

Alt'Carpo : an innovative approach

Lionel ROMET 

Guilhem SEVERAC 

Objective : test and develop an efficient control technique of codling moth (*Cydia pomonella*), most damaging pest on apples in southern France.

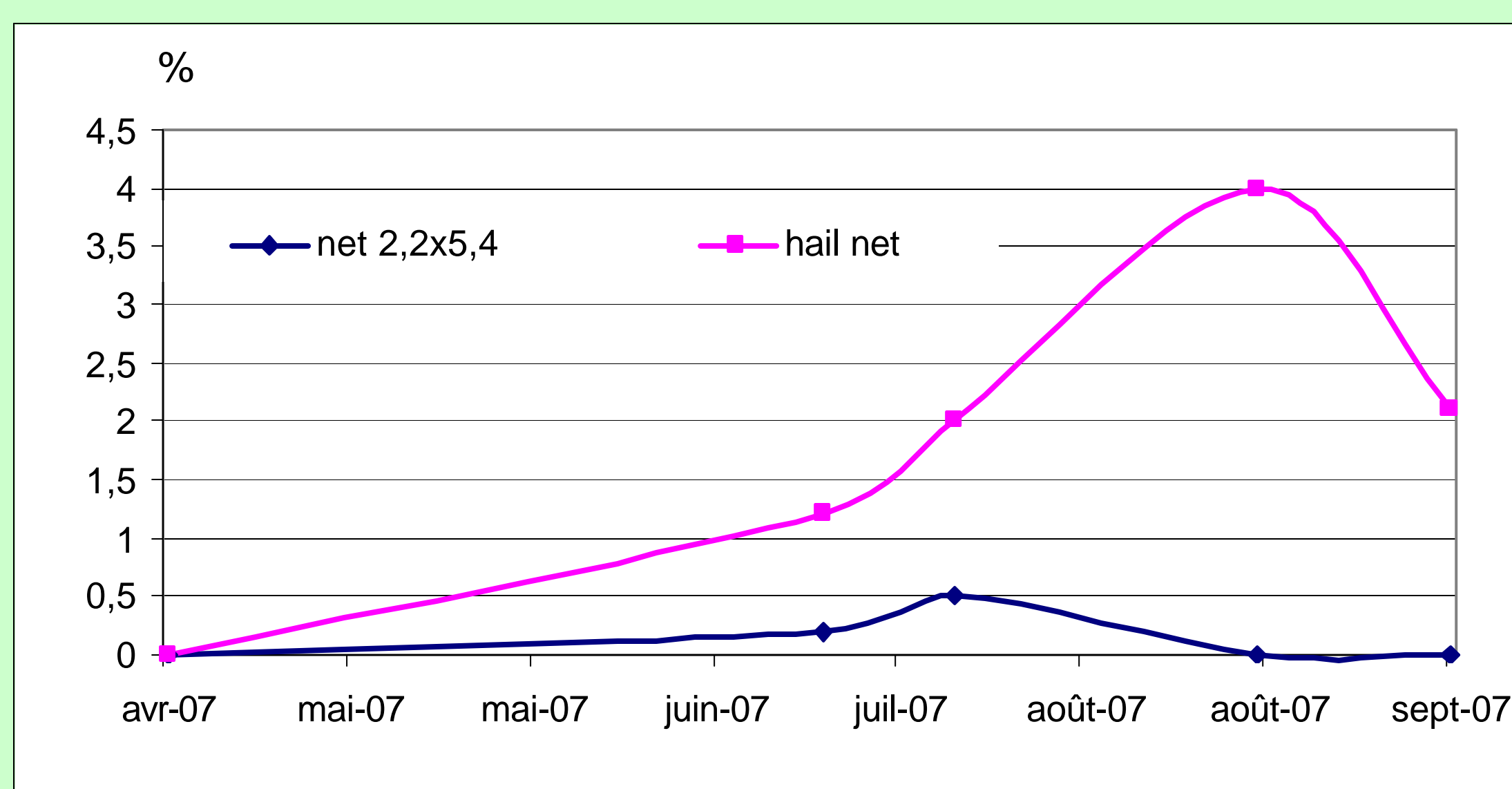
Method : enclosing each row with a hail net all along codling moth (CM) activity period, to limit hatching. No other insecticide applied.

Material :

- trials 2006 : hail nets (3x7,4mm) and smaller mesh (2,2x5,4mm)
- trials & development 2007 : nets (2,2x5,4mm)

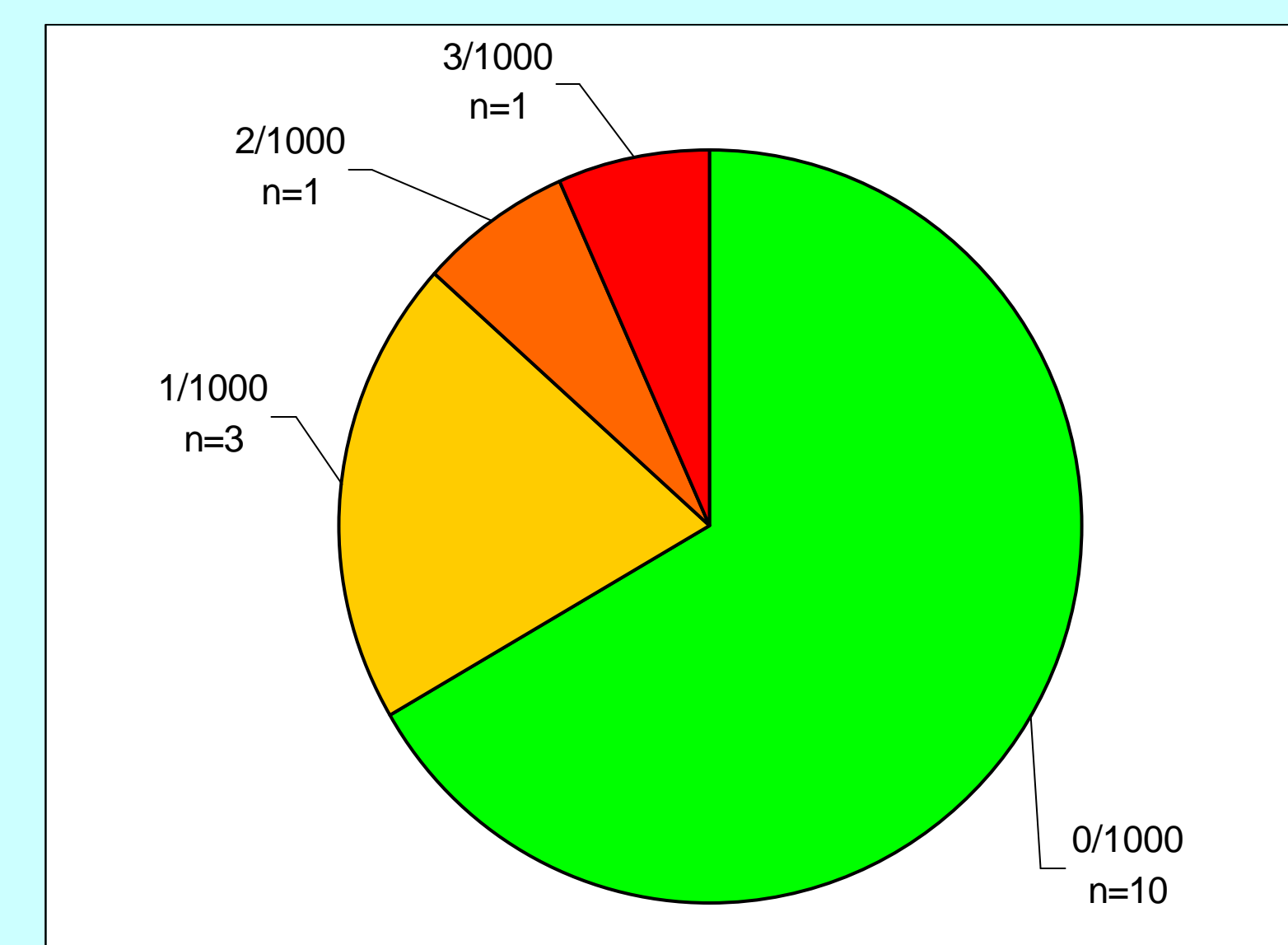
Results :

Effect of net mesh :
CM damage % for 2 different nets :



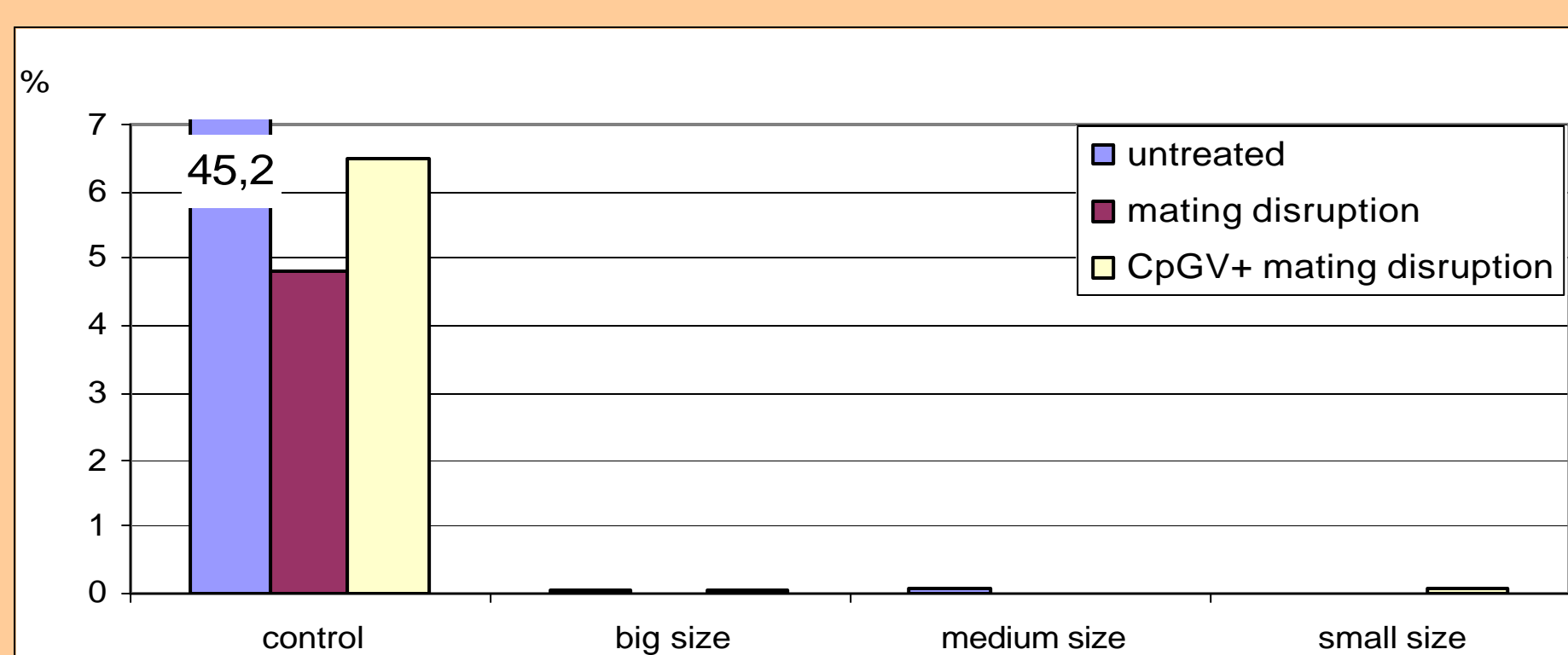
Alt'Carpo : efficacy in 2007 :

- Spread of the method
- 30 ha covered (15 orchards) –
- IP and organic – apple trees.
- Damage level at harvest = 7/10.000 fruits
- Results : classification of orchards according to damage rate at harvest :



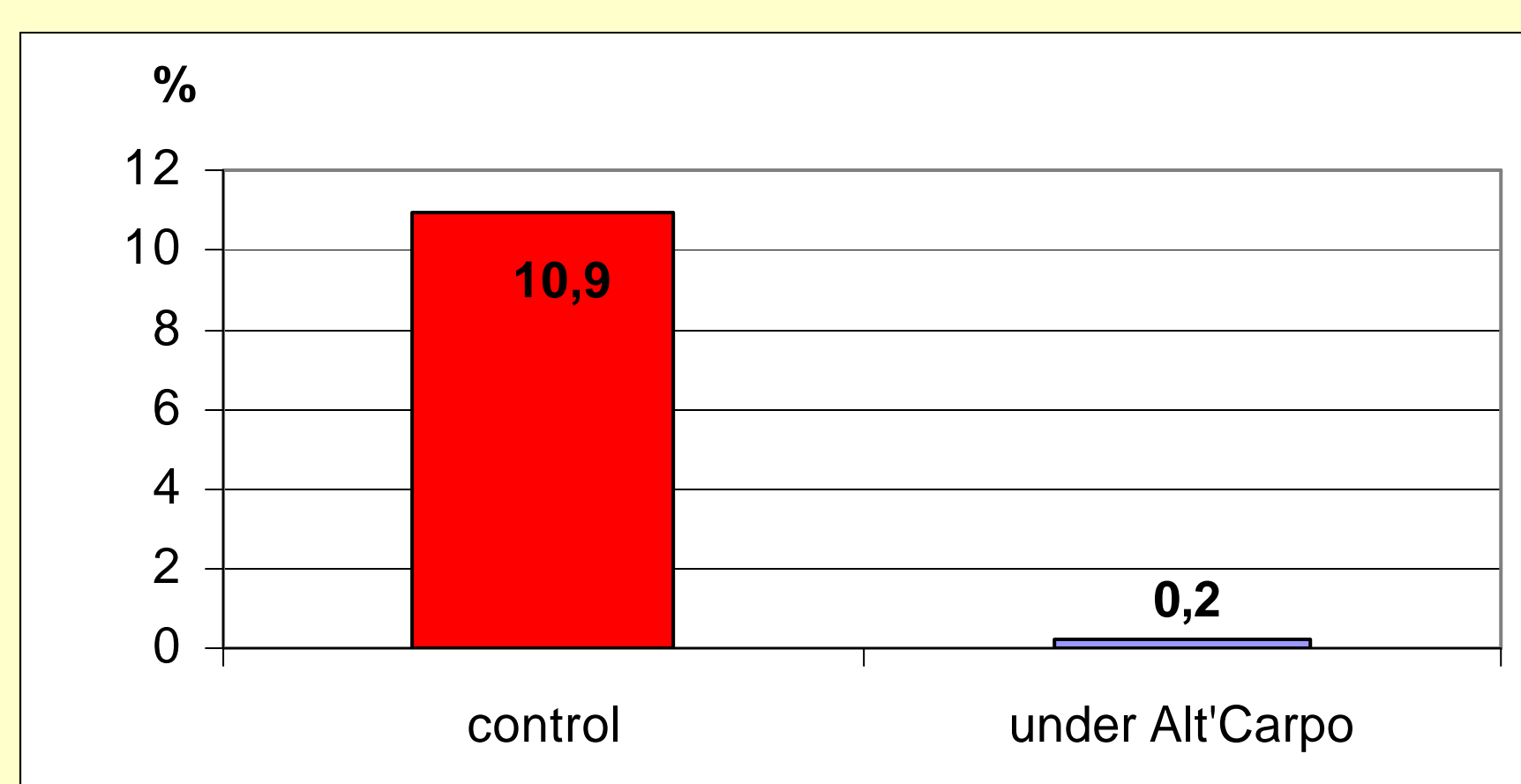
Alt'Carpo : efficacy 2006 :

- Comparison :
 - net (3 sizes)
 - untreated
 - mating disruption
 - mating disruption + CpGV
- 10 repetitions
- Damage rate at harvest = 5/10.000 fruits
- Results under nets :



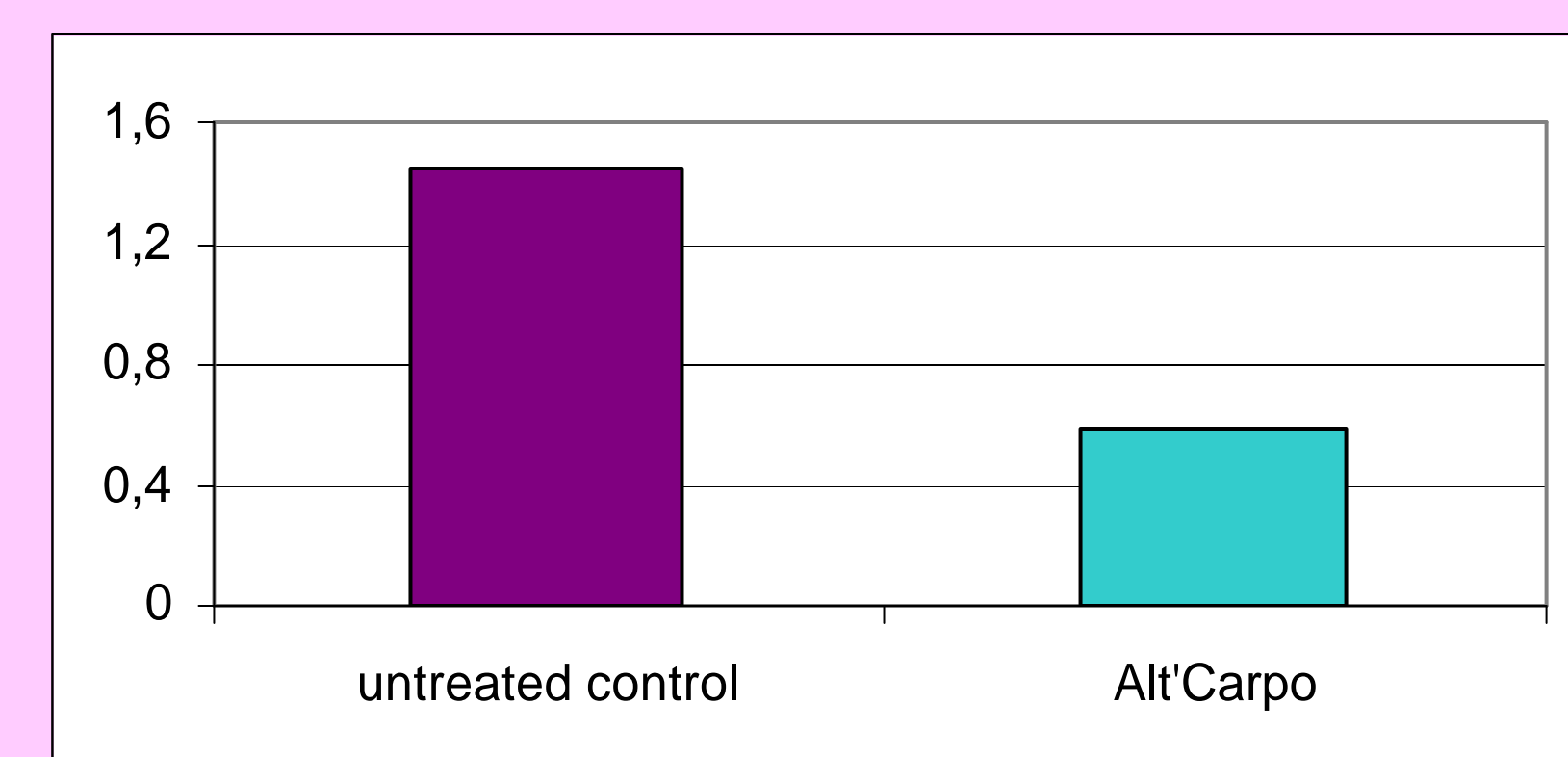
Alt'Carpo : efficacy on birds attacks :

Results : damaged by birds fruits rate at harvest :



Limiting pollination :

- 2 treatments :
 - net after BBCH 61-62, set up at sundown
 - control with no chemical thinning
- Nb of fruits per cluster :



Influence of net set up on CM damages

