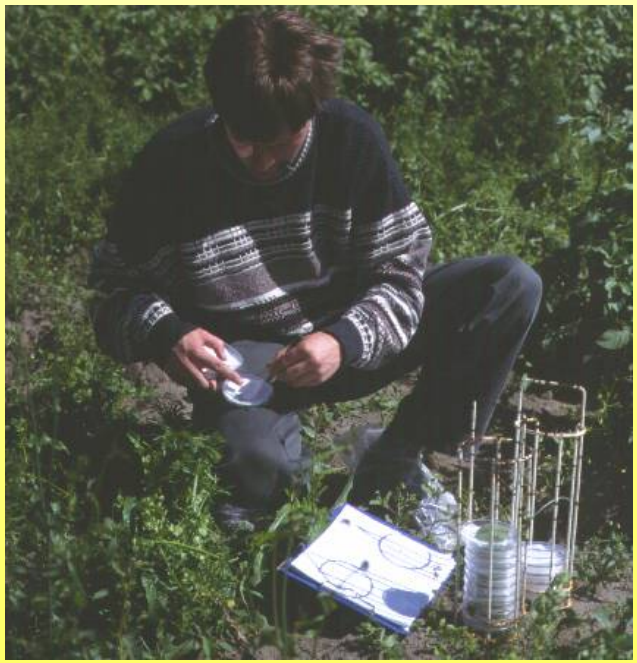
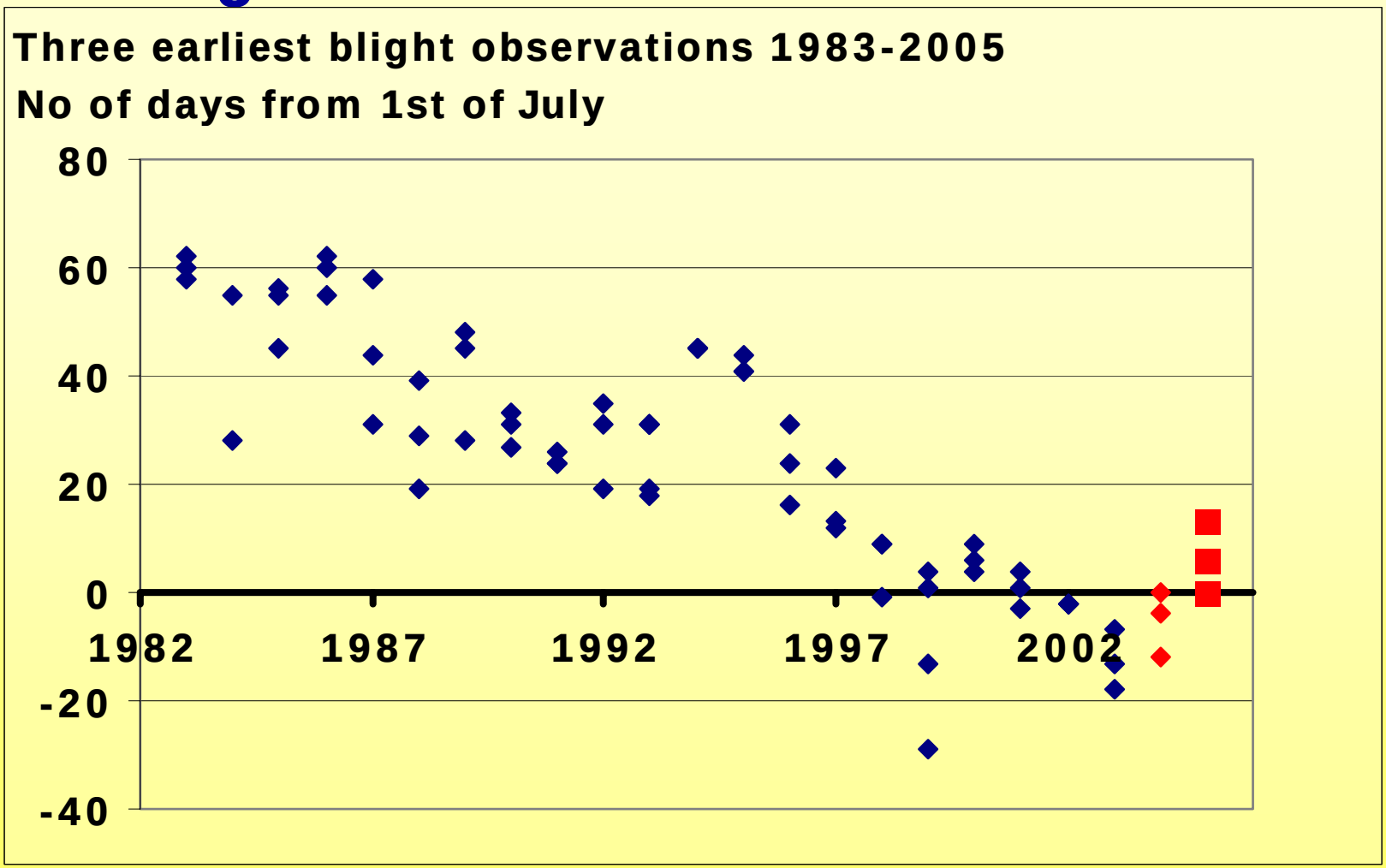
Estimated yield losses caused by potato late blight in Finnish fungicide trials in 1992-2006

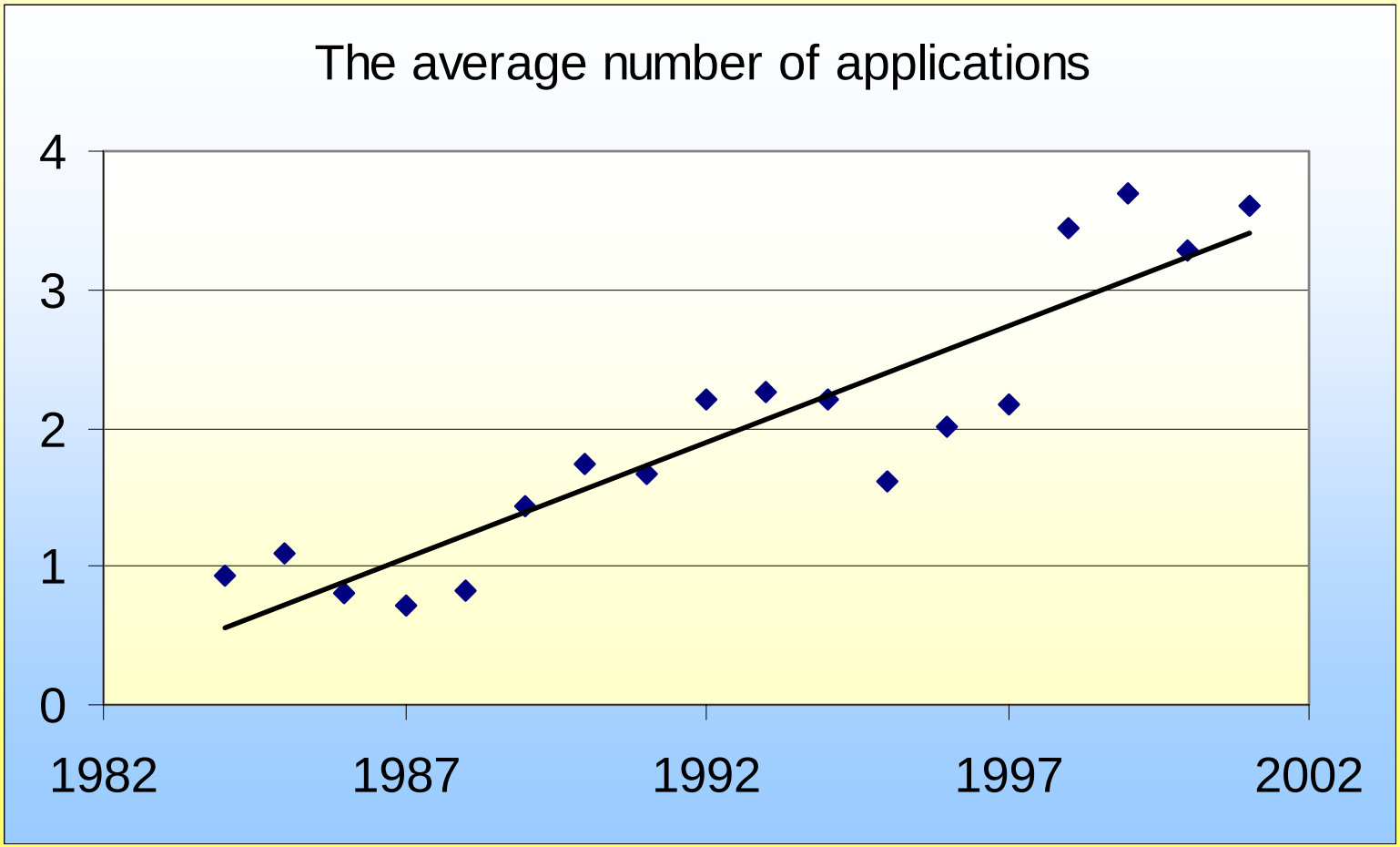
Asko Hannukkala and Ari Lehtinen
MTT – Agrifood Research Finland
Anne Rahkonen, Potato Research Institute



Background



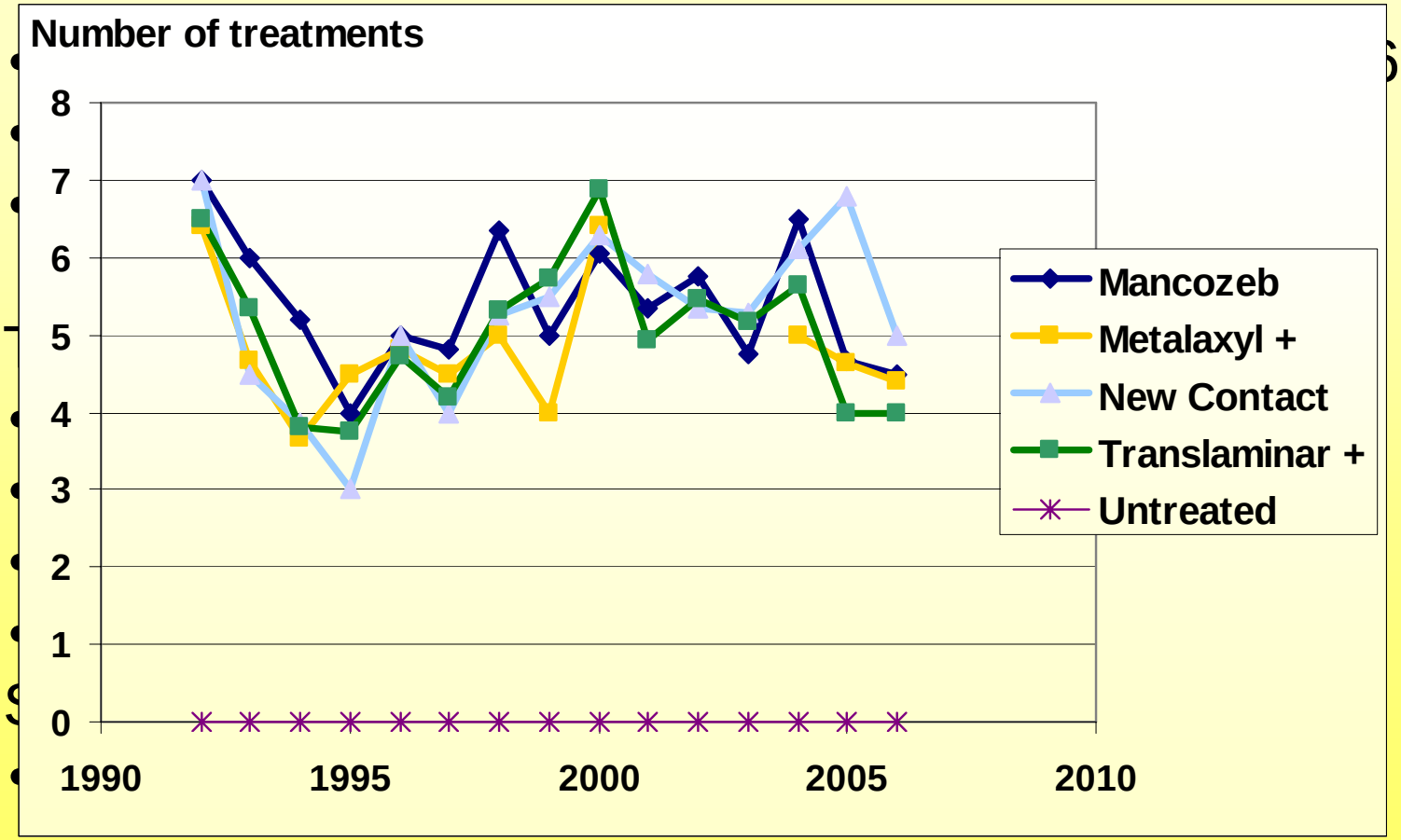
Background



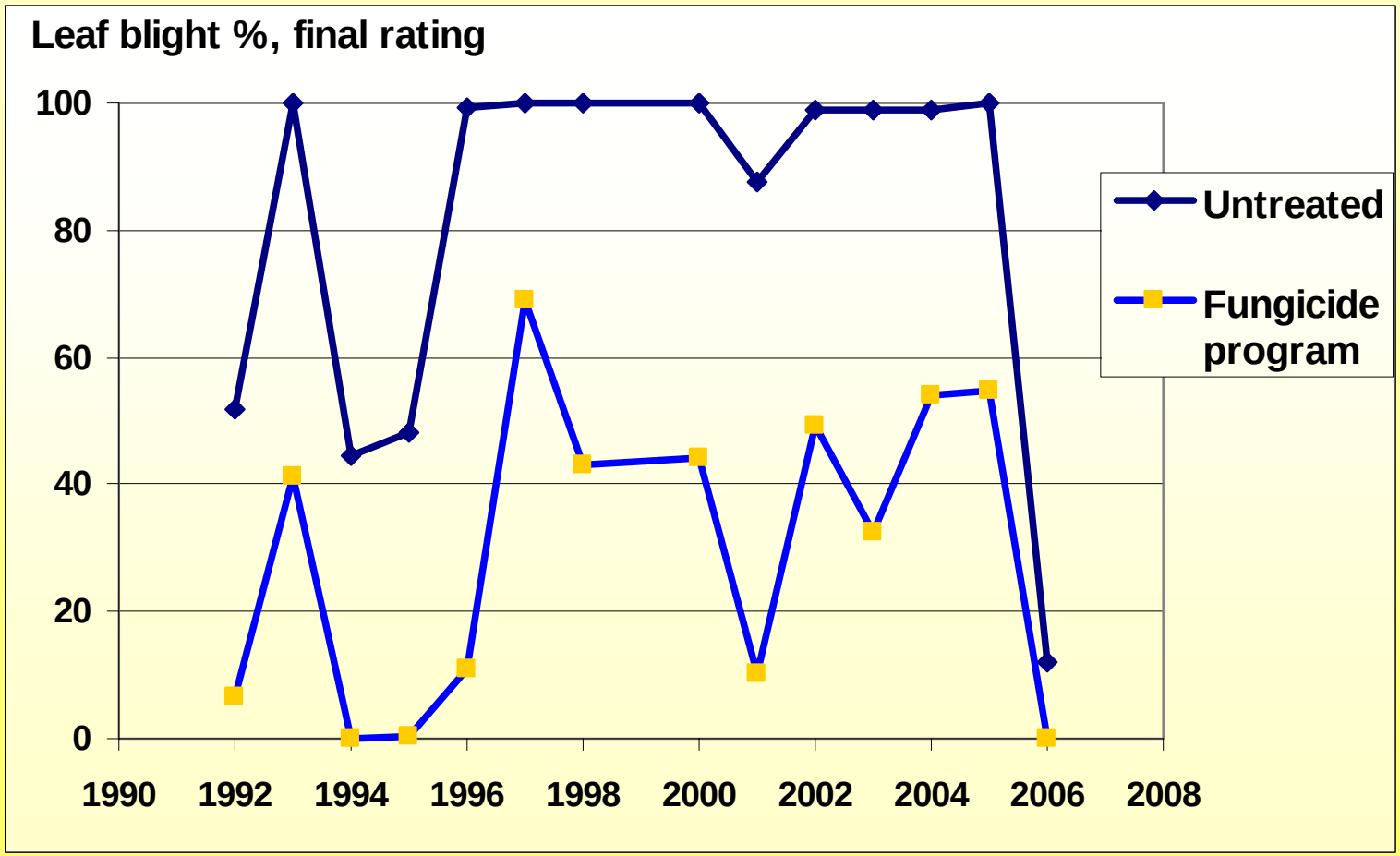
Objective

- Early epidemics – more severe yield losses?
- Tuber blight?
- Do fungicide programs give more benefit?
- Efficacy of mancozeb in comparison to new contact, translaminar and metalaxyl programs

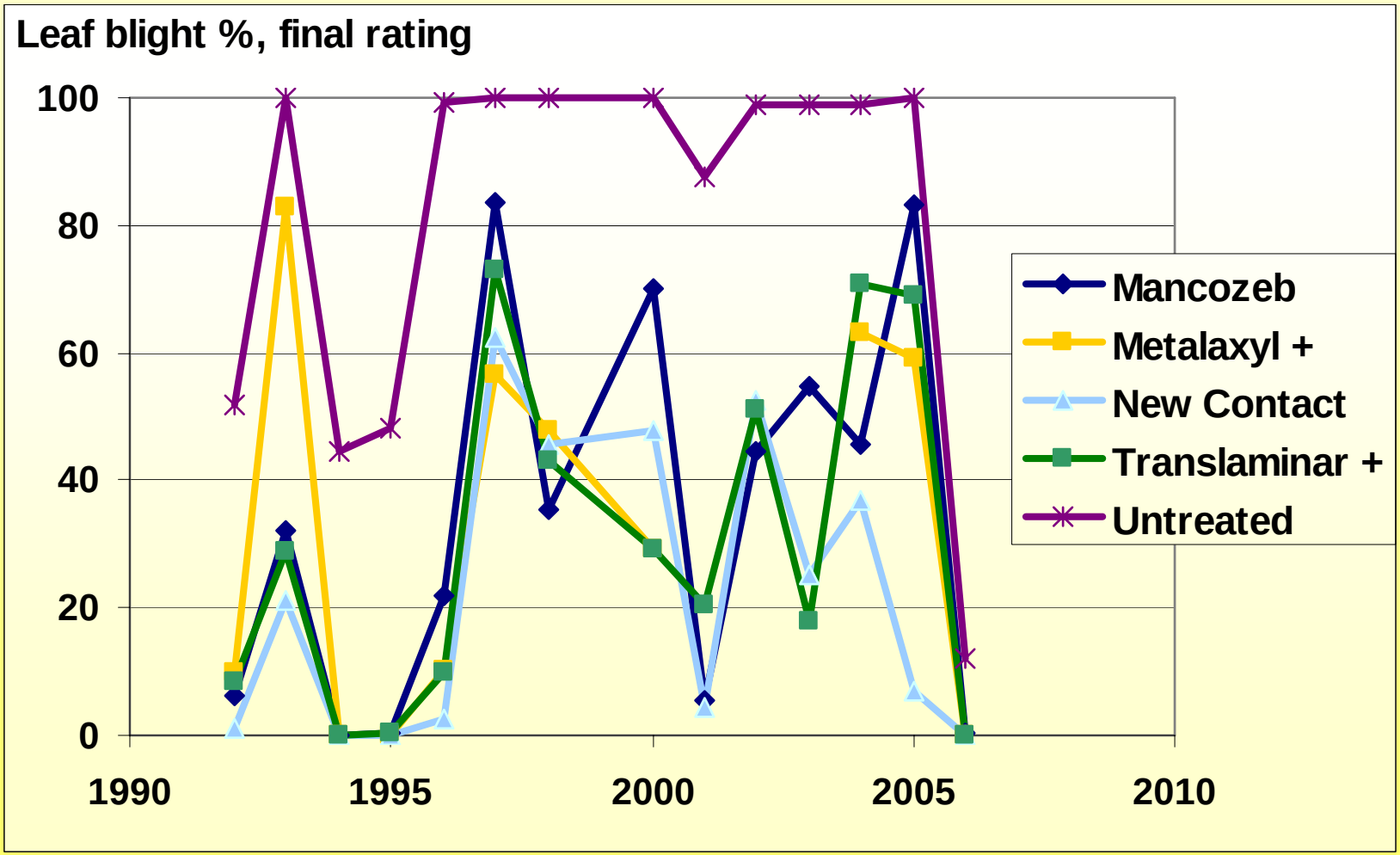
Materials



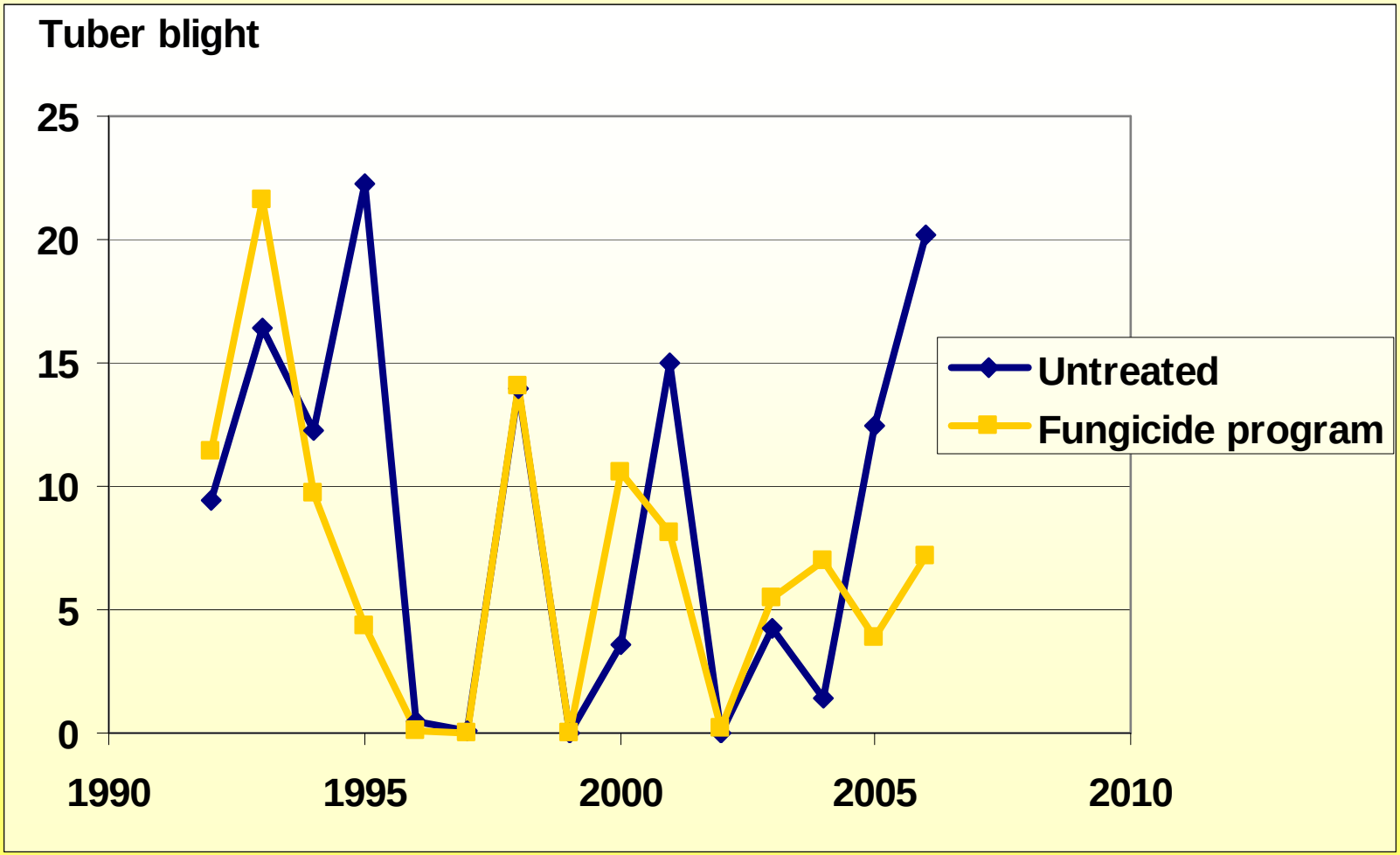
Results: Leaf blight



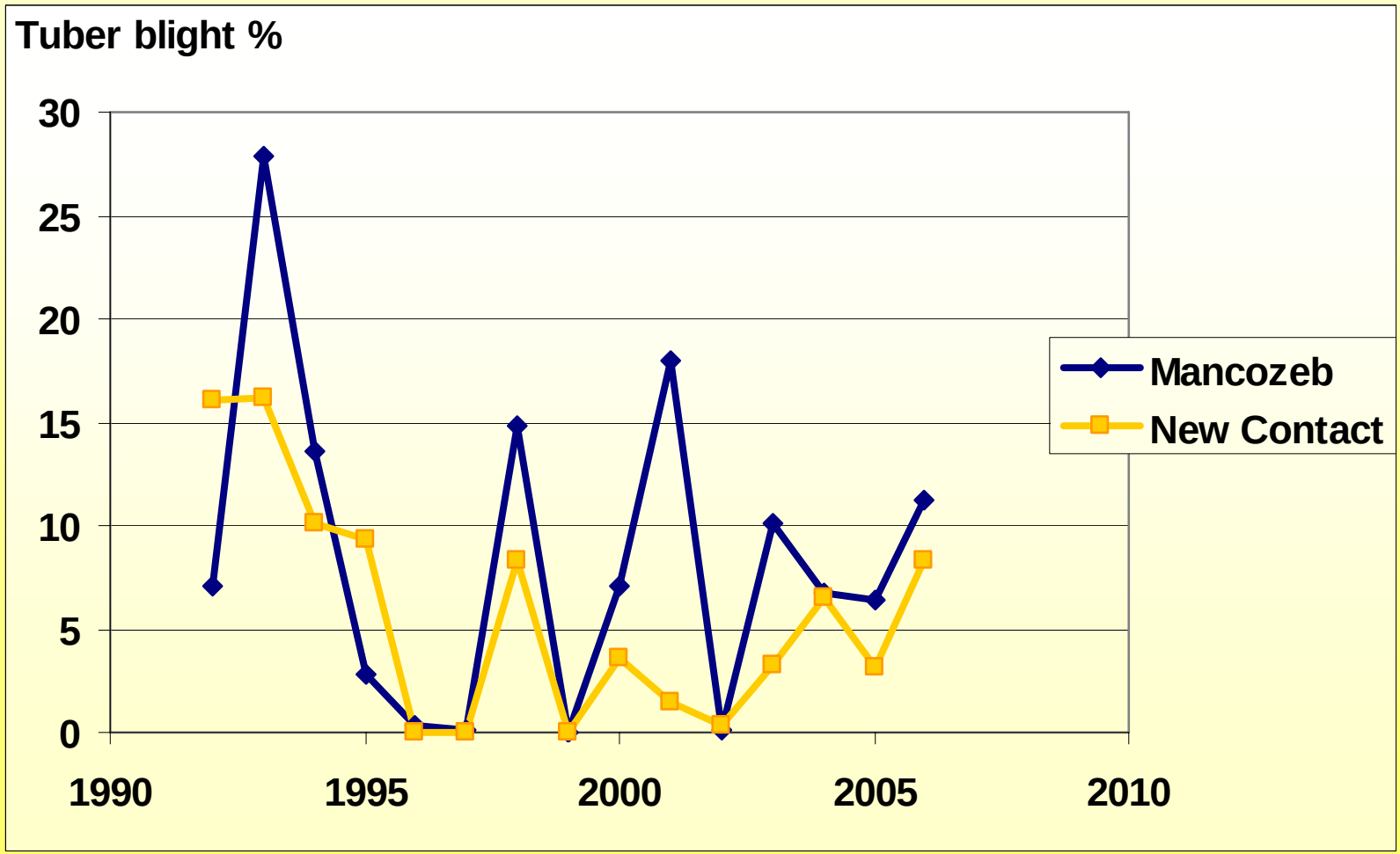
Results: Leaf blight



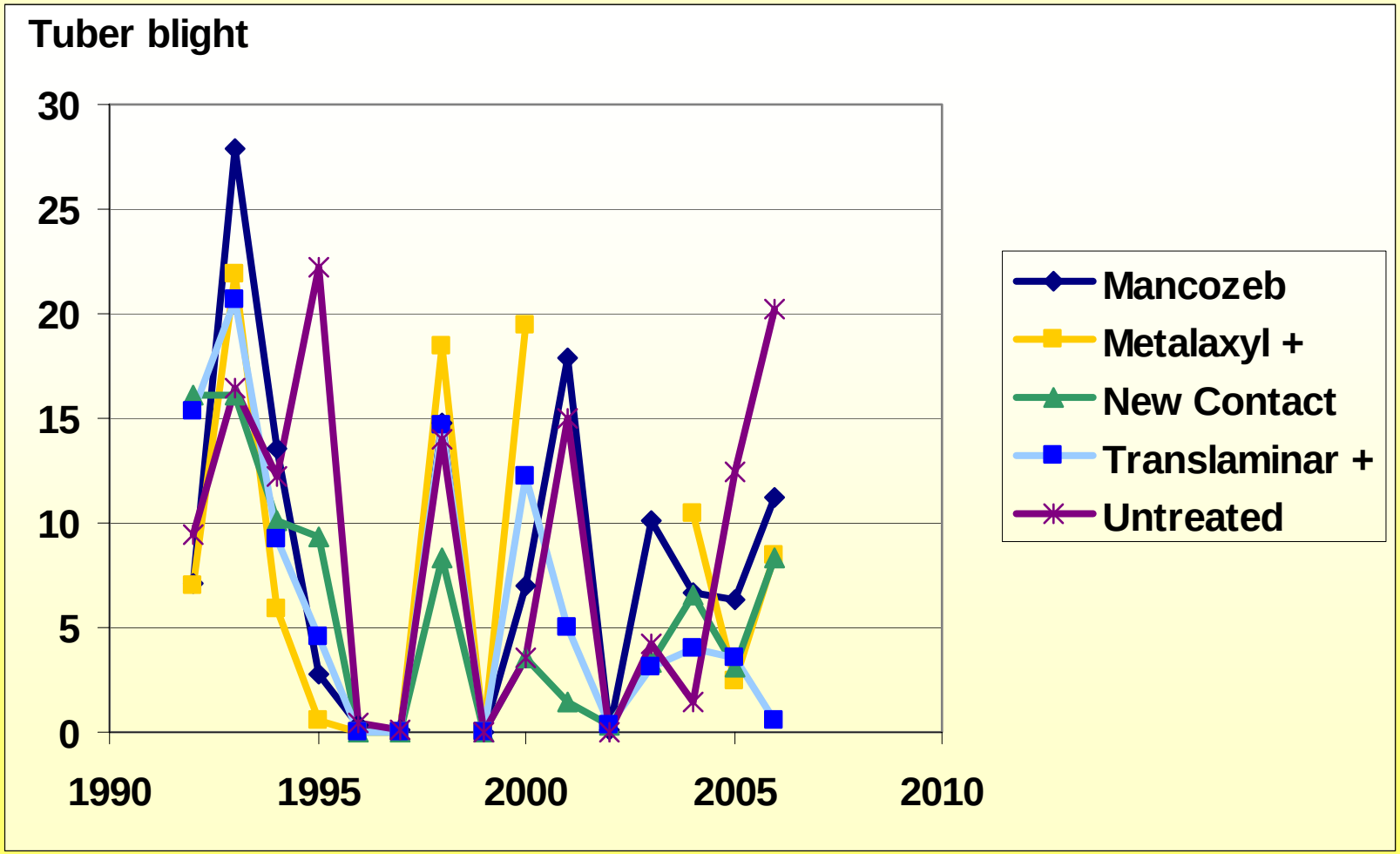
Results: Tuber blight



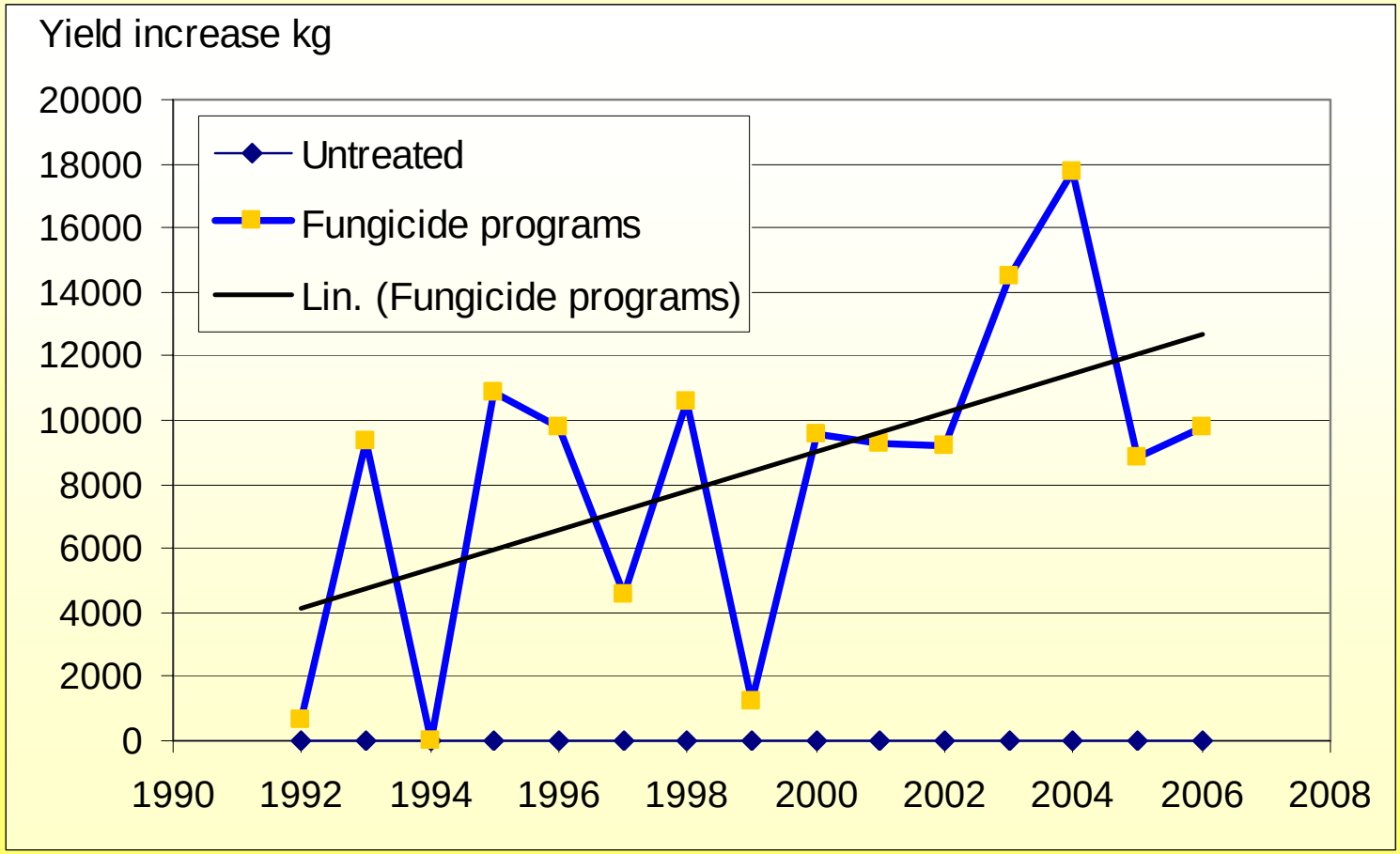
Results: Tuber blight



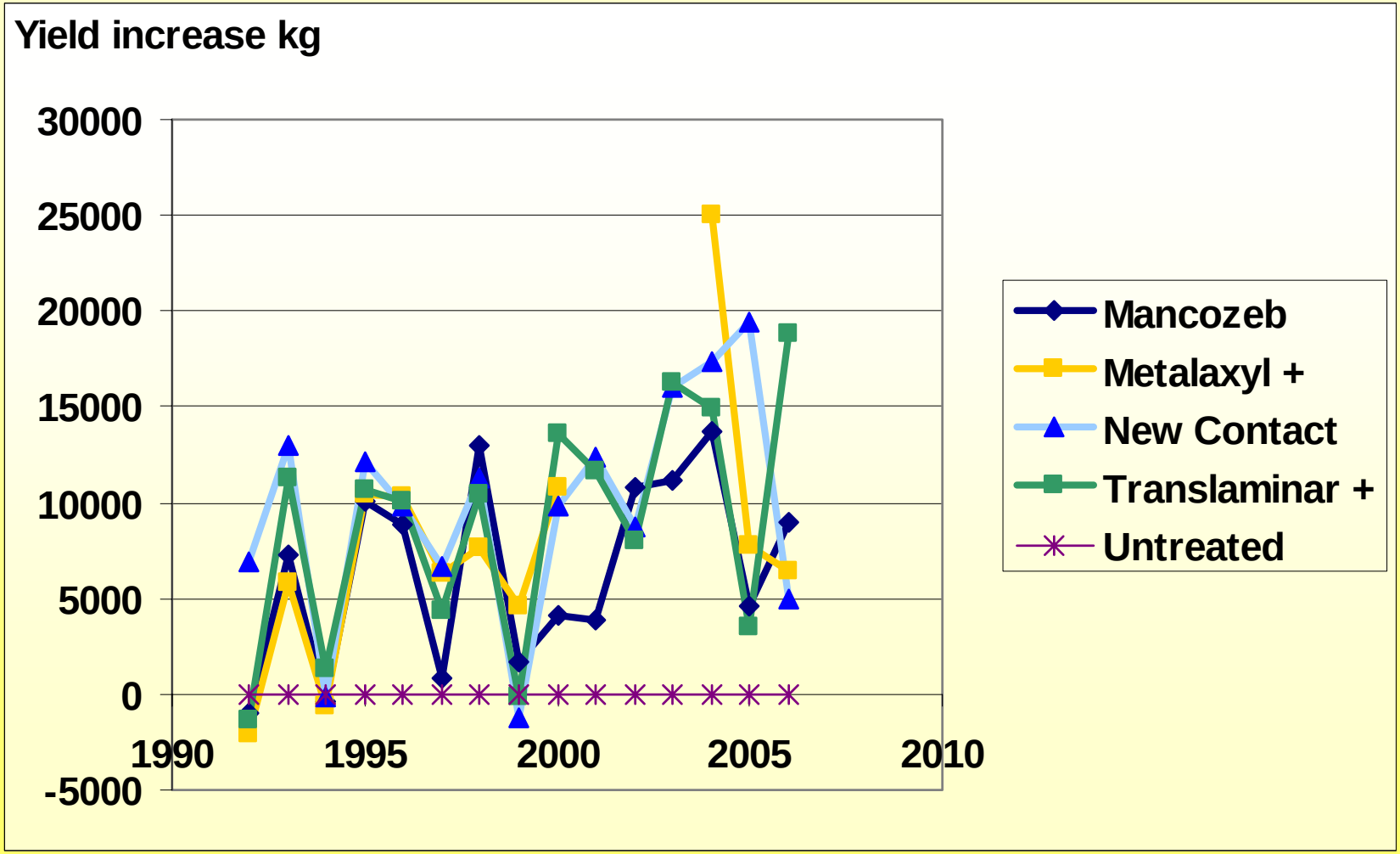
Results: Tuber blight



Results: healthy marketable yield



Results: healthy marketable yield



Conclusions

- Risk of yield losses has increased due to earlier epidemics
- Fungicide programs give relative good protection
- More sprays => higher yield increases
- Fungicide programs do not always protect from tuber blight
- Untreated plots are sometimes destroyed by leaf blight within few days => less tuber blight than in treated