Title of Paper

OK-Net Arable online knowledge platform

Subtitle

Presenter Name

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Track: Scientific Track 3

Hall: B
OK-Net Arable
online knowledge platform

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farmknowledge.org
EIP-AGRI Focus Group Organic Farming
Optimising Arable Yields

• Poor soil fertility management
• Inadequate nutrient supply
• Insufficient weed management
• Pest and disease pressure
• Variety choice.
OK-Net Arable - exchange knowledge, enhance farming

Browse the knowledge base in one of the five themes:

- Soil quality and fertility
- Nutrient management
- Pest and disease control
- Weed management
- Crop specific

farmknowledge.org
Crop rotation and its ability to suppress perennial weeds

Preventive control of perennial weeds through weed-suppressing crop rotation

Related content from Organic Eprints
More about the tool on Organic Eprints

Link to the tool (Danish)

Problem
The problem of perennial weeds in organic arable farming

Solution
A well-designed crop rotation system is the key to preventive control of perennial weeds.

Description
Weed-suppressing crop rotations are essential for sustainable organic arable farming. Preventing spread of perennial weeds will increase crop yields and quality. The tool is a factsheet created for all organic farmers as we all need renewed knowledge on weed-suppression and crop rotation from time to time. The factsheet provides practical recommendations on crop selection and composition of crop sequences to suppress and control perennial weeds.
Sædskifte og dens evne til at undertrykke rodudkrudt

Forebyggende bekæmpelse af flerårigt ukrudt gennem ukrudt-undertrykkende vekseldrift

Relateret indhold fra Organic Eprints
Link til mere information

Link til værktøjet (Dansk)

Giv din bedømmelse af værktøjet:

Gennemsnitlig bedømmelse af værktøjet: 0,0  Antal bedømmelser af værktøjet: 0

### Problem
Problemet med rodudkrudt i økologisk planteavl

### Løsning
Et godt designet vekseldrift er nøglen til forebyggende bekæmpelse af flerårigt ukrudt.

### Beskrivelse
Weed-undertrykke sædskifter er afgørende for en bæredygtig økologisk planteavl. Forebyggelse spredning af rodudkrudt vil øge hostudbytte og kvalitet. Værktøjet er et faktablad skabt for alle økologiske landmænd, som vi alle har brug for fornyet viden om ukrudt-undertrykkelse og sædskifte...
Crop rotation and its ability to suppress perennial weeds

Summary

Weed-suppressing crop rotations are essential for sustainable organic arable farming. Preventing spread of perennial weeds will increase crop yields and quality. The tool is a factsheet created for all organic farmers as we all need renewed knowledge on weed-suppression and crop rotation from time to time. The factsheet provides practical recommendations on crop selection and composition of crop rotations in accordance to weed competitiveness and nitrogen demand. An appropriate combination of crops and green manures, designed specifically for the conditions and needs of individual fields, prevents spread of perennial weeds. The factsheet doesn’t only focus on prevention but also provides recommendations in case of high weed pressure. Example: Do not sow a winter crop after legumes, as winter crops leave perennial weeds undisturbed for a period of time. Instead, undersow a cover crop in the legumes to hold back the nutrients and sow a competitive crop in spring.
Crop rotation and its ability to suppress perennial weeds

Problem

Perennial weeds like thistle and couch-grass hinder growth and yields of arable crops. Without a proper focus on perennial weeds (through a good crop rotation system) organic arable cropping systems may not manage for more than 6 years without facing major weed problems.

Solution

Crop rotation is a key tool for preventive control of perennial weeds in arable farming. Weed-suppressing rotations include an appropriate percentage of competitive crops and green manures. Selection of the right crops and their proper management are important for successful weed prevention.

Related content from Organic Eprints
More about the tool on Organic Eprints

Link to the tool (English)
Practical recommendation

Basic rules

- Implement green manures, such as clover or lucerne, in at least 20% of the rotation.
- Do not grow more than 50% of cereals with low weed competitiveness in the rotation. Do not cultivate such crops for more than 2 consecutive years.
- In fields with prevalent high weed pressure cultivate only crops with high weed competitiveness.

Crop selection and composition of crop rotation

![Crop selection diagram](image)

Figure 1: Crop selection in accordance to weed competitiveness and nitrogen demand
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The OK-Net Arable Team
Farmer groups discuss and evaluate tools
Farmknowledge.org
- knowledge platform of OK-Net Arable

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About Organic Knowledge Network Arable (OK-Net Arable)

If you are involved in organic arable farming, the information and knowledge exchange on this site can help you in your daily work.

The OK-Net Arable platform provides access to a wide range of tools and resources that can help improve production, and a virtual meeting place for cross-border learning.

The OK-Net Arable knowledge platform promotes exchange of knowledge among farmers, farm advisers, and scientists, with the aim of increasing productivity and quality in organic arable cropping across Europe.

It is the web-based platform for the OK-Net Arable project, which is coordinated by IFOAM EU, and involves 17 partners from 12 European countries, shown below on the map.

The project is financed by Horizon 2020, the EU’s main funding instrument for research and innovation.

For more information, please visit www.ok-net-arable.eu.
More information

- Contact: Bram.Moeskops@ifoam-eu.org
- Visit: www.ok-net-arable.eu
- Visit: http://farmknowledge.org/
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