



Homework – Lesson 1

1. Open www.letsgrow.com
2. Click Demo
3. Please check some graphs and overviews in the module “Live Meteo”



Questions:

- What was the radiation sum on August 31st in De Lier
- What was the average outside air temperature on August 31st in De Lier

Tip: Bookmark maps.letsgrow.com on your smart to see the actual horticulture weather data



Homework – Lesson 2

1. What is your heating profile?
2. What are the arguments to heat like this?

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3. What is your ventilation profile?
4. What are the arguments to ventilate like this?

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Homework – Lesson 3

1. What kind of influence is used at the heating temperature?

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2. What kind of influence is used at the ventilation temperature?

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3. What kind of influence is used at the minimum pipe temperature?

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4. What kind of influence is used at the minimum vent position?

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Homework – Lesson 4

1. Outside conditions 18°C, 80% RH
Inside conditions 20°C, 90% RH
Can we use the vents to dehumidify? Yes/No
2. Outside conditions 18°C, 100% RH
Inside conditions 20°C, 90% RH
Can we use the vents to dehumidify? Yes/No
3. Outside conditions 15°C, 100% RH
Inside conditions 20°C, 90% RH
Can we use the vents to dehumidify? Yes/No
4. Outside conditions 22°C, 50% RH
Inside conditions 23°C, 70% RH
Can we use the vents to cool? Yes/No
5. Outside conditions 25°C, 50% RH
Inside conditions 23°C, 70% RH
Can we use the vents to cool? Yes/No
6. Outside conditions 25°C, 60% RH
Inside conditions 23°C, 70% RH
Can we use the vents to cool? Yes/No



Homework – Lesson 5

1. What is the curtain strategy?
2. The setpoints to save energy

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3. Is the curtain opening in steps? What are the settings?

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4. Is a crack used? What are the settings?

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5. The setpoints to protect the crop for too much sun

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Homework – Lesson 6

1. What is the P-band for ventilation? In summer or winter different values?

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2. What is the minimum vent position and maximum vent position?

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3. If the minimum vent position is NOT 0% or maximum vent position is NOT 100%, why not?

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4. What is the maximum vent position rain?

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5. What is the vent position storm? And the windspeed storm?

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6. How low is the frost temperature?

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Homework – Lesson 7

1. What is a good RH at 19 degrees Celcius?

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2. In what unit is the RH expressed?

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3. What is a good HD at 19 degrees Celsius?

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4. What is best to control on, RH or HD, when you grow both at high and low temperatures?

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5. Why is this?

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6. Name 3 types of controls that are trying to control humidity in the greenhouse

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Homework – Lesson 8

1. What are the most important driving factors of plant evaporation

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2. Based on which measurements/factors is irrigation mostly controlled?

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3. How many cc/joules does a grower irrigate in winter time?

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4. How many cc/joules does a grower irrigate in summer time?

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5. Should the EC calculated be higher in a hot sunny period of the day or lower?

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6. Why is this?

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