

# Sustainable Double Cropping Cultivation with Fresh Everbearers

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*Fieldday 2025*



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# Current situation

- ✦ Growing hectares of strawberry cultivation (500 ha in the Netherlands)
- ✦ Lots of Junebearers however everbearers are gaining popularity
- ✦ Most common cultivation was the double cropping with a Junebearer like Elsanta
- ✦ Yield has been decreasing over the years
- ✦ Why?
  - Pest and disease control
  - Climate
  - Labour
  - Energy/gas prices
  - Etc..
- new cultivation concepts are needed!
- A 'balanced' cultivation with everbearers offers perspective!



# Partners

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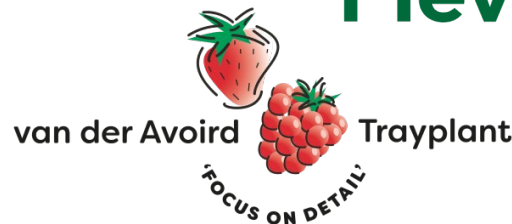
*Daar plukt u  
de vruchten van!*



  
**Interpolis.**  
Glashelder



  
**De Ruiter**



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collaboration as a driving force for soft fruit innovation

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# The concept: Double cropping with everbearers

- ✦ Better distribution of production and labour compared to double cropping with a junebearer
- ✦ Two production periods with a controlled plantload
  - 1st: End of August till beginning of December
  - 2nd: End of March till half July
- ✦ A Maximum of  $7,5 \text{ m}^3/\text{m}^2$  gas for heating
- ✦ Planting in the greenhouse the second half of July
- ✦ Several different RTR-strategy's depending on crop stage
- ✦ Production goal  $>12\text{-}15 \text{ kg}/\text{m}^2$
- ✦ Sustainable cultivation (les chemicals, use of beneficial insects)





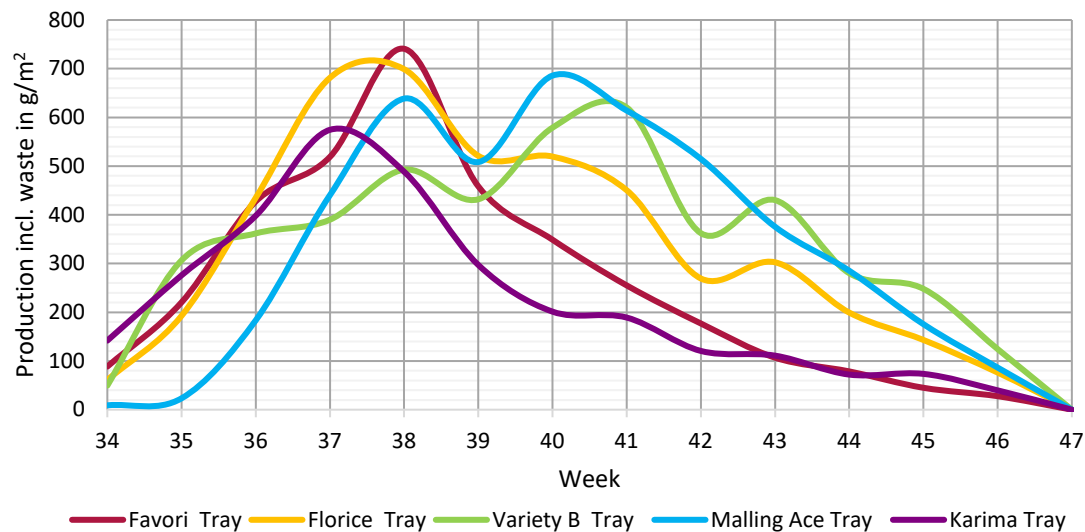
# First trial 2023

- ✧ Propagated: June 1<sup>st</sup> on trayfield
- ✧ Planting greenhouse: 21 July (23.000GDH)
- ✧ Plant density:
  - 8 pl./m<sup>1</sup> – 7,02 pl./m<sup>2</sup>
- ✧ Plant types:
  - Fresh plants → continuous flower induction in the autumn
  - Trays and mini-trays
- ✧ Varieties:
  - Arabella, Karima, Favori, Florice, Malling Ace, Murano, and three coded selections.
- ✧ Making a plant capable of
  - Maintaining continuous flower initiation in autumn
  - Generating a controlled production peak in the spring
- ✧ Importance of propagation
  - decreasing light levels after planting



## Results autumn 2023

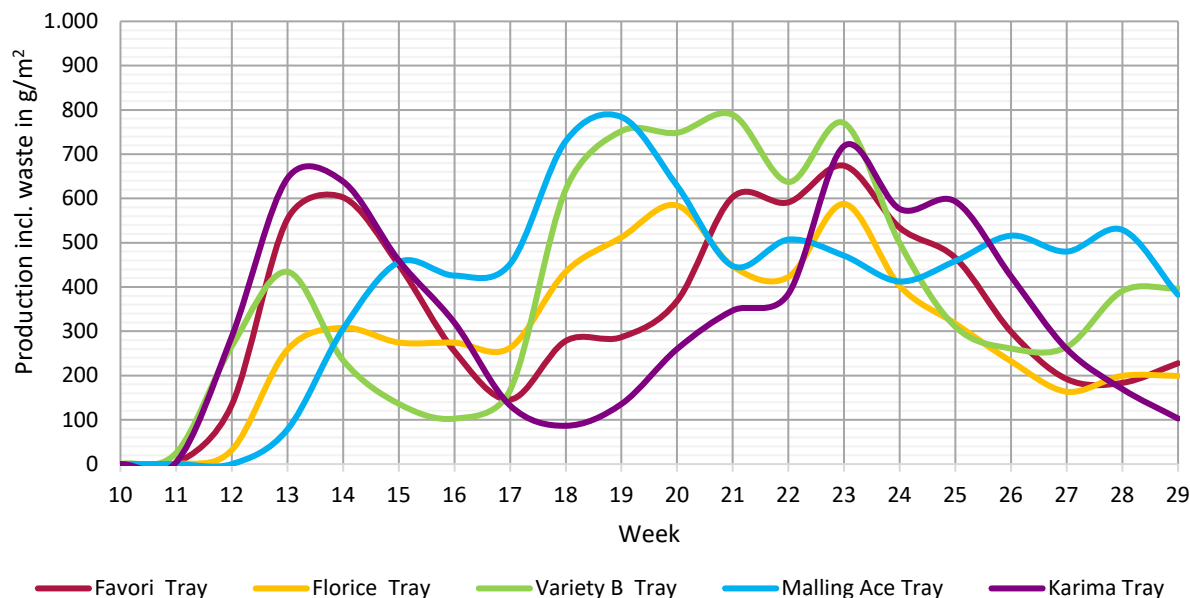
- ✦ Best varieties  $\pm 4,5 \text{ kg/m}^2$  in autumn (week 34 t/m 47)
- ✦ Trays performed better than mini-trays
- ✦ Challenges autumn:
  - Higher outdoor temperatures (warm autumn 2023)
  - Lower light levels
- ✦ Promising compared to Junebearer crops



- ✦ Obvious 1<sup>st</sup> peak
- ✦ 2<sup>nd</sup> 'peak' some varieties

# Results spring 2023

- ✦ Start heating week 3 (due to snow/frost)
- ✦ Start production  $\pm$  week 12
- ✦ Best varieties around 8 kg/m<sup>2</sup> in spring
- ✦ Big
- ✦ Total production in best varieties 12,5 kg/m<sup>2</sup>
- ✦ Big differences per variety
  - Faster developing varieties
  - Slower developing varieties



## Second trial 2024-2025

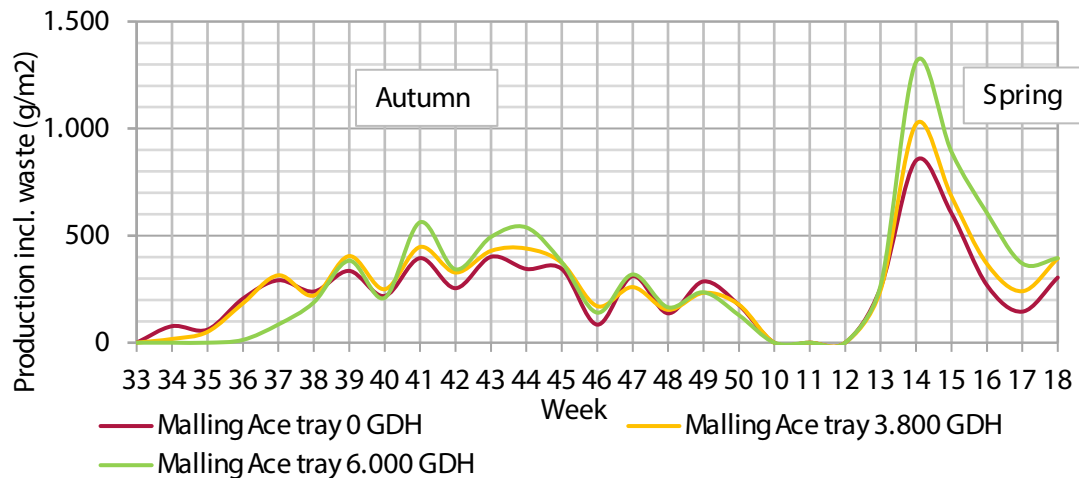
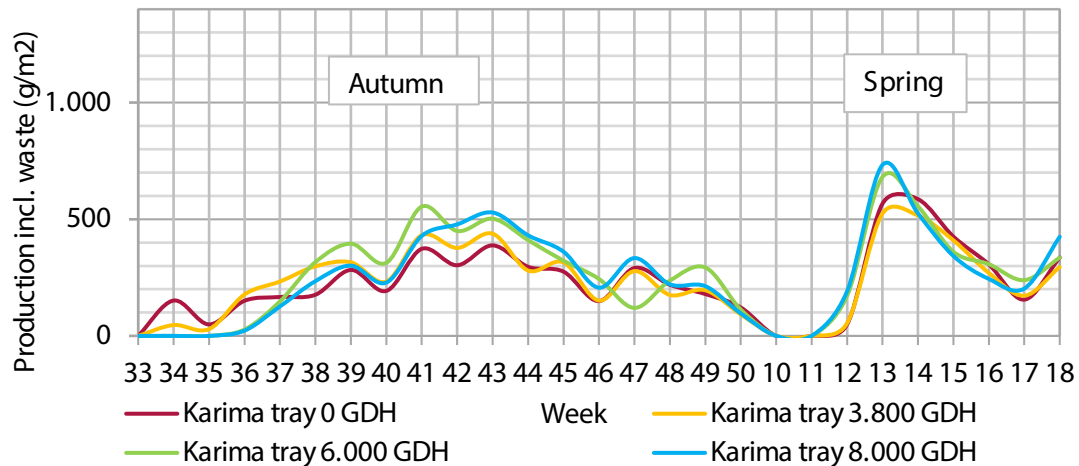
- ✦ Planting greenhouse: 29 July
- ✦ Plant density:
  - 10 pl./m<sup>2</sup>
- ✦ Plant types:
  - Fresh plants
  - Trays and mini-trays
- ✦ Varieties:
  - 9 different varieties and selections
- ✦ Truss removal trial
  - Karima and Malling Ace
  - 0 GDH - 4000 GDH - 6000 GDH - 8000 GDH after planting
- ✦ First implementation at growers





# First results 2024-2025

- ✦ Clear difference in earliness between varieties and production pattern in first trial
- ✦ Truss removal to better understand the impact on:
  - Plant load
  - Crop development



# Conclusion

- ✦ Best varieties:  $\sim 12.5 \text{ kg/m}^2$  total yield
- ✦ Overall average:  $9.8 \text{ kg/m}^2$  (target:  $15 \text{ kg/m}^2$  not yet reached)
  - Productions in Spring can be higher
- ✦ Trays had a better production compared to mini-trays
- ✦ Truss removal trials indicates:
  - Certain varieties can be steered to maximize yield while maintaining plant balance
  - Crop control also possible via variety selection
- ✦ Clear link between autumn plant load and spring performance
- ✦ Cultivation strategies must be variety-specific for best results
- ✦ **Key Challenge:** Creating a balanced plant in autumn to ensure good spring crop development.
  - Negative energy balance has an influence on plant development in spring
  - Crop to vegetative in the spring  $\rightarrow$  ideally more generative



Thank you for your attention!

Feel free to contact me for questions

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