

Annual report 2013

BIOINSTITUT o. p. s.

Institute for Organic Agriculture and Sustainable Landscape Management



About Bioinstitut

Bioinstitut, o. p. s. was founded in 2004 as a partner organisation to FiBL Frick – a research institute for organic agriculture in Switzerland. The other co-founders were PRO-BIO Association of Organic Farmers in Šumperk, and the Palacky University in Olomouc.

Bioinstitut's mission is to support the development of organic farming in the Czech Republic by means of research, education, provision of information, training and transfer of scientific findings into practical use. We see organic farming as the only supervised and legally defined method of sustainable agriculture in CZ which not only fulfils a productive function, but also a whole range of non-productive functions, supporting sustainable rural development, biodiversity of landscape and sustainable production of food.

Bioinstitut is the coordinator of the Czech Technology Platform for Organic Agriculture (CTPOA) founded in 2010. In 2013 the CTPOA had a total of 19 members (6 primary members among producers, traders and processors, 12 members from research,

educational and advisory institutions, and 1 member representing the consumer public).

Visions and Objectives

The aim of our activities is to make Bioinstitut:

- a specialist centre for consultancy on organic farming with regard to the relationship between farming and conservation of nature and landscape.
- an intermediary and guarantor in ensuring effective transfer of findings from research and development into practice and vice versa in the field of organic farming and in terms of the relationship between farming and the environment.
- the representative for the interests of the organic farming sector and the interests of the rural community in communication with state administration in CZ and for the non-profit sector at EU level.



People in Bioinstitut

Managerial Board

- CHAIRPERSON - - - - - Ing. Ludmila Mužikovská (to 2/2013)
Ing. Zdeněk Perlinger (from 2/2013)
- VICE-CHAIRPERSON - - - Ing. Petr Trávníček
- MEMBERS- - - - - prof. Dr. Ing. Bořivoj Šarapatka, CSc.
prof. RNDr. Jitka Ulrichová, CSc.
Dr. Ing. Agr. ETH Urs Niggli
Ing. Jiřina Pavelková (to 2/2013)
Ing. Přemysl Čech (from 2/2013)

Supervisory Board

- CHAIRPERSON - - - - - Mag.iur. Michal Malacka, Ph.D., MBA
- MEMBERS- - - - - Ing. Miloslav Knížek
Ing. Ivan Pur

Employees

- ----- **Mgr. Pavlína Samsonová** – Director
Alice Boháčiková – secretary
Mgr. Karolína Dyrťová, Ph.D. – project coordinator
(on maternity leave in 2013)
Ing. Miloslava Kettnerová – CTPOA coordinator
Mgr. Jana Laciná – project coordinator for Partnership Foundation projects
Ing. Alena Malíková – accredited adviser on organic farming,
nature conservation and landscape protection
Ing. Petra Ochmannová – manager of finances for OP VK project
Ing. Markéta Doubravská – PR

External colleagues

- ----- **Ing. Radim Jarošek**
Mgr. Stanislav Mudra
Ing. Roman Rozsypal, CSc.
Ing. Jiří Urban
Ing. Martin Hutař
Ing. Milan Berka
Ing. Stanislav Boček
Ing. Tomáš Smékal
Ing. Jaroslav Pražan
Ing. Martin Mistr
Ing. Anna Vejvodová
Mag. Alois Wilfling
Ing. Václav Zámečník

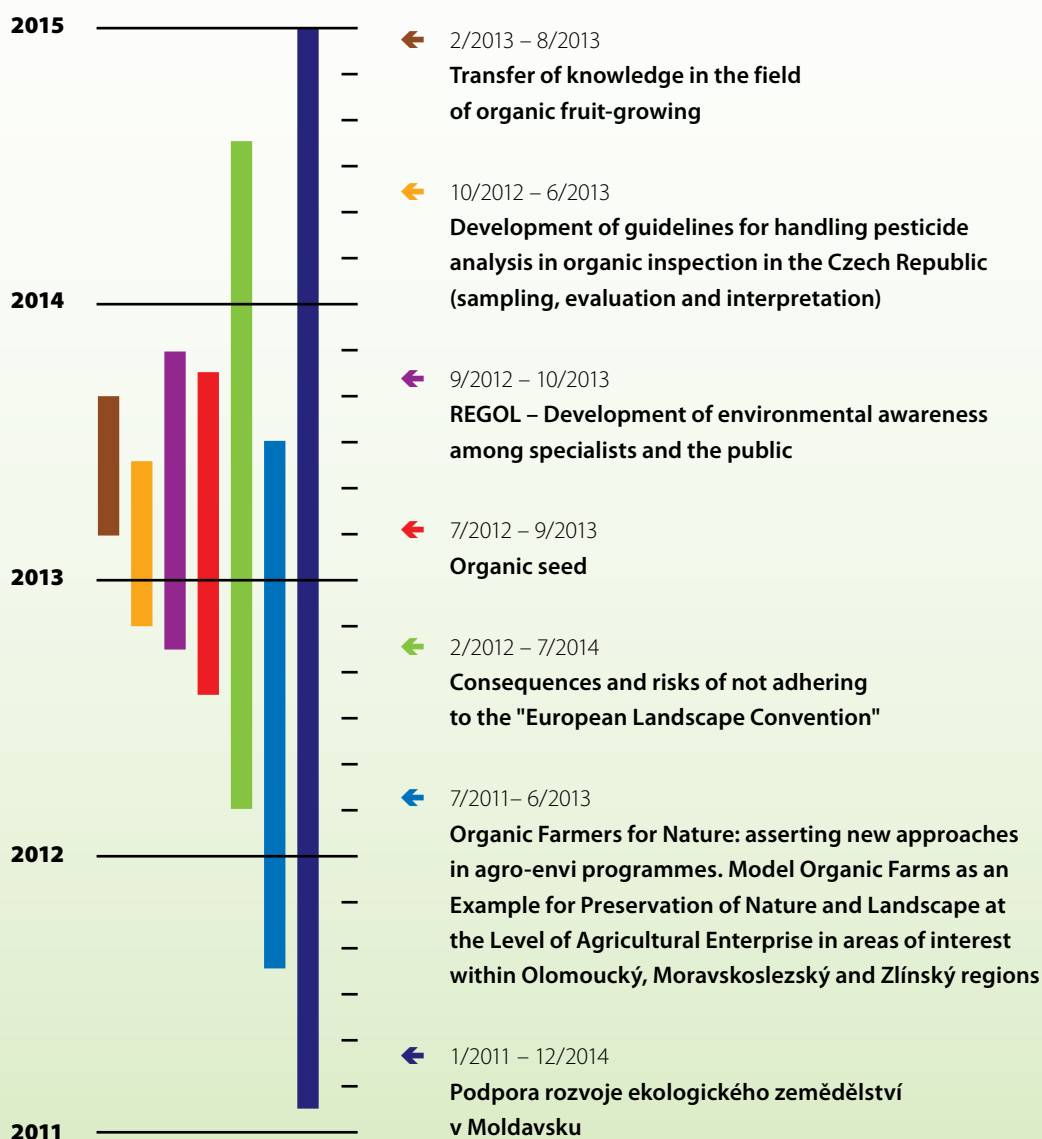
Accredited MoA advisers and others

Translation and interpretation

- ----- **Ina and Jim Leckie**
Ing. Radomil Hradil

Projects

Education and information projects and commissions



Education and information projects and commissions

Organic Farmers for Nature: asserting new approaches in agro-envi programmes. Model Organic Farms as an Example for Preservation of Nature and Landscape at the Level of Agricultural Enterprise in areas of interest within Olomoucký, Moravskoslezský and Zlínský regions

- **Registration number:** 67-BG-079
- **Implementation period:** 07/2011 – 06/2013
- **Provider:** Swiss-Czech Cooperation Program via Partnership Foundation

As in previous years, in 2013 our work continued with members of the “Organic Farmers for Nature” network, we assisted them in practical nature-preservation, intermediated communication with state administrative bodies within the region, organized educational seminars where organic farmers had the opportunity to consult experts on soil protection, biodiversity and climate. We held the regular 2-day “Sluňákov” seminar; this time its topic was “Agroecosystem – an opportunity for cooperation to the benefit of mankind and nature”.

Advisory visits to farms also continued, during which we discussed possible measures in favour of biodiversity of nature and landscape. For companies we drew up applications for financial support to introduce the measures via the Landscape Management Programme (MoE). We published further copies of the Organic Farmers for Nature newsletter and made new information boards for members of the network. The boards acquaint the public with the operation of the farm and nature-related points of interest.

Thanks to the implementation of this project we have actively taken part in the new Rural Development Programme (within work groups on Natural Resources and Biodiversity) and in the work of the Organic Farming Commission established by the MoA.



Consequences and risks of not adhering to the "European Landscape Convention"

- **Registration number:** CZ.1.07/2.4.00/17.0020
- **Implementation period:** 02/2012 – 07/2014
- **Provider:** Ministry of Education, Youth and Sports ("Education for Competitiveness" Operational Programme)
- **Primary project organizer:** Mendel University in Brno, Horticultural Faculty (MENDELU)
- **Co-participants:** Bioinstitut, o.p.s, CENELC.CZ (Czech Centre of the European Network for the Implementation of the European Landscape Convention), Faculty of Science at Palacky University in Olomouc, the Silva Tarouca Research Institute for Landscape and Ornamental Gardening, public research institute (VÚKOZ)

By ratification of the 'European Landscape Convention' (hereafter Convention) the Czech Republic accepts the obligation to protect and take care of the landscape and its configuration. At the same time it commits itself to European-level cooperation in this field. The reason for implementing this project is insufficient access to information and poor exchange of experience and information relating to implementation of the Convention in CZ.



Therefore the aim of the project is to spread information on principles issuing from the Convention and their practical application, to start social discussion on problems connected to its introduction in Czech legislation, to develop cooperation between partners, organizations and individuals who work with the cultured landscape.

Key activities of the project include mutual study visits to partner institutions and cooperation with worksites abroad, as well as interactive seminars and creative workshops focusing on adherence to the Convention. Outputs of the project: a treatise of the same title – the preparation of which involves all project partners, proceedings of an international conference and a travelling exhibition of landscape design studies which aims to present the Convention to specialists and the public. The target groups consist of students and staff of universities and people working in the fields of education, research and development. www.umluvaokrajine.cz



REGOL – Development of environmental awareness among specialists and the public

- **Registration number:** CZ.1.07/3.1.00/37.0033
- **Implementation period:** 09/2012 - 10/2013
- **Provider:** Ministry of Education, Youth and Sports (“Education for Competitiveness” Operational Programme)
- **Primary project organizer:** Bioinstitut, o. p. s.
- **Co-participants:** CONBIOS s. r. o. and RADDIT consulting s.r.o.



The main topic of the project is to support individual educational efforts (in the form of interactive seminars and workshops) in the field of specialist and general competence with a focus on nature and landscape protection, extending into farm management. The target group consists of people who, due to their responsible attitude to protection of the environment and sustainable development, can contribute to improvement of the current situation. By resolving model situations the workshop participants learned to identify problems, seek information and propose new solutions. Project outputs are thematic workshops and practical guides on the following topics:

- Non-forest woody vegetation
- Biodiversity of the rural landscape
- Reducing the environmental impact of human activity on the quality of life: decentralised composting





- Sources of information on nature and landscape
- Water within landscape – sources of pollution and consequences of watercourse regulation, anti-erosion and anti-flood measures in the agricultural landscape
- Environmental NGOs – partners or rivals?

In cooperation with our partners we ran 10 workshops in 2013 and elaborated 6 thematic methodical guides which, after conclusion of the project, we now use in our advisory work and also within our educational and promotional activities aimed at agricultural workers and the lay public. The guides can be downloaded from the project website.

www.regol.conbios.eu



Organic Seed

- **Registration number:** 12015/1310b/671/000212
- **Implementation period:** 09/2012-09/2013
- **Provider:** SZIF – Rural Development Programme, Axis 1.3.1. Further specialist education and information activity

The aim of the project was to provide growers and producers of organic seed with the principles of good production practice which will increase their effectiveness, because organic seed production is more demanding in terms of the proper production process than in the case of conventional seed, especially regarding the health condition of seed and plants. Organic farmers are as yet unfamiliar with the particularities and difficulties of seed production. The seminars also involved practical excursions to the operational plants, testing laboratories and production plants which linked theoretical information with practical experience and created a space for wider discussion. This project followed on from our publication of the “Organic Seed Production” handbook (Bioinstitut, Olomouc 2012). The seminar lecturers included the authors of this handbook and other experts from this field. In 2013 we held 8 seminars; presentations from all seminars have been archived on our website and after the conclusion of the project they remain available for those interested in the issues of organic seed.

Development of guidelines for handling pesticide analysis in organic inspection in the Czech Republic (sampling, evaluation and interpretation)

- **Registration number:** CH-003-109
- **Implementation period:** 10/2012 - 06/2013
- **Provider:** Czech Ministry of Finance via Partnership Foundation
- **Partners:** FiBL Frick (Switzerland), ÚKZÚZ

The project focused on improvement in inspection for pesticide residue throughout the whole process of organic agricultural production, and included demonstrations of sampling and testing, as well as the transfer of know-how from Switzerland to the Czech Republic. In CZ there are no set orientation limits for residue of prohibited extraneous substances which could prove intentional contamination by primary producers or processors. Therefore the main topic of the project was to elaborate a method of sampling, analytical testing and interpretation of results. Our Swiss partner FiBL has been involved in this area for several years within international research and is the leader of a European Anti Fraud Initiative active in the field of organic farming. In cooperation with Swiss experts, the Czech project partner – Central Institute for Supervising and Testing in Agriculture (ÚKZÚZ) – prepared methods for testing and evaluation of the presence of pesticide residue in organic farming.

We organized a study trip to Switzerland for representatives of inspection bodies, ÚKZÚZ and State Phytosanitary Administration, with the aim of discussing strategies of assessment of pesticides in organic farming in CZ and preparing new methodical guides for checking the content of pesticide residue within CZ.

The project output and, at the same time, the result of cooperation between the non-profit sector and state administration, with the support of foreign partners, was a Methodical Guide by ÚKZÚZ entitled “Carrying out official inspection of companies and persons active in organic farming (organic entrepreneurs)” and, consequently, MoA Methodical Guide No. 3/2013 “Rules for sampling, analysis and consequential evaluation of samples from organic farming”.

Transfer of knowledge in the field of organic fruit-growing

- **Registration number:** PF135
- **Implementation period:** 02/2013 – 08/2013
- **Provider:** the Czech Ministry of Finance via Partnership Foundation
- **Partners:** FiBL Frick (Switzerland)

Another project carried out in cooperation with a foreign partner, based on the transfer of research and advisory experience from Switzerland, focused on the establishment of a know-how system in the field of organic fruit-growing in CZ. The project contributed to new professional contacts between Swiss experts and people involved in Czech organic farming (OF) sector in the fields of education, consultancy and production.

We organized a seminar with a foreign lecturer in Dětenice and translated four specialist publications by our partner FiBL, which present the results of research and consultancy in the field of organic fruit-growing and provide useful advice and information for organic fruit growers. The seminar was mainly intended for members of PRO-BIO Association of Organic Farmers and Biosad Association, but was also open to the public. The publications are still available to order.



Support for development of organic farming in Moldova

- **Registration number:** PF135
- **Implementation period:** 01/2011 – 12/2013
- **Provider:** Czech Development Agency via People in Need, o.p.s.
- **Partners:** FiBL Frick (Switzerland)

A project focusing on preparation of an OF Action Plan for Moldova, consultancy and education. Within advisory services and the development of local organic farmers' practical skills we focused on the establishment and maintenance of intensive organic orchards, we held an educational seminar including an excursion and issued two methodical handbooks in Romanian language.

Cooperation with the MoA (Ministry of Agriculture)



MINISTERSTVO ZEMĚDĚLSTVÍ

Training for Organic Agriculture Inspection staff

Traditionally, Bioinstitut organizes joint training for all OA inspection staff and ÚKZÚZ staff who carry out official inspection. On the basis of an agreement between the MoA and SVS (State Veterinary Administration) on coordination of inspection on organic farms, this year's training topics were animal welfare, inspection of fulfilment of cross-compliance in the field of welfare and the quality of feedstuffs. The MoA informed the participants of results of supervision on farms and of changes in Methodical Guides in 2013. The second training day involved a field excursion to Mr. Karmazín's farm in Lubné (dairy cattle breeding, arable land, permanent grassland) and Mr. Zoltán Korenko's farm in Hluboké dvory (sheep breeding, permanent grassland, a certified mini-dairy, agrotourism.) within this excursion inspectors evaluated the level of welfare and feedstuff quality. Afterwards they presented their findings to the rest of the participants and discussed them with lecturers and farmers.

Non-investment subsidies for NGOs

Through non-investment subsidies for NGOs the MoA supported our activities in the field of consulting and advisory services for members of the Organic Farmers for Nature network, organizing a seminar at Sluňákov Ecological Centre, and in co-financing some activities within the project "Transfer of Knowledge in the Field of Organic Fruit-Growing".



Commissions for partners of Bioinstitut

ProPIG – organic pig-breeding: reducing environmental impact and improving pig health, welfare and nutrition

- **Implementation period:** 8/2013 – 11/2013
- **Primary project organizer in CZ:** VÚŽV, v.v.i.
- **Participants:** BOKU Vienna (AT), INRA (FR), FiBL (CH), AARHUS University (DK), FLI (DE), CRA (IT), Newcastle University (UK), BAT (DE)



The Institute of animal science (VÚŽV) in Prague–Uhřetíněves is a partner of an EU “ProPig” project supporting the development of organic pig breeding throughout Europe. The project activities within CORE Organic II are, financially supported in CZ by the Czech Ministry of Agriculture. The project aims to monitor the health, welfare, and feeding of animals and environmental impact on organic pig farms across 8 European countries. This is a good opportunity for Czech farmers to gain new experience as organic pig breeding is not sufficiently developed in CZ. Bioinstitut o.p.s was a sub-supplier of services for VÚŽV.

The subject of the commission was a survey of demand for the theme “animal welfare in organic farming” among the target group, as well as – in cooperation with CTPOA – translation and printing of a publication entitled “Bioschweinehaltung in Europa”, summarising results of the first phase of CORE Organic. It was issued under the title Practical Handbook: Organic Pig Breeding in Europe, published by Bioinstitut o.p.s. This handbook is used as a teaching material within various educational events; it has been distributed among the Platform members and made available in the Organic Eprints Database. It is also included in the range of publications on the company website.

<http://www.coreorganic2.org>

Events

Agroecosystem – an opportunity for cooperation to the benefit of mankind and nature

- **DATE:** 26. - 27. 02.2013
- **VENUE:** Sluňákov Ecological Centre, Horka n. M.



For the sixth year we held an annual two-day seminar in Sluňákov Ecological Centre near Olomouc. This time the topic was “Agroecosystem – an opportunity for cooperation to the benefit of mankind and nature. The aim of the seminar was to acquaint the participants with possibilities of understanding and making use of various relationships within agroecosystems in order to ensure good quality crops and, at the same time, contribute to the environment. Research results and possibilities for their practical application were presented by several experts: Functional biodiversity – Tomáš Kopta (Mendel University Brno – Horticultural Faculty); Prevention of disease



in agroecosystems – Evžen Prokinová (Czech University of Life Sciences, Prague); Relationships in legume-cereal mixes – Marek Seidenglanz (AGRITEC Šumperk); Botanical pesticides – Roman Pavela (Crop Research Institute, Prague); a lecture on relationships in agricultural soils was presented by Petr Janát Dolista (Academy of Social Arts - Tabor). The seminar motto was: “Agroecosystems are not suitable venues for natural antagonists due to high disturbance, fragmentation or complete loss of their natural environment; therefore such a diverse environment must be created”.

Places for nature on an organic farm – planting a tree-line, a pool, further maintenance

- **DATE:** 8. 6. 2013
- **VENUE:** Mr and Mrs Šelong’s organic farm, Pustějov

An excursion for state administrative staff, specialists and the public was organised at Gabriela and Pavel Šelong’s farm which is a member of the “Organic Farmers for Nature” network. Our cooperation began in 2012 when, thanks to a successful application and financial support from RDP, we planted an avenue of fruit and forest trees on the farm and drew up a proposal to establish a pool in a water-logged site within an arable plot.

Seminar participants first learned of the significance of establishing, renewing and maintaining various landscape features (Radim Jarošek, AOPK - Nature Conservation Agency of the Czech Republic, Ostrava). Within the excursion we then evaluated the state of the tree avenue, discussed the need for its maintenance, care and protection. The next focus of the excursion was the planned pool – marsh on an arable plot – the remainder of a former watercourse.



Farm plans – new instruments to optimize agri-environmental measures

- **DATE:** 5. – 6. 6. 2013
- **VENUE:** Švarná Hanka chalet, Staré Hamry

The two-day seminar was intended for a wide range of specialists in the field of nature and landscape protection, members of a work group preparing new agri-environmental measures, PLA (Protected Landscape Area) management staff, EIA assessors, accredited agricultural advisers and many others. The aim of the seminar was to present the purpose and mission of farm plans, the current state of the future Rural Development Programme, the transfer of advisory experience from Austria – communication between advisers and farmers, training for advisers, and a proposal of training for advisers in the field of farm plans in CZ. On the second day of the seminar we presented the pilot farm plan of the Staré Hamry Cooperative.

Closing seminar of the Organic Farmers for Nature project

- **DATE:** 27. 6. 2013
- **VENUE:** Fulnek campsite, Jerlochovice

Through this seminar we presented the participants with the results and outputs of the project “Organic farmers for Nature: asserting new approaches in agro-envi programmes; Model Organic Farms as an example for Preservation of Nature and Landscape at the level of Agricultural Enterprise in areas of interest within Olomoucký, Moravskoslezský and Zlínský regions”. Participants discussed the possibilities of further development of cooperation within the network and topics for future projects. We introduced new members of the network (the Lačňák farm in Vlčice, the Šelong farm in Pustějov and ZS Pitín, a.s. company) including outputs of our cooperation. We also presented a new supportive advisory tool created thanks to the project – a Catalogue of measures for improving species diversity on agricultural enterprises.



Bioinstitut for the public and farmers

Newsletter

We regularly publish an "Organic Farmers for Nature Newsletter" in the "Bioměsíčník" (Organic Monthly) magazine which is issued to a volume of around 6000 copies every month.

Newsletter themes in 2013

- 1/2013 – Protecting seed
- 2/2013 – Bionet – an Austrian network for the development of organic farming
- 3/2013 – Austrian farmers: diversifying agricultural activities
- 4/2013 – Agroecosystem – opportunity for cooperation to the benefit of mankind and nature
- 5/2013 – People and landscape II
- 6/2013 – Implementing new approaches in agro-envi programmes, Model farms as an example for nature and landscape protection
- 7–8/2013 – Orchards for fruit, not for subsidies
- 9/2013 – New requirements for organic farming inspection within the EU
- 10/2013 – Improving landscape quality – an opportunity for farmers
- 11/2013 – Landscape features in a different way
- 12/2013 – Organic farming as a new paradigm of diversity

An electronic archive of all issues is accessible on the website www.bioinstitut.cz.



Information boards

We made a further four information boards for selected farms involved in the Farmers for Nature network to familiarize the public with activities and nature-related points of interest of the farm. The boards are made of solid wood, fitted with a colour-printed plastic poster and placed at tourist-frequented sites. Each board is an original due to its content, introduces the history of the location, the production focus of the farm; explains how organic farming benefits the landscape, nature and animals. In 2013 the following information boards were made: Organic farming in Pustějov – Places for nature on Gabriela and Pavel Šelong’s farm; Organic farming in Fulnek – Jerlochovice – Places for nature on the Ševčík’s farm; Organic farming in Bílé Karpaty / White Carpathians; Places for nature on ZS Pitín, a.s. farm; Organic farming in Heřmanice u Oder – landshaping measures in the agricultural landscape of Heřmanice u Oder.



Ekologické hospodářství VE FULNEKU – JERLOCHOVICÍCH



Místa pro přírodu

- 1. Průmyslová výroba
- 2. Průmyslové odpady
- 3. Průmyslové znečištění
- 4. Průmyslové znečištění
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- 10. Průmyslové znečištění

HARMONIE ČLOVĚKA S PŘÍRODOU

Místa pro přírodu na hospodářství manželů Ševčíkových

Místa pro přírodu

- 1. Průmyslová výroba
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- 10. Průmyslové znečištění

Ekologické hospodářství v Pustějově, na okraji Chráněné krajinné oblasti Poodří



Místa pro přírodu

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- 2. Průmyslové odpady
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- 10. Průmyslové znečištění

HARMONIE ČLOVĚKA S PŘÍRODOU

Místa pro přírodu na hospodářství Gabriely a Pavla Šelongových

Místa pro přírodu

- 1. Průmyslová výroba
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Ekologické hospodářství V BÍLÝCH KARPATECH



Místa pro přírodu

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HARMONIE ČLOVĚKA S PŘÍRODOU

Místa pro přírodu na hospodářství ZS Pitín, a.s.

Místa pro přírodu

- 1. Průmyslová výroba
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- 10. Průmyslové znečištění

Ekologické hospodářství v Heřmanicích u Oder, jedné z obcí přírodního parku Oderské vrchy



Místa pro přírodu

- 1. Průmyslová výroba
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- 10. Průmyslové znečištění

HARMONIE ČLOVĚKA S PŘÍRODOU

KRAJINOTVORNÁ OPATŘENÍ v zemědělské krajině Heřmanic u Oder

Místa pro přírodu

- 1. Průmyslová výroba
- 2. Průmyslové odpady
- 3. Průmyslové znečištění
- 4. Průmyslové znečištění
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- 10. Průmyslové znečištění

Publications

Establishing dwarf-stock fruit orchards

Commercial production of good-quality organic fruit is very demanding and, besides specialist knowledge, also requires optimal use of available supplementary means. Organic fruit-growing should also be exemplary in the organic approach to landscape and soil. This publication shows, among other things, how the self-regulating capability of orchards can be utilised, with the aid of natural biotopes, and which growing systems support healthy trees and simplify care of the orchard.

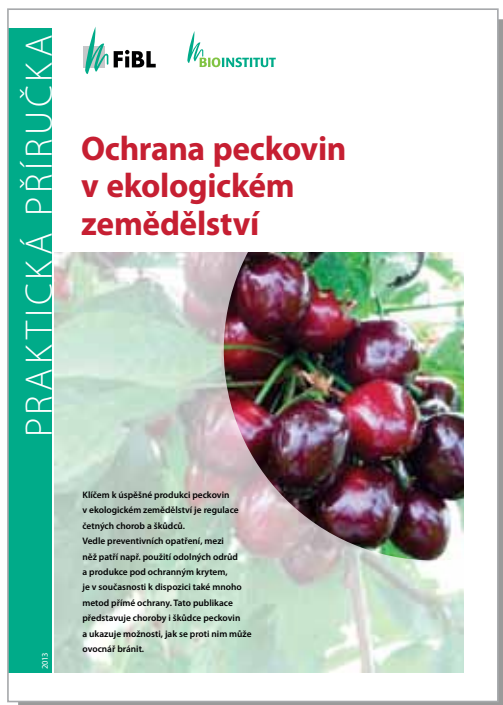


Maintaining dwarf-stock fruit orchards

Fruit trees growing in good conditions are less susceptible to outbreaks of disease and pests and have the prerequisites to be able to provide good crops of quality fruit. Care of these trees entails, apart from plant protection, also the harmonic supply of nutrients, adequate weed control and ensuring airiness of tree crowns. This publication gives concise and comprehensible up-to-date information on cultivation methods for the production of organic fruit and presents a great deal of practical advice for optimal organisation of work.

Protection of Pome Fruits in Organic Agriculture

The use of resistant species and targeted agro-technical measures are the preconditions for healthy trees. This basic rule seems simple, but in organic growing practice it is not so easy. This publication gives clear and practically executable descriptions of preconditions and measures which are essential in the production of healthy organic apples and pears in dwarf-stock orchards.



Protection of Stone Fruits in Organic Agriculture

The key to successful production of stone fruits in organic agriculture is the regulation of numerous diseases and pests. Besides preventive measures, including e.g. the use of resistant species and production under protective coverings, many methods of direct protection are also currently available. This publication presents the diseases and pests affecting stone fruits and describes the methods that fruit-growers can use to protect against them.

Organic Pig Production in Europe

This guide gives an overview of the typical housing systems used for pigs in organic farming. It lists advantages and disadvantages of the different



systems and provides relevant recommendations to farmers for health management.

Establishing dwarf-stock fruit orchards Maintaining dwarf-stock fruit orchards

Both publications were issued in Romanian language within the framework of the "Support for Development of Organic Farming in Moldova" project.

All afore-mentioned publications were issued by Bioinstitut in cooperation with FiBL research institutes for organic agriculture in Switzerland.

**Tehnica cultivării fructelor în sistem ecologic
Înfiițarea unei livezi de pomi fructiferi în sistem intensiv**

Producția cu scop comercial a fructelor ecologice de calitate este profesională și necesită pe lângă o modificare de conștientizare de specialitate îndrumarea și asistența necesară adaptabilă. Pe lângă acestea producătorii ecologici își revindă valoarea produselor din punct de vedere ecologic.

Prezența borerelor poate fi evitată, prinse albite, înlocuțite în caz de pierdere în cantități de acțiune-gleze din câmpii sau plantării cu ajutorul spărilor între rândurile de natură, și prevenită aceluși metoda de lăcășuire și îngrijire a culturi care împiedică pătrunderea și înmulțirea mazășilor de legrină.

**Tehnica cultivării fructelor în sistem ecologic
Întreținerea unei livezi de pomi fructiferi în sistem intensiv**

Prinși fructiferi și noua etapă a dezvoltării bazei de dezvoltare sunt mai puțin susceptibile la boli și dăunători rezistenți la pesticide: recoltelor abundente și calității ridicate a fructelor. Pe lângă măsurile preventive care de producție de plantele îngrijite ecologică aplicarea și dozajul adecvat și echilibrat, controlul adecvat și aplicarea măsurilor controlative și asigurarea de apă suficientă între pomii plantați.

Borerarea rădăcinilor și uscarea de la rădăcini rădăcinilor și controlul rădăcinilor în producția de fructe biologice oferă o soluție practică pentru a planta pomii în condiții optime.

Prevenția plantelor agresive subiectul altor boreri.

REGOL
Rozvoj environmentální gramotnosti odborné i laické veřejnosti

BIODIVERZITA VENKOVSKÉ KRAJINY drobné krajinné struktury v zemědělské krajině

Krajina je část teritoria je určena různými typy území, které jsou dány přírodními faktory jako jsou například geologická stavba, geomorfologické útvary a různé antropogeny. Jako krajina, zemědělská krajina vzniká na místě je využitím původních a zemědělských území. V územích a zpravidla zahrnuje různé typy území, jako je například lesní, pastevní, vodní, zemědělské, rekreační, sportovní, technické, atd. Území jsou různě využívána a jejich funkce se mění v průběhu času.

Území je část teritoria je určena různými typy území, které jsou dány přírodními faktory jako jsou například geologická stavba, geomorfologické útvary a různé antropogeny. Jako krajina, zemědělská krajina vzniká na místě je využitím původních a zemědělských území. V územích a zpravidla zahrnuje různé typy území, jako je například lesní, pastevní, vodní, zemědělské, rekreační, sportovní, technické, atd. Území jsou různě využívána a jejich funkce se mění v průběhu času.

REGOL
Rozvoj environmentální gramotnosti odborné i laické veřejnosti

DECENTRALIZOVANÉ KOMPOSTOVÁNÍ uzavřený koloběh živin a organické hmoty v regionu

Decentralizované kompostování je proces, při kterém se organická hmota rozkládá v malých, roztroušených kompostárnách, které jsou provozovány jednotlivými zemědělci nebo malými podniky. Tento proces umožňuje uzavřít koloběh živin a organické hmoty v regionu a snížit množství odpadu, který je vyvážen mimo region.

Proč zavést decentralizované kompostování?
• Zpracování odpadů je levnější a rychlejší než v centrální kompostárně.
• Možnost využít odpadů z různých zdrojů.
• Možnost využít odpadů z různých zdrojů.
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• Možnost využít odpadů z různých zdrojů.

Methodical guides from REGOL project workshops

- Woody plants outside forest
- Water bodies within the landscape
- Sources of information on nature and landscape
- Decentralized composting
- Biodiversity of rural landscape
- Environmental NGOs – partners or rivals to public administration?

Catalogue of measures for improving biodiversity on agricultural enterprises

is a supportive educational and information material which we use with our advisory and educational activities. In consists of sets of proposals for measures that may be implemented on arable land, grassland, in orchards; measures focusing on water bodies in the landscape and measures intended for sites that are not agricultural land (farm sites, rocky outcrops, road and path edges etc.).

Katalog opatření ke zvýšení biodiverzity v zemědělském podniku

ORNÁ PŮDA

ZEMĚDĚLSKÁ PŮDA – KULTURA – ORNÁ PŮDA
povrchová úroveň a způsob využití zemědělské půdy má velký vliv na biodiverzitu v zemědělské krajině. Úroveň využití zemědělské půdy má velký vliv na biodiverzitu v zemědělské krajině.

PLOŠKY PRO SKŘIVANA

PŘÍMOS OPATŘENÍ

- úprava území, které je využíváno k zemědělskému účelům
- úprava území, které je využíváno k zemědělskému účelům
- úprava území, které je využíváno k zemědělskému účelům

POPS OPATŘENÍ

- úprava území, které je využíváno k zemědělskému účelům
- úprava území, které je využíváno k zemědělskému účelům
- úprava území, které je využíváno k zemědělskému účelům

Růžka agrárníků

HLAVNÍ PROBLÉMY/ŘEŠENÍ

- úprava území, které je využíváno k zemědělskému účelům
- úprava území, které je využíváno k zemědělskému účelům
- úprava území, které je využíváno k zemědělskému účelům

Financial review 2013

EXPENDITURE

Breakdown of costs	CZK	EUR
Material – general needs	199 014	7 257
Sold goods	1 711	62
Representation costs	5 940	217
Travel	322 593	11 763
Other services	3 227 778	117 695
Salaries	2 052 707	74 848
Salaries – positional remuneration	12 000	438
Compulsory social insurance	495 091	18 053
Other taxes and fees	390	14
Other fines and penalties	643	23
Exchange rate losses	15 832	577
Other additional costs	31 286	1 141
Contributions from participants in organisation	0	0
TOTAL	6 364 985	232 087

INCOME

Breakdown of income	CZK	EUR
Income from own produce	72 359	2 638
Income from sale of services	746 306	27 213
Income from goods sold	2 171	79
Interest	14 130	515
Exchange rate gains	2 998	109
Accepted contributions (gifts)	310 236	11 312
Other additional income	51	2
Contributions from participants in organisation	53 390	1 947
Operational grants	5 167 272	188 415
TOTAL	6 368 913	232 230

Report on management and use of financial means from the Education and Further Development Fund

In 2013 Bioinstitut, o.p.s. did not withdraw financial means from the Education and Further Development Fund; final state of account on 31. 12. 2013 is 610,811 CZK.

EUR = 27.425 CZK
(according to Czech National Bank
exchange rate 31. 12. 2013)

BUSINESS RESULT

	CZK	EUR
Total Income	6 368 913	232 230
Total Expenditure	6 364 985	232 087
Business result	3 928	143

Auditor's report on final accounts for the year 2013

INDEPENDENT AUDITOR'S REPORT

Subject:

Title: Bioinstitut, o.p.s.
Address: Ondřejova 489/13 , 779 00 Olomouc
Legal status: Public Benefit Company
ID No.: 26856948

Main focus of activity:

Carrying out research, advisory work, education and consultancy in the field of organic agriculture, sustainable management, optimization of landscape use and landscape ecology.

I have conducted an audit of the attached final accounts of the Public Benefit Company Bioinstitut, o.p.s. which comprised of the balance sheet for 31.12.2013, profit and loss accounts for the year ending 31.12.2013 and a copy of these final accounts which includes a description of the main accounting method used and other explanatory information. Information on the Public Benefit Company Bioinstitut, o.p.s. is given in an appendix to the Final Accounts.

Responsibility of statutory body of accounting entity for final accounts

The statutory body of the Public Benefit Company Bioinstitut, o.p.s. is responsible for submitting final accounts which present a true and accurate picture in accordance with Czech Accounting Regulations, and for such an internal control system as is considered essential for the submission of final accounts such that they do not contain any significant (material) inaccuracies due to fraud or error.

Responsibility of Auditor

My task is to issue a statement on the final accounts on the basis of the audit conducted. I have carried out the audit in accordance with the law on auditing and international auditing standards, and related application clauses of the Chamber of Auditors of the Czech Republic. In accordance with these regulations I am obliged to adhere to ethical norms, and to plan and conduct the audit in such a way as to achieve reasonable assurance that the final accounts do not include any significant inaccuracy.

The audit involved auditing procedures intended to find proof of facts and figures stated in the final accounts. The choice of auditing procedures depends on the auditor's judgement and includes a risk evaluation on significant (material) inaccuracies in information stated in the final accounts due to fraud or error. In making an evaluation of these risks the auditor judges a relevant internal control system for the submission of final accounts giving a true and accurate picture. The aim of this judgement is to propose an appropriate auditing procedure, not to pass comment on the efficiency of the internal control system of the accounting entity. The audit also includes an evaluation of the appropriateness of the accounting method, the suitability of accounting estimates made by management, and an evaluation of the overall presentation of the final accounts.

I am confident that the material information I have obtained provides an adequate and appropriate basis for the issue of an auditor's statement.

Auditor's Statement

In my opinion the final accounts give a true and accurate picture of the assets and liabilities of Public Benefit Company Bioinstitut, o.p.s.as at 31.12.2013, the income and expenditure and the business results for the year ending 31.12.2013 in accordance with Czech Accounting Regulations.

Auditor: Ing. Johana Otrubová

Certification No.: 2075

Date of issue: 26th May 2014

Auditor's address: Zámecká 97, Plumlov

Bioinstitut is a member of...

- Czech Technology Platform for Organic Farming



- PRO-BIO Association of Organic Farmers



- Green Circle – association of environmental NGOs
- Green Circle – Platform of non-governmental ecological organizations



- International association IFOAM World and IFOAM EU Group



- FiBL International



Cooperation

- BioSad
- Czech Society for Ornithology
- People in Need, o.p.s.
- Organic farms participating in the "Organic Farmers for Nature" network
- Ekovín- Association for integrated and organic production of grapes and wine o. s.
- IFOAM World and IFOAM EU Group
- Mendel University, Brno
- Ministry of Agriculture of the Czech Republic
- PRO-BIO League
- PRO-BIO Association of Organic Farmers, Šumperk and regional branches
- Faculty of Science at Palacky University in Olomouc
- State Phytosanitary Administration, Brno Division
- Institute of Agricultural Economics and Information

- Central Institute for Supervising and Testing in Agriculture
- Institute of Animal Science, v.v.i.
- FiBL Research Institute of Organic Farming – Switzerland, Germany, Austria

Our special thanks to

- A collective of external colleagues for their cooperation in elaborating handbooks and guides
- Lecturers speaking at educational seminars
- All sponsors supporting our projects financially, especially Pancvis Foundation, which financially supported the implementation of the Organic Farmers for Nature III project
- Editorial staff at BIO Monthly
- All people and organizations supporting us and helping us in our work

www.bioinstitut.cz

Bioinstitut, o. p. s.

Institute for Organic Agriculture
and Sustainable Development of the Landscape

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Company recorded in the Business Register of the Regional Court in Ostrava on 9th April 2005, Section 0, File 198



Donations

If you are interested in the activities of Bioinstitut for the sector of organic farming and you would like to give us your financial support, you can make a donation by credit transfer to: Account No. 196 757 397 / 0300 held in Československá obchodní Bank. We welcome financial support of any kind for our activities. If you would like us to send you confirmation of receipt of your donation (e.g. for the purpose of a tax statement), please email us the necessary information (name and permanent address). We thank you in advance for whatever financial contribution you are able to make.