



Alternatives products efficiency trials on powdery mildew of the blackcurrant

**Armicarb (potassium bicarbonate)
et Prev-am ou Prev B2 (terpene from orange peel)**



3 efficiency trials :

- 2008 : FREDON BOURGOGNE : **Armicarb**
- 2009 : Expérimental station of Morinière : **Armicarb**
SRAL BOURGOGNE : **Armicarb and Prev-am**



1 programs trial :

- 2009 : Consular chamber of Agriculture of Côte d'Or : **Armicarb and Prev B2**



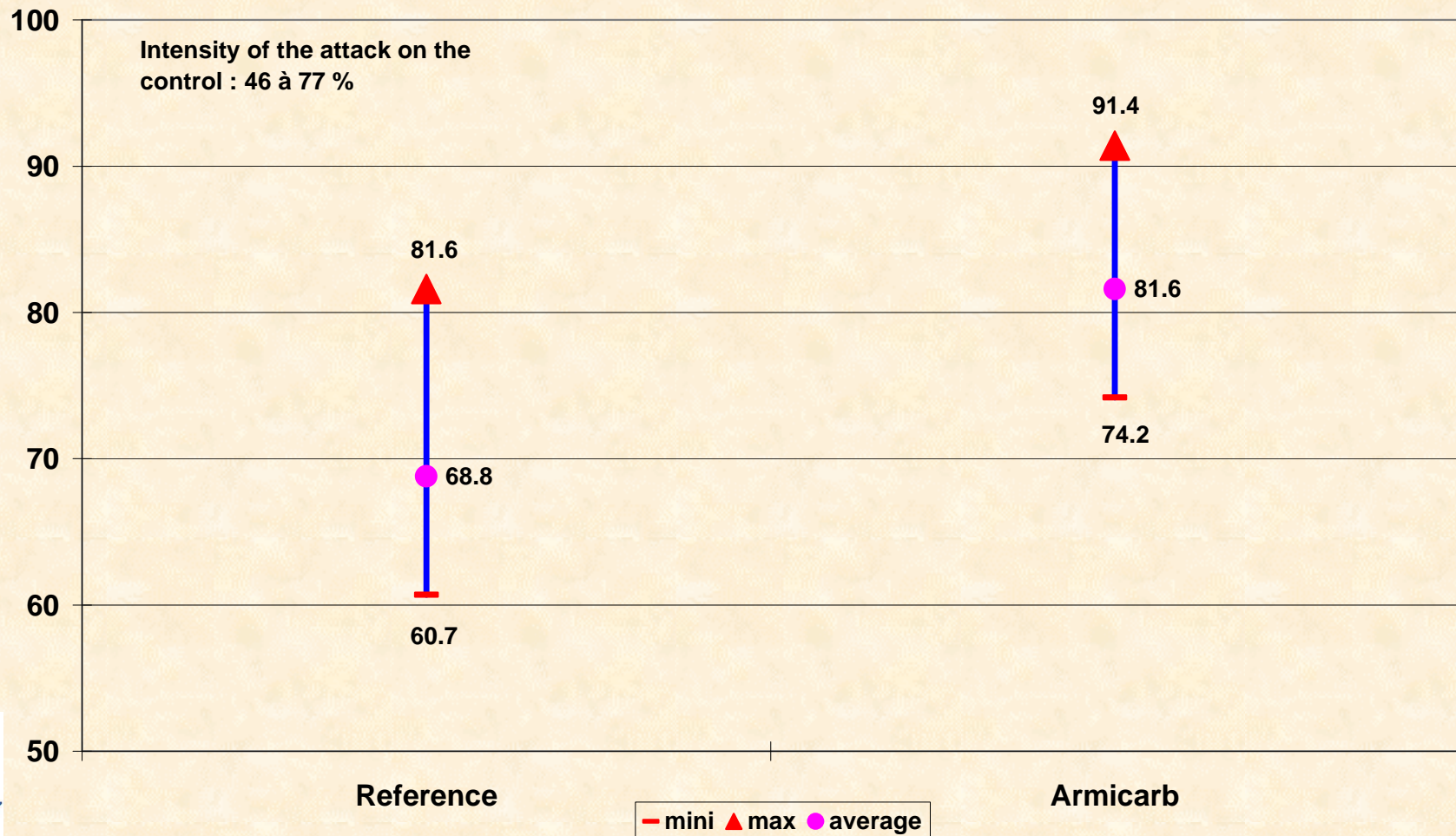
Alternatives products efficiency trials on powdery mildew of the blackcurrant

3 Efficiency trials

Trial	Reference	Modality 01	Modality 02
FREDON 2008	3 x bupirimat 375 g/ha then 2 x dinocap 175 g/ha Cadence 8-10 days protection of stage F2-F3 until 50 % veraison	5 x Armicarb 5 kg/ha idem idem	
La Morinière 2009	5 x bupirimat 375 g/ha Cadence 14 days protection of stage F1 until 21 days before harvest	5 x Armicarb 5 kg/ha idem idem	
SRAL 2009	6 x bupirimat 375 g/ha Cadence 12-14 days protection of stage F2 until 14 days before harvest	8 x Armicarb 5 kg/ha Cadence 8-10 days idem	8 x Prev-am 2.4 l/ha idem idem

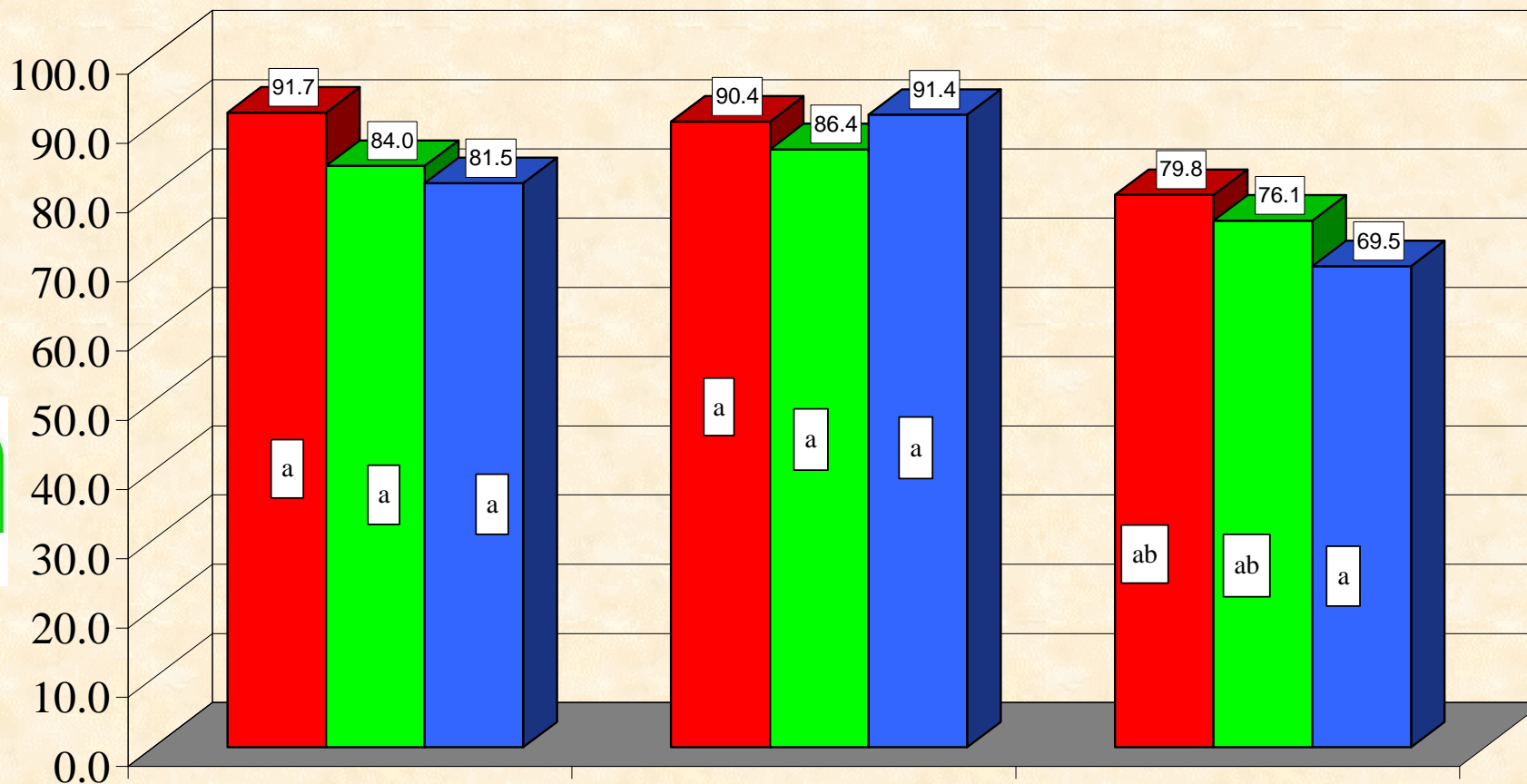
Synthesis of 3 trial with Armicarb : FREDON (2008), La Morinière et SRAL (2009)

% Efficiency on the intensity of the attack before harvest



Comparison of efficiencies of bupirimat, Armicarb and Prev-am (SRAL 2009)

% Efficiency on the intensity of the attack



bupirimat

Armicarb

Prev-am

Untreated intensity :
- 14/05/09 : 3.9 %
- 05/06/09 : 33.7 %
- 24/06/09 : 76.9 %

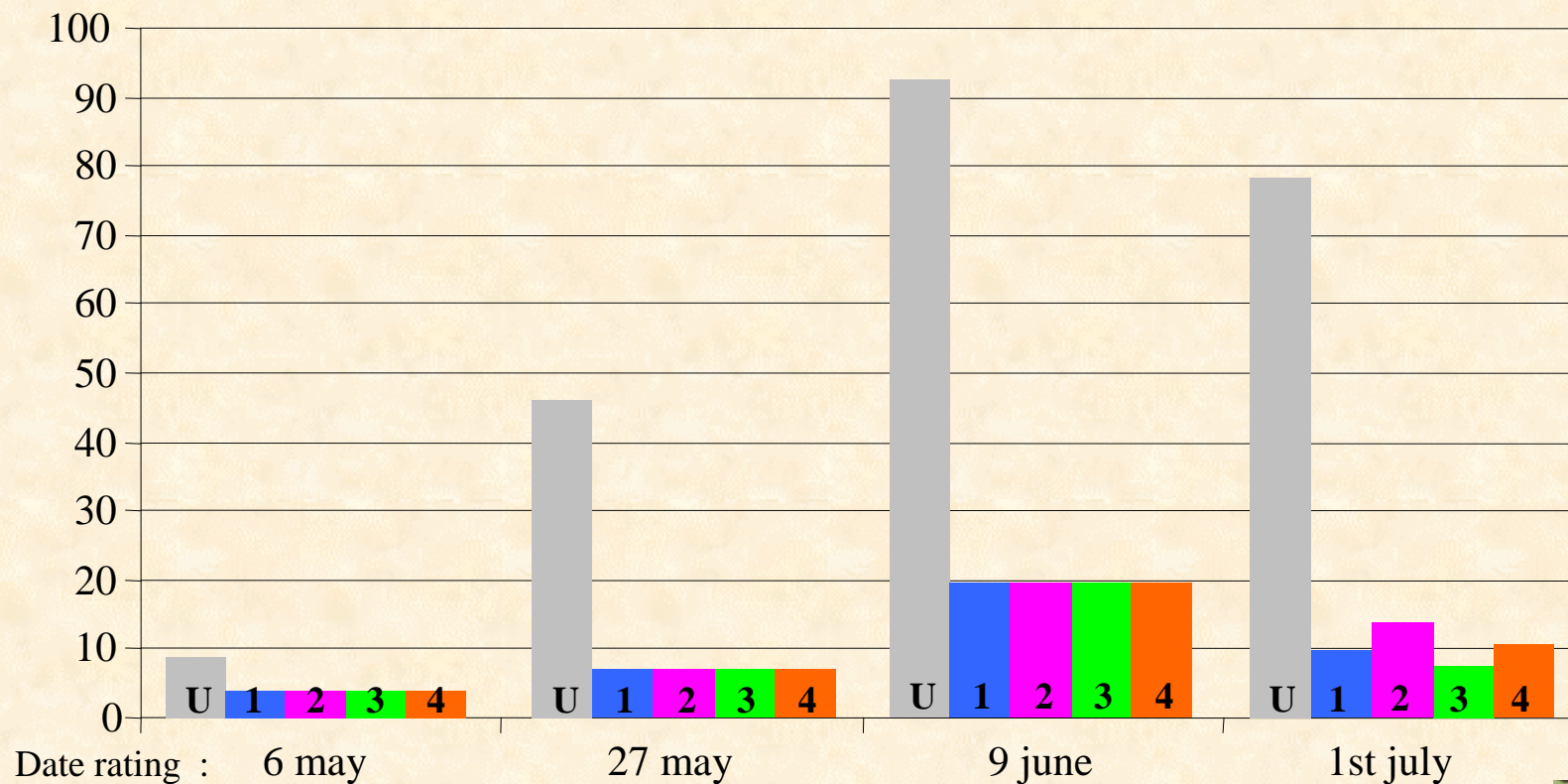
14/05/2009
05/06/2009
24/06/2009

Trial alternative control programs against powdery mildew - 2009

	T1 (3/4 Flo) 21 april	T2 (first symptom) 5 may (T1+14 j)	T3 (100 % fruit set) 18 may (T2+13j)	T4 (first veraison) 29 may (T3+11j)	T5 (mid veraison) 9 june (T4+11j)	T6 (end veraison) 19 june (T5+10j)
Mod 1	krésoxim-m	myclobutanil	krésoxim-m	myclobutanil	bupirimat	bupirimat
Mod 2	krésoxim-m	myclobutanil	krésoxim-m	myclobutanil		
Mod 3	krésoxim-m	myclobutanil	krésoxim-m	myclobutanil	Armicarb	Armicarb
Mod 4	krésoxim-m	myclobutanil	krésoxim-m	myclobutanil	Prev B2	Prev B2

Overall Intensity

Notes issued last 4 leaves of 25 growth per plot (400 leaves per modality)



U = untreated



Alternatives products efficiency trials on powdery mildew of the blackcurrant

Conclusions

Armicarb and Prev-am :

give excellent results on powdery mildew blackcurrant

can integrate treatment programs to reduce the risk of residues at harvest

can be used in organic agriculture

However :

phytotoxicity's risk, in particular with Prev-am

need to treat every 8 -10 days

their prices is a limit to their use