

## GENERAL INFORMATION

<b>author(s)</b>	Hoet L
<b>year</b>	1972
<b>English title</b>	Phenological study of the spiders of the Aelmoeseneie forest and a neighbouring pasture
<b>original title</b>	Fenologische studie van de spinnenfauna van het Aelmoeseneiebos en aangrenzende weide
<b>reference</b>	Msc thesis, Ghent University, Ghent
<b>pages</b>	48
<b>type</b>	dissertation (d2)
<b>ecosystem service</b>	supporting – biodiversity
<b>keywords</b>	crawling or ground-dwelling arthropods
<b>taxa</b>	Araneida
<b>project</b>	
<b>supervisor</b>	Hublé J
<b>institution</b>	Faculteit der Wetenschappen, Groep Dierkunde
<b>document</b>	hardcopy
<b>data</b>	tables with number of species & sampling date Flora&Fauna.xls

## MATERIALS & METHODS

<b>study area</b>	5e (oak-beech forest), 5h (pasture, with planted limes from 1970, see photograph in De Coninck 1972)
<b>time period</b>	February 1971 – March 1972
<b>goal</b>	Gain insight into the composition of the spider population during the year and the impact of the habitat on the numbers, species, families, and activity during the first 6 months of sampling.
<b>set-up</b>	<ul style="list-style-type: none"> <li>- 12 pitfall traps (ø 8 cm) with saturated picric acid (= Barber traps): 3 rows of 4 traps, 3 m between the traps (164 m<sup>2</sup> in stand 5e, pots at the ridges)</li> <li>- 3 soil cores (1.25 m depth)</li> <li>- triple thermograph: T at 12 cm above the soil surface, 2cm and 10 cm below the soil surface (weekly measurements)</li> <li>- thermohygrograph: air T and relative humidity (weekly)</li> </ul>
<b>data collection</b>	<ul style="list-style-type: none"> <li>- description vegetation (tree, shrub, herb, moss layer)</li> <li>- description soil profile, litter, and humus</li> <li>- two-weekly: traps emptied (01/03/1971–24/02/1972)</li> <li>- spiders kept at 70 % alcohol, identified, and counted</li> </ul>
<b>remarks</b>	scheme set-up and position plots in the thesis see also the thesis of De Coninck 1972

## RESULTS

Description forest study plot (vegetation, soil, litter, climate) on p 3–6; the pasture plot is described in De Coninck 1972. Species lists for forest/pasture, for each family and sampling date, subdivided based on the genera. 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
number of individuals	3315	550
number of species	62	52
correlation between species and individuals	strong	weak in autumn/winter

activity peak	May & July	May, July, September, winter
humus	mull high pH low C/N many Lumbricides	mor low pH high C/N
vegetation	dense and varied	
temperature differences	higher	lower
minimum relative moisture	lower	higher