

Soil mapping with the Topsoil Mapper in practice

Focus: Mapping - Analysis of soil structures without soil contact



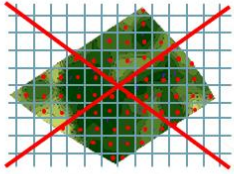
For our current user story we would like to introduce **FarmBlick** - a young company from Kraichtal-Oberacker near Karlsruhe. The managing directors Oliver Martin and Marius Sauer have acquired significant knowledge and experience in the field of Precision Farming over the years. They now support farmers with their know-how and work together with their customers to develop tailor-made solutions. In spring 2017 a Topsoil Mapper sensor was added to the FarmBlick machine park.

Why a Topsoil Mapper for FarmBlick?

Marius Sauer: "After many years of experience on our own farm, we quickly realized that the most important thing in precision farming is to "create facts". When looking for a device that easily and simply captures the differences in the ground, we learned about the Topsoil Mapper in 2015. The biggest advantage of this device for us: you do not have to drive with a jeep and a sled over the surfaces, but you have much more work efficiency through single pass operation."

Oliver Martin: "In 2016 we had the opportunity to test the sensor on numerous fields with a rental TSM. With our newly founded company FarmBlick we decided to acquire such a measuring system in 2017. Today we use the Topsoil Mapper to give our customers a first insight into the heterogeneity of their soil. Through the results of the measurements, the differences in fields can be quickly recognized and above all permanently recorded. As a rule, our customers confirm the maps with their experiences. On this basis, we now plan the second step, geo-referenced soil sampling."

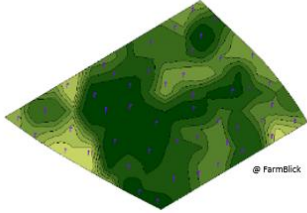
No more random sample points



Scan



Definition of sample points



Soil samples



Oliver Martin: "We take soil samples in predefined soil zones and can thus avoid that samples are falsified by mixing bad and good soil. This enables us to calculate precise soil maps for our customers, which can then be converted into application maps (e.g. fertilizer). Another aspect is site-specific sowing according to TSM data. The reliable display of the different soil types enables the precise consideration of the water retention capacity in the different zones. In a next step sowing for e.g. grain maize can be adapted accordingly."

From raw data to application maps



Especially in dry years, this process is key to achieve good yield results. Furthermore, the steering function of the Topsoil Mapper offers us the opportunity to provide a site-specific soil tillage service to our customers. The working depth of the implement is automatically adapted to the actual soil conditions (deeper/flatter). That saves diesel and time and reduces machine wear, without reducing the effect of tillage.



FarmBlick Uservideos:

Soil mapping: <https://youtu.be/zPHucLq3taE>

Soil stress measurement: <https://youtu.be/nvHvLYBP3xg>

Information about the company: <http://farmblick.de>

Field day (27.3.2018) focusing on „Increasing sustainability in agriculture by promoting soil biology and using modern technology.“