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**Agroscope**

# Thinning trials in Switzerland 2020

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# Thinning trials 2020

- Thinning trial apple (Golden)
  - Comparison of different BA formulations
- Thinning trial pear (Williams)
  - Evaluation of abscisic acid ABA
  - Comparison with BA and Brevis
- Thinning trials cherry (Merchant, Sweetheart)
  - Extinction
  - Armicarb at BBCH 65
- Thinning trial plum (Blue Frost)
  - Armicarb at BBCH 72 (500, 1000 l/ha)





# Thinning trial apple (Golden)

- Rootstock: Fleuren 56, planted in 2001
- Testing different BA-formulations at 10 mm
  - 1x 7.5 l/ha Maxcel (150 ppm BA)
  - 1x 7.5 l/ha Exilis (150 ppm BA)
  - 1x 1.5 l/ha Globaryll (150 ppm BA)
- Brevis at 10 mm according to BrevisSmart
  - 1x 2.2 kg/ha Brevis
- UTC
- Hand thinning after June drop



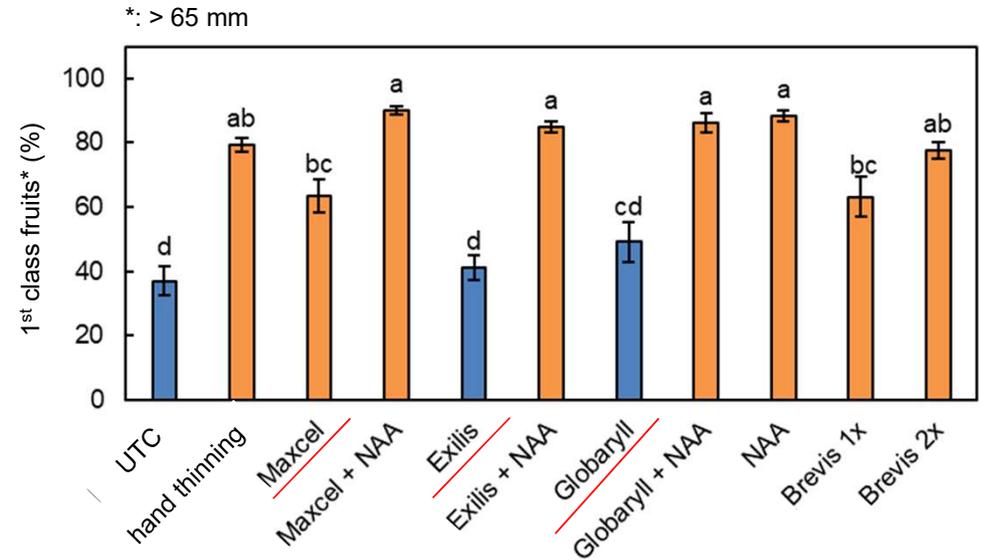
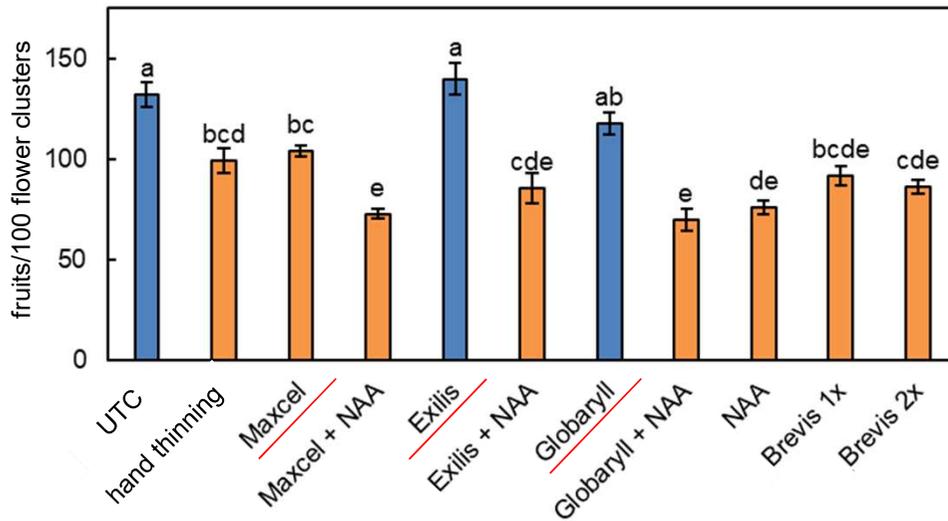
maxcel®

exilis®

Globaryll<sup>100</sup>



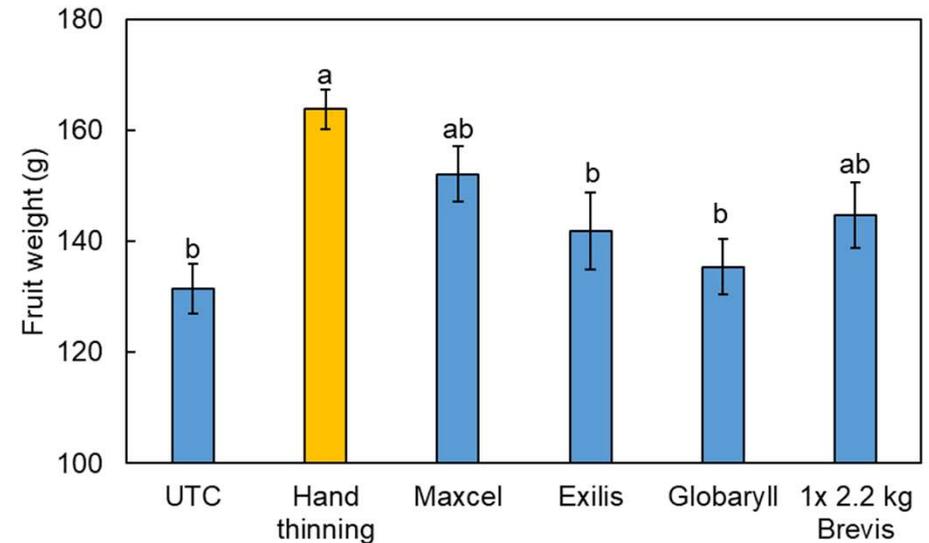
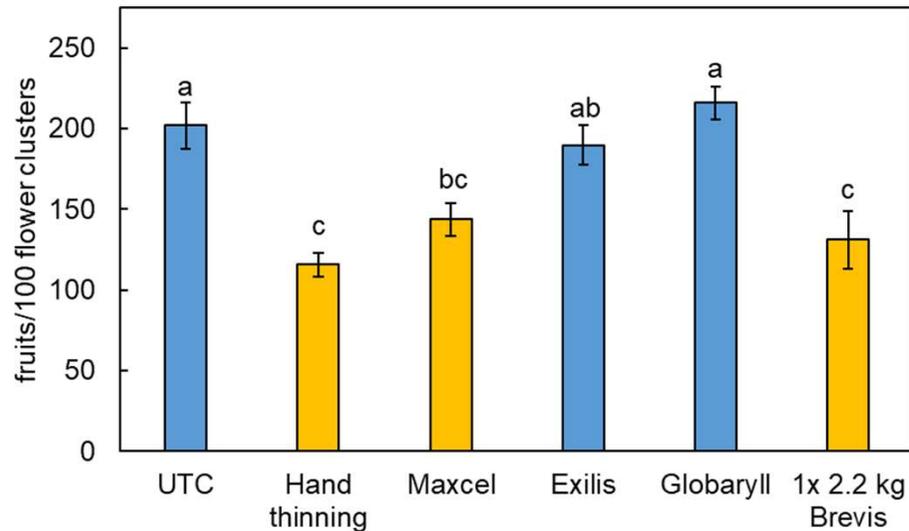
# Golden trial 2019



- Maxcel showed a higher efficacy than Exilis and Globaryll
- No differences between the formulations when applied in tank mix with NAA



# Results thinning trial Golden 2020



- As in 2019: Maxcel >> Exilis / Globaryll
- Brevis: equal efficacy as Maxcel
- Fruit weight/fruit size: no significant differences between treatments



# Thinning trials 2020

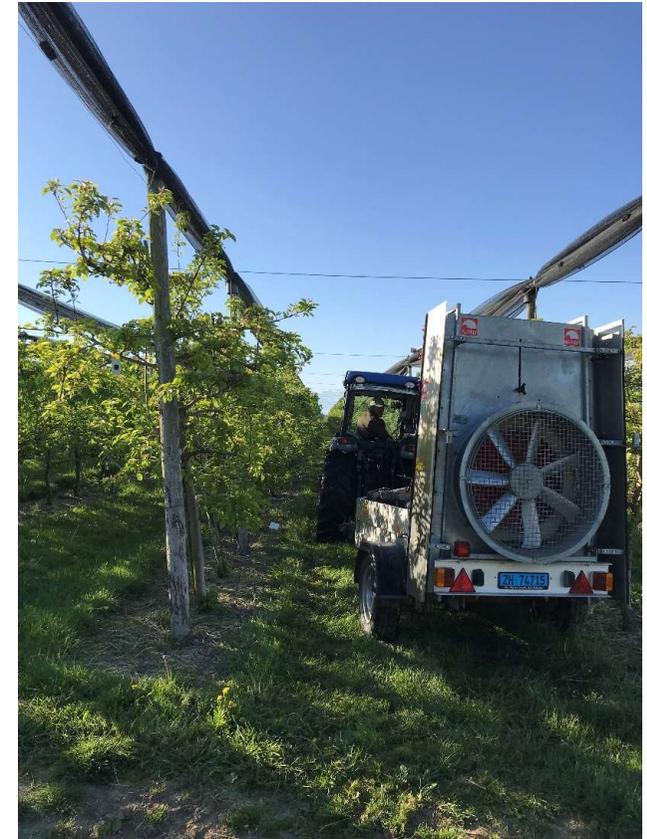
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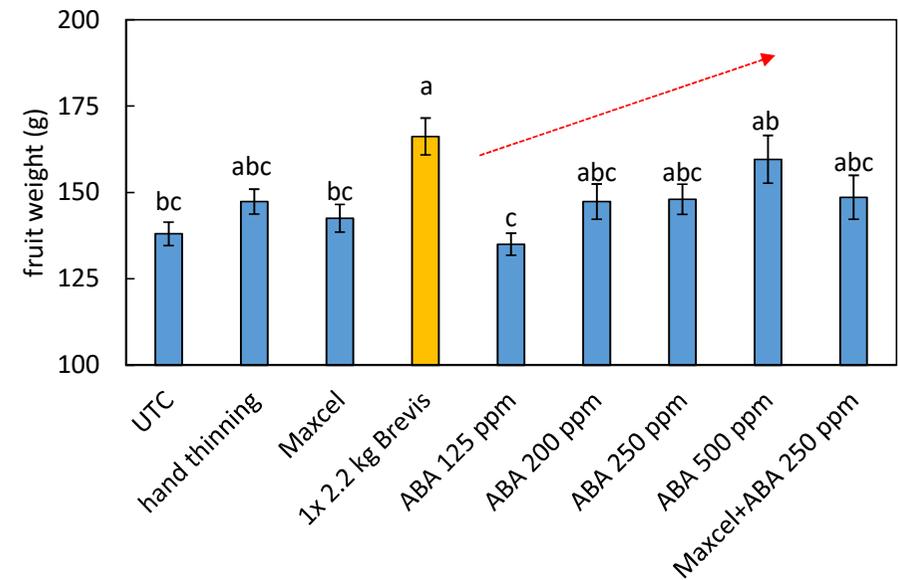
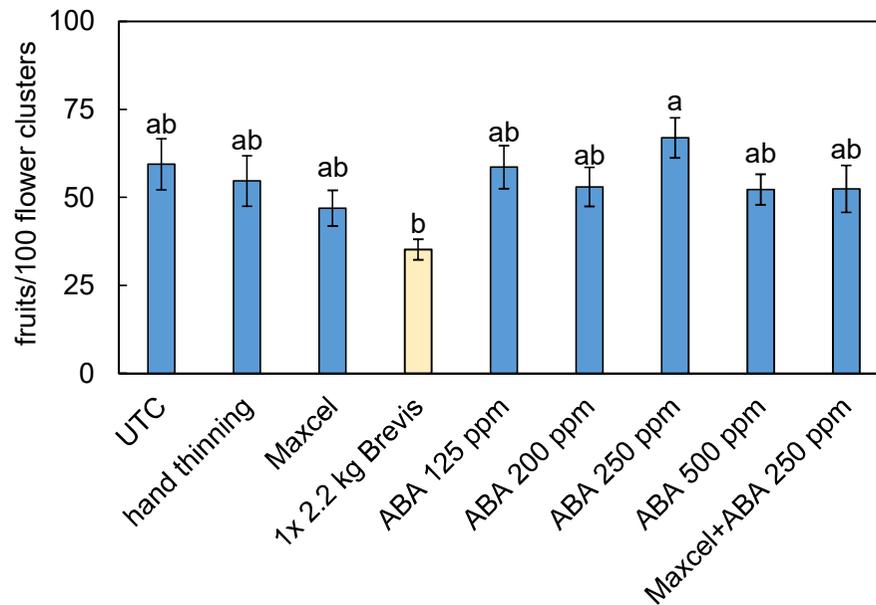
## Thinning trial pear (Williams)

- Rootstock: QA, planted in 2010, two training systems
- Testing new thinning agent abscisic acid (ABA)
  - Tested fruit size: 10 mm
  - 1 treatment
  - Dosages 125 to 500 ppm
- BA at 10 mm
  - 1x 7.5 l/ha Maxcel
- Brevis at 10 mm according to BreviSmart (Golden)
  - 1x 2.2 kg/ha Brevis
- UTC
- Hand thinning after June drop





# Results thinning trial Williams



- Optimal fruit set after June drop in all treatments inc. UTC (late effects of frost?)
- ABA: no thinning effect, but tendency to higher fruit size with increasing dosage
- Brevis: significant increase of fruit weight
- Maxcel had no thinning effect despite ideal conditions



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# Thinning cherries

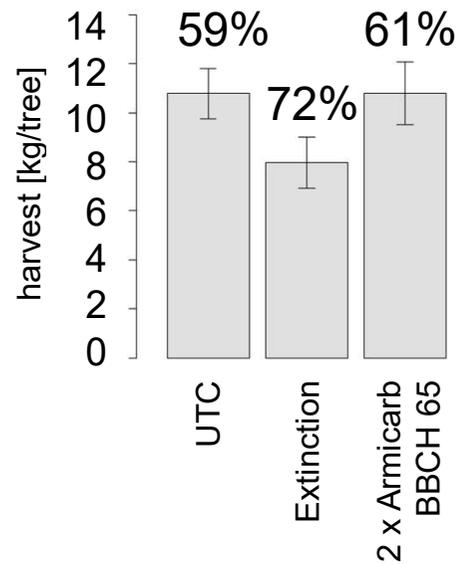


- Could make sense to reduce heavy fruit set in order to
  - increase fruit quality, e.g. reduce rotting fruits
  - reduce risk of exhausted trees, improve reserves for the next year
- Thinning sweet cherries is possible, however
  - efficacy is very unstable
  - increase in fruit size is minor
  - in most cases unnecessary, no gain on income
  - tested agents/techniques: ATS, BA, NAA, Brevis; Electro'flor, extinction
- 2020: testing Armicarb (potassium bicarbonate)

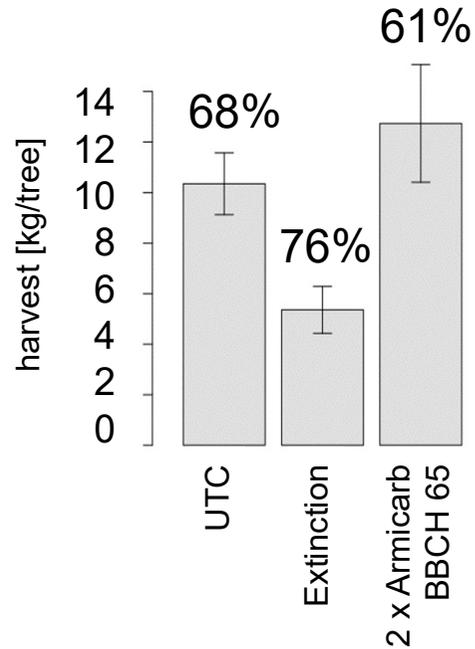


# Thinning trial sweet cherry

Merchant



Sweetheart



Fraction of premium size fruits (28 mm+)



- Armicarb:
  - No thinning effect
  - No effects on fruit quality



# Thinning trials 2020

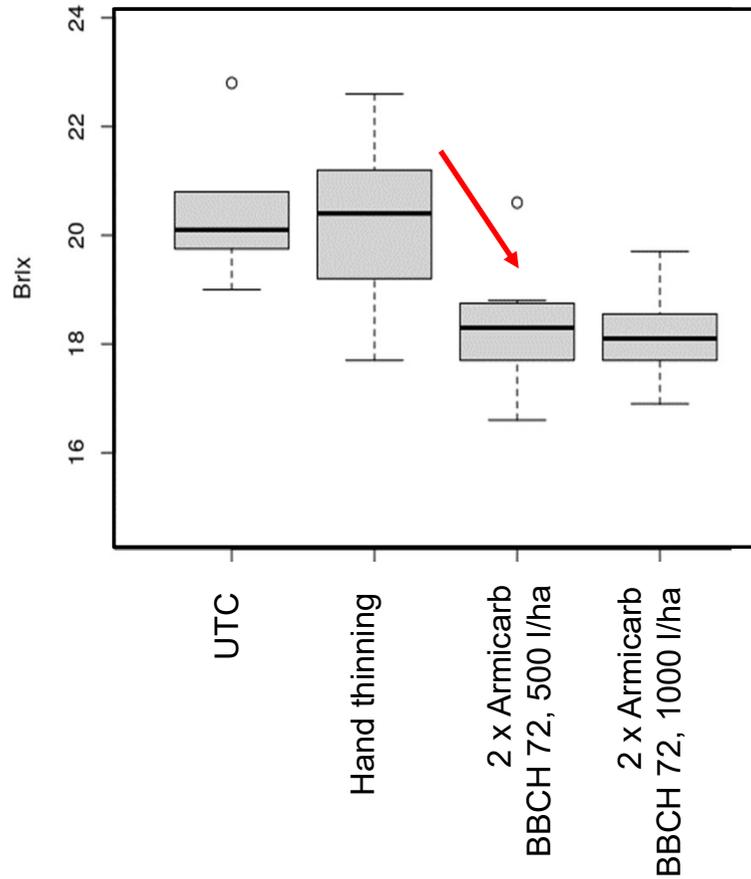
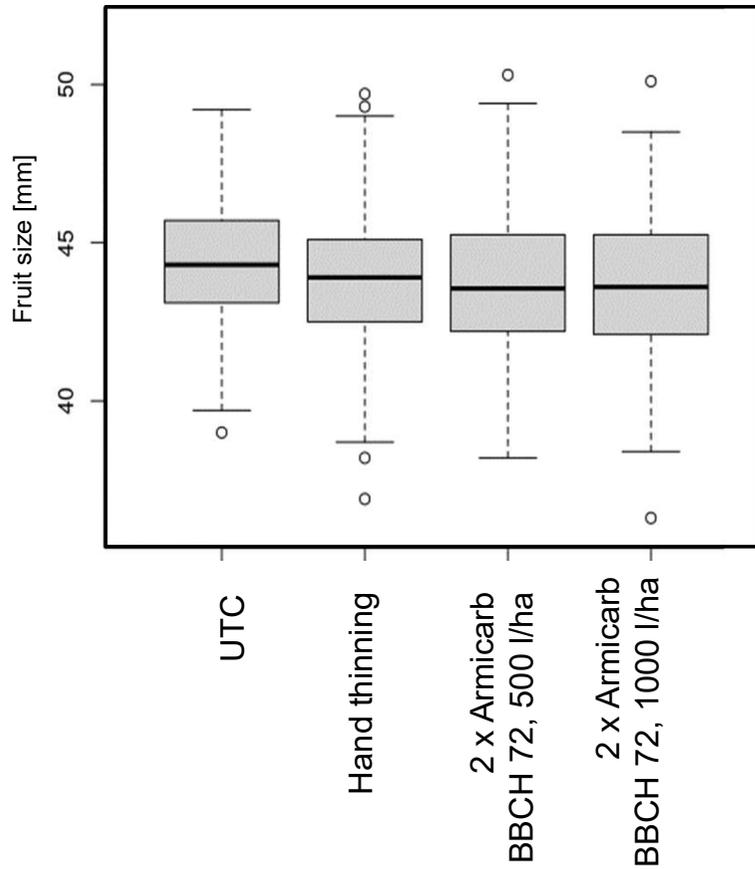
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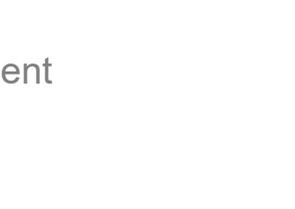
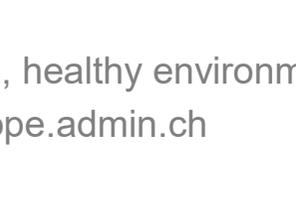




# Thinning trial plum: late application of Armicarb

## Blue Frost





**Thank you for your attention**

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