

14. ADVIESBASIS CBGV

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

Brief description

Advice on fertilization N, P and other elements for grass and fodder crops (maize). Fertilizer and manure N, P rates and rates of other elements are recommended. The recommendations are widely used by farm advisers. Generally the recommendations are tuned to optimal rates from an economical point of view. That is the higher N or P rates, the lower the recovery and thus high rates are not cost-effective anymore. The optimum is the rate that is just below the point where recovery drops. This is also the point above which risks for leaching increase. It is explained in the text how the recommendations can be adjusted to legal limitations in order to limit environmental impact

Contaminants covered (e.g. nitrate, pesticides etc.)	N, P, K
Intended end users (e.g. farmer, water quality manager, policy maker)	Farmers and advisors
Level of expertise and/or training required	No particular training required for a professional agronomist
Geographical resolution (e.g. field, catchment, national)	National scale; differentiated for soil type and geohydrological situations.
Temporal resolution (e.g. daily, annual, long-term).	Annual/for grassland per cut
Real-time component (e.g. live weather data, soil moisture data feeds etc.)	None
Number and type of mitigation measures included	Not specified.
Platform (e.g. paper-based tool, phone app, bespoke software).	Paper-based, also available by internet Dutch
Frequency of updates	Updated whenever needed
Cost/availability	Free
Number of users or number of copies distributed/downloaded/purchased	According to website monitor 4000 visitors per year in 2020/2021
Links to demo material and other relevant information (e.g. user guides).	Not available
Additional comments	This is not farm specific but commonly used. This tool is not explicitly related to nitrate, but it is generally accepted that many problems concerning nitrate leaching could be avoided provided that fertilizer recommendations would be followed (more) closely by farmers. That is why it was considered relevant in the frame of DSTs. It is explained in the text how the recommendations can be adjusted to legal limitations in order to limit environmental impact.

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Input data required to run the DST	None	
Outputs (including links to water quality and economic or financial aspects)	Fertilizer recommendations (rates N, P, K etcetera) for grassland and maize and other fodder crops. Recommendations are soil specific and are differentiated for hydrological conditions	
Age/provenance of supporting data used to develop the DST	Not specified (many field trials). Depends on nutrient.	
Country-specific calibration or data requirements (including restrictions on use)	Fertilizer recommendations (rates N, P, K etcetera) for grassland and maize. Recommendations are soil specific and are differentiated for hydrological conditions	
Details of validation and testing	Field trials are the basis for recommendations for the macronutrients (NPK). For other nutrients depends on availability of data, some on field trials, some on literature.	
Date developed/released (or planned release date)	Not given, updates are provided annually. Committee with researchers, farmers, person from extension service and representatives from farmers' organisation keeps recommendations up to date if new information is available.	
Author/developer names and affiliations	CBGV, secr. Van Middelkoop (Wageningen UR). CBGV supported by LTO, Zuivel NL (farmers' organisations)	
Member state(s) where developed	NL	
Member State(s) where currently used	NL	
Key publication references	https://www.bemestingsadvies.nl/nl/bemestingsadvies.htm	

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