CROP : PLUM – *REINE CLAUDE BAVAY*

Trial carried out in France in 2002

SITE DETAILS

TRIAL N° :	**D/F/PRU/02/50**	**Crop information**
82200 MOISSAC South West region		Variety : **Reine Claude Bavay** Root stock : Mirobolan Date of planting : 1965 Density of planting : 5,5 m between rows, 5,5 m on the row Height of the trees : 3,2 m Irrigation type : Drip irrigation

APPLICATION DETAILS

	Product	Dose rate	Application date	Crop stage at application	Volume of water	Remarks
Application N°1	AMINOFIT.Xtra	2,5 l/ha	20/03/02	Mid flowering	200 l/ha	AMINOFIT.Xtra applied alone
Application N°2	AMINOFIT.Xtra	2,5 l/ha	03/05/02	Bud formation, diameter =1cm	200 l/ha	AMINOFIT.Xtra applied alone
Application N°3	AMINOFIT.Xtra	5 l/ha	20/06/02	Beginning of colouring	200 l/ha	AMINOFIT.Xtra applied alone
Application N°4	AMINOFIT.Xtra	5 l/ha	30/07/02	12 days before harvest	200 l/ha	AMINOFIT.Xtra applied alone

MATERIALS AND METHODS

Plot size : 2 rows with 12 trees per row
Trial design : 4 replicates
Application method : Foliar spray
Equipment used : Tractor towed mist-blower
Assessments : At harvest : size and weight of fruits,
Brix level,
Shelf life.

COMMENTS CONCLUSION

The 4 applications of AMINOFIT.Xtra that were realised from flowering stage until 15 days before harvest, have significantly increased the calibre of the fruit since 65 % of the fruit treated with AMINOFIT.Xtra were of calibre 50 and higher against 34 % for the control. This increase in calibre has a direct influence on the sales price of the harvest since higher calibre have higher sales prices.
AMINOFIT.Xtra also leads to a higher sugar level with a brix of 19,3 against 17 compared to the control.

These very positive effects on the calibre and the sugar content may have been heightened by the cold and wet weather during the last ten days before harvest, which has perturbed the maturation process of the fruit.

RESULTS

Date of assessment	04/07/02 = 14 days after the last application					
Crop stage	Maturity					
Type of record	% fruit of calibre 40	% fruit of calibre 45	% fruit of calibre 50	% fruit of calibre 55	Aver. weight / prune in gr	I.R. (% Brix)
AMINOFIT.Xtra	0,5 (b)	34,5 (b)	64,5 (a)	0,5 (a)	55,4 (a)	19,3 (a)
UNTREATED CONTROL	12 (a)	53,5 (a)	34,0 (b)	0,5 (a)	49,8 (b)	17,0 (b)

Date of assessment	22/08/02	28/08/02	02/09/02	07/09/02
Number of days after the harvest	10	16	21	26
Type of record	Cumulated % of prunes that are no longer fit for commercialisation (loss of firmness)			
AMINOFIT.Xtra	40	56	78	100
UNTREATED CONTROL	44	56	80	100

Remarks :
The calibre was measured on 50 plums per plot.
Brix was measured on a sample of 500 grams fruit per plot with a manual refractometer.
Shelf life was evaluated on a unique sample of 50 pieces of fruit per plot, conserved in the dark at 14°C. All damaged, withered, soft, waxy or spotted fruits were considered no longer fit for commercialisation and were withdrawn from the lot at every observation.

GRAPHS