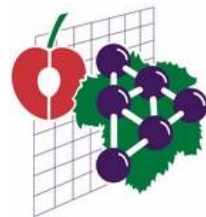


Crop load management

Sara Pinczon du Sel, La Tapy
Jean-Philippe Rouvier, GRCETA de Basse-Durance



LA TAPY



Crop Load Management

- **Blossom and fruit thinning**

Sara Pinczon du Sel

Research center La Tapy

- **Spur thinning**

Jean-Philippe Rouvier

GRCETA de Basse-Durance

Blossom and fruit thinning



Trials have been made by a working group composed on several research stations in France (2006-2011)



Chemical thinning

Ethephon

Oil + Sulfur

ATS

Ethephon

- Rate : 3 liter per hectare
- Different times of application have been tested :

Before blossom

Stage C-D-E

During blossom

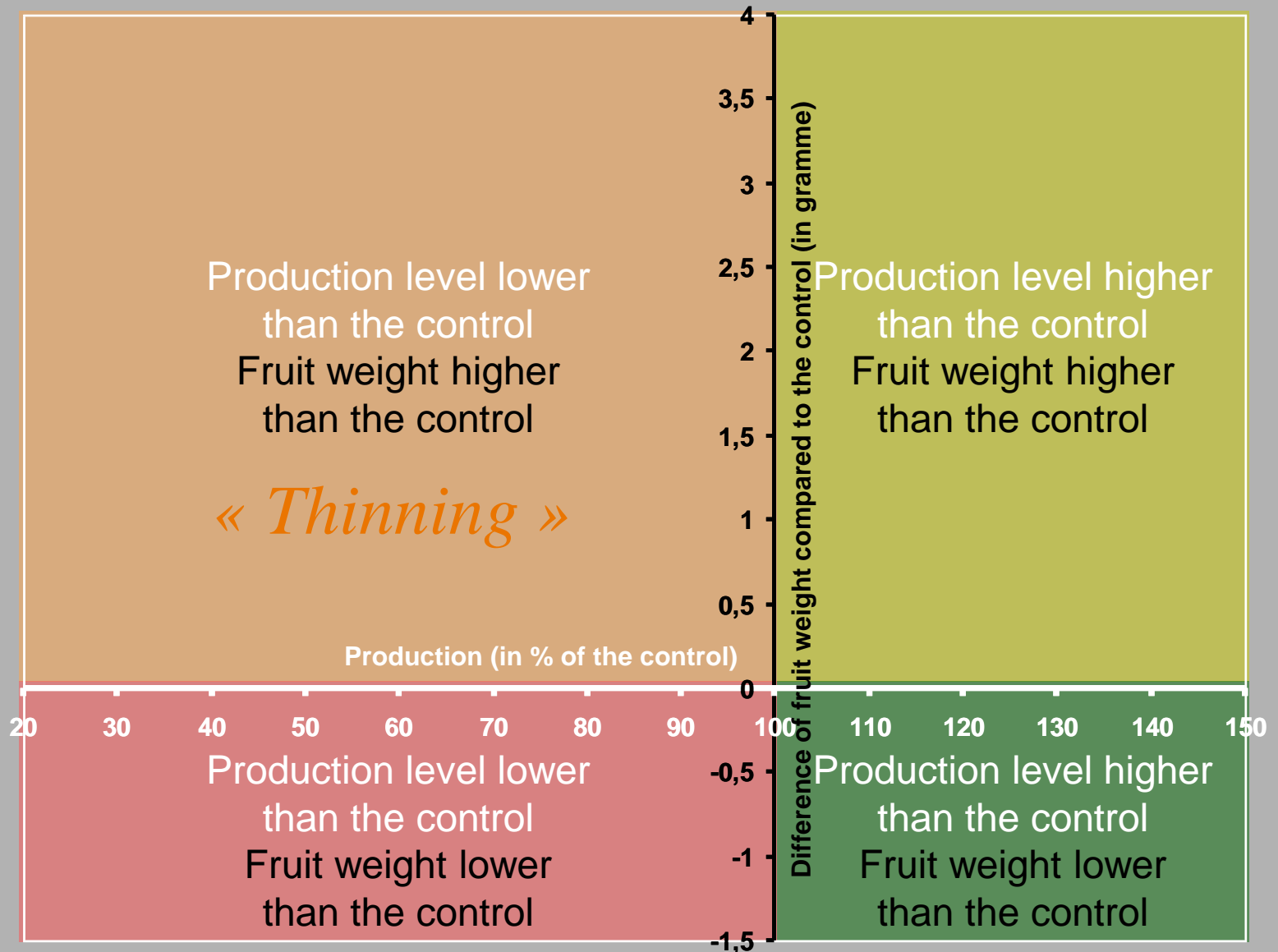
Stage F2 : 50% of floral
bud are in stage F

After blossom

Stage F2 + 15 to 20 days



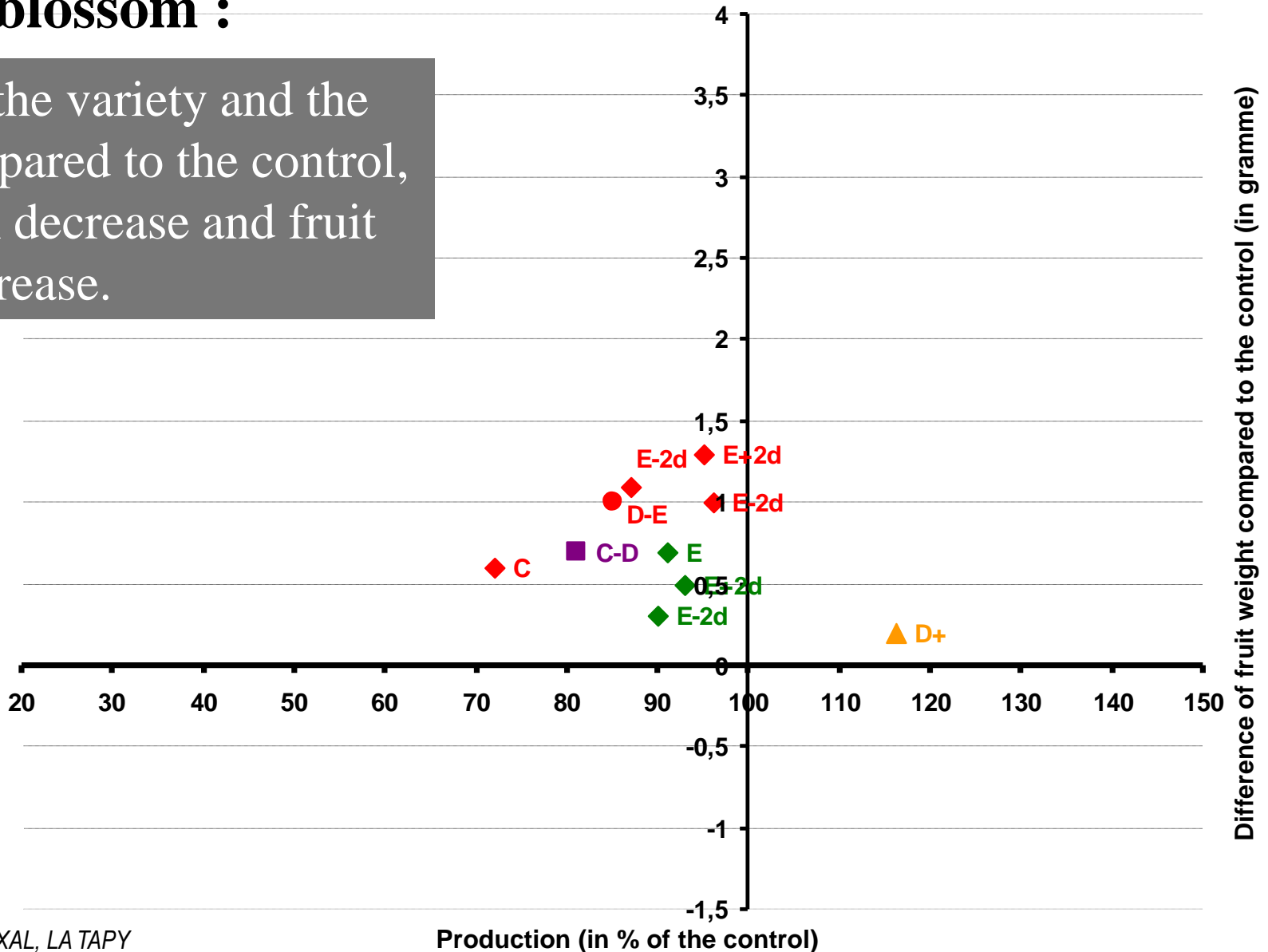
Chart used to present the result



Ethephon

Before blossom :

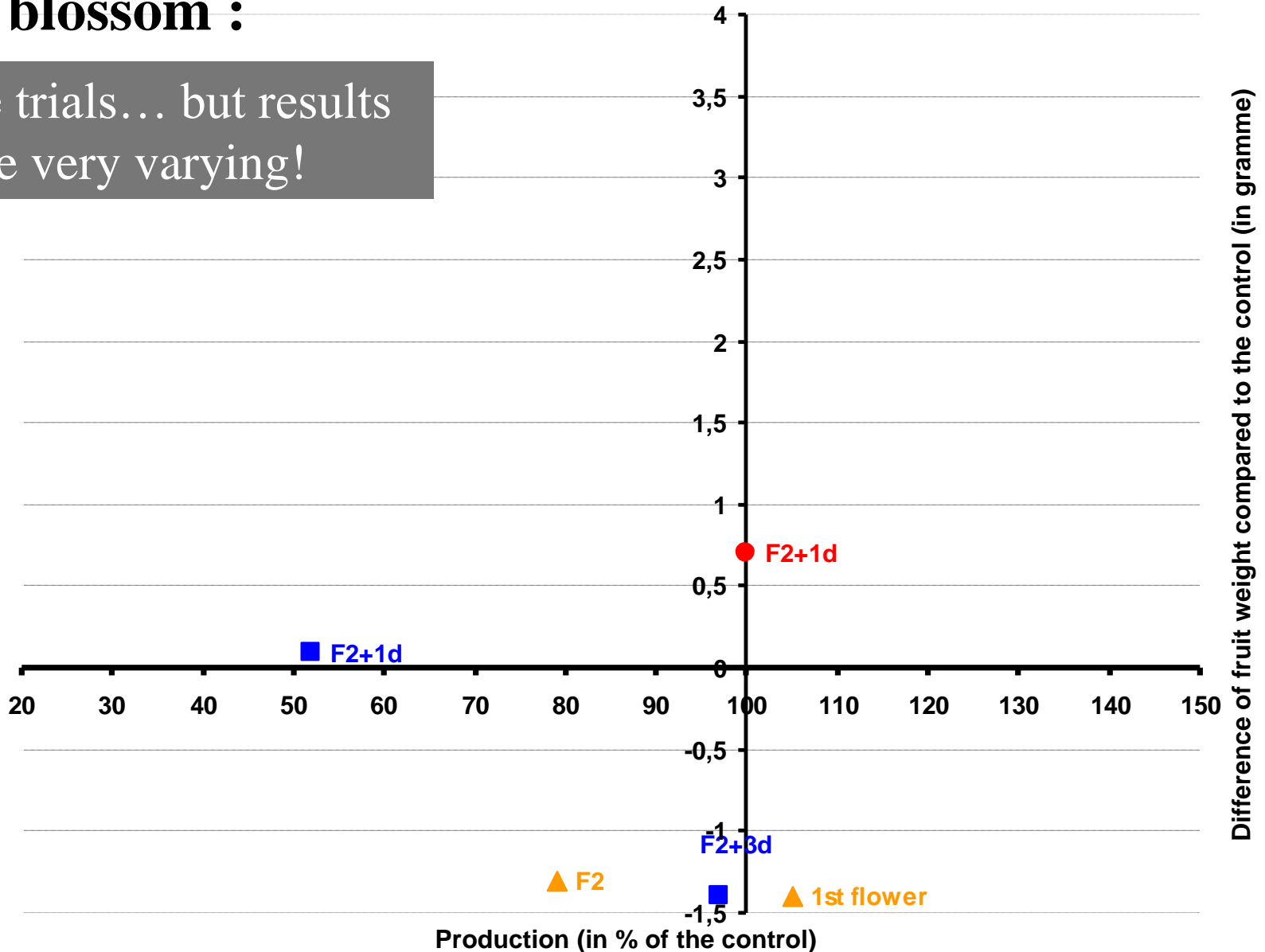
Whatever the variety and the stage, compared to the control, production decrease and fruit weight increase.



Ethephon

During blossom :

Only some trials... but results seems to be very varying!



Varieties :

Noire de Méched

Summit

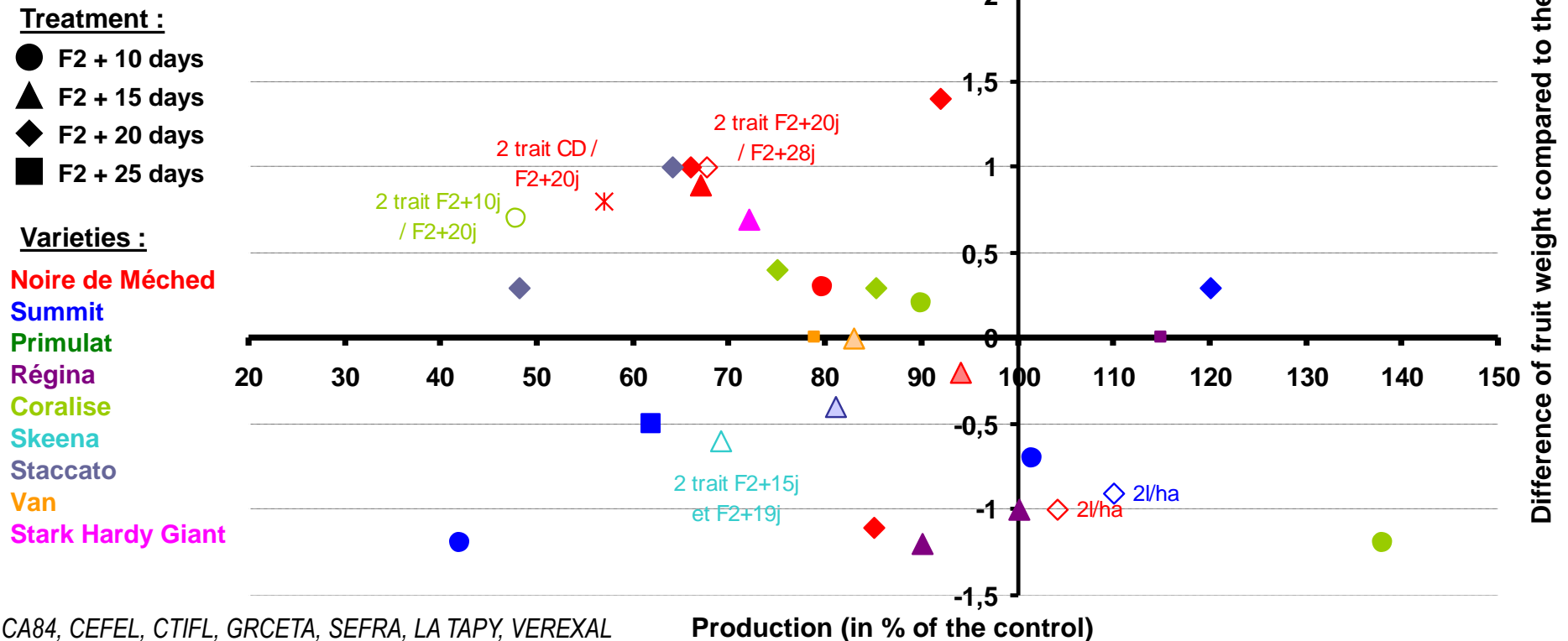
Coralise

Ethephon

After blossom :

Varying results, and risk to decrease the fruit weight : it seems to be dangerous!

Varying results, and risk to decrease the fruit weight : it seems to be dangerous!



Ethephon

- **Before blossom**, most of the time, Ethephon allows to decrease the production and increase fruit weight. Homologation is in progress in France for this time of application.
- **During and after blossom**, results are varying : it's seems to be too dangerous to use Ethephon in this time of application.

Oil + Sulfur

Ovipron (25l/ha) / Microthiol (10kg/ha)

Time of application : blossom time

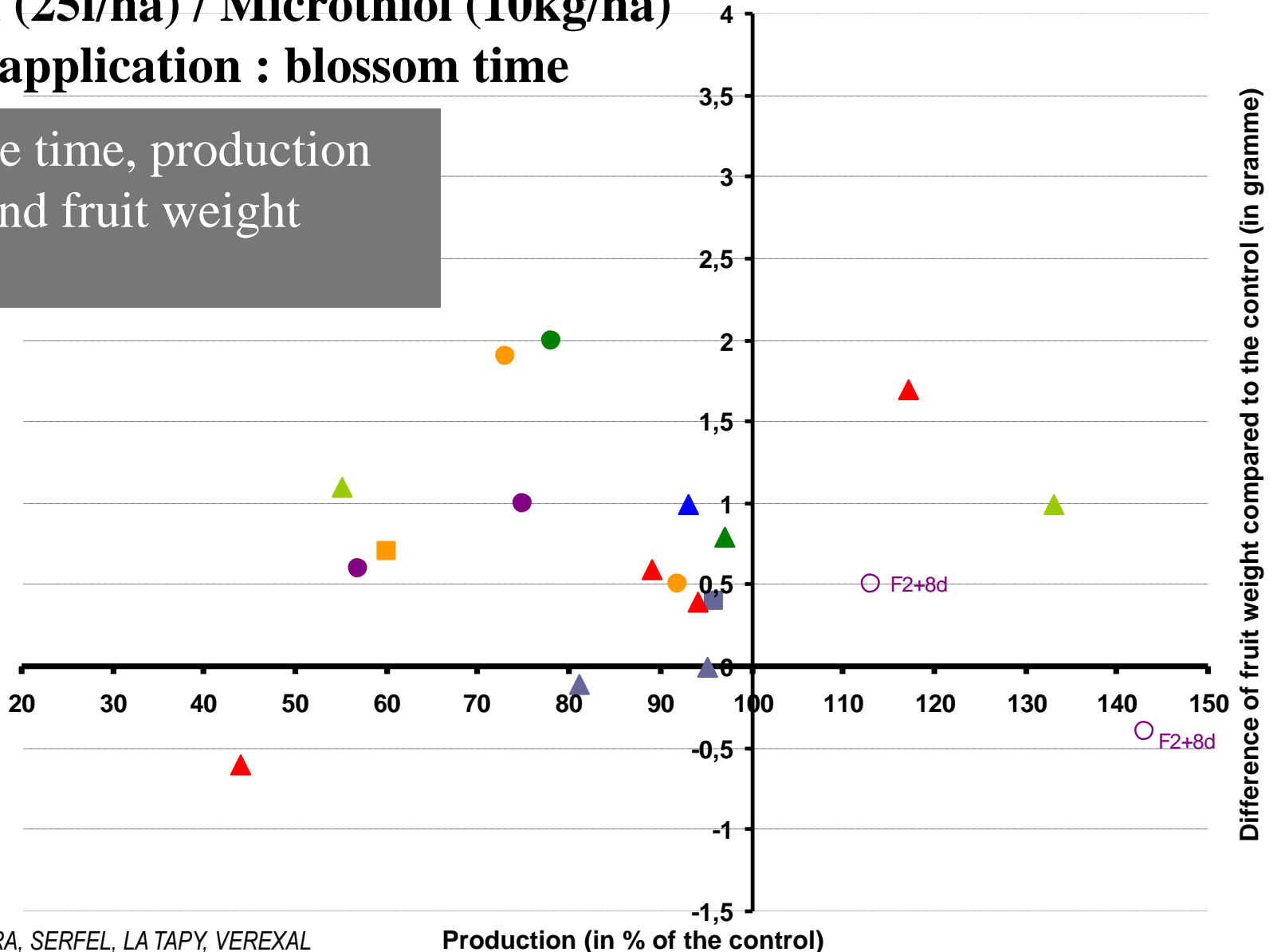
Most of the time, production decrease and fruit weight increase.

Treatment :

- 1 application
- ▲ 2 applications
- 3 applications

Varieties :

- Staccato
- Régina
- Noire de Méched
- Van
- Summit
- Burlat
- Fertille



ATS

Rate : 3%

Time of application : blossom time

Most of the time, production decrease and fruit weight increase, but ATS is not as good as “oil + sulfur”.

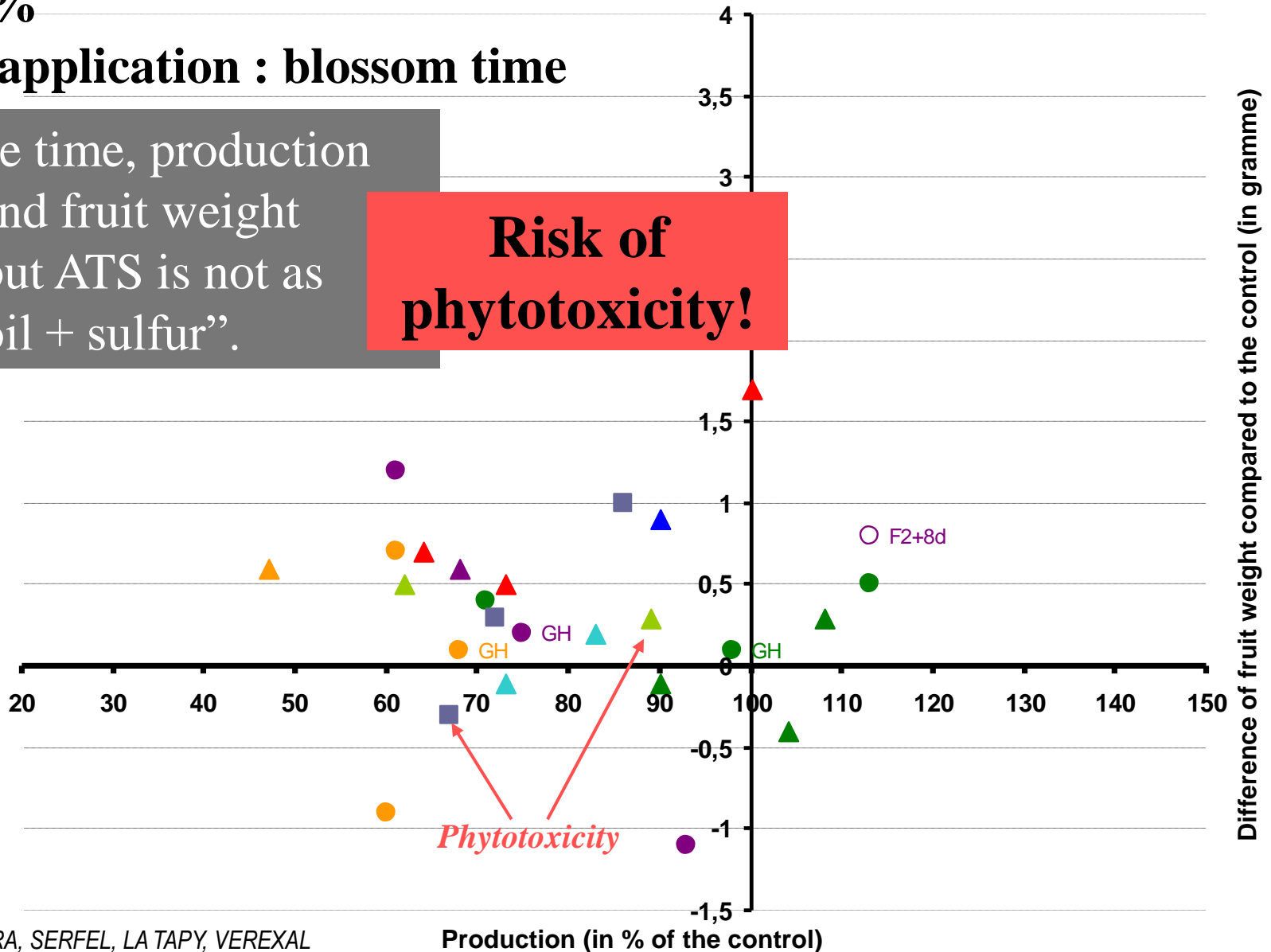
**Risk of
phytotoxicity!**

Treatment :

- 1 application
- ▲ 2 applications
- 3 applications

Varieties :

Staccato
Régina
Noire de Méched
Van
Summit
Burlat
Fertile
Skeena



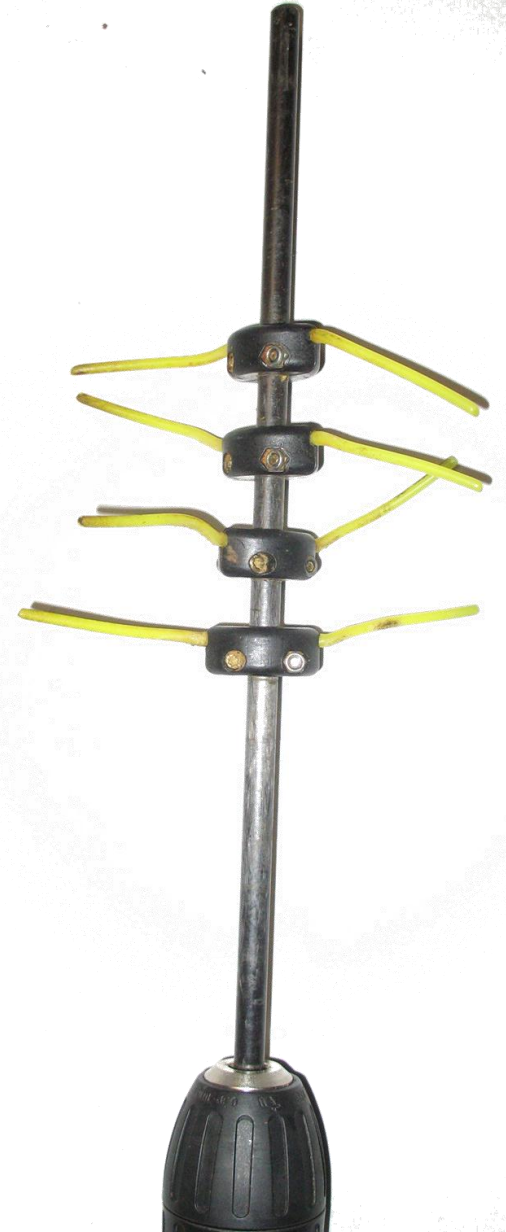
**Mechanical
thinning**

Electro'flor

**Bud hand thinning
in stage B**

Electro'flor

- Tool created by the Ctifl
 - Aim : to thin mechanically the trees
 - Principle : lines are turning in order to cut stem of flowers
- Times of application : blossom time (stage D-E to end of blossom)



Electro'flor



Electro'flor

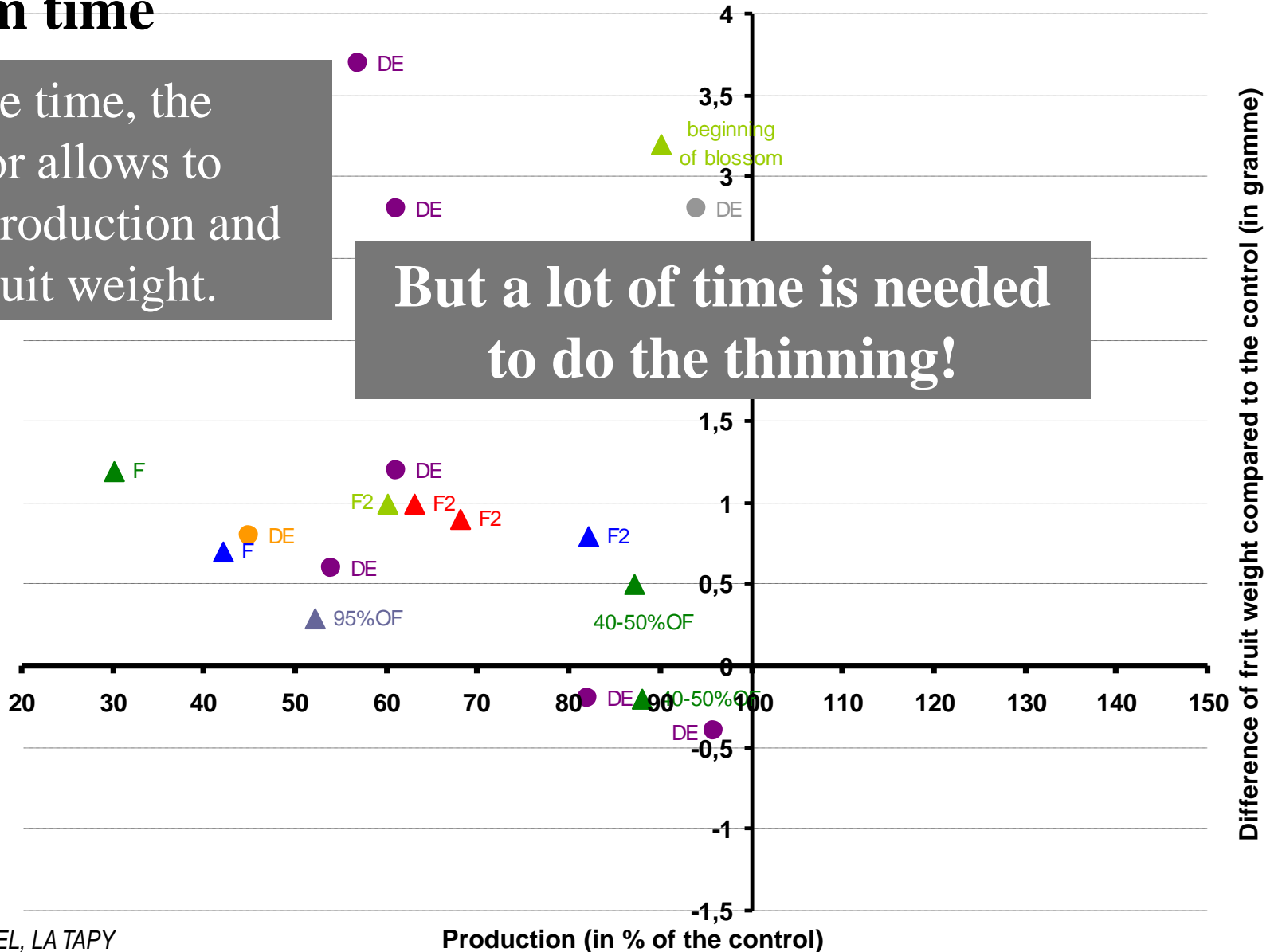


Electro'flor

Blossom time

Most of the time, the Electro'flor allows to decrease production and increase fruit weight.

But a lot of time is needed to do the thinning!

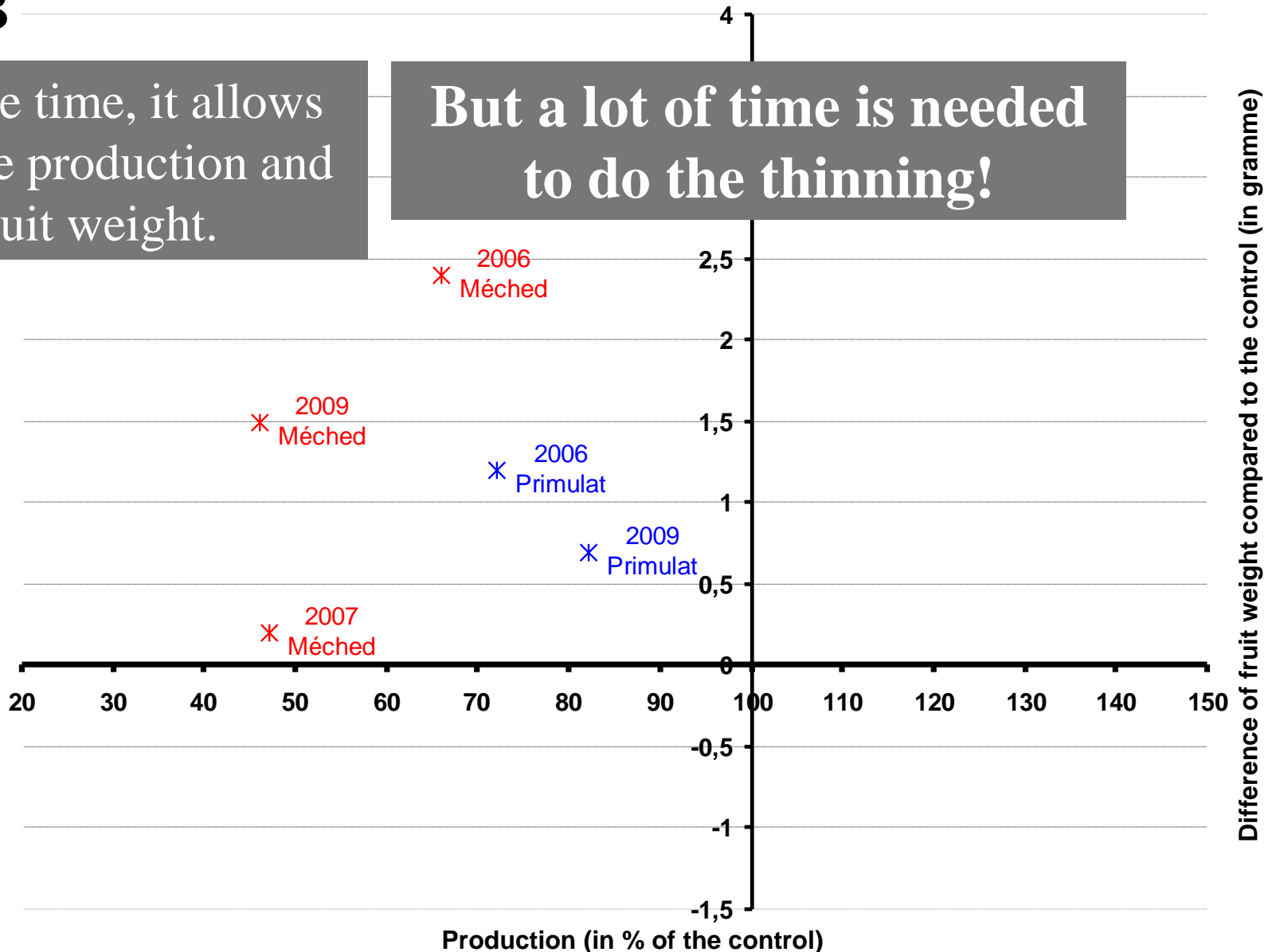


Bud hand thinning

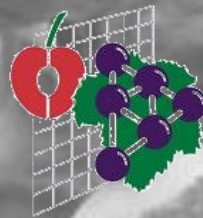
Stage B

Most of the time, it allows to decrease production and increase fruit weight.

But a lot of time is needed to do the thinning!



Thanks for your attention



LA TAPY

