

*Innocrop Consulting*

**Growing systems Cucumber  
in the future.**

Malmö, 15 January 2014

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**More High Wire:**

**\*More potential concerning:            Production and Planning!**

\*Higher potential production:

Example:

	<b>Umbrella</b>	<b>High Wire</b>
2008	190 cuc./m2 (85 kg/m2)	205 cuc./m2 (92 kg/m2)
2013	190 cuc./m2 (85 kg/m2)	225 cuc./m2 (100 kg/m2)

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### Why better results??

- We are learning how to do it!
- **Some conclusions:**
  - \*It is necessary to remove leaves! Work tidy!
  - \*L.A.I. Is very important (between 2 and 3); number of leaves: 40-45/m<sup>2</sup> (depending on leaf size). When L.A.I. is good; **less diseases and less energy need.**
  - \*Planning/Pruning. Never allow more cucumbers/flowers than can be harvested.



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- What are growers aiming at?

\*High wire: more labour needed but important is **labour need per cucumber.**

	Umbrella	High Wire
Labour need	1 hour/m <sup>2</sup>	1,25 hour/m <sup>2</sup>
Production per m <sup>2</sup>	185 pieces/m <sup>2</sup>	225 pieces/m <sup>2</sup>
Cost per cucumber when 16 euro per hour	0,086 ct/piece	0,089 ct/piece



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### High wire with lights:

- \*6000-9000 lux.
- \*Planting: December, June (2 crops per year)
- \*Stems/m<sup>2</sup>: Start with 1,5 plants/m<sup>2</sup>. Later double to 3 stems/m<sup>2</sup>
- \*Varieties: spring: HiJack, HiPower  
                   summer autumn: HiPower, or Kurios/E2215.  
   when Virus (CGMMV: Bonaire or Bon Bon)
- \*pruning: **based on a calculation.**
  1. light levels (artificial and by nature)
  2. Which production is possible?
  3. Example: 3 stems/m<sup>2</sup> and 6 leaves/stem/week = 18 leaves per m<sup>2</sup>. When target production is 9 pieces/m<sup>2</sup> = pruning: one in one out!



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### High wire without lights

**\*2 Crops per year:**                      **future: maybe one crop per year?**

\*Planting: End of January/ first week of February

Second crop: end of June/July

\*Varieties: spring:            mainly HiJack, Topkick,

summer:            HiPower, Kurios/E2215

\*System: Spring:

start with 1,5 a 1,7 plant/m<sup>2</sup>. Week 5: extra stems (double)

pruning: mainstem: fruit in 6,8,10,12,14 axil.

when first flowering on lateral: both stem and lateral one in one out.

**New: take flower and leaf at the same time!**

Optimal balance: harvest 20-22 leaves under head!



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Scissors to remove leaves/stems

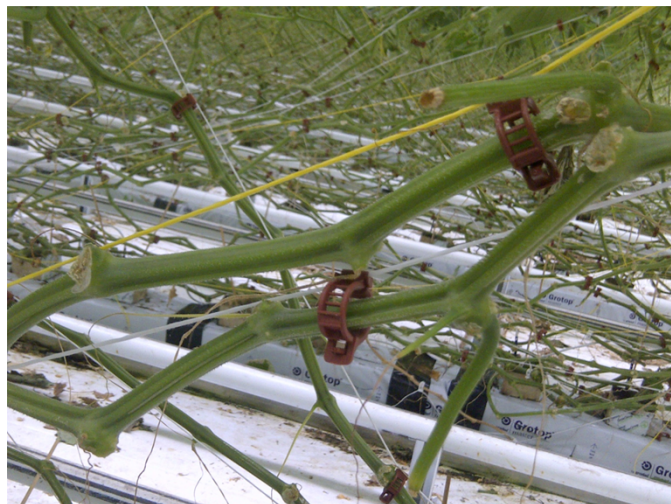


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High Wire, summer, starting up

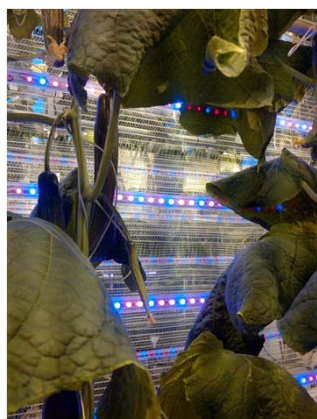


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Some other ideas



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Many idea's, but we need to work it out.  
We need??

- \*



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