Better fruits with seaweed?





2025 Gijsbert Hakkert Specialist plant and soil resilience

CAF

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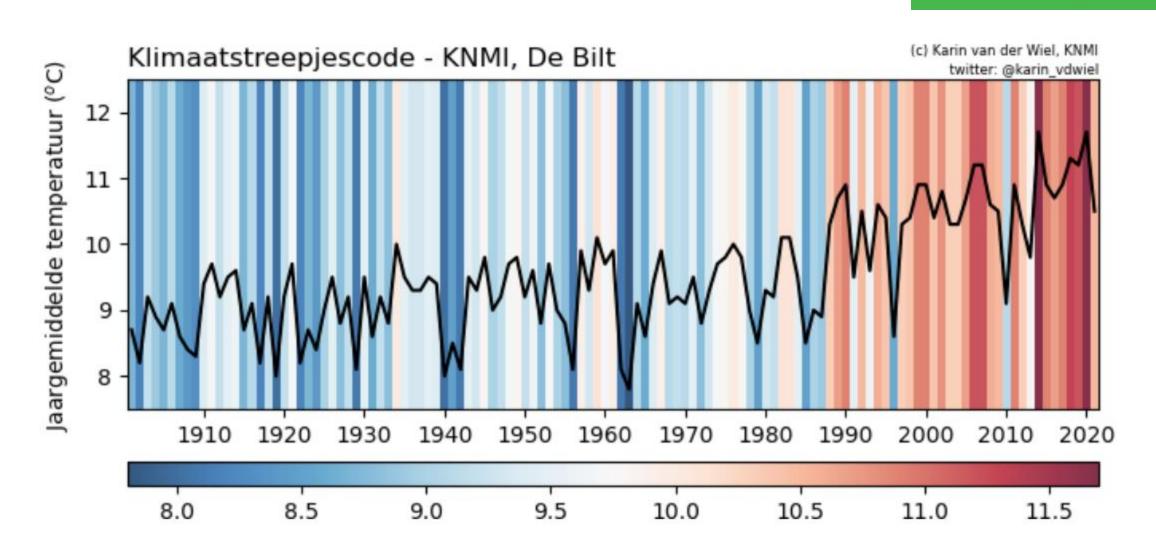
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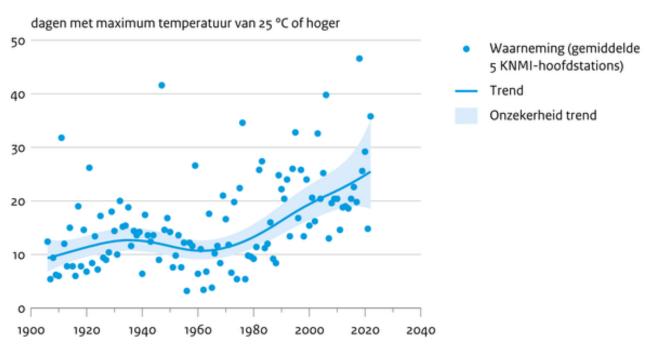


Trend: more "beach days"

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Aantal zomerse dagen

Bron: KNMI; bewerking PBL



PBL/aug23 www.clo.nl/nlo58903









The sunburn trigger







Ascophyllum nodosum

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- Triggering the plant defense response
- Improved stress recovery

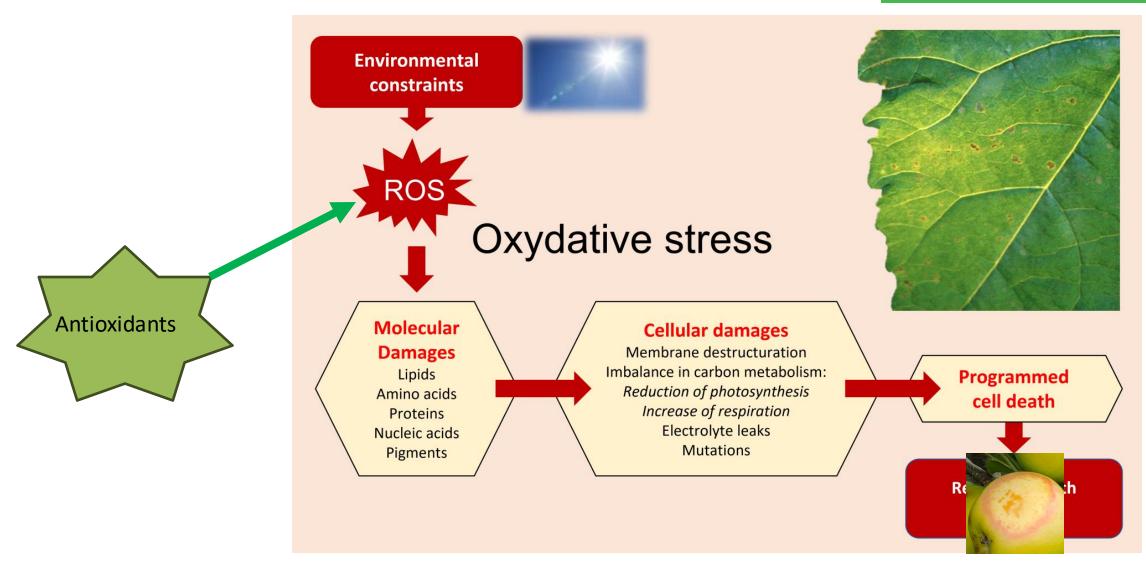
Application 2-3 days BEFORE the stress

2,5 litre/ha doserate

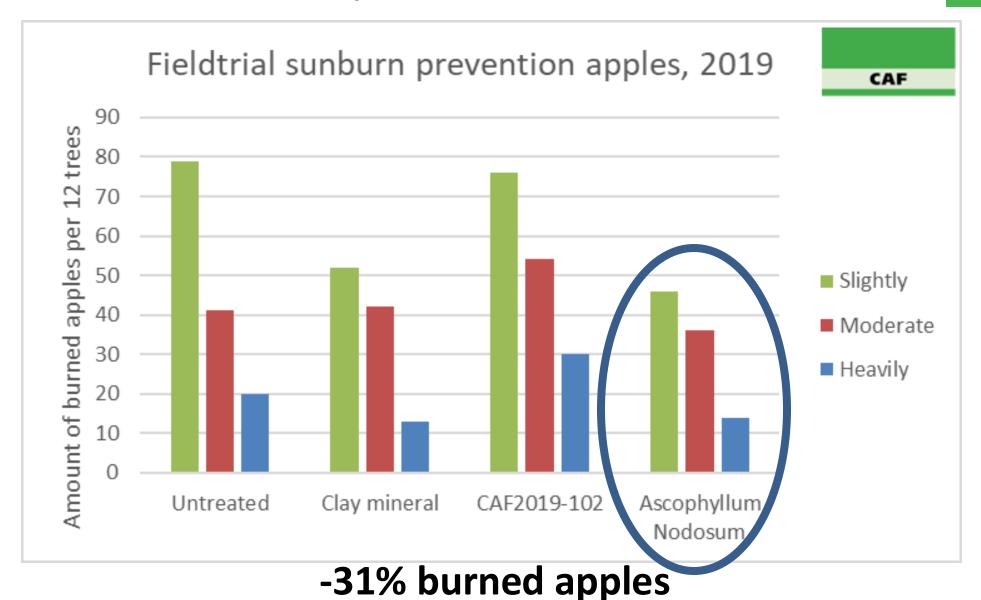




Reduced stress response trigger



2019 – first experience





Licht

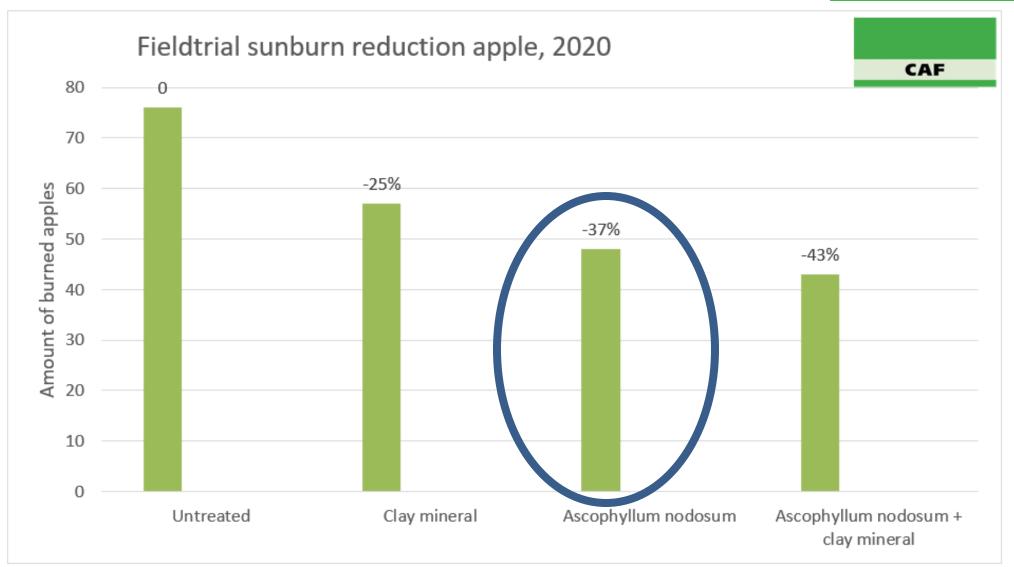


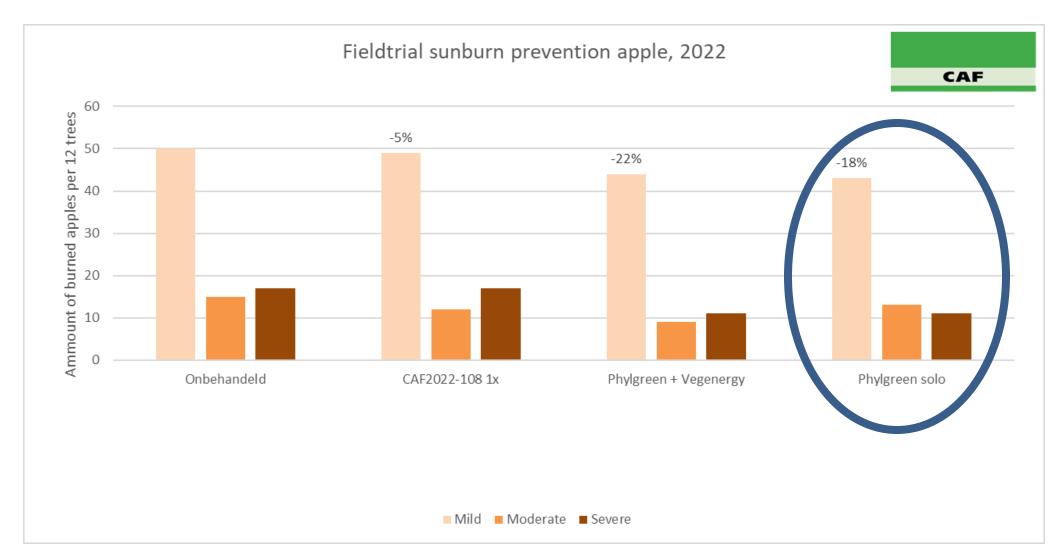
Matie



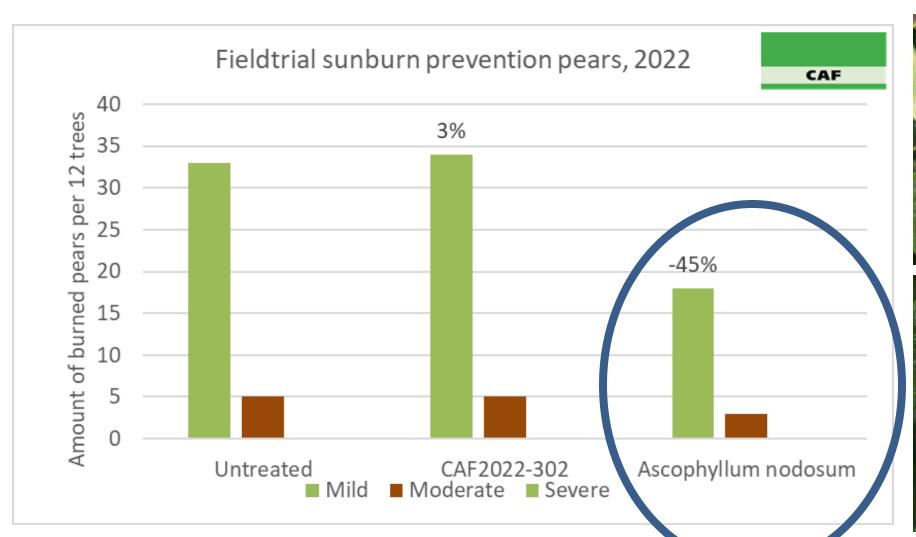
Zwaar

2020





2022 but on pears

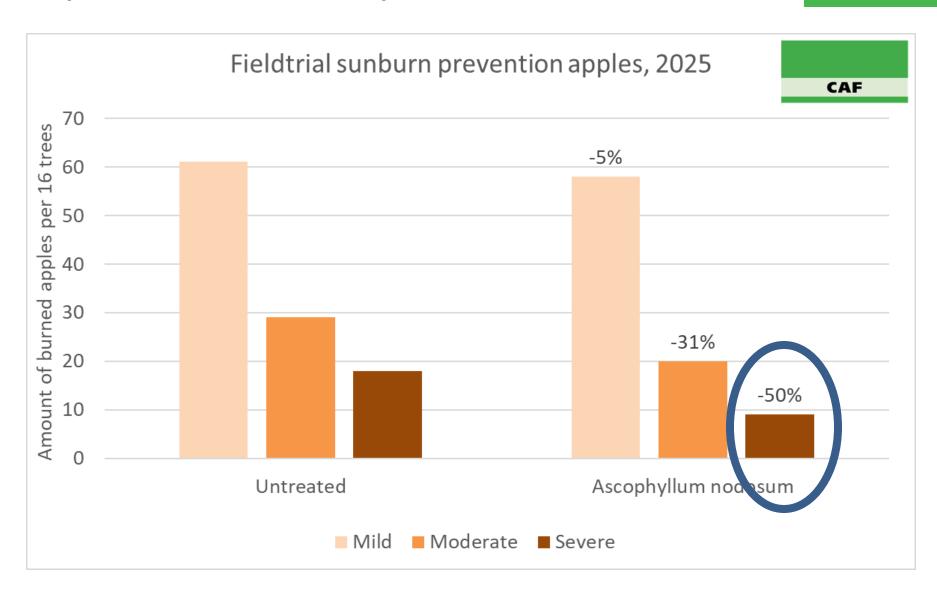






2025 – proof of concept





In conclusion

 Ascophyllum nodosum seaweed extract is proven effective to reduce sunburn damage on fruits

The effects are similar in 4 different seasons

 Our results convinced growers to use this biostimulant, even instead of sprinkler irrigation when the risk for sunburn was not to high

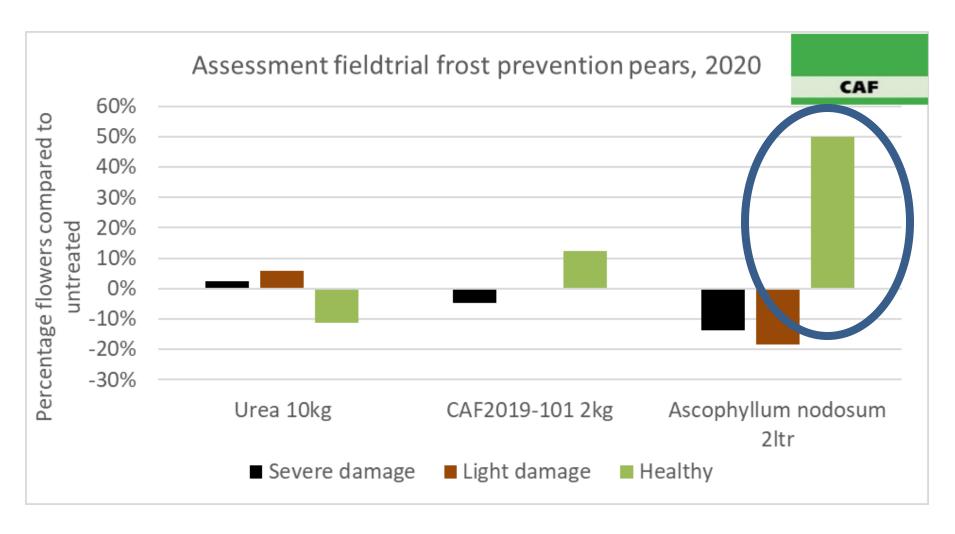
Frost damage





Frost trial 2020

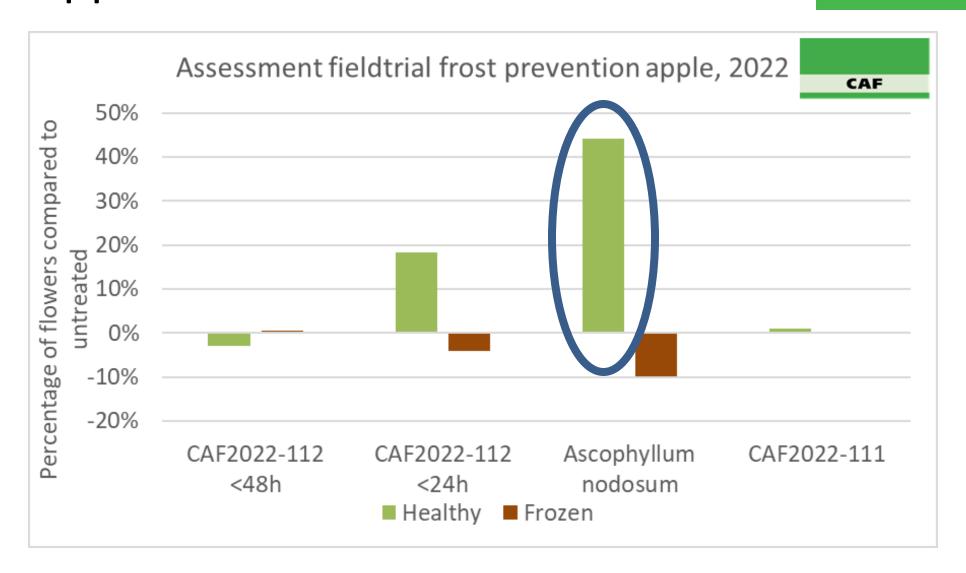
CAF

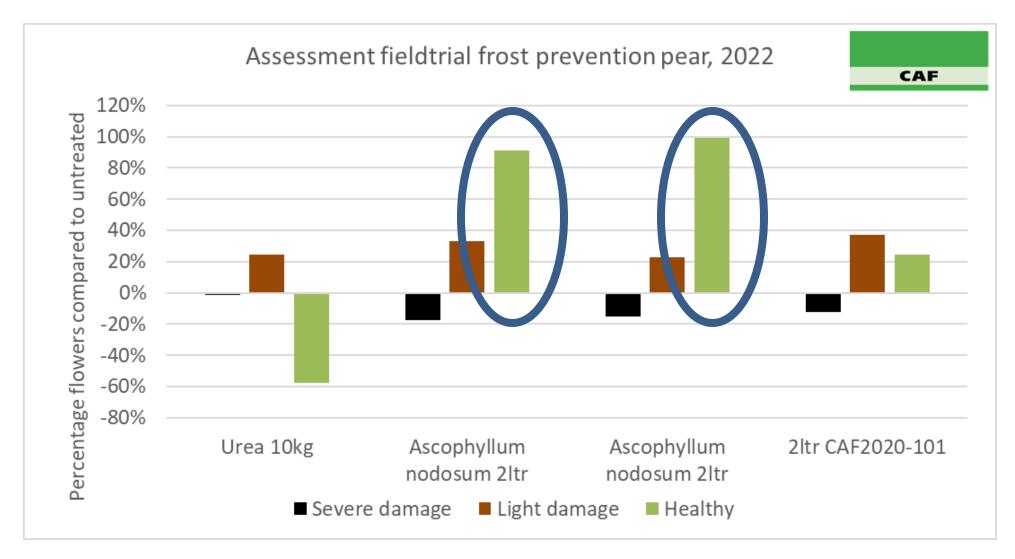


50% more healthy flowers

2022 apple







^{*7%} healthy flowers in the untreated control Vs 13% healthy flowers in the object treated with seaweed

In conclusion



 Ascophyllum nodosum is proven effective in strenthening flowers to reduce frost damage

The results are again stable over the years

 These results convinced growers without sprinkler irrigation to use seaweed extract to protect their trees

In conclusion



- Biostimulants made from seaweed are benificial in agriculture!
- Changing climate and growth conditions will increase the possibilities with seaweed based biostimulants
- Seaweed biostimulants can:
 - Lower the waterfootprint
 - Increase yield efficacy -> lower CO2 footprint + less food loss
- There is plenty of room for improvement and innovation!

