

# Alt'Carpo : an innovative approach

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**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.



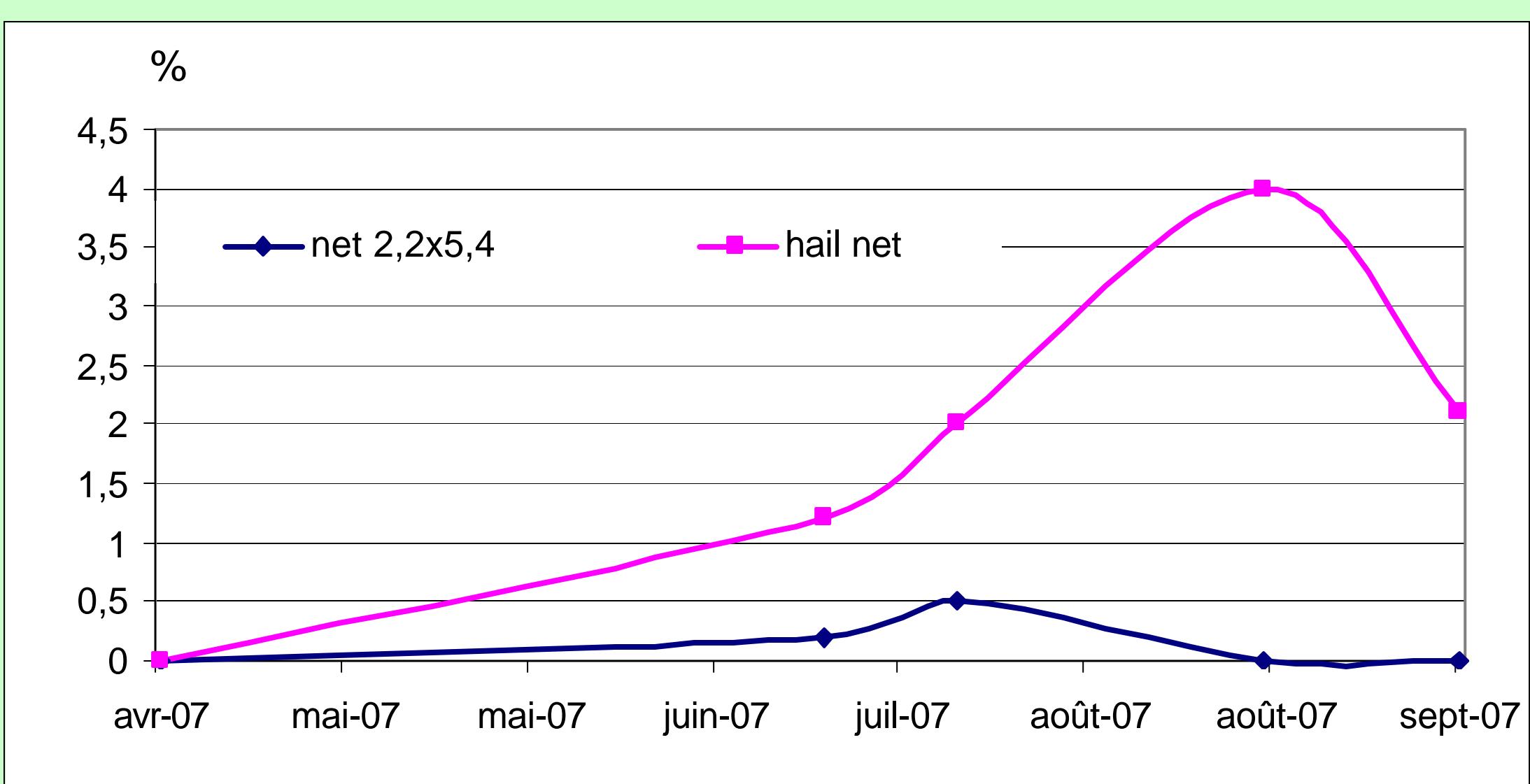
## Material :

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

## Results :

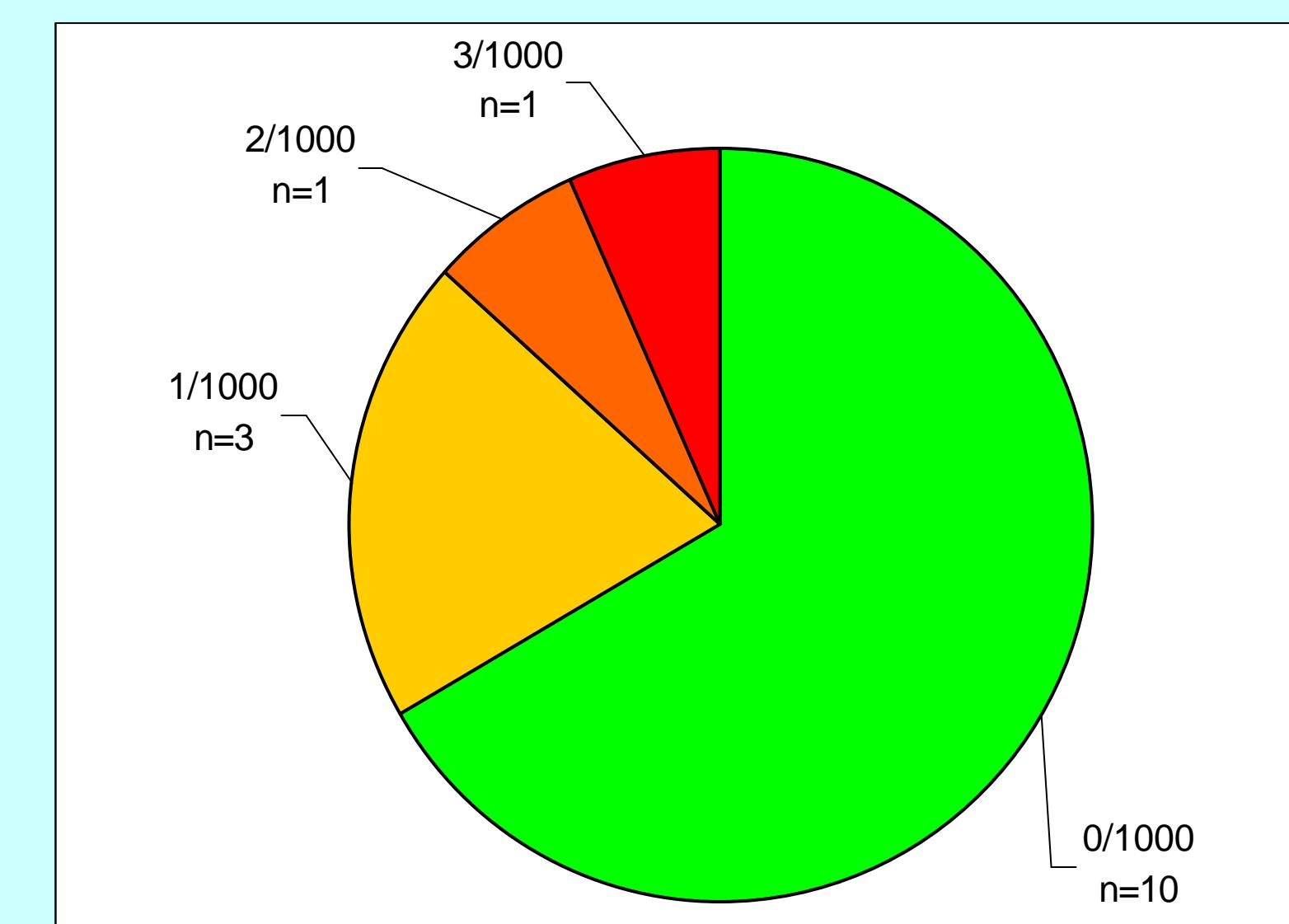
### Effect of net mesh :

CM damage % for 2 different nets :



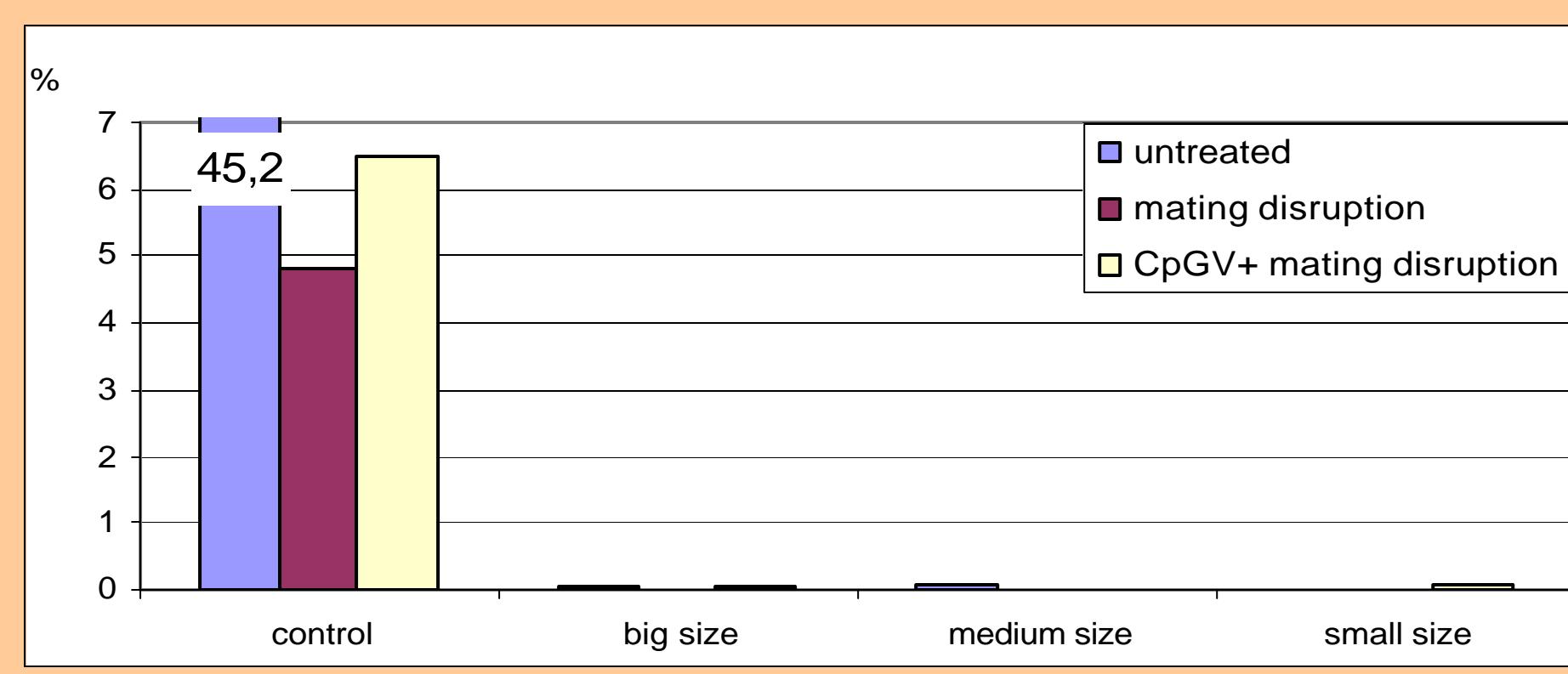
### Alt'Carpo : efficacy in 2007 :

- 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 :

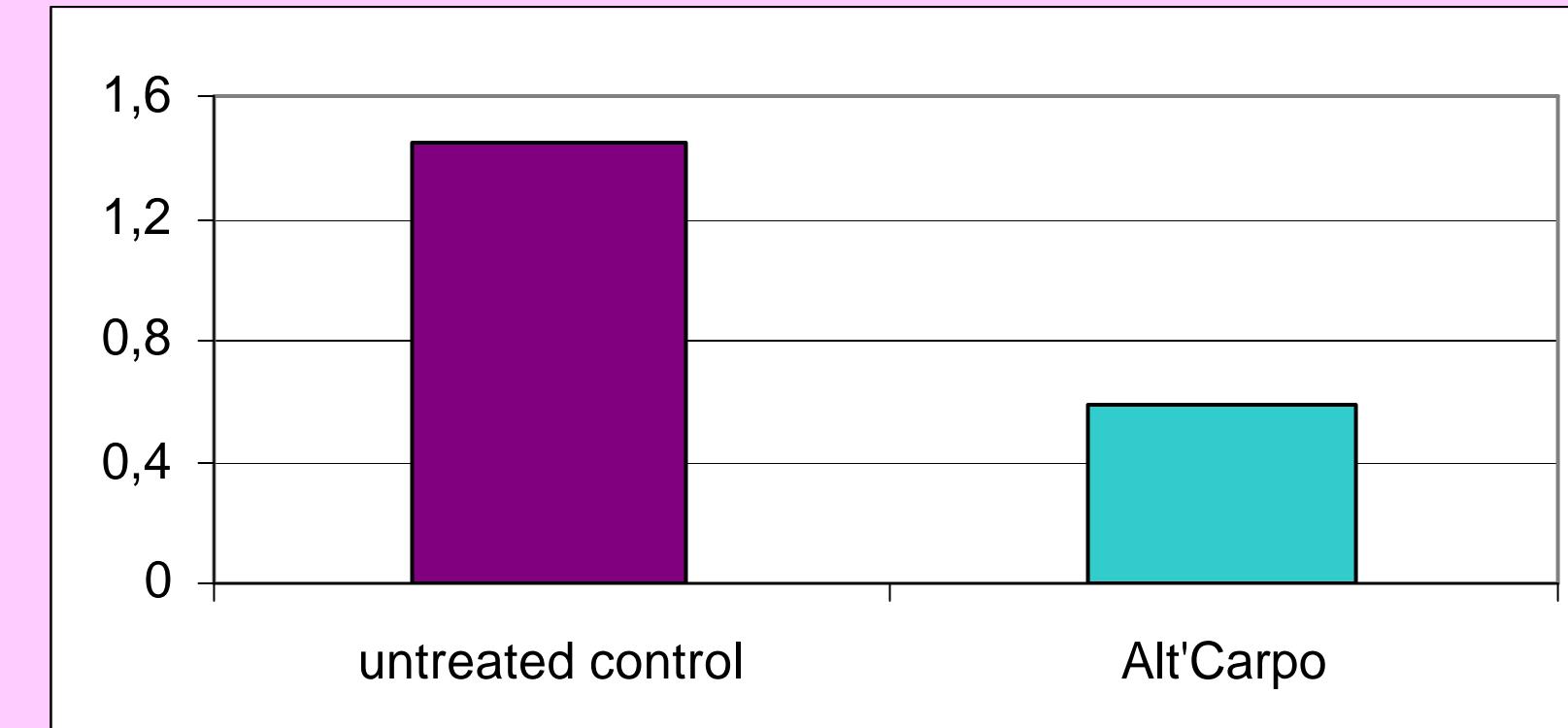
- Comparison : - net (3 sizes)  
- untreated  
- mating disruption  
- mating disruption + CpGV
- 10 repetitions
- Damage rate at harvest = 5/10.000 fruits
- Results under nets :



### Limiting pollination :

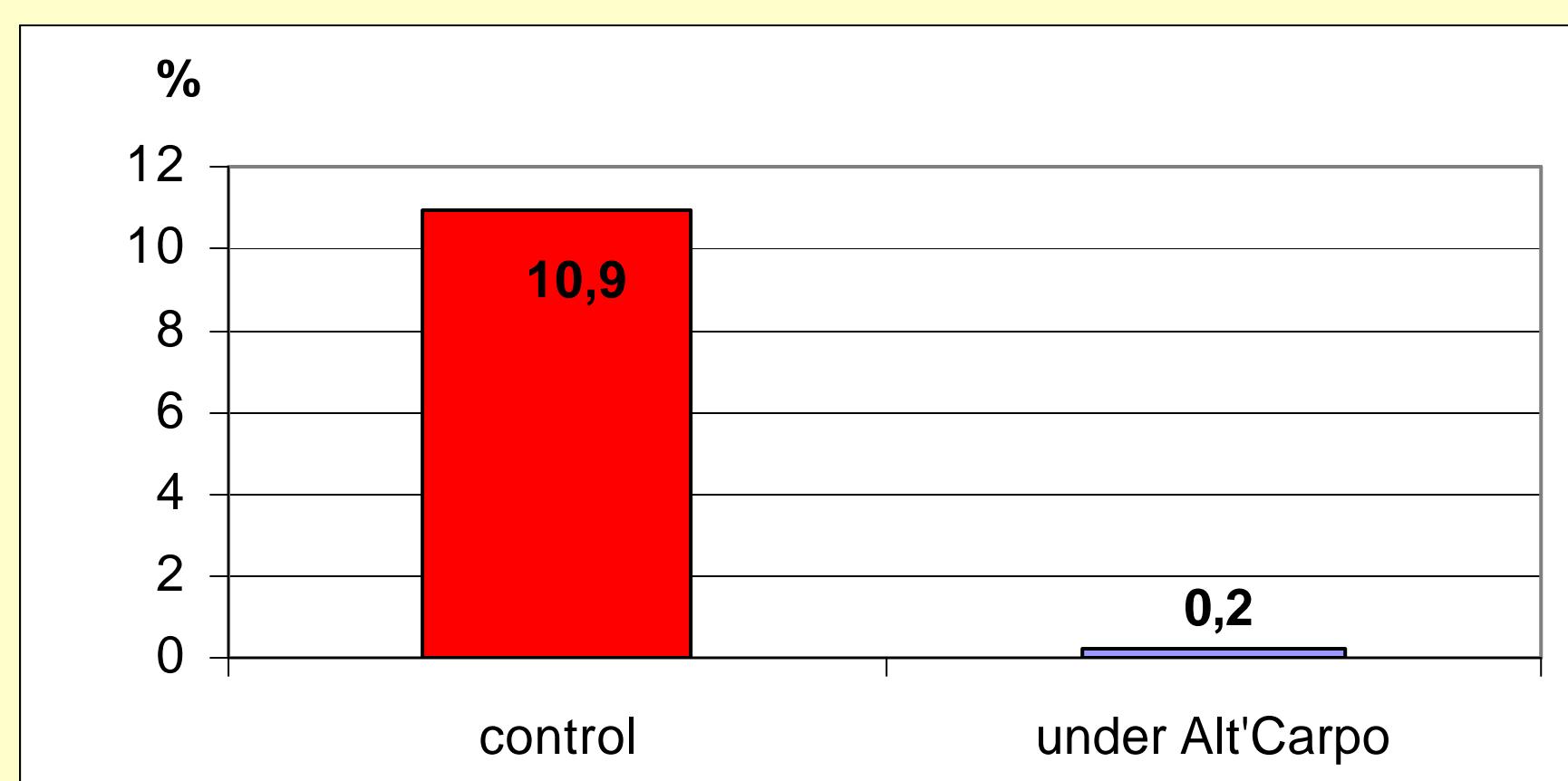
- 2 treatments :
  - net after BBCH 61-62, set up at sundown
  - control with no chemical thinning

### Nb of fruits per cluster :



### Alt'Carpo : efficacy on birds attacks :

Results : damaged by birds fruits rate at harvest :



### Influence of net set up on CM damages

