

GLASTUINBOUW
WATERPROOF



Voortgang glastuinbouw waterproof grondgebonden november; groep Limburg bloemen en groenten

Wim Voogt, Frank van der Helm,
Namens het gehele projectteam

Kernpunten

- Technische zaken
- Watermanagement bedrijven afgelopen periode
- Waterbalans
- Stoffenbalans
- Emissie
- Best practices een aanzet
- Wat verder ter tafel komt

GLASTUINBOUW
WATERPROOF



Technische zaken

- Veiligheid
 - Stopcontact/ Aarding systeem
- Storingen op sensorwaarden
 - Oorzaak
 - Oplossingen
- Kinderziekten
 - Verstopping pomp
 - Condensvorming
 - Plannen voor verbetering
- Waar op letten
 - 220 V Aansluiting !

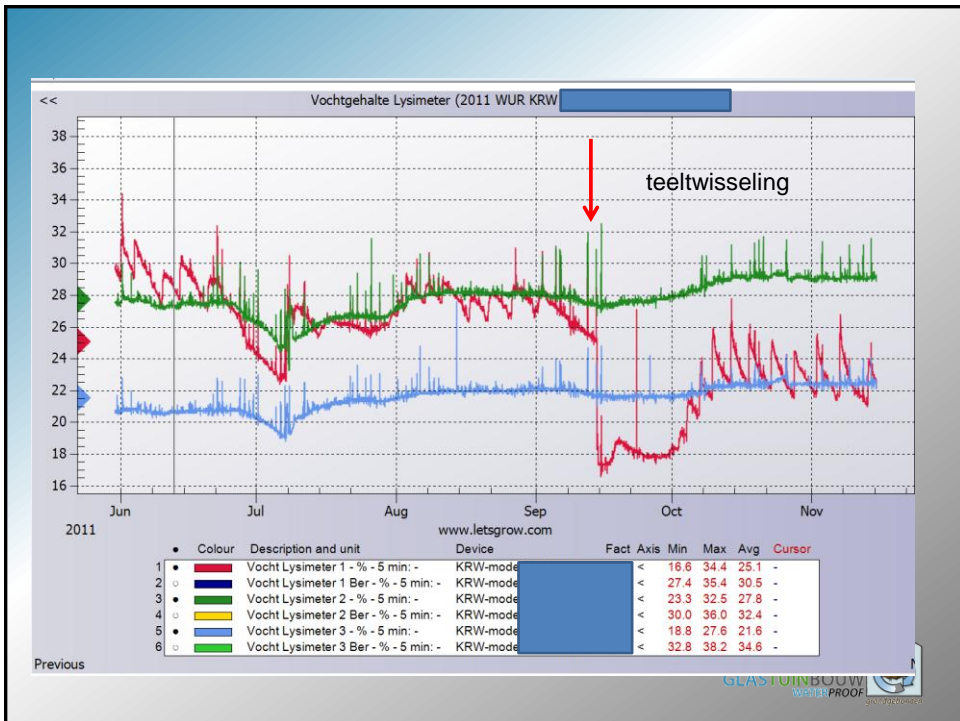
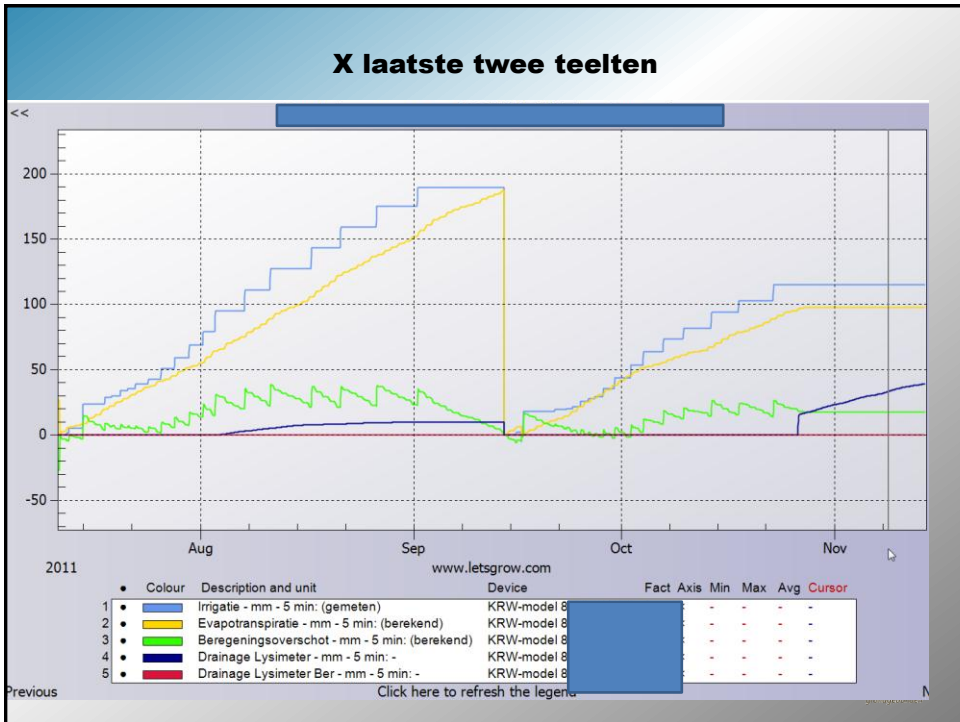


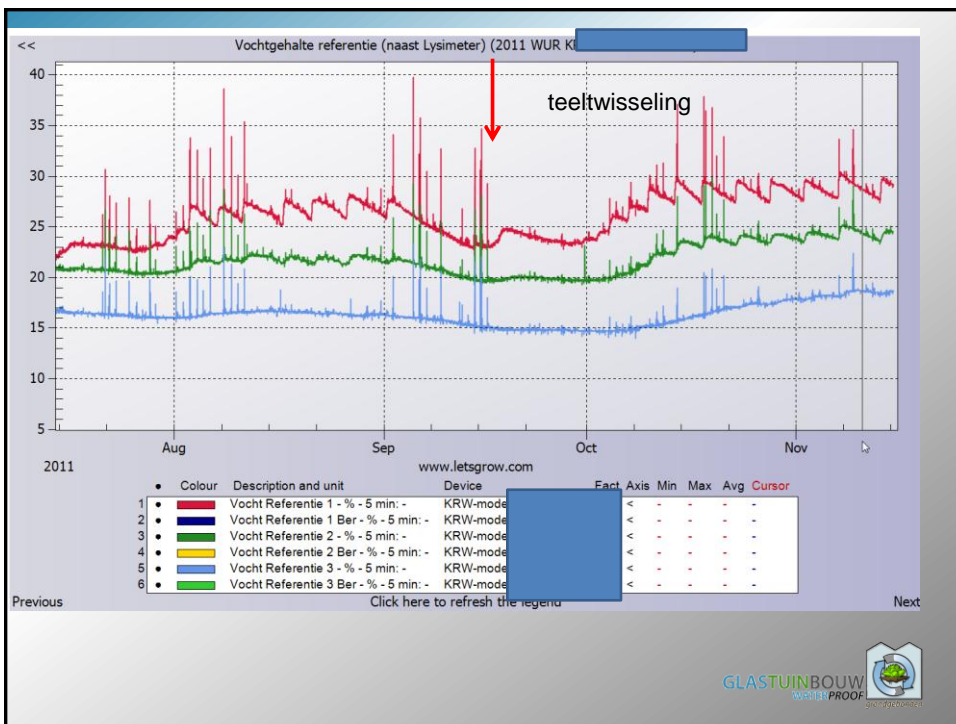
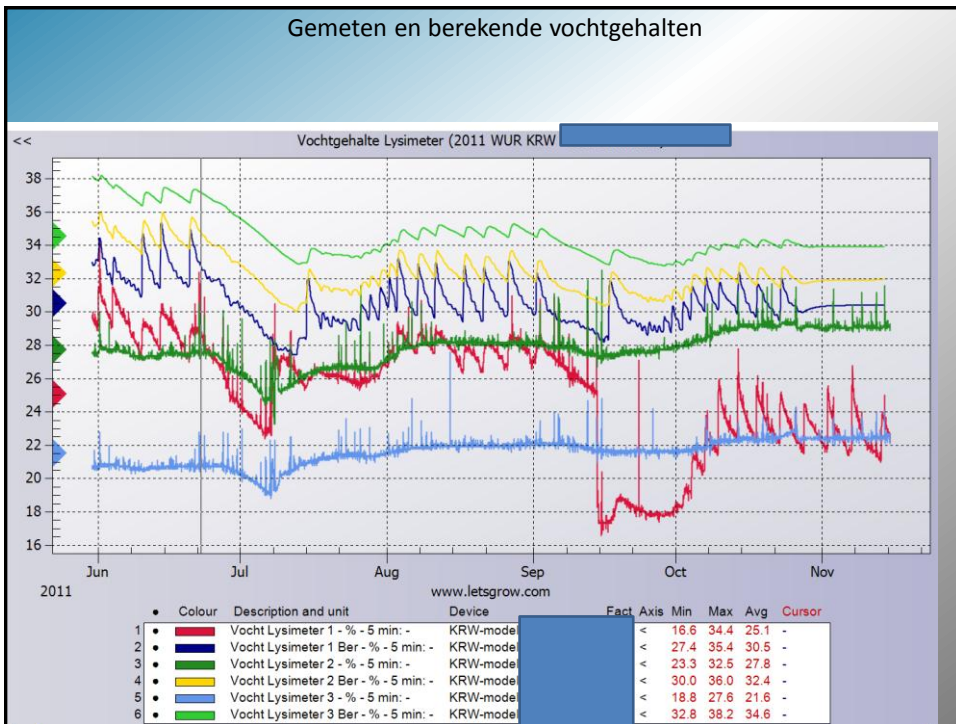
The screenshot shows the 'HOME' page of the LetsGrow.com website. At the top, there is a navigation bar with the LetsGrow.com logo and the tagline 'GROWING DATA ONLINE'. To the right, there are two notification boxes: one for 'LetsGrow.com overzet op nieuwe...' dated 17-09-11, and another for '4) Grafieken worden niet juist...' dated 30-08-11. A 'Member login' section is also visible with the text 'My LetsGrow' and a 'LOGOUT' button.

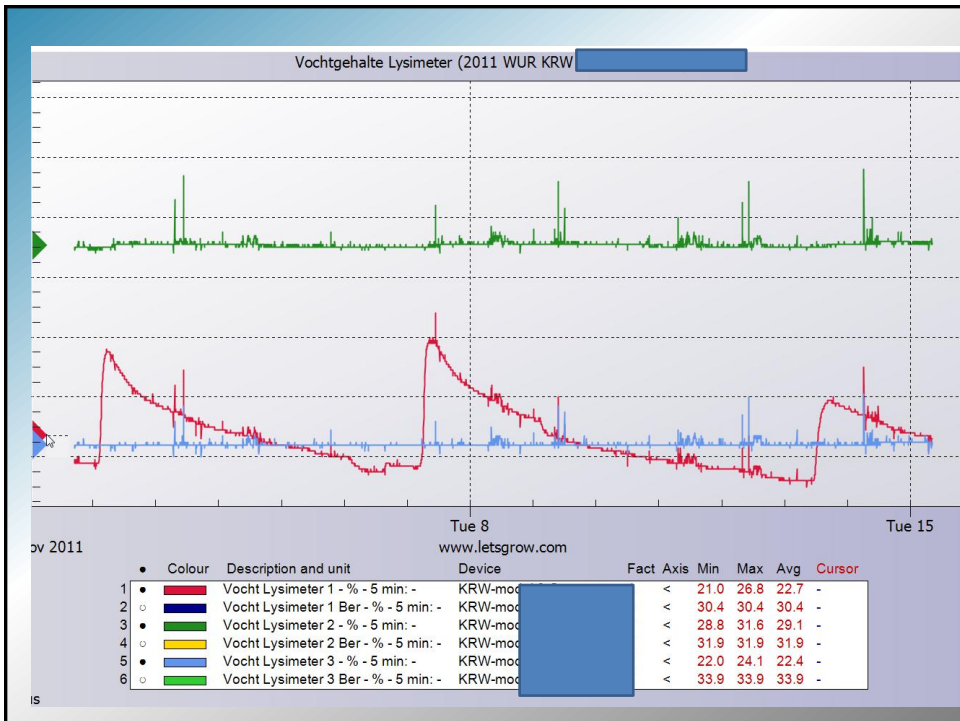
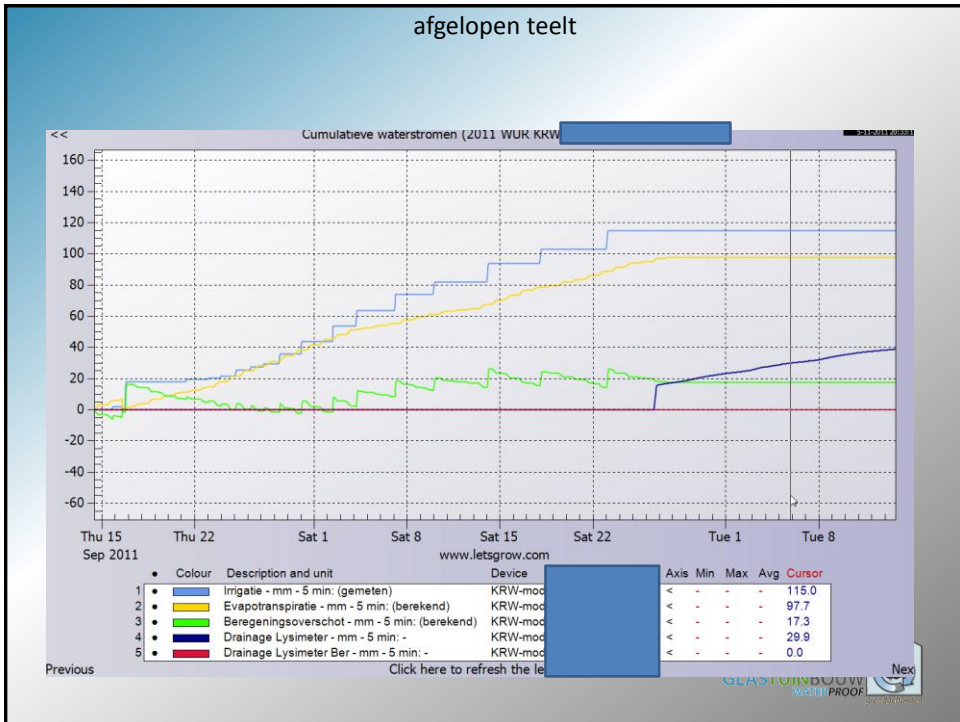
The main content area is divided into three columns:

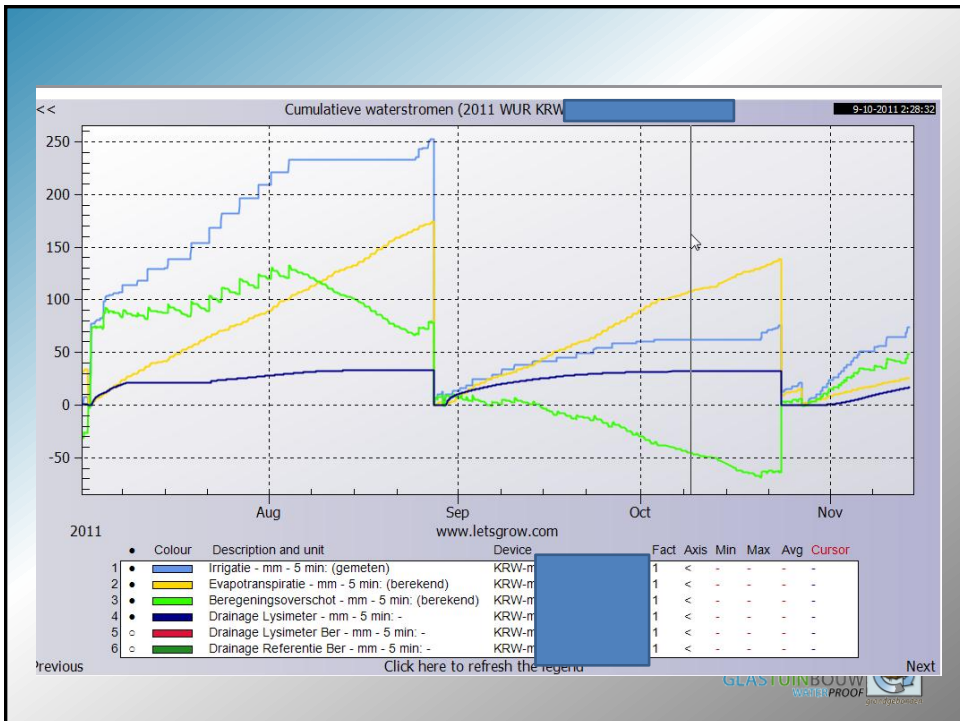
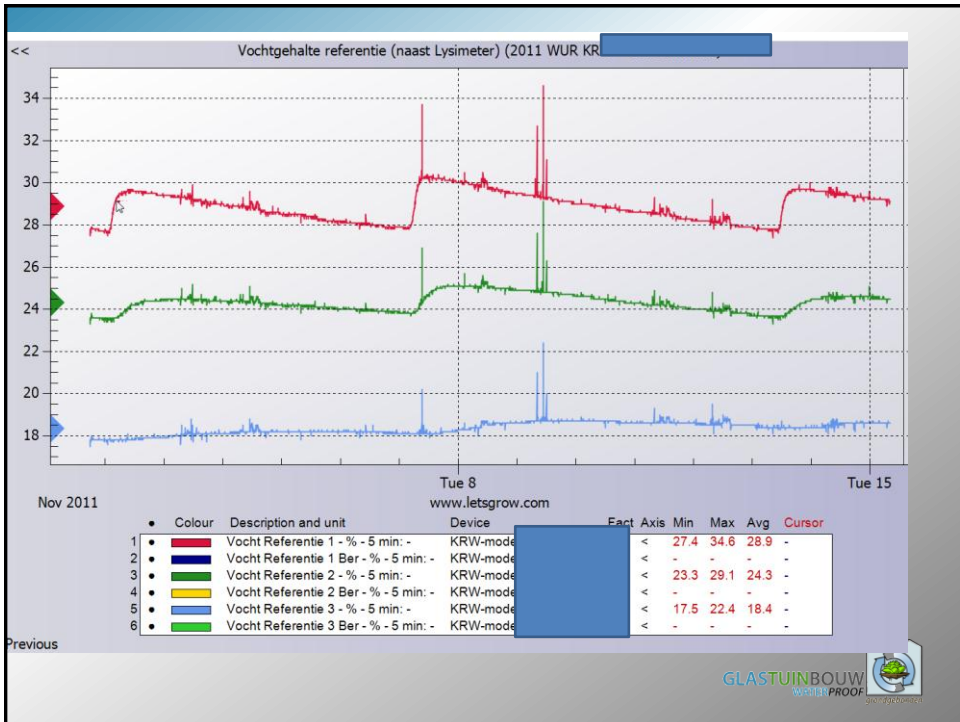
- Left Column (Folders):** A list of folders under the ID '3211-0033'. It includes a 'bin' folder, 'Shared definitions', and a list of folders for various locations and years (e.g., '2012 WIUR KRW - loc. Verbeek', '2011 WIUR KRW - loc. Van Helvoort'). There are buttons for 'Add folder', 'Remove folder', and 'Empty bin'.
- Middle Column (Content):** A section titled 'Contentst:3211-0033' with a search bar and a 'Graph' button.
- Right Column (List):** A vertical list of data points, each with a year, location, and name (e.g., '2012 WIUR KRW - loc. Verbeek', '2011 WIUR KRW - loc. Van Helvoort'). Each item has a small icon and a status indicator. There is a 'Refresh' button at the bottom of this list.

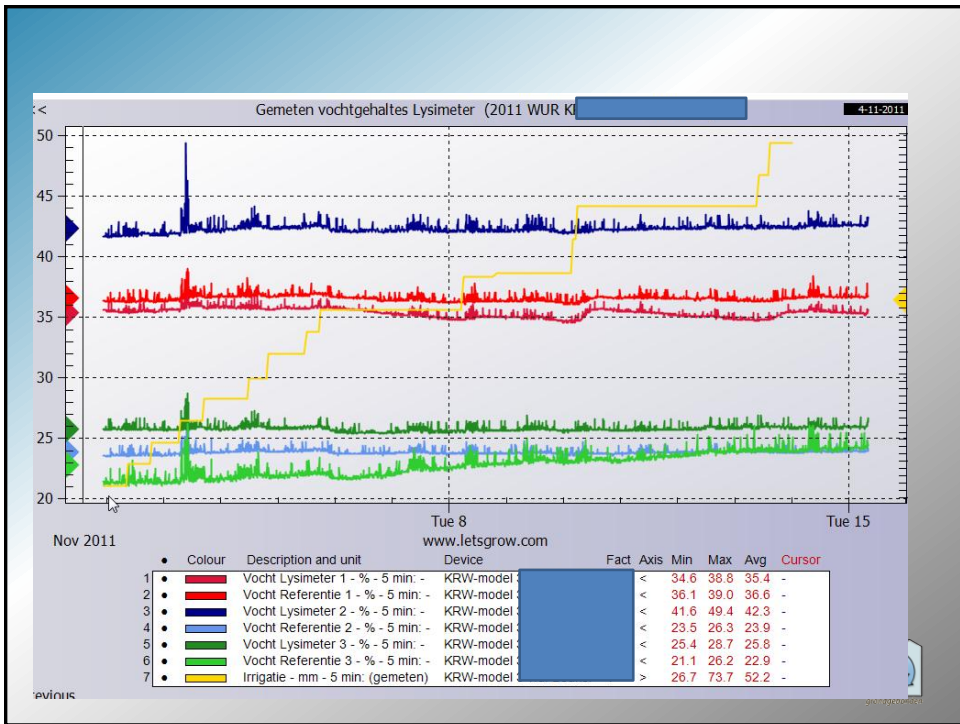
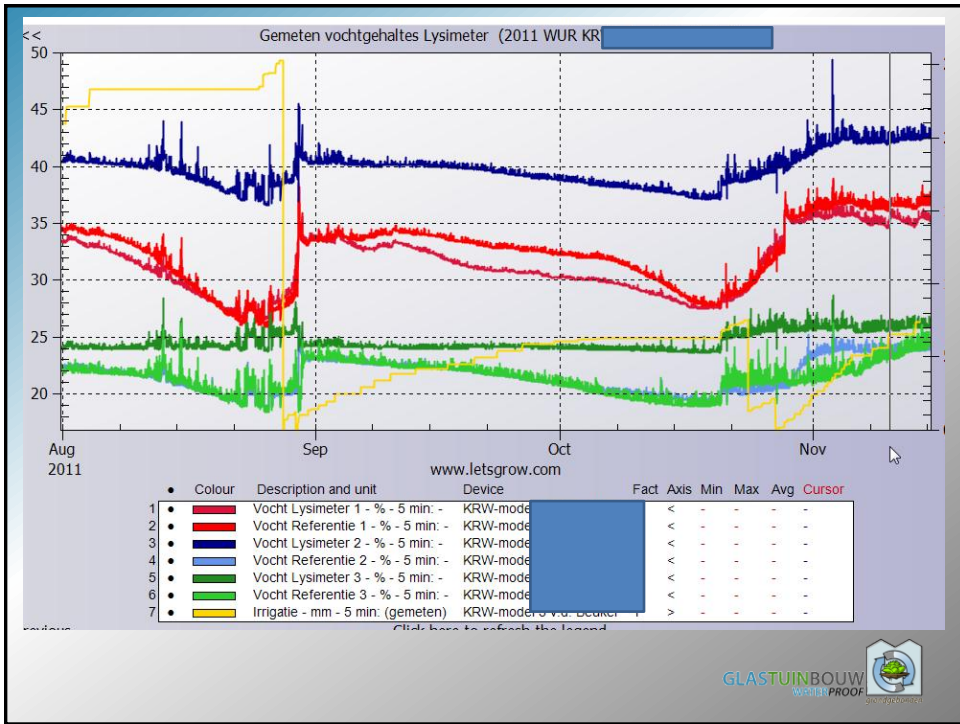
At the bottom right of the screenshot, the 'GLASTUINBOUW WEERSTANDIG PROOF' logo is visible again.

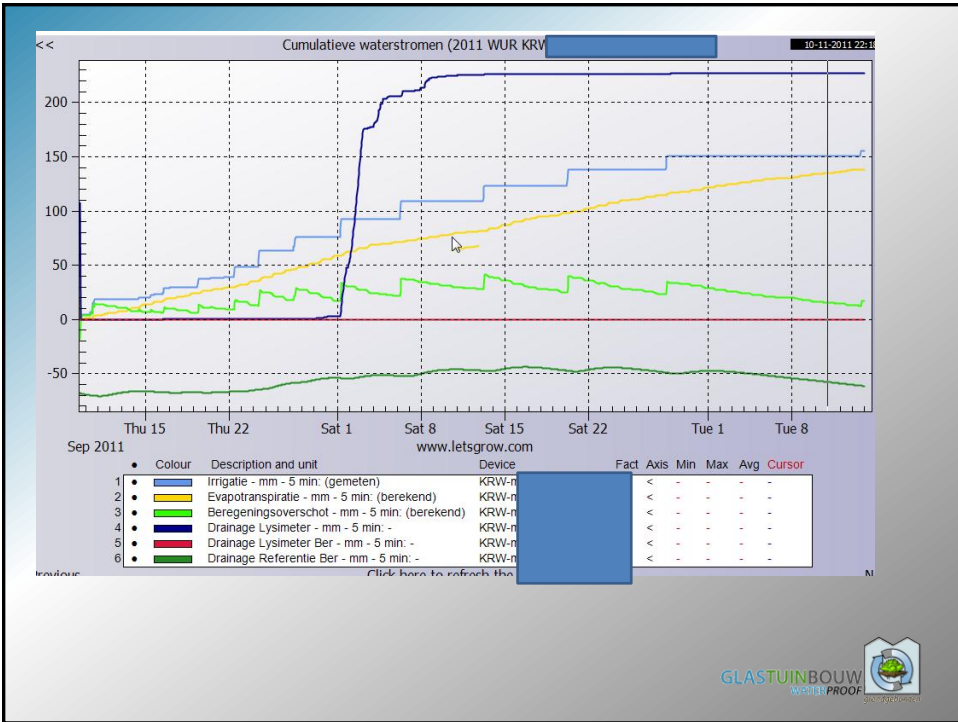
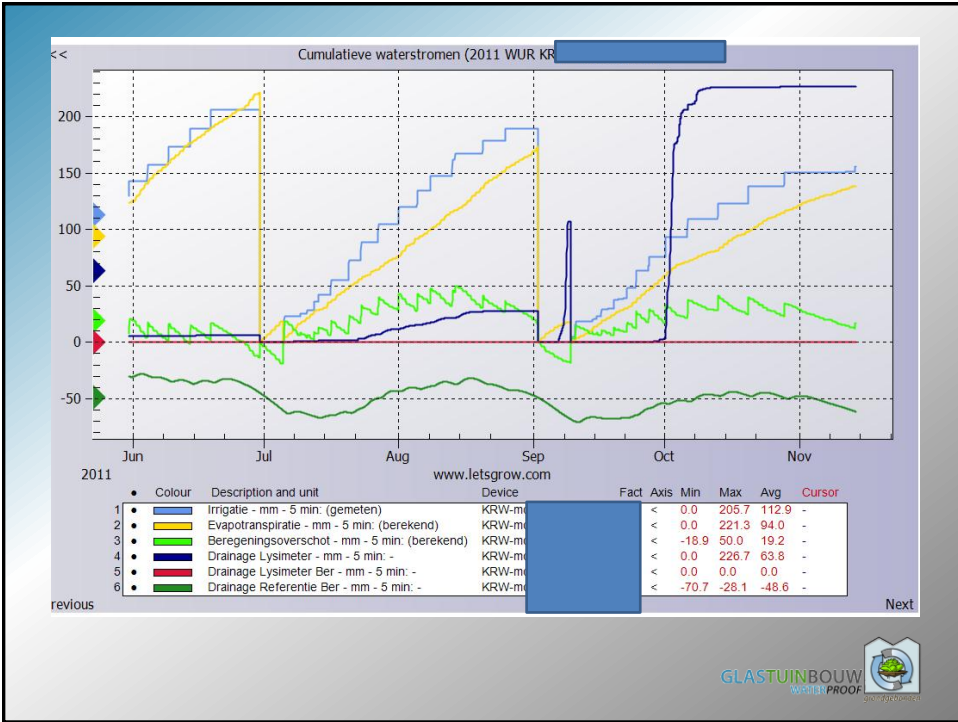


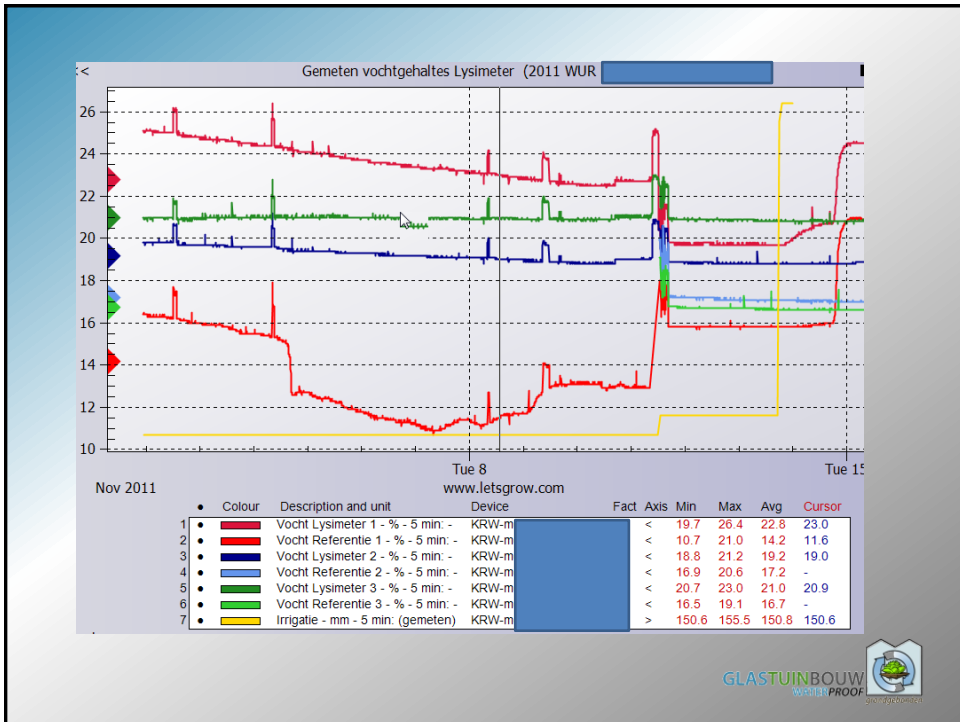


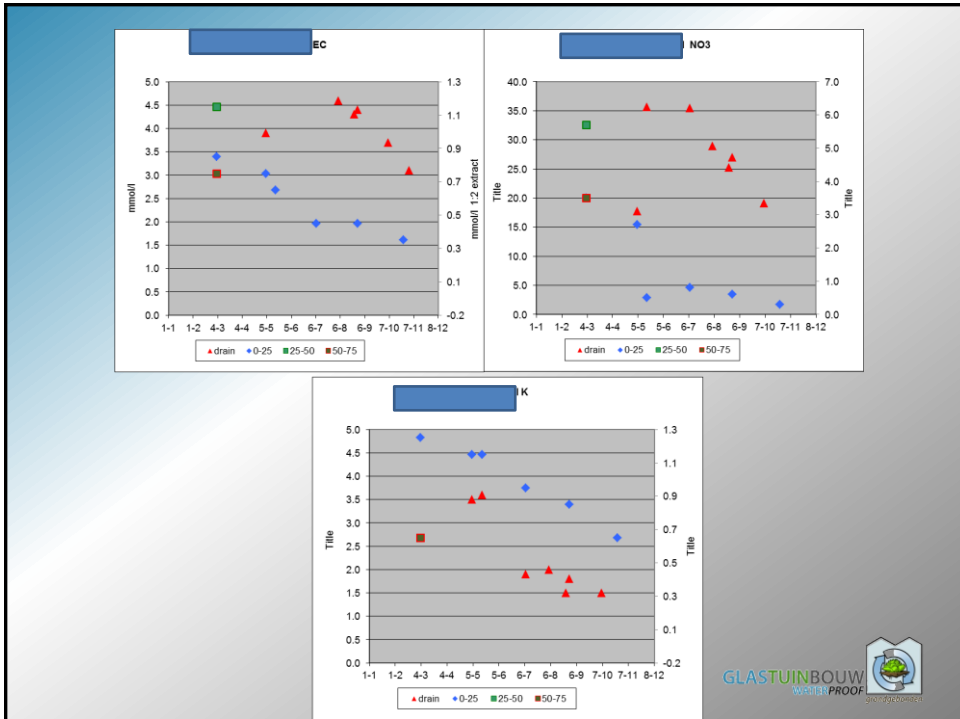
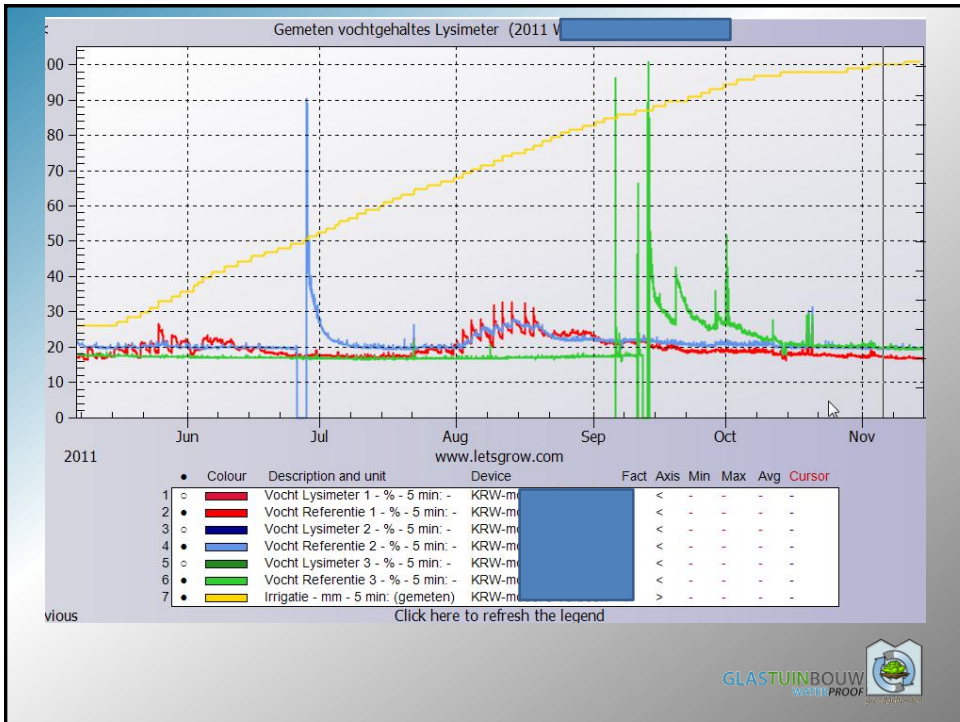


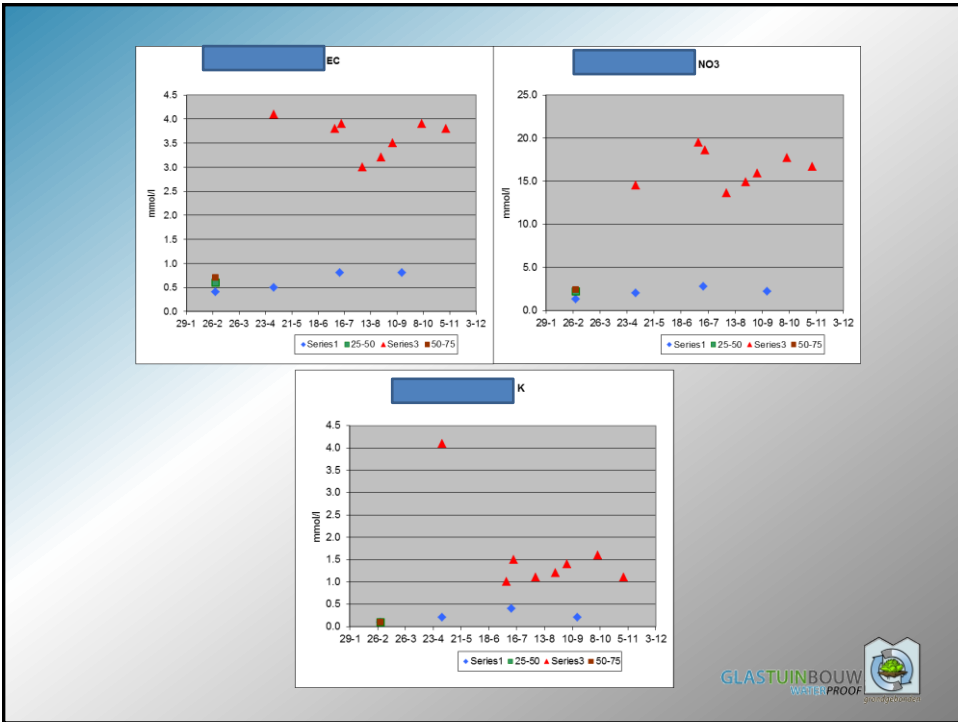
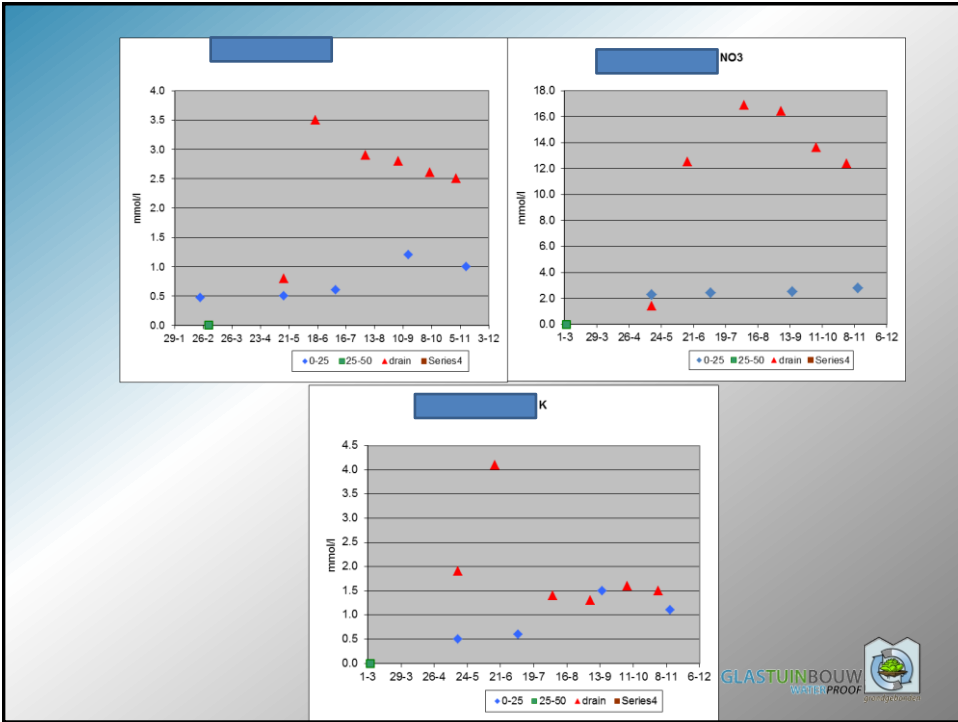


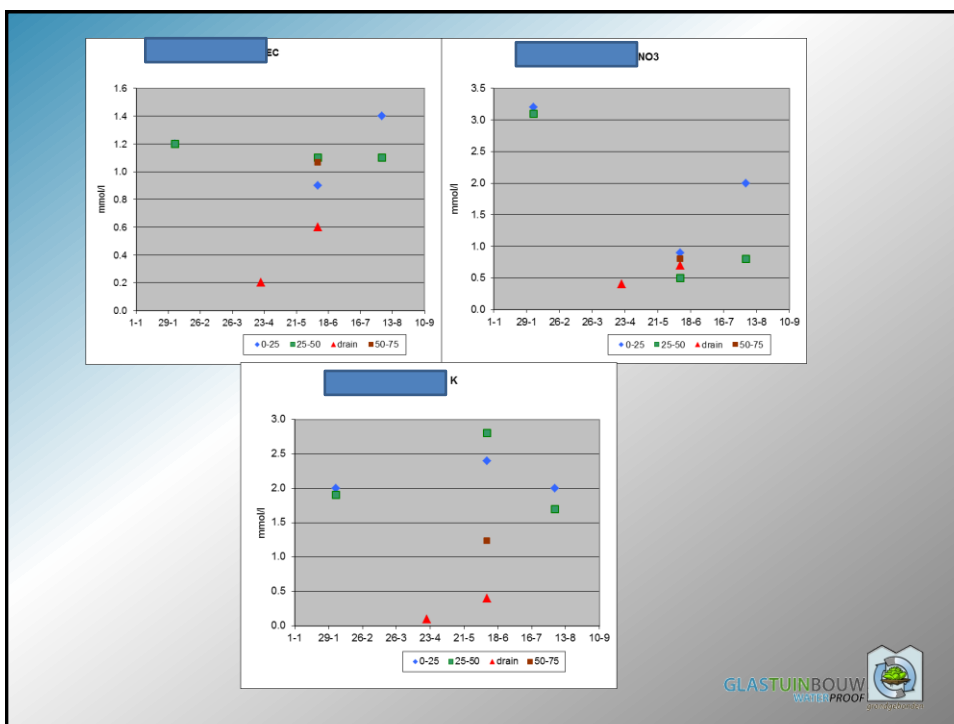












Tot slot

- Techniek wordt beter, maar....
 - Werken aan robuust concept
 - Verstopping / vervuiling drainwater
- Storingen sensoren: blijft lastig
- Overigens, werken vochtsensoren redelijk goed

- Watergift redelijk tot goed afgestemd op behoefte
 - Verbetering nog mogelijk
 - Met name start teelt
 - Beurtgrootte beter afstemmen op “vraag”
- Voedingsgehalten bodem hoog
- Emissie soms zorgelijk hoog
 - NO3 hoog in drain
-

Tips

- Beperk aangietbeurt
- Beperk watergift tot gietbeurten van 5 – 8 mm
- Hou ontwikkeling/trend met name 2e in de gaten



GLASTUINBOUW
WATERPROOF
grondgebonden

Financiers en partners in het onderzoek



WAGENINGEN UR
For quality of life



LTO Groeiservice



ALTERRA
WAGENINGEN UR



HortiMax
growing solutions



Waterschap
Rivierland



Waterschap
Peel en Maasvallei



Hoogheemraadschap van Delfland



PRIVA



Hoogheemraadschap
Hollands
Noorderkwartier



waterschap
Hollandse Delta
leefbaar land, leefbaar water



HOOGENDOORN
GROENTJE IN DE ZAK



Subsidie regeling KRW
Ministerie van Infrastructuur en Milieu



Hagelunie



Productschap
Tuinbouw