

Study site in Frauenfeld - Switzerland

Overall activities

- **WP3: Stakeholder involvement**
 - 2nd Workshop February 2017: Selection of soil-improving cropping systems for trial
 - May 2018: 3 meetings with farmers and relevant stakeholders (Selection of plots and test design)
 - Next workshop planned in end of 2018
- **WP4/5: Monitoring plan**
 - Environmental dimension: **June 2018**
(Baseline information and minimum data set in all 3 test plots, *additional*: SIMEOS AMG¹ & TASC²)
 - Socio-cultural dimension: **Autumn 2018**
 - Economic dimension: **Autumn 2018**
- **WP7: Policy Analysis**
 - SR 910.13 Direct payment ordinance: soil-improving requirements (**instrument**: Direct payments)
 - SR 814.12 Soil Damage Ordinance: erosion standards (**instrument**: Financial penalties non-compliance)
- **WP8: Dissemination**
 - Not yet started

Assessment of SICS

Test plot 1: Hagenwil bei Amriswil, Bio – grass verge & artificial meadow

Primary soil threat: compaction

Crop rotation: Grain maize + millet + soy + winter wheat 1 + **potatoes** + winter wheat 2

SICS: crop rotation + grass verge + artificial meadow + «control traffic» + soil loosening machines + minimum tillage + green manure

Control field: crop rotation + soil loosening machines + minimum tillage + green manure

Main crop considered in 2018: Potatoes (with grass verge in 2nd year)



Test plot 2: Felben-Wollhausen, IP

Primary soil threat: Nutrient leaching, humus decrease

Crop rotation: Meadow + silage maize + grain maize / Rye

SICS: CULTAN-procedure + minimum tillage

Control field: Green manure and liquid manure with drag house

Main crop considered in 2018: Silage maize



Test plot 3: Ellikon an der Thur, IP

Primary soil threat: Nutrient leaching, humus decrease + compaction

Crop rotation: Sugar beets + winter wheat + rape + potatoes + **winter wheat** / winter barley

SICS: Green manure + liquid manure + minimum tillage + «control traffic» + crop rotation

Control field: Glyphosate usage + conventional green manure + minimum tillage + control traffic + crop rotation

Main crop considered in 2018: Winter wheat



References: ¹SIMEOS AMG: Simulation tool for state of soil organic carbon. Ref.: Duparque A, et al. 2011. Le bilan humique AMG. Pour une démarche de conseil fondée sur des castypes régionaux. 10ème rencontre de la fertilisation raisonnée et de l'analyse. COMIFER-GEMAS ; Reims, 23–24 Novembre 2011.
²TASC: Tyres/tracks and soil compaction: TASC V3.0 – A practical tool to prevent soil compaction and soil failure damage in farming and forestry, E. Diserens, Agroscope, Switzerland.

The **SOILCARE** project is a 5 year project aimed at identifying and evaluating promising soil improving cropping systems and agronomic techniques increasing profitability and sustainability across scales in Europe.

The SOILCARE project consortium consist of 28 partner institutes from 10 European countries
The SOILCARE project is coordinated by ALTERRA, Wageningen UR, The Netherlands.

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