

GENERAL INFORMATION

author(s)	Smets K
year	2000
English title	Factors affecting the species composition of click beetles (Elateridae) and longhorn beetles (Cerambycidae) in Flemish forests
original title	Bepalende factoren voor de soortensamenstelling van kniptorren (Elateridae) en boktorren (Cerambycidae) in Vlaamse bossen
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ecosystem service	supporting – biodiversity
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taxa	Elateridae, Cerambycidae
project	B&G/15/96: Soil classification based on soil fauna (Bosbodemplassifikatie door middel van bodemfauna) B&G/29/98: Determination of forest invertebrates and variables indicating their occurrence (Determinatie en bioindicatie van bosgebonden ongewervelden – Luik A)
supervisor	Lust N, Desender K
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document	hardcopy, pdf
data	Smets_2000_th.xlsx Flora&Fauna.xls

MATERIALS & METHODS

study area	5 n (scientific zone)
time period	April 1997 – September 1998
goal	<ul style="list-style-type: none"> - Expansion of the limited knowledge on beetles and their distribution in Flanders: click beetles and longhorn beetles - Search for relationships between beetle species occurrence and the environment - Optimization of trap techniques: pitfall traps and two types of colour traps
set-up	56 plots of the soil fauna project <ul style="list-style-type: none"> - 56 plots with pitfall traps: buried glass pots (h = 10 cm, \varnothing = 10 cm) with 3–4 % formaldehyde (+ detergent, + salt in winter) - 49 plots with colour traps (white/yellow): plastic pots at the soil surface (h = 8.5 cm, \varnothing = 9 cm) with 3–4 % formaldehyde (+ detergent, + salt in winter) - 3 traps of each type per plot, distance between the traps ca. 4 m
data collection	two-weekly sampling (March – November 1997), three-weekly (November 1997 – February 1998), two-weekly (March–April 1998) kept in 70 % alcohol
remarks	level II plots: GONA & GONB description of the soil fauna project on p 21–24

RESULTS

46 forests	colour traps	pitfall traps	total
click beetles			
- number species	10	14	16
- number abundant species	7	6	8
- number individuals	1656	1362	3018
- period	Apr-Jul		

- number forests	39		
longhorn beetles			
- number species	8	6	12
- number abundant species	3	0	3
- number individuals	1320	8	1328
- period	May-Sep		
- number forests	33		

Click beetles were found more in pitfall traps; longhorn beetles more in the white colour traps. GONA: 5 species, GONB: 3 species (abundant click beetles). In none of the forests, more than 8 species were trapped. Only common species were trapped, i.e., species that are not specific to a certain habitat.