

TF Yield Map and TF Yield Forecast

The **TF Yield Map** and **TF Yield Forecast** for winter wheat, winter barley, rapeseed, maize and sugar beet provide absolute yield values in t/ha in a spatial resolution of 10x10m.

TF Yield Map

The **TF Yield Map** allows us to deliver high resolution information about the yield level at the harvest date retrospectively. Using meteorological data, a crop growth model and the assimilation of crop observations from satellite images of the respective harvest year, the **TF Yield Map** is deducted.

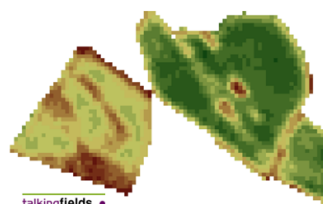
Validation takes place via comparison with yield maps of a combine harvester. In the following image, you can see on the left side the **TF Yield Map** and on the right side the results of the yield mapping using a GPS combine harvester.

The TF Yield Map:

- Delivers comprehensive yield information for winter wheat, winter barley, rapeseed, maize and sugar-beet in values of t/ha.
- Completes and substitutes existing yield maps, also in retrospective.
- Allows a consistent and comprehensive overview of the harvested areas.
- Allows yield mapping without having to harvest with specially equipped combine harvesters.

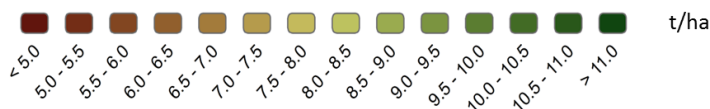
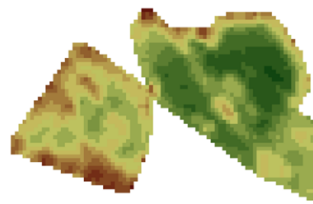
TF Yield Map

Ex post modelled yield for winter wheat, 2010



Yield Mapping result

Yield Mapping result, extreme values excluded



The spatial congruence of the **TF Yield Map** and the conventional yield mapping with the combine harvester is high.

Product name	Description	Recommended retail price in €/ha (excl. VAT)	Unit	Output format
TF Yield Map	Retrospectively, delivery at the earliest 4 weeks after harvest	12* € excl. VAT <small>* The price already includes the TF Biomass Card, as it is needed to generate the TF Yield Map</small>	t/ha	TF-XML, Point-Shape-Files, raster data

TF Yield Forecast

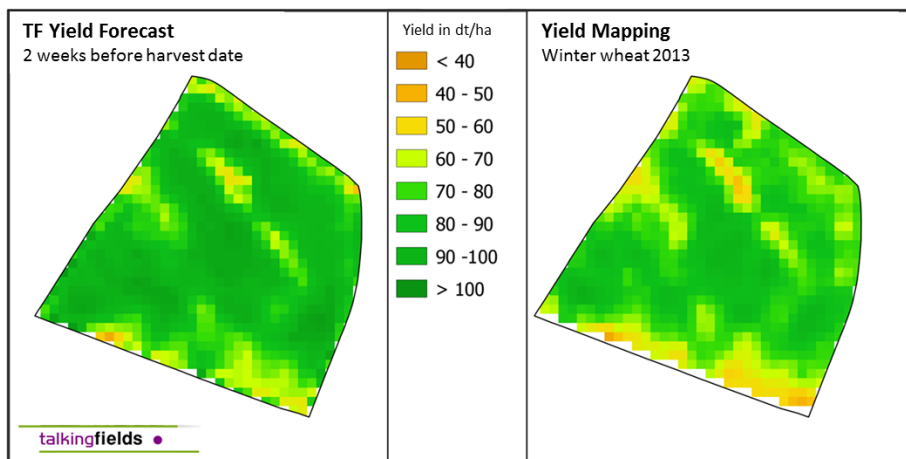
The **TF Yield Forecast** delivers a high-resolution yield forecast two to four weeks before the desired harvest date.

Via assimilation of satellite data, current weather forecasts as well as long-term weather observations into the crop growth model, grain yield can be derived even before the actual harvest date.

The **TF Yield Forecast** can serve as:

- Support for strategic contract negotiations.
- Effective management tool for harvest logistics and efficient factory utilization for the green energy industry.

The image shows an exemplary **TF Yield Forecast** two weeks before winter wheat harvest. Several satellite images during the vegetation period were used to model the crop growth and yield.



The **TF Yield Forecast** is currently available for Germany. If you wish to order the TF Yield Potential Map for other countries please contact us for further information

You receive the following products and services when ordering:

Product name	Description	Recommended retail price in €/ha (excl. VAT)	Unit	Output format
TF Yield Forecast	Yield Forecast 2 to 4 weeks before harvest date	18* € excl. VAT * The price already includes the TF Biomass Card, as it is needed to generate the TF Yield Forecast	t/ha	TF-XML, Point-Shape-Files, raster data

The delivery of the TF Yield Forecast includes:

- The TF Yield Forecast 2 – 4 weeks before harvest date
- Delivery in NEXT Farming^{OFFICE} compatible format, as point-shape or as raster data.