

# Danish nutrient management on German farms

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## BACK- GROUND & AIM

- Denmark has achieved great success in water protection in the past decades.
- Land size and farm structure of Denmark and Lower Saxony are quite comparable.
- Application of Danish fertilization legislation on farms in Lower Saxony by using a Danish Decision Support Tool
- **Do farms in Lower Saxony meet Danish requirements?**

## TEST FARMS

- located in southeast of Lower Saxony
- eight test farms (arable, pig dairy)
- different soils, moderate manure production
- data of the year 2018



**Mark Online** = Danish administration tool for agricultural farm management by SEGES



**Düngeplanung** = tool for holistic fertilization planning in Lower Saxony by LWK

## TOOLS USED

## RESULTS

### Danish fertilization legislation :

- Danish fertilization legislation is very transparent and nice to manage in practice. Farm-specific quota for N and P foster the efficient use of nutrients by relying on farmer's agronomic knowhows.
- Most defined values (fertilizing effect of manure, yield assumptions, etc.) are quite similar in Denmark and Germany.
- The dependency of yields on soil texture is of greater importance in Danish than in German legislation,

### Performance of Lower Saxony test farms:

- Most farmers comply with Danish
  - N-quota,
  - dynamic P-quota and
  - cover crop requirements.

