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Luxury berries
Black & red currant
Gooseberry
Aim
To develop and evaluate a new cultivation system in tunnel
Tunnel production has several advantages
• Slightly higher temperature
• Protected from precipitation
• Fertilisation and irrigation optimised
• Biological control of pests and diseases
• Higher price – fresh consumption (80 D-kr/kg)
Tunnel production has several challenges

› Control of vegetative growth is important to improve light and optimise reproductive growth
› Selection of right cultivar – large berries or long racemes and reduced vegetative growth
› Liquid fertilisation, when organic
› New pests and diseases
Black currant Narve Viking and gooseberry Invicta in March 2012 before pruning
Pruning in March, 2 or 3 stems
Many flowers in the top
Long racemes, but not all berries developed
Pests and diseases

- biological control in the season (several times)
- sulphur against mildew (3 times in March/April)
- soap against aphids several times (not enough)
- Spruzit used once against pests

Gooseberry sawfly last year
Yield in 2012

**Yield, tunnel production of gooseberry in containers**

- **Invicta**: 2.5 kg/bush at 0.5, 4.0 kg/bush at 1, 4.5 kg/bush at 1.5, 2.0 kg/bush at 2, 1.5 kg/bush at 2.5, 1.0 kg/bush at 3, 0.5 kg/bush at 3.5, 0 kg/bush at 4.
- **Xenia**: 5.0 kg/bush at 0.5, 5.5 kg/bush at 1, 6.0 kg/bush at 1.5, 4.5 kg/bush at 2, 4.0 kg/bush at 2.5, 3.5 kg/bush at 3, 3.0 kg/bush at 3.5, 2.5 kg/bush at 4.
- **Redeva**: 1.0 kg/bush at 0.5, 1.5 kg/bush at 1, 2.0 kg/bush at 1.5, 1.0 kg/bush at 2, 0.5 kg/bush at 2.5, 0 kg/bush at 3, 0 kg/bush at 3.5, 0 kg/bush at 4.

**Cultivar, yield in relation to nutrient solution strength**

**Yield, gooseberry, protected and non-protected, both in soil**

- **Invicta**:
  - Tunnel: 3.0 kg/bush at 50 kg N/ha, 3.5 kg/bush at 100 kg N/ha, 4.0 kg/bush at 150 kg N/ha.
  - Out-side: 2.5 kg/bush at 50 kg N/ha, 3.0 kg/bush at 100 kg N/ha, 3.5 kg/bush at 150 kg N/ha.
- **Xenia**:
  - Tunnel: 2.5 kg/bush at 50 kg N/ha, 3.0 kg/bush at 100 kg N/ha, 3.5 kg/bush at 150 kg N/ha.
  - Out-side: 2.0 kg/bush at 50 kg N/ha, 2.5 kg/bush at 100 kg N/ha, 3.0 kg/bush at 150 kg N/ha.
- **Redeva**:
  - Tunnel: 1.5 kg/bush at 50 kg N/ha, 2.0 kg/bush at 100 kg N/ha, 2.5 kg/bush at 150 kg N/ha.
  - Out-side: 1.0 kg/bush at 50 kg N/ha, 1.5 kg/bush at 100 kg N/ha, 2.0 kg/bush at 150 kg N/ha.
Yield, organic gooseberry in tunnel

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<th>kg N/ha</th>
<th>Invicta</th>
<th>Xenia</th>
<th>Redeva</th>
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The Interreg IVB North Sea Region Programme
Investing in the future by working together for a sustainable and competitive region
Big Ben and Invicta berries
Conclusion

- Luxury berries can be produced at high quality in protected cultivation

Important:
- Choice of cultivar for large berries or long racemes
- Pruning or methods to control vegetative growth – should be considered in relation to cultivar and cultivation techniques
- Early control of pests and diseases
- Pollination