

Mendel University in Brno
Department of Animal Nutrition and Forage Production

Final report
for the solution of Project "AKTION no. 58p13"

Measures for cultivated landscape preservation in piedmont areas

Project duration: 1 July 2010 – 30 June 2011
Project submitted by: Ing. Pavel KNOT, Ph.D.

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Brno, July 2011

1 Fulfilment of activities

Lectures for students

- Lecture: Univ.-Doz.Dr. Erich Pötsch (HBLFA): Non-producing functions of managed grass stands. Mendel University in Brno, 1 December 2010, held for students of Forage Production, Pasture and Grassland Management and for students in doctoral programmes at the Dept. of Animal Nutrition and Forage Production
- Lectures: Ing. Reinhard Resch (HBLFA): Forage quality assessment, Production of high-quality silage and concentrate feed. Mendel University in Brno, 1-2 December 2010, held for students of Forage Production, Pasture and Grassland Management and for students in doctoral programmes at the Dept. of Animal Nutrition and Forage Production
- Lecture: Univ.-Doz.Dr. Karl Buchgraber (HBLFA): Tools for cultivated landscape preservation and improvement. Mendel University in Brno, 8 December 2010, held for students, teachers and scientific workers from Mendel University in Brno and expert public
- Lectures: Univ.-Doz.Dr. Karl Buchgraber (HBLFA): Cultivated landscape – A part of our life, Permanent grass stands as a chance for cattle breeding. Nové Město na Moravě, 13 May 2011, held as a workshop "Day of Forage Production and Grassland Management" for experts and wide public
- Lecture: Prof.Ing. František Hrabě, CSc. (MENDELU): Infiltration of precipitation in grass stands established on arable soil converted into fallow land. Mendel University in Brno, 6 June 2011, held for last year students tutored by Doz. Buchgraber
- Lecture: Ing. Pavel Knot, Ph.D. (MENDELU): Infiltration differences of various turf types in dependence on turf management intensity. Mendel University in Brno, 6 June 2011, held for last years students tutored by Doz. Buchgraber
- Lecture: Ing. Stanislav Hejduk, Ph.D. (MENDELU): Surface runoff differences and erosion conditions in grass stands and field crops. Mendel University in Brno, 6 June 2011, held for last year students tutored by Doz. Buchgraber

Academic exchange of teachers, workers and doctorands

Study stays of MENDELU teachers at HBLFA (**plan 24 days**)

- Dr. Knot, Prof. Hrabě and Doc. Šlezinger – Visit to HBLFA in order to discuss project activities, visit to experimental plots in Gumpestein and Buchau in 18-20 Oct. 2010; 3 teachers/3 days = **total 9 days**
- Dr. Knot and Ing. Mikel – Visit to HBLFA to participate at Lysimetertagung, visit to experimental plots in Sölkta-Breialm – Natura 2000 area, to discuss the workshop held 13 June 2011 and to prepare an excursion for students with Doz. Buchgraber at MENDELU; 1 teacher and 1 doctorand: 2 persons/4 days = **total 8 days**
- Prof. Hrabě, Dr. Hejduk – Visit to BOKU Wien and FU Bozen, meeting with the rector and pro-rector, participation at Grünlandtag in the village Santal, South Tyrol, 26-29 May 2011; 2 teachers/4 days = **total 8 days**

Short-term attachments of MENDELU doctorands at HBLFA

- 2 doctorands/2 weeks = total 1 month; 15-26 Nov.2010 (plan 1 month)
- 2 doctorands/2 weeks = 1 month; 26 Apr. – 13 May 2011 (plan 1 month)

During the short-term attachments, the doctorands became acquainted with methods for the calculation of costs related to the management (maintenance) of cultivated landscape. Consultations were made with a person responsible for this activity at HBLFA. Groundwork information was studied for the development of a similar system in the Czech Republic. Visits were made to experimental plots in Gumpenstein and Buchau and the doctorands participated at Lysimetertagung 2011.

Lecture presentations of HBLFA experts at MENDELU

- Doz. Pötsch, 1 day (1 December 2010)
- Ing. Resch, 2 days (1-2 November 2010)
- Doz. Buchgraber, 1 day (8 December 2010)
- Doz. Buchgraber, 2 days (12-13 June 2011)

Visit of last year students tutored by Doz. Buchgraber from BOKU Wien at MENDELU. Six students + Doz. Buchgraber/3 days = total 21 days, 5-7 June 2011. During their stay at MENDELU, the students visited an agricultural cooperative in Hustopeče, Horse Farm in Lechovice, Botanic Garden and Arboretum in Brno and they also attended lectures presented by Czech teachers.

2 CONCLUSION

Activities implemented within the Project "AKTION no. 58p13" included:

- four HBLFA presentations for MENDELU students and teachers and three MENDELU presentations for last year students at HBLFA.
- two workshops (one at MENDELU and one in Nové Město na Moravě), study stays of students in doctoral programmes in Austria (two persons x month), three stays of MENDELU participants and one stay of HBLFA last year students.

The activities were participated in total by 200 persons at an extent of 115 days (teachers and scientists 34 days, students in doctoral programmes 64 days, last year students 18 days and listeners 189 days). MENDELU and HBLFA made use of 85 days and 27 days, respectively.

The list of events and activities shows that the main objectives of the mutual exchange of teachers, scientific workers, doctorands and last year students have been fulfilled.

Main results of project solution, i.e. experience and new findings in the field of measures leading to the preservation of cultivated landscape in piedmont regions were transferred in the form of information to the agricultural practice (lectures and texts for MENDELU students, workshops). Especially the workshop held in Nové Město na Moravě, which was attended by 114 persons – mostly farmers, was considered a great contribution, an information source and an encouragement for their further work. Students from Austria were provided extensive data concerning the level of education and agriculture in the Czech Republic.

Ing. Pavel Knot, Ph.D.