

Soil Carbon Check

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Example report
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Analysis	Investigation/ordernr:	Date sampling:	Date report:
	700577/003709650	06-02-2024	19-02-2024

1. How much carbon is captured in my soil?

		kg per hectare	ton per hectare
Soil organic carbon (SOC)	3,18 %	99296	99,3
this equals			
Carbon dioxide (CO ₂)		364416	364,4

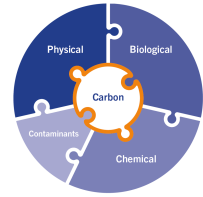
2. How stable is my soil carbon?

Soil organic matter (SOM)	5,5 %	171740	171,7
Carbon percentage in soil organic matter is	58 %		
Soil organic carbon (SOC)	3,18 %		
Soil inorganic carbon (SIC)	0,04 %		
Total Carbon (TC)	3,2 %		
Active carbon	817 mg per kg		
Active carbon percentage of SOC	2,6 %		
C/N ratio	16		
C/S ratio	118		
Clay (<2 µm)	2 %		
Clay/carbon ratio	0,6		

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Towards 4‰ soil carbon increase

If the amount of carbon stored by soils increases by 4 per 1000 (so 0.4% or 4‰) per year, the annual increase of carbon dioxide (CO₂) in the atmosphere would be significantly reduced. This will slow down the greenhouse effect and prevent further climate change, as agreed in (among others) the Paris climate agreement (COP 21).



3. How can I improve soil carbon by 4 per 1000?

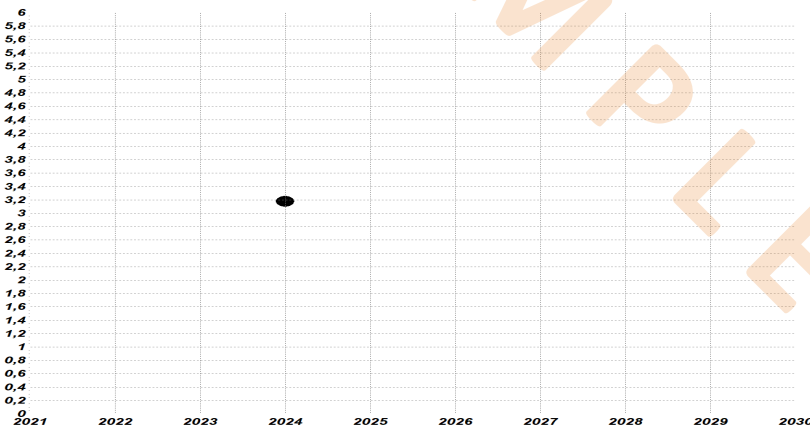
Soil Organic Carbon Balance



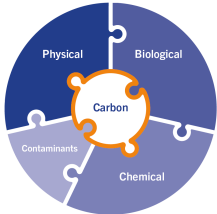
Current soil carbon status	99296	kg C per ha	364,4	ton CO ₂ per ha
Output: expected breakdown (mineralisation)	2475	kg C per ha	9,1	ton CO ₂ per ha
Input: needed to maintain soil organic carbon status	2475	kg C per ha	9,1	ton CO ₂ per ha
Input: additional input needed to improve by 4 per 1000	397	kg C per ha	1,5	ton CO ₂ per ha
Total required carbon input	2872	kg C per ha	10,6	ton CO ₂ per ha

4. How is my soil carbon content developing over time?

Soil organic carbon, %



Contact & info	Soil layer: Sample was taken by: Contact sample taking: Sampling method:	0 - 25 cm Eurofins Agro, Monsternemer Klantenservice Agro: 0888761010 W-pattern, at least 40 sub samples, according to Eurofins Agro standard MIN 1000
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Method		Result	Unit	Method	RvA
Results	Total nitrogen stock	1940	mg N/kg	Em: NIRS	Q
analyses	Total sulphur stock	270	mg S/kg	Em: NIRS	Q
	C-organic	3,18	%	Em: NIRS	Q
	Organic matter	5,5	%	Em: NIRS	Q
	C-inorganic	0,04	%	Em: NIRS	
	C-active	817	mg/kg		
	Clay (<2 µm)	2	%	Em: NIRS	
	Bulk density	1249	kg/m³	Em: NIRS	

Q Method accredited by RvA
Em: Method Eurofins Agro, Gw: Equivalent of, Cf: In conformity with

Results are reported in dry soil.
The analyses were done at Eurofins Agro, Wageningen (NL).
The results relate exclusively to the sample taken and received by Eurofins Agro, and to the material processed on 07-02-2024, and therefore to the sample analysed. For a detailed description of the sampling and analysis methods used, visit www.eurofins-agro.com

EXAMPLE