5. Research report, 2019

Effects of conservation measures on beetle species in the „Conservation of dry grasslands in Central Hungary" Life+ Nature project (LIFE NAT/HU/001028)

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Locality data of beetles were collected in nine target areas managed by the the Danube–Ipoly National Park Directorate. The vegetation types of the areas are Pannonian grassland on loess, sand or limestone, awaiting for habitat restoration. Emphasis was made on priority species, i.e. protected species, species of community interest and species strictly associated with the grassland types of the target areas. In 2019 the number of species of community interest raised from one to three. A total of **363** records were collected. The following protected species were found.

Target area	Natura 2000 site	Protected species (bold = species of community interest)
Budaörsi kopárok	Budaörsi kopárok (HUDI20010)	***Bolbelasmus unicornis***, *Calamobius filum, Chlorophorus hungaricus, Tituboea macropus*
Debegió-hegy	Debegió-hegy (HUDI20014)	*Cicindela soluta, Dicerca aenea, Protaetia affinis, Protaetia speciosissima, Purpuricenus budensis, Tituboea macropus*
Gyermely-Máriahalom	Epöli szarmata vonulat (HUDI20016)	*Blaps abbreviata, Calamobius filum, Cardoria scutellata, Cicindela campestris, Dorcadion fulvum, Lethrus apterus, Meloe cicatricosus,* ***Probaticus subrugosus****, Protaetia ungarica, Theophilea subcylindricollis*
Tétényi-fennsík	Érd-tétényi plató (HUDI20017)	*Blaps abbreviata,* ***Carabus hungaricus****, Chlorophorus hungaricus, Cicindela campestris, Dorcadion fulvum, Hymenalia morio, Musaria argus, Protaetia ungarica, Tituboea macropus*
Szentmártonkáta	Felső-Tápió (HUDI20019)	*Cicindela hybrida, Cicindela soluta, Dorcadion decipiens, Purpuricenus budensis,*
Domonyvölgy–Bárányjárás	Gödöllői-dombság (HUDI20023)	*Calamobius filum, Carabus montivagus, Cicindela campestris, Meloe cicatricosus,*
Küdői-hegy	Gödöllői-dombság (HUDI20023)	*Calamobius filum, Carabus montivagus, Cicindela campestris, Cicindela soluta, Dorcadion fulvum, Meloe cicatricosus, Protaetia ungarica, Theophilea subcylindricollis*
Fóti Somlyó	Gödöllői-dombság peremhegyei (HUDI20040)	*Calamobius filum,* ***Carabus hungaricus****, Meloe cicatricosus, Meloe scabriusculus, Musaria argus, Protaetia ungarica, Oodescelis polita*
Tápiósági Földvár	Alsó-Tápió és patakvölgyek (HUDI20050)	*Calamobius filum, Carabus ullrichi, Theophilea subcylindricollis*

Investigations monitoring the ground-dwelling beetle fauna of nine target areas were also accomplished, with the use of non-baited pitfall traps (filled with ethylene glycol), in two two-week periods of late April and early May. All beetle specimens were identified. A total of **602** records were collected. The following priority species were found in the pitfall traps.

Target area	Natura 2000 site	No. of records	Priority species (bold = species of community interest)

Target area	Natura 2000 site	No. of records	Priority species (bold = species of community interest)
Budaörsi kopárok	Budaörsi kopárok (HUDI20010)	79	*Gnaptor spinimanus, Licinus cassideus, Microhoria unicolor*
Debegió-hegy	Debegió-hegy (HUDI20014)	28	(no priority species was found)
Gyermely-Máriahalom	Epöli szarmata vonulat (HUDI20016)	116	*Blaps abbreviata, Dorcadion fulvum, Gnaptor spinimanus, Onthophagus semicornis, Pelletierellus ventricosus,* ***Probaticus subrugosus****, Protaetia ungarica, Sisyphus schaefferi*
Tétényi-fennsík	Érd-tétényi plató (HUDI20017)	62	*Blaps abbreviata,* ***Carabus hungaricus****, Dorcadion fulvum, Onthophagus semicornis, Protaetia ungarica,*
Szentmártonkáta	Felső-Tápió (HUDI20019)	5	(no priority species was found)
Domonyvölgy–Bárányjárás	Gödöllői-dombság (HUDI20023)	86	*Dapsa fodori, Microhoria unicolor, Sisyphus schaefferi*
Küdői-hegy	Gödöllői-dombság (HUDI20023)	78	*Carabus montivagus, Orthochaetes setiger, Protaetia ungarica, Sisyphus schaefferi*
Fóti Somlyó	Gödöllői-dombság peremhegyei (HUDI20040)	41	***Carabus hungaricus****, Oodescelis polita*
Tápiósági Földvár	Alsó-Tápió és patakvölgyek (HUDI20050)	107	*Carabus ullrichi, Onthophagus semicornis, Sisyphus schaefferi*