

17. BODEMCONDITIESCORE

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

Brief description

Visual soil examination and evaluation. A semi-quantitative method that provides rapid information on soil quality, referring to soil texture, structure and biological activity.

Contaminants covered (e.g. nitrate, pesticides etc.)	N, P, Pesticides
Intended end users (e.g. farmer, water quality manager, policy maker)	Farmers and advisers
Level of expertise and/or training required	Field training
Geographical resolution (e.g. field, catchment, national)	Field scale
Temporal resolution (e.g. daily, annual, long-term).	Annual
Real-time component (e.g. live weather data, soil moisture data feeds etc.)	Live weather data
Number and type of mitigation measures included	Regional advise on pest population dynamics based on weekly field scouting
Platform (e.g. paper-based tool, phone app, bespoke software).	Online tool supported by downloads (in Dutch but based on the Visual Soil Assessment of Shepherd see also http://www.fao.org/tempref/docrep/fao/010/i0007e/i0007e06.pdf)
Frequency of updates	Updated weekly during the growth season
Cost/availability	No costs, freely available
Number of users or number of copies distributed/downloaded/purchased	500-1000.
Links to demo material and other relevant information (e.g. user guides).	http://www.mijnbodemconditie.nl/over-mijnbodemconditie
Additional comments	This is commonly used on project meetings with dairy farmers

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Input data required to run the DST	Visual observations on sod density (sprouts per cm ²), botanical composition of grass sod, soil density, biological activity, abundance of macro fauna, rooting depth. Optionally also chemical quality of the grass and maize silage	
Outputs (including links to water quality and economic or financial aspects)	Judgement of soil quality in terms of structure, texture, soil life	
Age/provenance of supporting data used to develop the DST	Several databases are used for the several prototypes	
Country-specific calibration or data requirements (including restrictions on use)	Visual soil quality assessment should be adjusted for each region to optimally cover regional soil characteristics and its agronomic judgment	
Details of validation and testing	None supplied	
Date developed/released (or planned release date)	2014	
Author/developer names and affiliations	Shepherd, adjusted by Sonneveld (WUR), applied by Van Eekeren (Louis Bolk).	
Member state(s) where developed	NL	
Member State(s) where currently used	NL	
Key publication references	Sonneveld, M. P. W., Heuvelink, G. B. M. & Moolenaar S.W. (2014). Application of a visual soil examination and evaluation technique at site and farm level. Soil Use and Management, 30, 263–271. http://mijnbodemconditie.nl/images/pdf/sum12117.pdf Maricke M.W.J. van Leeuwen, Gerard B.M. Heuvelink, Jacob Wallinga, Imke J.M. de Boer, Jos C. van Dam, Everhard A. van Essen, Simon W. Moolenaar, Frank P.M. Verhoeven, Jetse J. Stoorvogel, Cathelijne R. Stoof. 2018. Visual soil evaluation: reproducibility and correlation with standard measurements. Soil& Tillage Research 178, 167-178.	

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



MijnBodemconditie: Bedrijfsmeting

De BodemConditieScore online uitrekenen? Ga dan naar www.mijnbodemconditie.nl

1 Gegevens bedrijf

Naam bedrijf Plaats
Datum Naam uitvoerder

Perceel/volgnummer [1]

Oppervlakte [ha] [1]

Positie bodemkulten /GPS coörd. W

/GPS coörd. N

Bodemtype [2]

Gewascode [3]

1	2	3	4	5	6

[1] Zie gecombineerde opgave gewassen Ministerie EZ [2] 1 = zware klei 2 = lichte klei 3 = zwak lamig zand 4 = sterk lamig zand 5 = veen
[3] 259 = maïs rotatie, 259c = maïs continu, 266 = tijdelijk gras (<6 jaar), 265 = permanent gras

2 Bodemanalyse

Zuurgraad [pH-CaCl₂] [4]

Organische Stof (%) [4]

1	2	3	4	5	6

[4] Zie bodemanalyse perceel, indien aanwezig, anders inschatten

3 BodemConditieScore (BCS)

Score x Wegingsfactor [0 = onvoldoende, 1 = matig, 2 = goed]

	Wegingsfactor	1	2	3	4	5	6
1 Gewasbedekking	2						
2 Beworteling	3						
3 Verdichting ondergrond 20-40 cm	3						
4 Regenwormen	3						
5 Bodemstructuur	3						
6 Zuurgraad [pH]	3						
7 Organische stof (kleur)	3						
8 Aantal gekleurde vlekken	1						

4 Aanvullende waarnemingen

Is seizoensafhankelijk en worden negatief beoordeeld

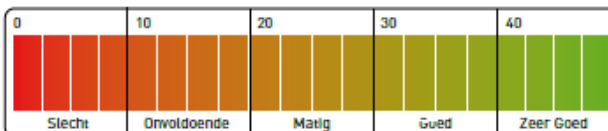
Score x Wegingsfactor [0 = geen, 1 = matig, 2 = veel]

		1	2	3	4	5	6
9 Plasvorming	-2						
10 Scheuren	-1						
11 Spoorvorming / verlapping	-1						
Totaal BodemConditieScore							

5 Resultaten

BodemConditieScore:

Verdeel de scores over de meetlat



6 Opmerkingen



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AQUATOR
green & ruimte