

## Fertilization advice

field 5 limited

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Example report  
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**Analysis** Investigation/ordernr: 700457/003709402 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  | 3090         | 2690 - 4030 |          |      |           |      |
|          | C/N ratio            |          | 15           | 13 - 17     |          |      |           |      |
|          | N-supplying capacity | kg N/ha  | 40           | 95 - 145    |          |      |           |      |
|          | Total S stock        | kg S/ha  | 605          | 590 - 1090  |          |      |           |      |
|          | C/S ratio            |          | 75           | 50 - 75     |          |      |           |      |
|          | S-supplying capacity | kg S/ha  | 8            | 20 - 30     |          |      |           |      |
| Physical | P-plant available    | kg P/ha  | 10,8         | 6,0 - 10,1  |          |      |           |      |
|          | P-soil stock         | kg P/ha  | 675          | 515 - 660   |          |      |           |      |
|          | K-plant available    | kg K/ha  | 140          | 235 - 370   |          |      |           |      |
|          | K-soil stock         | kg K/ha  | 540          | 340 - 565   |          |      |           |      |
|          | Mg-plant available   | kg Mg/ha | 170          | 235 - 370   |          |      |           |      |
|          | Acidity (pH)         |          | 5,3          | 5,6 - 6,2   |          |      |           |      |
|          | C-organic            | %        | 1,35         |             |          |      |           |      |
|          | Organic matter       | %        | 2,5          |             |          |      |           |      |
|          | Clay (<2 µm)         | %        | 2            |             |          |      |           |      |

**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.

**Recommend.** Recommend. Unit

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

|                                            |      |       |
|--------------------------------------------|------|-------|
| Phosphate (P <sub>2</sub> O <sub>5</sub> ) | 0    | kg/ha |
| Potassium (K <sub>2</sub> O)               | 0    | kg/ha |
| Lime (nw)                                  | 1135 | 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.

The lime gift is based on an optimal pH of 5,9  
 For every tenth increase in pH a lime gift is required of 190 kg/ha.

field 5 limited

| Recommend.                                | Crop                                       | Culture            | Recommendation |
|-------------------------------------------|--------------------------------------------|--------------------|----------------|
| <b>Crop-based recommendation (annual)</b> |                                            |                    |                |
| in kg/ha                                  | Nitrogen (N)                               | Ware potatoes      | 248            |
|                                           |                                            | Temporary pasture  | 104            |
|                                           |                                            | Sugarbeet          | 144            |
|                                           |                                            | Winter wheat       | 200            |
|                                           |                                            | Spring-sown onions | 88             |
|                                           |                                            | Spring rye         | 88             |
|                                           | Sulphate (SO <sub>3</sub> )                | Ware potatoes      | 0              |
|                                           |                                            | Temporary pasture  | 0              |
|                                           |                                            | Sugarbeet          | 0              |
|                                           |                                            | Winter wheat       | 35             |
|                                           |                                            | Spring-sown onions | 0              |
|                                           |                                            | Spring rye         | 0              |
|                                           | Phosphate (P <sub>2</sub> O <sub>5</sub> ) | Ware potatoes      | 15             |
|                                           |                                            | Temporary pasture  | 5              |
|                                           |                                            | Sugarbeet          | 15             |
|                                           |                                            | Winter wheat       | 10             |
|                                           |                                            | Spring-sown onions | 10             |
|                                           |                                            | Spring rye         | 10             |
|                                           | Potassium (K <sub>2</sub> O)               | Ware potatoes      | 325            |
|                                           |                                            | Temporary pasture  | 110            |
|                                           |                                            | Sugarbeet          | 165            |
|                                           |                                            | Winter wheat       | 120            |
|                                           |                                            | Spring-sown onions | 135            |
|                                           |                                            | Spring rye         | 85             |
|                                           | Magnesium (MgO)                            | Ware potatoes      | 10             |
|                                           |                                            | Temporary pasture  | 0              |
|                                           |                                            | Sugarbeet          | 0              |
|                                           |                                            | Winter wheat       | 0              |
|                                           |                                            | Spring-sown onions | 0              |
|                                           |                                            | Spring rye         | 0              |

**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.

## field 5 limited

**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.

We have assumed the following yields, when calculating the crop based recommendations:

|                    |      |
|--------------------|------|
| Ware potatoes      | 50,0 |
| Temporary pasture  | 6,6  |
| Sugarbeet          | 82,0 |
| Winter wheat       | 9,0  |
| Spring-sown onions | 49,0 |
| Spring rye         | 3,5  |

When your yield differentiates from the above, it is recommended to adjust your fertilization accordingly

**Nitrogen:**

The N recommendation relates to an annual dose. If possible, we recommend splitting this N dose into several applications. You can use our SoilCheck soil test in season to determine whether subsequent applications are necessary. This test measures the plant-available N (mineral N) in the soil among other things.

**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:****Lime:**

Give the lime prior to the most lime needing crop.

Note: with liming calcium and magnesium can be added.

**Contact & info**

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| Soil layer:              | 0 - 25 cm                                                                        |
| Calculated bulk density: | 1344 kg/m <sup>3</sup>                                                           |
| 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.

| Method   | Result               | Unit | Method                                  | RvA |
|----------|----------------------|------|-----------------------------------------|-----|
| Results  | Total nitrogen stock | 920  | mg N/kg                                 | Q   |
| analyses | Total sulphur stock  | 180  | mg S/kg                                 | Q   |
|          | P-plant available    | 3,2  | mg P/kg                                 | Q   |
|          | P-soil stock         | 46   | mg P <sub>2</sub> O <sub>5</sub> /100 g | Q   |
|          | P-soil stock         | 20   | mg P/100 g                              | Q   |
|          | K-plant available    | 41   | mg K/kg                                 | Q   |
|          | K-soil stock         | 4,1  | mmol+/kg                                | Q   |
|          | Mg-plant available   | 50   | mg Mg/kg                                | Q   |
|          | Acidity (pH)         | 5,3  |                                         |     |
|          | C-organic            | 1,35 | %                                       | Q   |
|          | Organic matter       | 2,5  | %                                       | Q   |
|          | Clay (<2 µm)         | 2    | %                                       | Q   |

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)