

Fertilization advice

field 9 limited

Eurofins Agro  
 Binnenhaven 5  
 NL - 6709 PD Wageningen  
 The Netherlands  
 T sampling: Klantenservice Agro: 0888761010  
 T customerservice: +31 (0)88 876 1010  
 E customerservice@eurofins-agro.com  
 I www.eurofins-agro.com

Example report  
 P.O. Box 170  
 6700 AD WAGENINGEN  
 The Netherlands

**Analysis** Investigation/ordernr: 700458/003709403 Date sampling: 01-11-2023 Date report: 14-11-2023

Results	Unit	Result	Target value	low	rath.low	good	rath.high	high	
Chemical	Total N stock	kg N/ha	3060	2490 - 3730					
	C/N ratio		15	13 - 17					
	N-supplying capacity	kg N/ha	160	95 - 145					
	Total S stock	kg S/ha	565	545 - 1010					
	C/S ratio		78	50 - 75					
	S-supplying capacity	kg S/ha	8	20 - 30					
	P-plant available	kg P/ha	2,4	2,3 - 3,8					
	P-soil stock	kg P/ha	130	195 - 250					
	K-plant available	kg K/ha	70	90 - 140					
	K-soil stock	kg K/ha	205	130 - 215					
Physical	Mg-plant available	kg Mg/ha	280	90 - 140					
	Acidity (pH)		5,8	5,5 - 6,1					
	C-organic	%	3,48						
	Organic matter	%	6,1						
	Clay (<2 µm)	%	1						

**Fertilisation recommendations**

The result is compared with an agricultural target value and is categorized as low, rather low, good, rather high high. This is not an appreciation as meant in ISO 17025 (par. 7.8.6).

**Legislation**

The fertilisation recommendations aim to achieve an agronomical optimum yield and crop quality. The recommendations do not take any legal restrictions into consideration.

**Recommendat.** Crop: Grass clover

**Recommend.** Recommend. Unit

**Soil-based recommendation (for the coming 4 years)**

Phosphate (P <sub>2</sub> O <sub>5</sub> )	150	kg/ha	When recommendations are high, it is advised to split the amount during the 4 years, for instance supply half the amount biannually. The soil based recommendation is meant to level the soil stocks of phosphorus, potassium, calcium and magnesium to the required amounts.
Potassium (K <sub>2</sub> O)	0	kg/ha	
Lime (nw)	0	kg/ha	

The lime gift is based on an optimal pH of 5,8  
 For every tenth increase in pH a lime gift is required of 115 kg/ha.

## field 9 limited

Recommend.	Situation	1st cut	2nd cut	Additional cuts	
<b>Crop-based recommendation (annual)</b>					
in kg/ha	Nitrogen (N)	unlimited grazing	55	15	10
		limited grazing	70	25	15
		light mowing	75	45	20
		regular mowing	85	60	30
Sulphate (SO <sub>3</sub> )		0	0		
	Phosphate (P <sub>2</sub> O <sub>5</sub> )	unlimited grazing	30	5	0
		limited grazing	30	10	0
		light mowing	30	10	10
		regular mowing	30	20	15
	Potassium (K <sub>2</sub> O)	unlimited grazing	60	15	0
		limited grazing	60	80	0
		light mowing	100	65	45
		regular mowing	140	95	70
Magnesium (MgO)		5	5		

**Crop based recommendation**

The crop-based recommendation is based upon the crop needs, average yields and climatic conditions and is corrected for soil nutrient stocks and the soil supplying capacity. During the growing season the SoilCropMonitor can be used for fertilization adjustments.

For continuous grazing use the recommendation for unlimited grazing.

With light mowing we assume a yield of maximum 2500 kg dm/ha; for regular mowing we assume a yield of minimum 3000 kg dm/ha. The regular mowing recommendation is based upon a maximum of 5 cuts; the light mowing recommendation is based upon more cuts.

**Explanation** The results and/or the recommendations of this analysis are valid until 2027  
For more information please use the following link:  
<https://www.eurofins-agro.com/en/soil-analysis-explanation>

The soil based recommendation aims to maintain the soil nutrient stocks. The K, Ca and Mg recommendation will optimize the balance at the cation-exchange-capacity (CEC). It is advised to spread the soil based recommendation for nutrients and lime application across a 4 year period. When you have applied the soil based recommendation a new soil based analysis can be used to update the concentration of the nutrient stocks.

The crop based fertilization will feed the crop and improve its quality. Due to higher/lower yields and possible losses (e.g leaching) the amount of plant available nutrients can fluctuate. Therefore, we advise you to carry out a crop based analysis (Culture analysis) to determine the actual amount of available nutrients and to update the fertilization recommendations.

Look carefully at the appreciation of the nutrients on page 1. If the target values indicate that one or more nutrient quantities are very low, consult your advisor to level these quantities.

**Nitrogen:**

The N-recommendation by cut is based on an expected yearly dose of: 220 kg N/ha.

**Sulphur:**

Sulphur (S) is released by the degradation (mineralisation) of organic matter or manure. This mineralisation is performed by soil organisms. Soil organisms are not very active under colder conditions, which means not much S is released from the soil early in the spring. Therefore, it is sensible to fertilise with S for many early crops, even if the soil content is good or high.

**Phosphate:****Potassium:**

**Contact & info** Soil layer: 0 - 10 cm  
Sample was taken by: Eurofins Agro, Monsternemer  
Contact sample taking: Klantenservice Agro: 0888761010  
Sampling method: W-pattern, at least 40 sub samples, according to Eurofins Agro standard MIN 1000

If the following information is shown in the reports, this information may have been provided by the client and may affect the valuation, advice and/or analysis result:  
sampling depth, crop, culture.

## field 9 limited

Method	Result	Unit	Method	RvA	
Results analyses	Total nitrogen stock	2400	mg N/kg	Em: NIRS	Q
	Total sulphur stock	445	mg S/kg	Em: NIRS	Q
	P-plant available	1,9	mg P/kg	Em: CCL3 (Gw NEN 15923-1)	Q
	P-soil stock	23	mg P <sub>2</sub> O <sub>5</sub> /100 g	PAL1: Gw NEN 5793	Q
	P-soil stock	10	mg P/100 g	PAL1: Gw NEN 5793	Q
	K-plant available	53	mg K/kg	Em: CCL3 (Gw NEN 17294-2)	
	K-soil stock	4,1	mmol+/kg	Em: NIRS	
	Mg-plant available	220	mg Mg/kg	Em: CCL3 (Gw NEN 17294-2)	
	Acidity (pH)	5,8		Em: NIRS	
	C-organic	3,48	%	Em: NIRS	Q
	Organic matter	6,1	%	Em: NIRS	Q
	Clay (<2 µm)	1	%	Em: NIRS	
	Bulk density	1274	kg/m <sup>3</sup>	Em: NIRS	

The values stated on page 1 and 2 under 'Result' are calculated from the above mentioned analysis results.

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 02-11-2023, and therefore to the sample analysed. For a detailed description of the sampling and analysis methods used, visit [www.eurofins-agro.com](http://www.eurofins-agro.com)

EXAMPLE