 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	Early flowering	200 l/ha	Mixed with fungicides
Application N°2	AMINOFIT.Xtra	2,5 l/ha	05/04/02	Mid flowering	200 l/ha	Mixed with fungicides
Application N°3	AMINOFIT.Xtra	5 l/ha	06/05/02	Fruit 15 to 17 mm diameter	200 l/ha	Mixed with fungicides
Application N°4	AMINOFIT.Xtra	5 l/ha	12/07/02	Fruit 53 mm diameter	200 l/ha	Applied alone
Application N°5	AMINOFIT.Xtra	5 l/ha	14/08/02	Fruit 69 mm diameter, 29 days pre harvest	200 l/ha	Applied alone

MATERIALS AND METHODS

Plot size : 0,5 hectare
Trial design : 4 replicates
Application method : Foliar spray
Equipment used : Tractor towed mist-blower

COMMENTS CONCLUSION

The climate was good during the growing season, without any particular stress.
In plots treated with AMINOFIT.Xtra, the brix level is higher than in control plots: + 0,3 at harvest and + 0,6 after 169 days of storage.
AMINOFIT.Xtra also allows to increase significantly the firmness from + 0,6 % at harvest to + 1,2% after 6 months storage.

RESULTS

Date of assessment	12/09/02 = 29 days after last application							
Crop stage	Maturity							
Type of record	% fruit of calibre 60	% fruit of calibre 65	% fruit of calibre 70	% fruit of calibre 75	% fruit of calibre 80	% fruit of calibre 85	I.R. (Brix)	Firmness (8 mm)
AMINOFIT.Xtra	5,25 (a)	18,75 (a)	37,25 (a)	28,75 (a)	8,25 (b)	1,50 (a)	10,7 (a)	7,69 (a)
UNTREATED CONTROL	5,00 (a)	19,00 (a)	25,25 (b)	27,75 (a)	17,50 (a)	5,50 (a)	10,4 (a)	7,64 (b)

Remarks :

The calibre was measured on 100 apples per plot (50 apples on both sides of the row).
Brix and firmness were measured on 20 apples per plot.

Date of assessment	28/02/03 = 169 days after harvest	
Type of record	Firmness in kg/cm ²	Refractometer index (Brix)
AMINOFIT.Xtra	4.28	11.0
UNTREATED CONTROL	4.23	10.4

Remarks :

The fruits were stored in a dark cold room at a temperature varying from 4°C to 10°C.

GRAPHS

