

15. BEREGENINGSSIGNAAL

FAIRWAY partner: Koos Verloop (Wageningen University and Research, NL)

Brief description

Irrigation management. Online meteorological data on precipitation and field data are processed to give the need for irrigation on the individual fields. Recommendations on the optimal rate prevents excess irrigation which could enhance leaching and facilitates preservation of the optimal level of water content in soil, resulting in higher N uptake and better utilization of fertilizer N.

Contaminants covered (e.g. nitrate, pesticides etc.)	Leaching of N
Intended end users (e.g. farmer, water quality manager, policy maker)	Farmers and advisors
Level of expertise and/or training required	Low
Geographical resolution (e.g. field, catchment, national)	Field scale
Temporal resolution (e.g. daily, annual, long-term).	Daily
Real-time component (e.g. live weather data, soil moisture data feeds etc.)	Live weather data
Number and type of mitigation measures included	Water use and irrigation based on live weather data
Platform (e.g. paper-based tool, phone app, bespoke software).	Bespoke software (in Dutch)
Frequency of updates	Updated whenever needed (annually)
Cost/availability	Commercial software
Number of users or number of copies distributed/downloaded/purchased	Approx. 200 farmers
Links to demo material and other relevant information (e.g. user guides).	Not available
Additional comments	

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Input data required to run the DST	- Meteorological: precipitation, potential evapotranspiration (both historically and predicted) - Groundwater level - Crop - Root depth - Price of forage and foraging stock in case of grassland
Outputs (including links to water quality and economic or financial aspects)	- Moisture content of the rootzone - Irrigation advice with grassland renewal as a risk factor in the consideration of whether or not to irrigate - irrigation gift
Age/provenance of supporting data used to develop the DST	Not reported
Country-specific calibration or data requirements (including restrictions on use)	Soil characterisation
Details of validation and testing	Not reported
Date developed/released (or planned release date)	First developed c.1991. Current version released January 2017.
Author/developer names and affiliations	Hoving (ASG, WUR)
Member state(s) where developed	NL
Member State(s) where currently used	NL
Key publication references	https://edepot.wur.nl/336249

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Any other useful information (e.g. screenshots of DST input/outputs)

