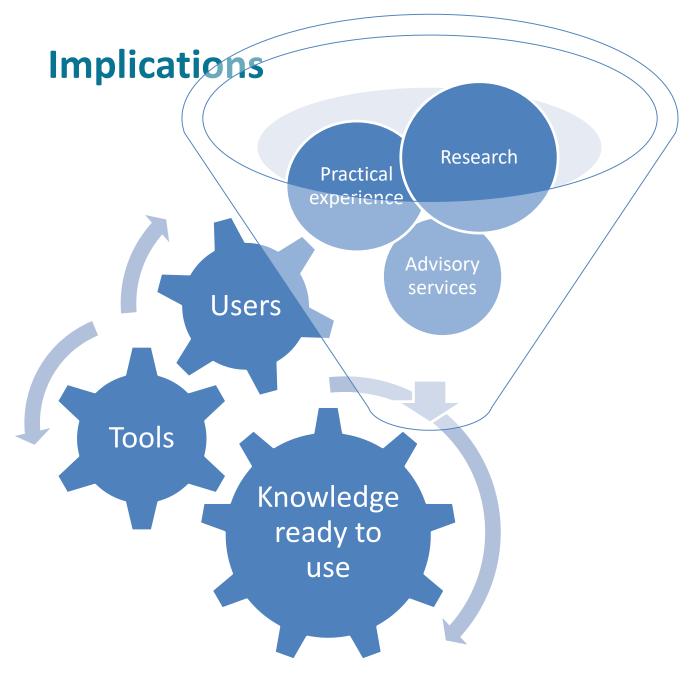


OK-Net Arable online knowledge platform

I. A. Rasmussen; A. L. Jensen; M. S. Jørgensen; H. Kristensen; M. Conder; C. Micheloni & B. Moeskops





EIP-AGRI Focus Group Organic Farming Optimising Arable Yields



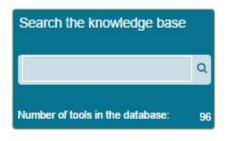
- Poor soil fertility management
- Inadequate nutrient supply
- Insufficient weed management
- Pest and disease pressure
- Variety choice.



farmknowledge.org

Organic Farming - Optimising arable yields

OK-Net Arable - exchange knowledge, enhance organic farming









Browse the knowledge base in one of the five themes











Soil quality and fertility



Sustainable crop production is dependent on maintaining and improving soil quality and fertility, which are dependent on organic matter in the soil and its impact on the soil's chemical, biological and physical proper Organic matter is the source of life for the immense variety of soil microbes and soil fauna that make nutrical available and build soil structure. Therefore, crop rotations should always include a phase that allows orgain the soil to build up i.e. through incorporating perennial grass-clover leys or catch crops during autumn a To protect soil life, the input of nutrients via manure, crop residues or other fertilisers should be well-balan Compaction by heavy machinery should be avoided for the same reason.

On this page, you can find tools and resources to help you improve soil quality and fertility, and you can discuss the topic with others.

Tools

This weeks recommended tool

Aerated compost tea (ACT) to improve soil biology and to ac...



There is a growing body of evidence supporting the benefits of aerated compost tea (ACT) application, but not all studies have shown this conclusively. Compost tea application helps build healthy soils which

Most popular tool

Visual soil assessment: field guide for croppir



Visual assessments provide diagnostic tool to evaluate many physical, biological (a degree chemical) soil chara up as visual characteristic

Show tools (35)

Suggest a tool

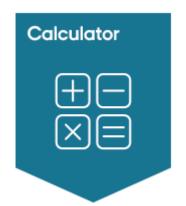
Visual soil assessment: field guide for cropping

Score your soil using soil and plant indicators



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

Link to the tool (English)



Give your rating to the tool:

Average rating to the tool: 4.7 Number of ratings to the tool: 3

Problem

Soil degradation (chemical, biological, physical), productivity loss

Solution

Visual assessment of origin of soil degradation and promotion of sustainable practices

Description

Visual assessments provide an immediate diagnostic tool to evaluate soil quality, as many physical, biological (and to a lesser degree chemical) soil characteristics show up as visual characteristics. Results are easy to interpret and understand. The Visual Soil Assessment (VSA) method has been developed to help land managers assess soil quality easily, quickly, reliably and cheaply on a paddock scale. It requires little equipment, training or technical skills. Part I, "VSA of soil quality under cropping" uses a score card for soil indicators and for plant indicators. The different indicators and states of condition are shown in photos which enables a direct and qualitative on-field scoring and assessment.

Applicability

Theme

Soil quality and fertility

Languages

English language

Show more information

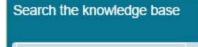


DISCUSSION

VIDEOS

ABOUT

OK-Net Arable - exchange knowledge, enhance farming



Number of tools in the database:

Recommended tool 10-05-17 Aerated compost tea (ACT) to impr...



There is a growing

Latest tool 24-05-17 Controlling potato beetles with Bt



Check the state of infestation - When the potato plants start to emerge, walk the field every 7 days in a

Latest comment

NET OK-Net Arable Check this practice abstract for the benefits of aerated... Soil quality and fertility - 1 month ago

Browse the knowledge base in one of the five themes















off when special characters occur. We recommend the use of other browsers such as Chrome or Firefox.

Leaflets

and guidelines



NET

Suggest a tool

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)

Give your rating to the tool:

Average rating to the tool: 0.0 Number of ratings to the tool: 0

Problem

The problem of perennial weeds in organic arable farming

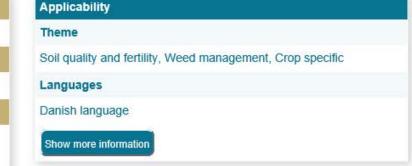
Solution

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.







Foreslå et værktøj

Sædskifte og dens evne til at undertrykke rodukrudt

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 rodukrudt 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 rodukrudt vil øge høstudbytte og kvalitet. Værktøjet er et faktablad skabt for alle økologiske landmænd, som vi alle har brug for fornyet viden om ukrudt-undertrykkelse og sædskifte

Anvendelsesområde

Tema

Jordkvalitet og frugtbarhed, Ukrudtsbekæmpelse, Afgrødespecifik

Sprog

dansk sprog

Vis mere information





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Crop rotation and its ability to suppres

{Tool} Crop rotation and its ability to suppress perennial weeds. [Sædskifter.] Creator(s): A



PDF - Danish/Dansk (Sædskifter) 3MB

Online at: https://www.landbrugsinfo.dk/Oekologi/Plante

Summary

Weed-suppressing crop rotations are essential for sustainable organic arable farming. Preventing spread of per The tool is a factsheet created for all organic farmers as we all need renewed knowledge on weed-suppression. The factsheet provides practical recommendations on crop selection and composition of crop rotations in accombination of crops and green manures, designed specifically for the conditions and needs of individual fields prevention but also provides recommendations in case of high weed pressure. Example: Do not sow a winter of period of time. Instead, undersow a cover crop in the legumes to hold back the nutrients and sow a competitive



Crop rotation and its ability to suppress perennial v



Related content from Organic Eprints

More about the tool on Organic Eprints

Link to the tool (English)



Give your rating to the tool:

女女女女女

Average rating to the tool: 4.0 Number of ratings to the tool: 1

Problem

Perennial weeds like thistle and couch-grass hinder growth and yields of ara-ble 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. Weedsuppressing rotations include an appropriate percentage of competitive crops and green manu-res. Selection of the right crops and their proper management are important for successful weed prevention.

Description

Applicability

Theme

Soil quality and fertility, Weed manageme

Languages

English language

Show more information

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

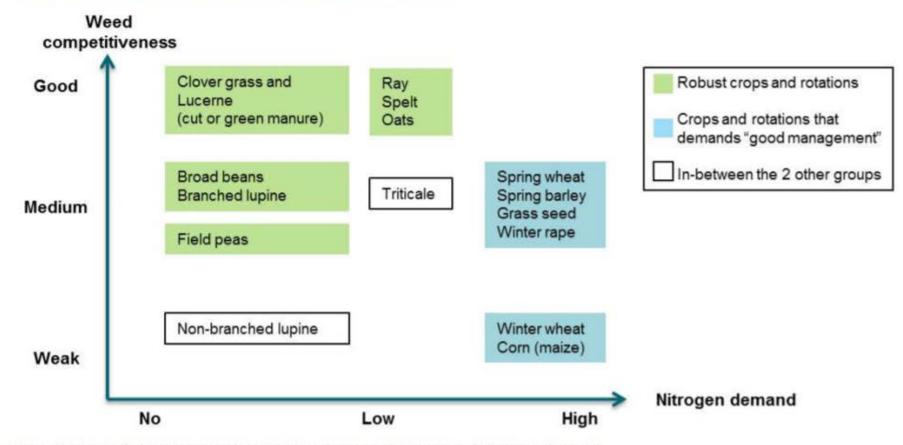
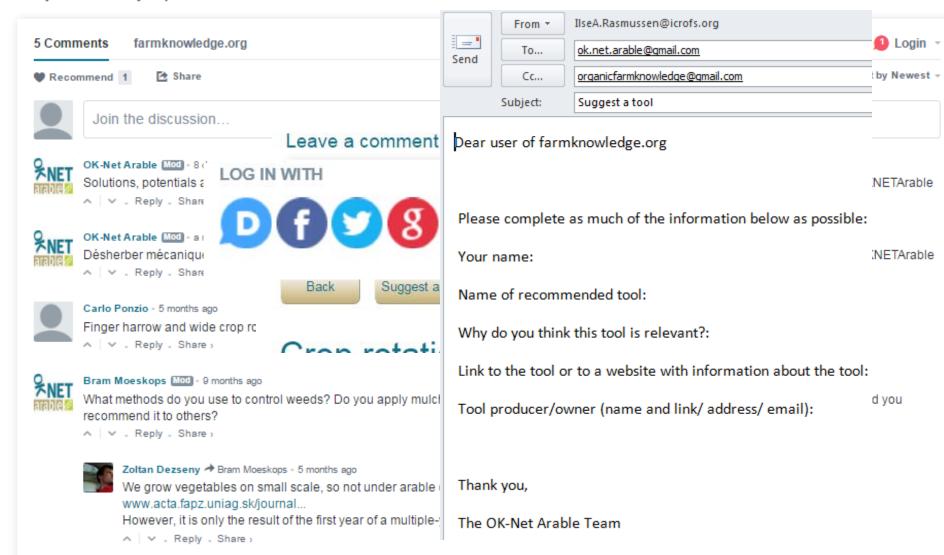


Figure 1: Crop selection in accordance to weed competitiveness and nitrogen demand

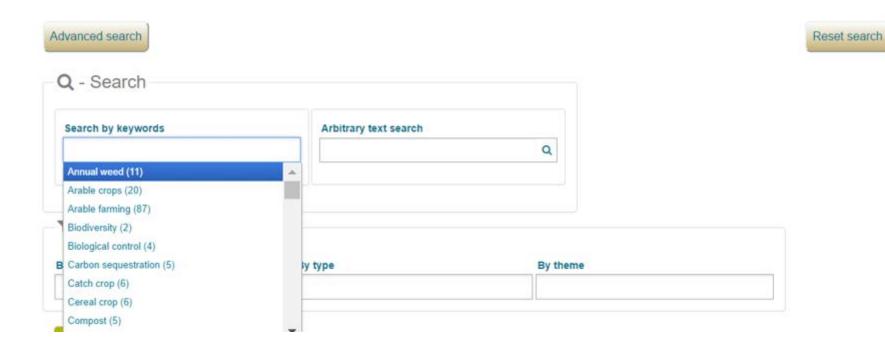


Discussion forum

Here you can discuss your problems and solutions for this theme









Video gallery





BASE-ABC, a group of French applying conservation agricult 3:42



Le réseau RotAB: sites expéri biologiques (OK-Net Arable & 1:43



Presentation of RotAB Network organic farming (OK-Net Arab 1:45



Dialogue between Belgian and farmers in the OK-Net Arable 6:06

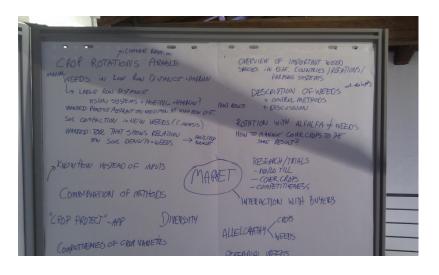


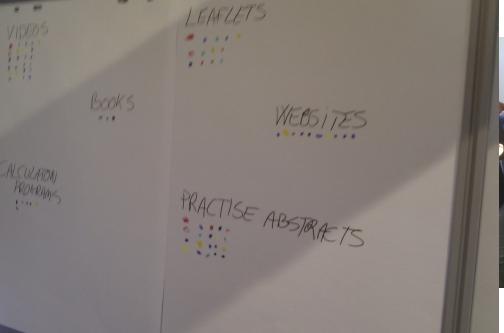
BASE-ABC, a group of French applying conservation agricult 3:35

Farmer groups discuss and evaluate tools **NET**













Farmknowledge.org

- knowledge platform of OK-Net Arable

Developed by ICROFS/AU

- Allan Leck Jensen
- Ilse A. Rasmussen
- Margit Styrbæk Jørgensen
- Helene Kristensen
- Dennis Christensen

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.

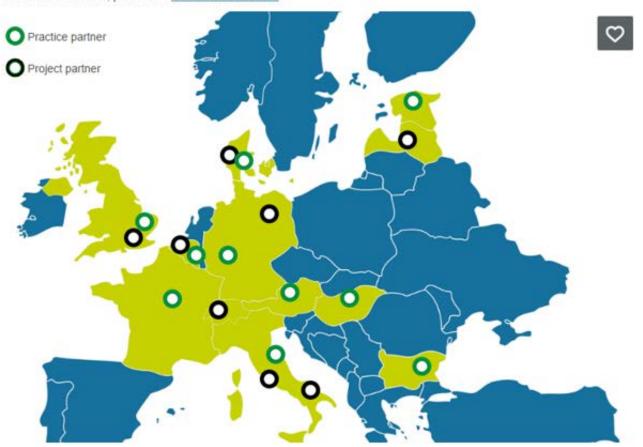
The OK-Net Arable platform provides access to a wide range of tools and resources that can help improve production, and a virtual meeting place for cross-border learning.

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/



OK-Net Arable has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 652654.

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