

CROP : CHERRIES - *SUMMIT*

Trial carried out in France in 2002

SITE DETAILS

TRIAL N° :	D/F/CER/02/46	Crop information
82200 MOISSAC South West of France		variety : Summit Root stock : Edabriz Date of planting : 1998 Density of planting : 4,5 m between the rows and 1,6 m in the row Height of the trees : 3,2 m Drip Irrigation

APPLICATION DETAILS

	Product	Dose rate	Application date	Crop stage on application	Volume of the mixture	Remarks
Application N°1	AMINOFIT.Xtra	2,5 l/ha	05/04/02	Mid flowering	200 l/ha	AMINOFIT.Xtra applied alone
Application N°2	AMINOFIT.Xtra	5 l/ha	04/05/02	Bud formation, diameter = 1cm	200 l/ha	AMINOFIT.Xtra applied alone
Application N°3	AMINOFIT.Xtra	5 l/ha	10/05/02	Beginning of colouring	200 l/ha	AMINOFIT.Xtra applied in mixture with Horizon arbo
Application N°4	AMINOFIT.Xtra	5 l/ha	21/05/02	14 days before harvest	200 l/ha	AMINOFIT.Xtra applied alone

MATERIALS AND METHODS

Plot size : 2 rows with 5 trees per row or 10 trees per plot

Number of replicates : 3

Application method : Foliar spray

Equipment used : Tractor trailed mist-blower

Assessments : Throughout the season : record of any visual effect on the plants
At harvest : yield, fruit size, brix level and shelf life

COMMENTS CONCLUSION

AMINOFIT.Xtra, applied on 4 dates starting from flowering until 14 days before harvest allows to augment significantly the quality of the harvest.

On the first harvest date, 14 days after the last application, the effects are especially evident on the calibre of the fruits, since 89% of the cherries in the plots treated with AMINOIFIT.Xtra are of calibre 30 against only 37% in the control plots. The average weight of the cherries also increased with about 18 %.

AMINOFIT.Xtra also allows an increase in the brix level with 1,7 point.

On the second harvest date, 17 days after the last application, the effects are similar with 93% of the cherries of the treated plots of calibre 30 against 73% of the control plots.

On the other hand, there is less effect on the brix % since there was a lot of rain (74 mm) in the night of June 5th on June 6th. This rain caused an important drop in the sugar level. What is more, the first picking was especially performed high up in the trees, were the first ripe fruit is. However, brix level is again higher in the plots treated with AMINOFIT.Xtra with a difference of 0,7 point.

RESULTS

Visual crop assessments

No visual effect was seen on the foliage.

Fruit size

Date of assessment	04/06/02 = 14 days after the last application						07/06/02 = 17 days after the last application					
Crop stage	Maturity, first harvest date						Maturity, second harvest date					
Studied Parameter	% fruit of calibre 24	% fruit of calibre 26	% fruit of calibre 28	% fruit of calibre 30	Av. weight / cherry in g	I.R.	% fruit of calibre 24	% fruit of calibre 26	% fruit of calibre 28	% fruit of calibre 30	Av. weight / cherry in g	I.R.
AMINOFIT.Xtra	0 (a)	0 (a)	11,3 (b)	88,7 (a)	11,7 (a)	16,0 (a)	0	0 (a)	7,3 (b)	92,7 (a)	12,3 (a)	14,8 (a)
CONTROL	1,3 (a)	18,7 (a)	43,3 (a)	36,7 (b)	9,9 (b)	14,3 (b)	0	4,6 (a)	22,7 (a)	72,7 (b)	11,4 (b)	14,0 (b)

Remarks :

The calibre and the average weight were measured on 50 cherries per lot, or on about 500 grams.

Brix was measured on a sample of 250 grams of cherries per plot.

Shelf life was evaluated on a sample of 25 fruits conserved in the dark at 14°C.

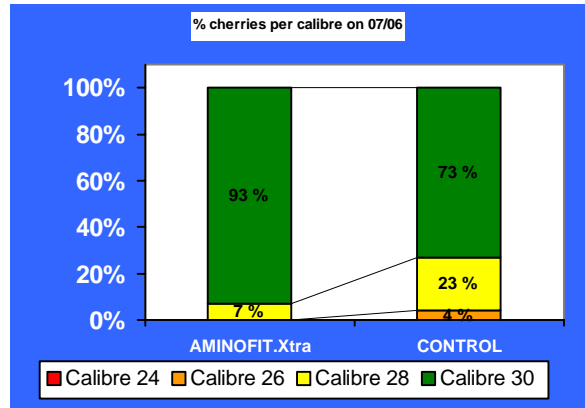
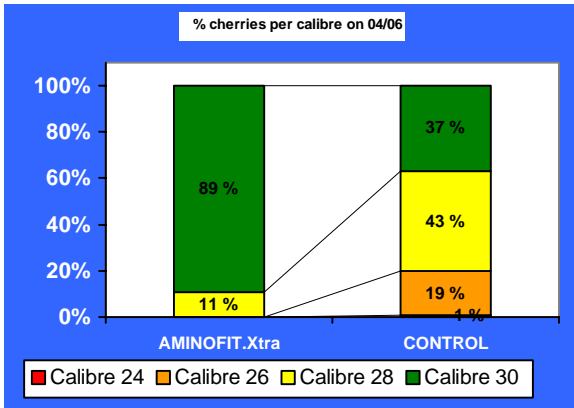
Shelf life of cherries picked on June 4th

Date of assessment	14/06/02	17/06/02	21/06/02	28/06/02	02/07
Crop stage	10 days after harvest	13 days after harvest	17 days after harvest	24 days after harvest	28 days after harvest
Studied parameter	Cumulative % of cherries that can no longer be marketed				
AMINOFIT.Xtra	9 (a)	9 (a)	23 (a)	36 (a)	63 (a)
CONTROL	9 (a)	20 (a)	37 (a)	61 (a)	87 (a)

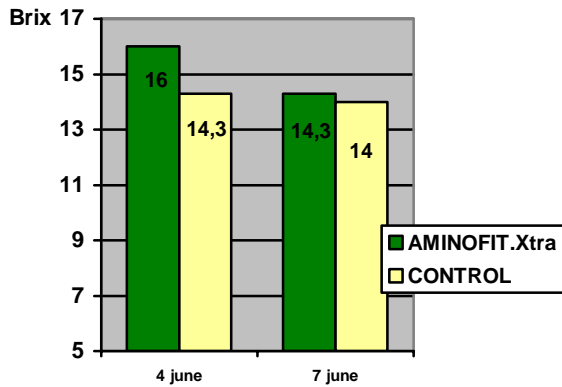
Shelf life of cherries picked on June 7th

Date of assessment	14/06/02	17/06/02	21/06/02	28/06/02	02/07/02
Crop stage	7 days after harvest	10 days after harvest	14 days after harvest	21 days after harvest	25 days after harvest
Studied parameter	Cumulative % of cherries that can no longer be marketed				
AMINOFIT.Xtra	11 (a)	27 (a)	43 (a)	56 (a)	71 (a)
CONTROL	12 (a)	23 (a)	37 (a)	57 (a)	71 (a)

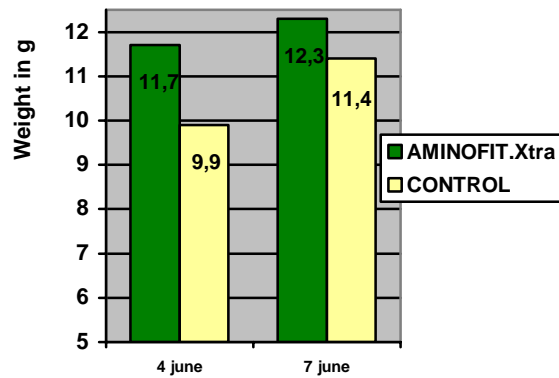
GRAPHIC SYNTHESIS



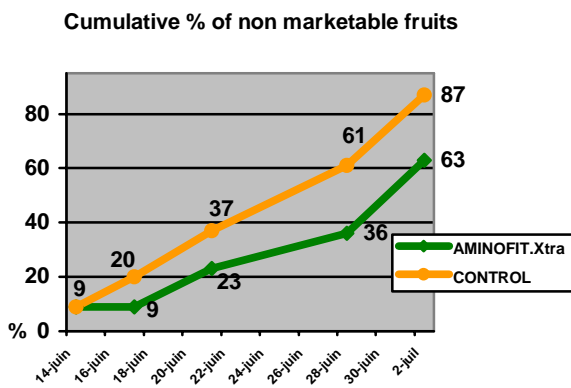
Refractometer index (Brix)



Average weight / cherry (in g)



Shelf life, harvest of 04/06



Shelf life, harvest of 07/06

