

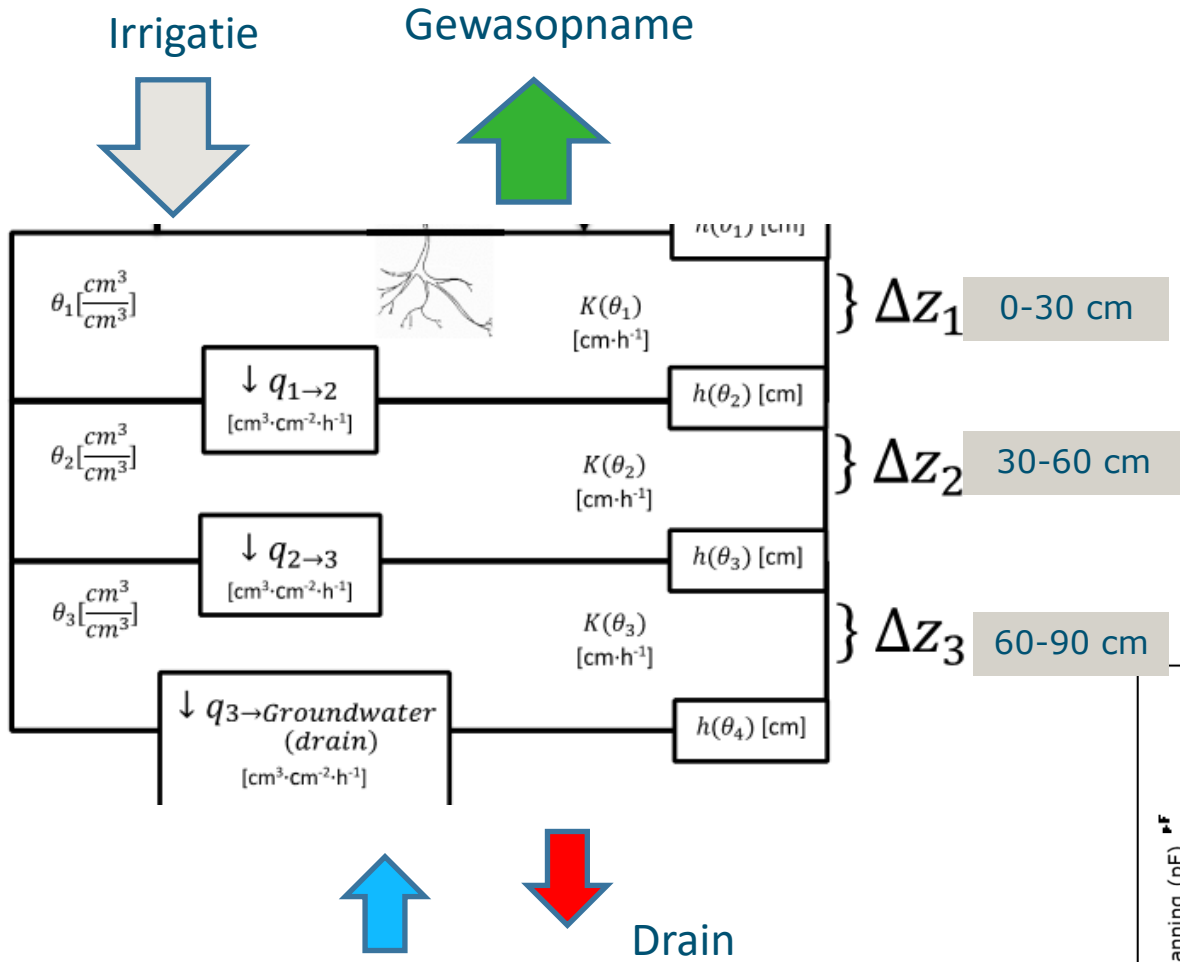
De Virtuele Lysimeter update

Online meeting 05 03 2024

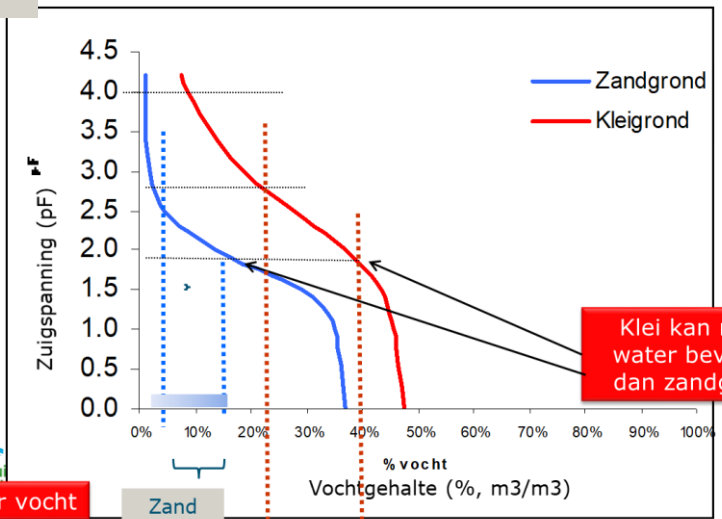
Wim Voogt, Joseph Stoener



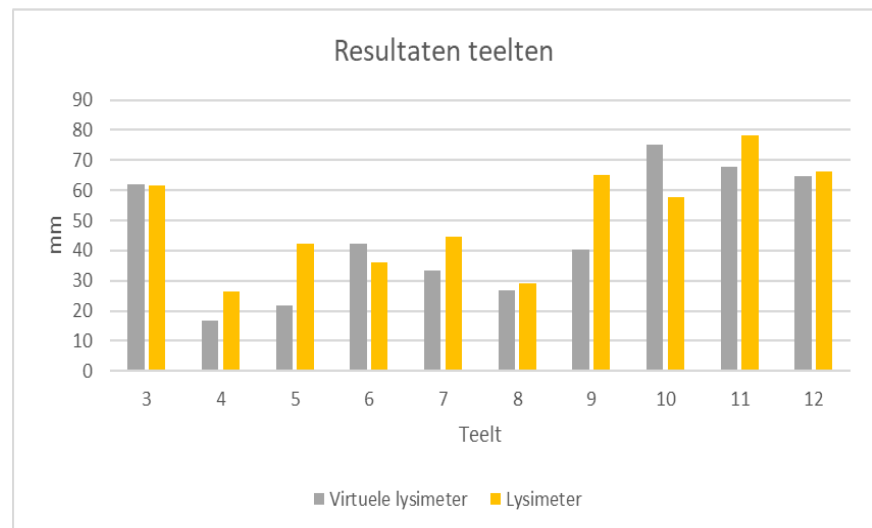
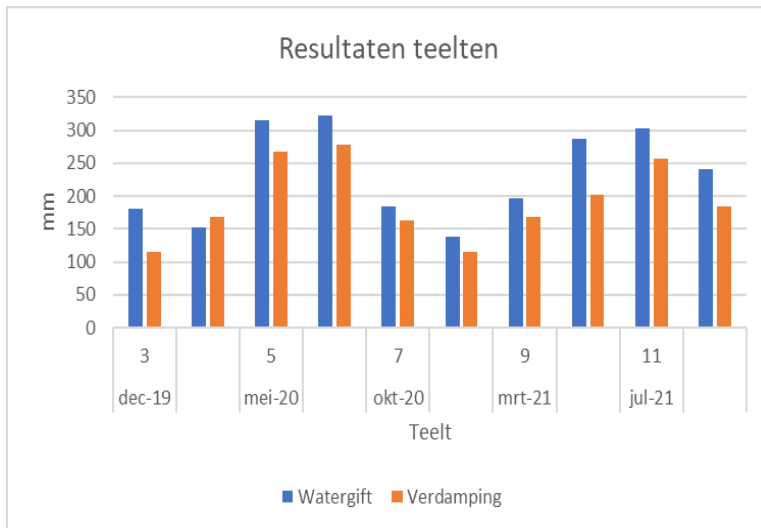
Vereenvoudigd drie-laags bodem-model



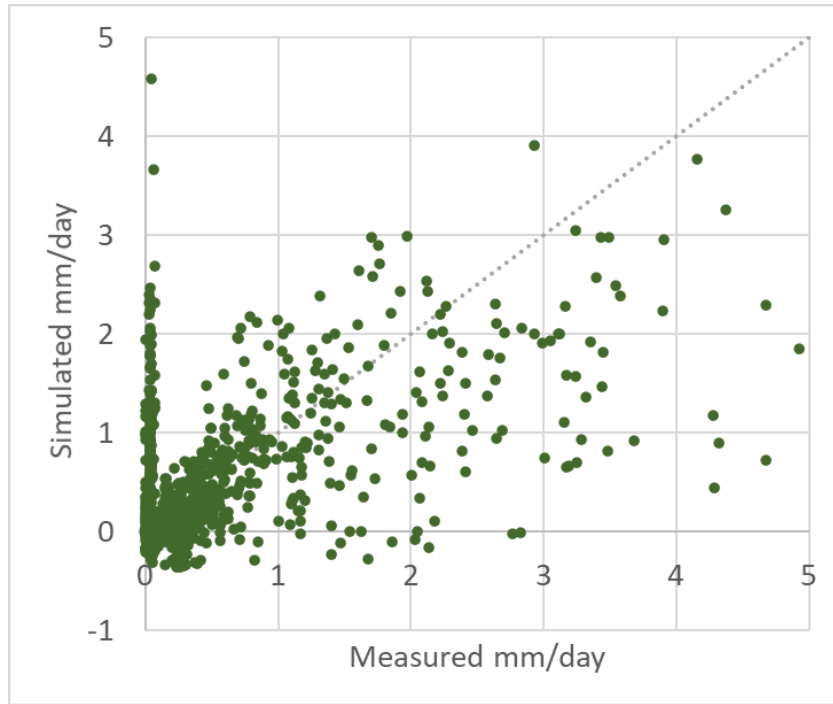
Bodemeigenschappen per laag



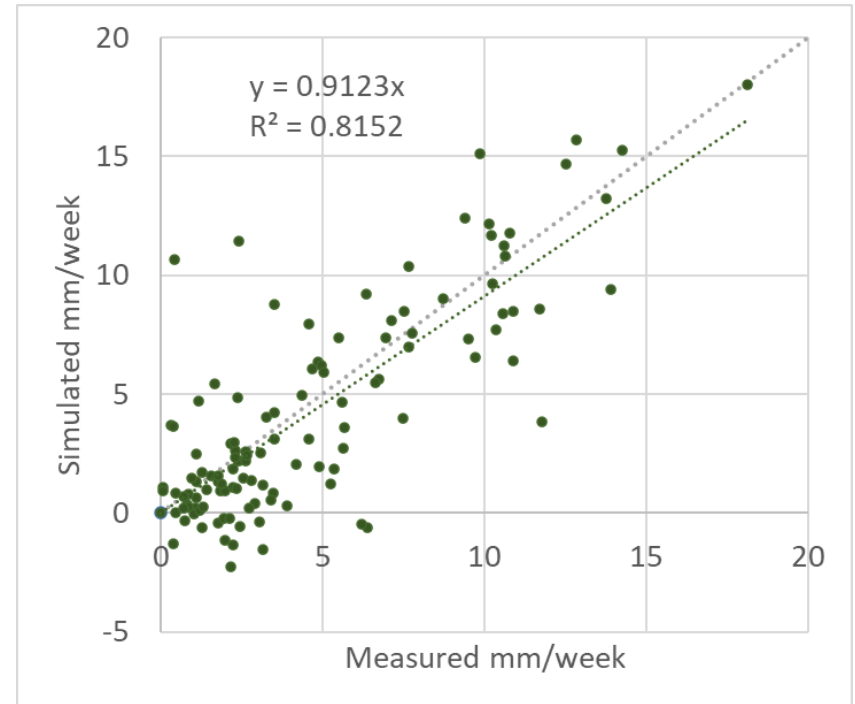
Klei kan meer water bevatten dan zandgrond



Vergelijking VL met L



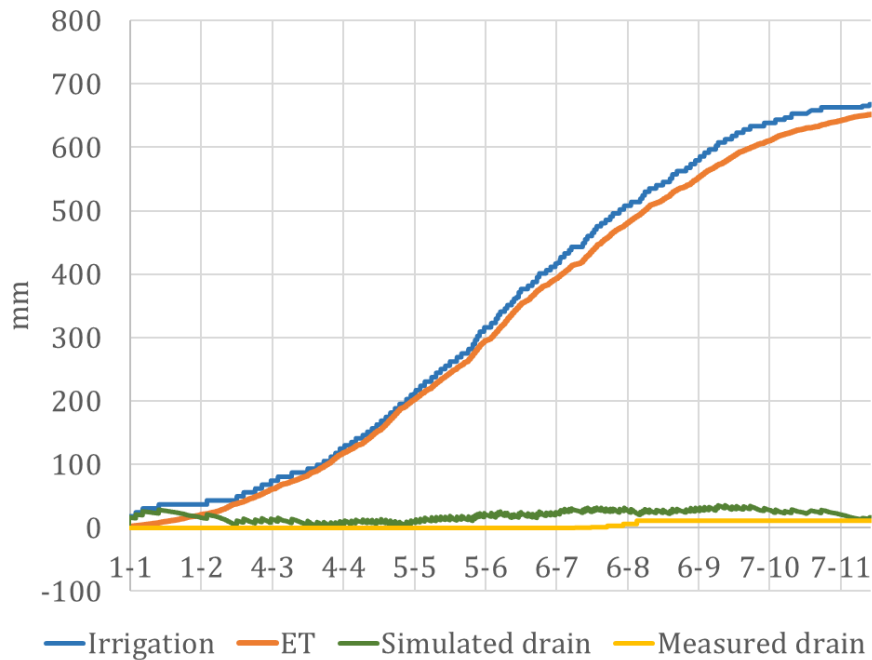
Dagelijks



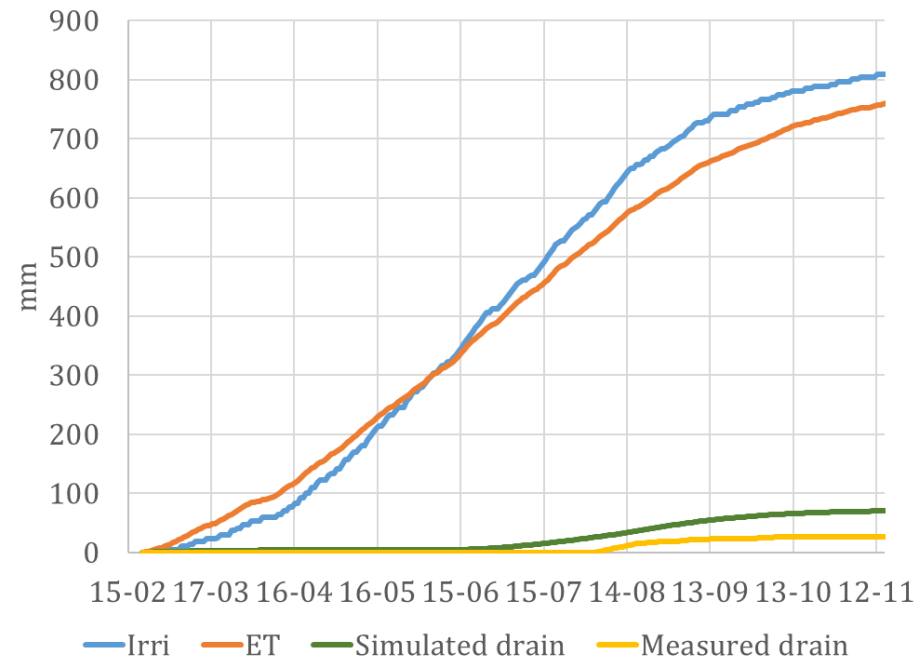
Wekelijks

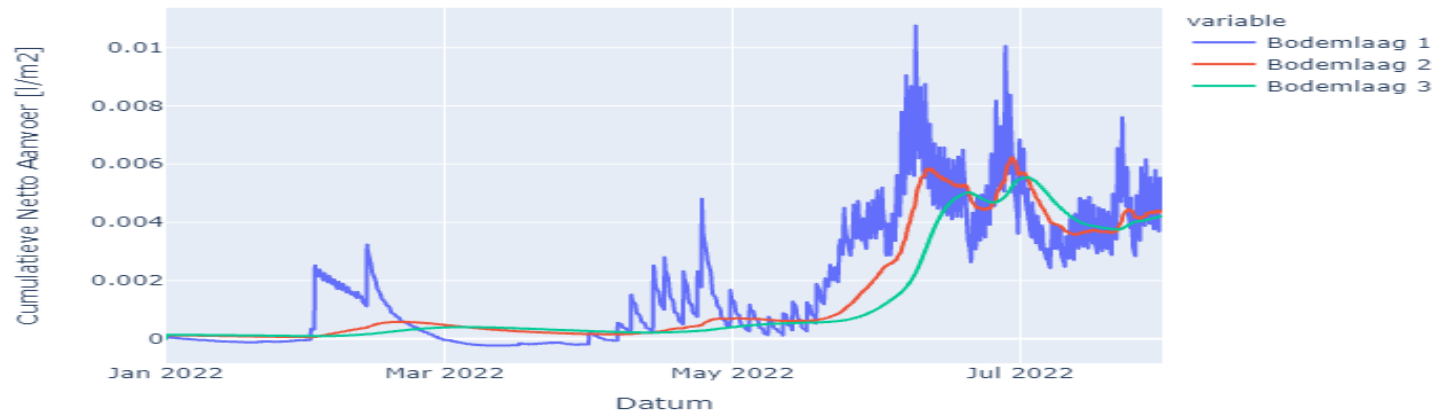
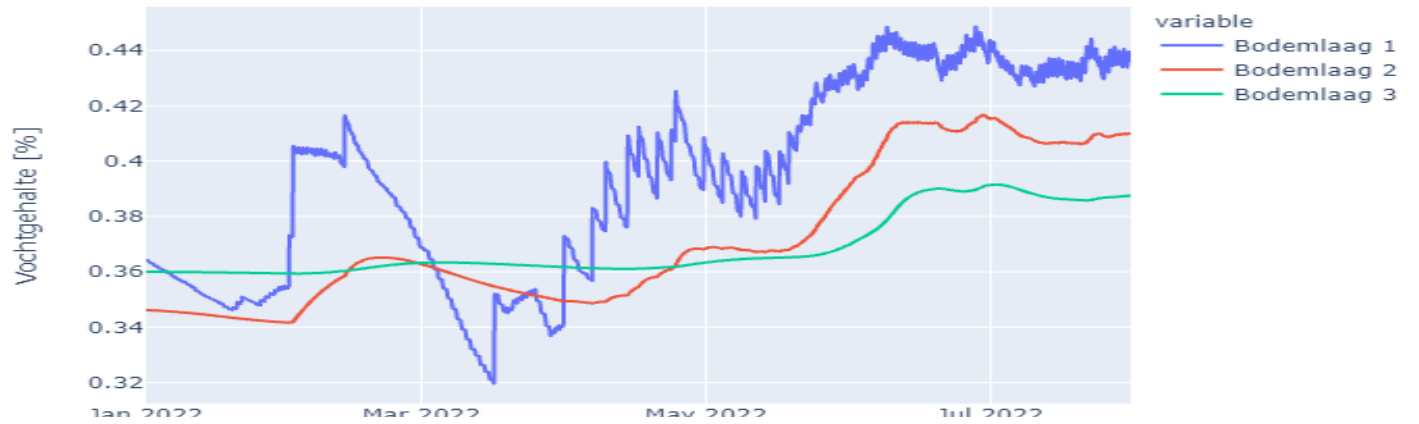
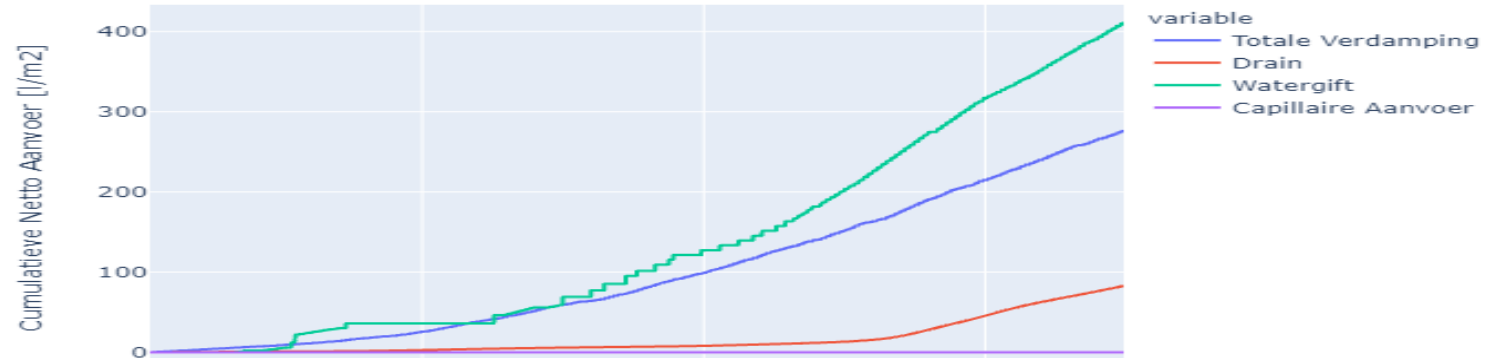
■ Bioteelt, Velden

paprika (2021)

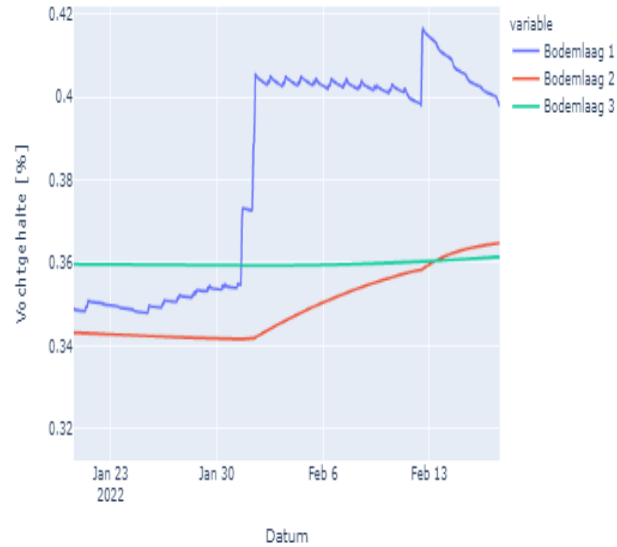
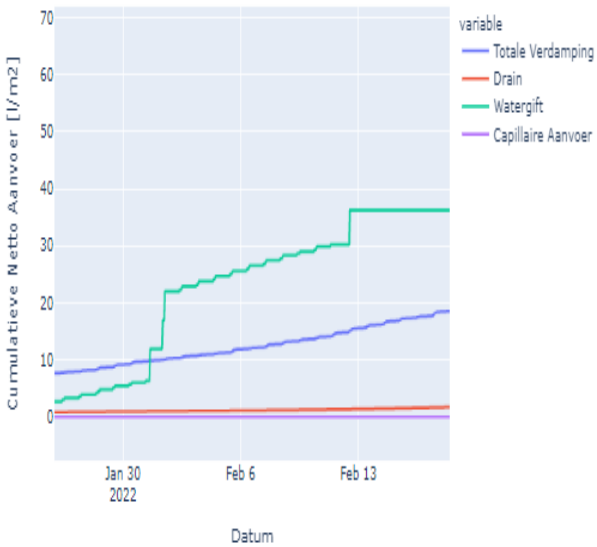


Tomaat (2022)

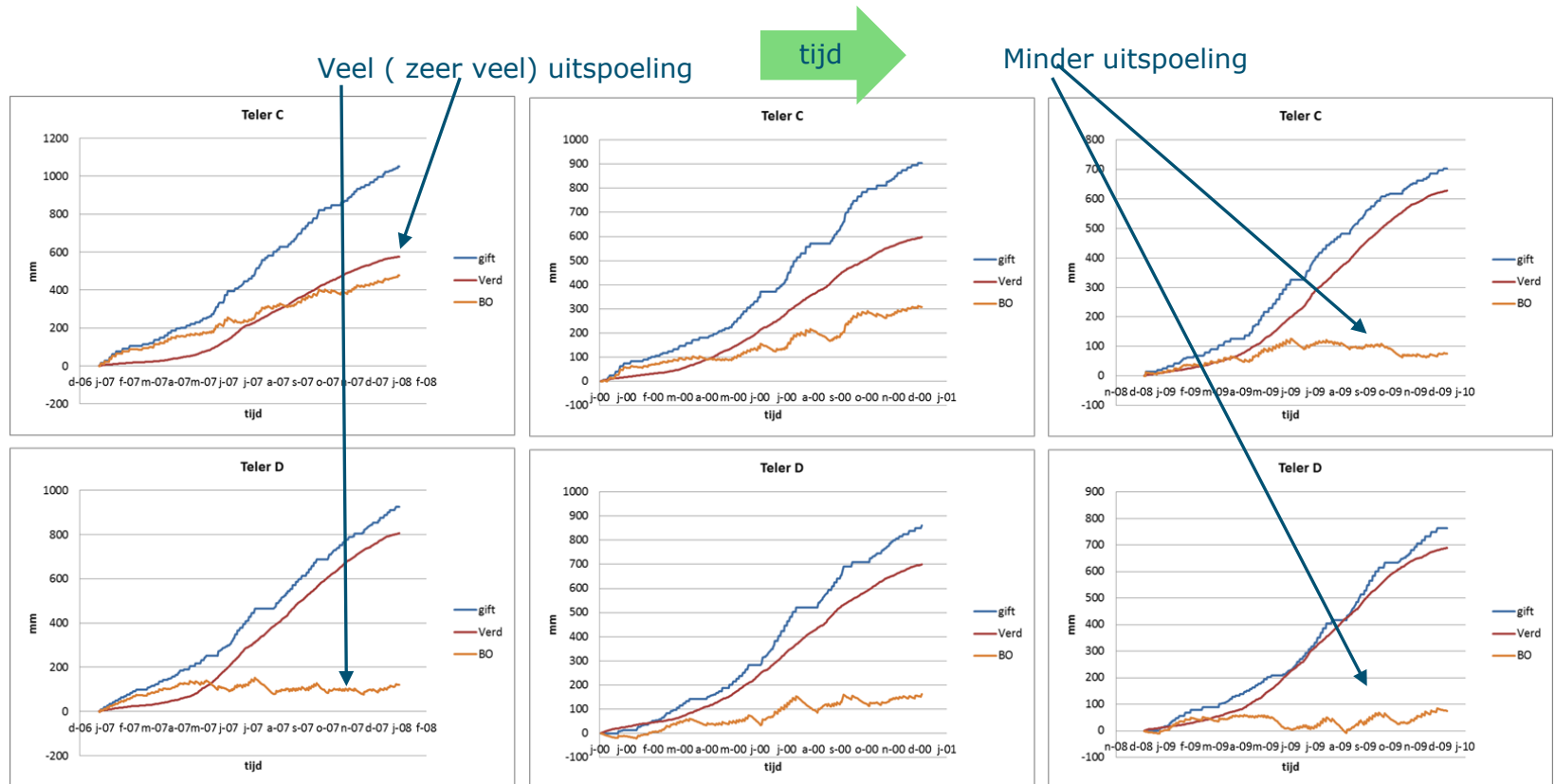




Ingezoomed



Resultaten implementatie: Voortschrijdend inzicht



Module Nutrienten

Balansmodel

Invoerdata:
Gewas plant/oogstdatum
Mestrecept
Geschate oogst kg/m²

Klimaatcomputer
Watergift
EC gift
Drain menging
(% of EC)

Aanvoerposten
Irrigatie
Bemestingsrecept
Basisbemesting

Gewasafvoer

Kengetallen :
mineralenopname

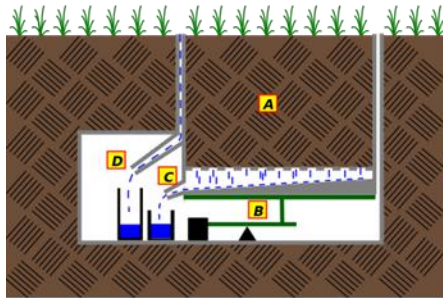
Bodem
gegevens
(reeds in
VL)
analysecij
fers

Bodem

Bodemconcentratie NO₃, P

Potentiele afvoer kg/ha N

Module vochtsensoren



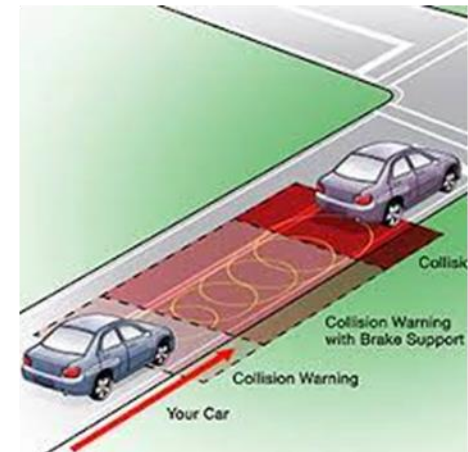
Virtuele Lysimeter

Dagelijks management, op basis van watergiften, klimaatdata en plant/bodemmodellen



Uitspoelingswaarschuwing

Noodstop op basis van een onafhankelijke waarneming in de bodem



Aangepaste planning

Planning ECONUTRI	2023				2024				2025				2026						
	<i>k</i> :kwartaal, <i>h</i> : half jaar	k1	k2	k3	k4		k1	k2	k3	k4		k1	k2	k3	k4	k1	k2		
Aansluiten telers																			
Validatie bestaande bedrijven																			
module nutriëntenbeheer																			
validatie																			
module vochtsensoren																			
validatie																			
integratie																			
Implementatie																			
Communicatie/demosntratie																			

Vragen ?

