

GENERAL INFORMATION

author(s)	De Coninck E
year	1972
English title	Contribution to the comparison of the coleopteran fauna of a forest and a pasture in Gontrode (East Flanders)
original title	Bijdrage tot de vergelijkende oecologische studie van de coleopterenfauna van een bos en een weide, te Gontrode (O.Vl.)
reference	Msc thesis, Ghent University, Ghent
pages	60
type	dissertation (d2)
ecosystem service	supporting – biodiversity
keywords	crawling or ground-dwelling arthropods
taxa	Coleoptera
project	
supervisor	Hublé J
institution	Faculteit der Wetenschappen, Groep Dierkunde
document	hardcopy
data	Flora&Fauna.xls

MATERIALS & METHODS

different from Hoet 1972

study area	5e (oak-beech forest), 5h (pasture, with planted limes from 1970)
time period	May–December 1971
goal	Quantification of the coleopteran population in forest and pasture during a 7-month period. Study of the relationships between occurring species, population density, habitat type, abiotic factors temperature and relative humidity
set-up	<ul style="list-style-type: none"> - 12 pitfall traps (ø 8 cm, depth 10 cm), filled 1/3 with saturated picric acid (= Barber traps): 3 rows of 4 traps, 3 m between the traps, buried with the rim at surface level, with plexiglass roof and two zinc sheets to guide the arthropods - 3 soil cores (1.25 m) - triple thermograph: T at 12 cm above the soil surface, 2cm and 10 cm below the soil surface (<u>continuous</u>) - thermohygrograph: air T and relative humidity (<u>continuous</u>)
data collection	<ul style="list-style-type: none"> - description vegetation (tree, shrub, herb, moss layer) - description soil profile, litter, and humus - soil samples (3 x 0-20 cm, 1 x 40-60 cm, 1 x 65-80 cm): pH, C, N, granulometry, soil moisture - two-weekly: traps emptied (15/03/1971–10/03/1972) - spiders kept at 70 % alcohol, identified and counted (6 of the 12 pots between 24/05–31/12/1971)
remarks	scheme set-up and position plots in the thesis see also the thesis of Hoet 1972

RESULTS

Description pasture plot on p 7-14 (position, soil, vegetation, climate); the forest plot is described in Hoet 1972. Species lists for forest/pasture. Activity curves for the most abundant species in forest/pasture are discussed. Different similarity and diversity indices have been calculated for forest/pasture.

	pasture	forest	both
number individuals	5420	2001	
number species	76	56	26
number families	rather low	large	
most important families	ground beetles (Carabidae), rove beetles (Staphylinidae)	Sylphidae	