

## 5. Research report, 2018

### 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. A total of **496** records were collected. The following protected species were found (the species recorded with pitfall traps

Target area	Natura 2000 site	Protected species
Budaörsi kopárok	Budaörsi kopárok (HUDI20010)	<i>Chlorophorus hungaricus</i> , <i>Cortodera holosericea</i> , <i>Theophilea subcylindricollis</i> , <i>Tituboea macropus</i>
Debegió-hegy	Debegió-hegy (HUDI20014)	<i>Cicindela campestris</i> , <i>Cicindela hybrida</i> , <i>Cicindela soluta</i> , <i>Purpuricenus budensis</i> , <i>Theophilea subcylindricollis</i> , <i>Tituboea macropus</i>
Gyermely-Máriaalom	Epöli szarmata vonulat (HUDI20016)	<i>Cardoria scutellata</i> , <i>Carinatodorcadion fulvum</i> , <i>Chlorophorus hungaricus</i> , <i>Cicindela campestris</i> , <i>Lethrus apterus</i> , <i>Meloe cicatricosus</i> , <i>Meloe scabriusculus</i> , <i>Protaetia ungarica</i> , <i>Theophilea subcylindricollis</i> , <i>Tituboea macropus</i>
Tétényi-fennsík	Érd-tétényi plató (HUDI20017)	<i>Calamobius filum</i> , <i>Carinatodorcadion fulvum</i> , <i>Chlorophorus hungaricus</i> , <i>Cicindela campestris</i> , <i>Hymenalia morio</i> , <i>Musaria argus</i> , <i>Protaetia ungarica</i> , <i>Tituboea macropus</i>
Szentmártonkáta	Felső-Tápió (HUDI20019)	<i>Cicindela hybrida</i> , <i>Cicindela soluta</i> , <i>Oryctes nasicornis</i>
Domonyvölgy–Báránycsatorna	Gödöllői-dombság (HUDI20023)	<i>Calamobius filum</i>
Küdöi-hegy	Gödöllői-dombság (HUDI20023)	<i>Calamobius filum</i> , <i>Cicindela campestris</i> , <i>Meloe cicatricosus</i> , <i>Meloe scabriusculus</i> , <i>Musaria argus</i>
Fóti Somlyó	Gödöllői-dombság peremhegyei (HUDI20040)	<i>Calosoma inquisitor</i> , <i>Cicindela campestris</i> , <i>Cicindela soluta</i> , <i>Meloe cicatricosus</i> , <i>Meloe scabriusculus</i> , <i>Meloe variegatus</i> , <i>Musaria argus</i>
Tápiósági Földvár	Alsó-Tápió és patakvölgyek (HUDI20050)	(no protected species was found)

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 species were identified. A total of **817** records were collected. The following priority species were found.

Target area	Natura 2000 site	No. of records	Priority species (bold = species of community interest)
Budaörsi kopárok	Budaörsi kopárok (HUDI20010)	108	<i>Gnaptor spinimanus</i> , <i>Microhoria unicolor</i>

Target area	Natura 2000 site	No. of records	Priority species (bold = species of community interest)
Debegió-hegy	Debegió-hegy (HUDI20014)	44	<b>Carabus hungaricus</b> , <i>Cardiophorus asellus</i> , <i>Cicindela soluta</i> , <i>Licinus cassideus</i>
Gyermely-Máriaalom	Epöli szarmata vonulat (HUDI20016)	113	<i>Carinatodorcadion fulvum</i> , <i>Gnaptor spinimanus</i> , <i>Lethrus apterus</i> , <i>Protaetia ungarica</i> , <i>Sisyphus schaefferi</i>
Tétényi-fennsík	Érd-tétényi plató (HUDI20017)	64	<i>Blaps abbreviata</i> , <i>Carinatodorcadion fulvum</i> , <i>Onthophagus semicornis</i> , <i>Protaetia ungarica</i> ,
Szentmártonkátá	Felső-Tápió (HUDI20019)	12	(no priority species was found)
Domonyvölgy-Bárányjárás	Gödöllői-dombság (HUDI20023)	94	<i>Dapsa fodori</i> , <i>Sisyphus schaefferi</i>
Küdői-hegy	Gödöllői-dombság (HUDI20023)	136	<i>Protaetia ungarica</i> , <i>Sisyphus schaefferi</i>
Fóti Somlyó	Gödöllői-dombság peremhegyei (HUDI20040)	52	<i>Oodescelis polita</i>
Tápiósági Földvár	Alsó-Tápió és patak völgyek (HUDI20050)	194	<i>Chlaenius decipiens</i> , <i>Meloe scabriusculus</i> , <i>Neopristilophus insitivus</i> , <i>Onthophagus semicornis</i> , <i>Protaetia ungarica</i> , <i>Sisyphus schaefferi</i>