

Spider coenoses in strict forest reserves in Hesse (Germany)

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Abstract

The spider fauna of four strict forest reserves in Hesse (Germany) is analysed with respect to characterizations of the recorded species: frequency in Germany, total distribution range, summarised types of habitats. The data are compared with seven (mostly unpublished) projects in SE- and NE-Germany with a comparable species number. The number of species per project ranges from 159 to 205. In the four Strict Forest Reserves in Hesse a total of 278 has been recorded. Higher numbers of species occur on the trunk than on the ground. Rare spiders are more frequent in forests than in open land. Spider species with the most restricted distributions are best represented in forests of low mountain ranges in Hesse and Bavaria. Even a rough classification of preferred habitats yields valuable information. The biodiversity of spiders in commonly occurring types of forests is much higher than expected.

Key words: Araneae, beech, classification, distribution, electors, frequency, habitat, rare species, trunk

INTRODUCTION

Strict forest reserves (in Hesse) are forest areas where all forestry operations have ceased. Research into these “primeval forests of tomorrow” is an important basis for nature-orientated forestry and nature conservation (Dorow et al. 2007, 2010, Meyer & Schmidt 2008). In Hesse, strict forest reserves were established from 1988 on. At present there are 31 such reserves in Hesse, which cover a total area of about 1200 ha (average size 40 ha). The common beech (*Fagus sylvatica*) dominates most of them. 22 reserves have a reference area (average size 35 ha), where forestry is continued. This allows direct examination of the influence of forestry on the fauna.

METHODS

Spiders (and six other standard groups: Lumbricidae, Heteroptera, Coleoptera, Hymenoptera: Aculeata, Macrolepidoptera, and Aves) are analysed completely to species level. A broad set of sampling methods is used in each of the four reserve (including their reference areas) over two entire years (including winter). Most important methods for the spiders are: pitfall traps (12–15 sites with 3 traps, about 10 sites with single traps) and different types of electors (Figs 1–2): 8 trunk electors on standing beech trees (4 alive, 4 dead), 2–4 electors on lying dead beeches.



Fig. 1. Trunk elector on a dead beech tree (photo: W. Dorow).

SITES

The spiders of four reserves (marked with the numbers 2, 3, 6, 8 in Fig. 3; all at 300 to 690 m a.s.l.) have so far been identified. Age of the beech trees: 80–200 years; mean temperature 6.7°–8.0°C; mean precipitation per year 748–776 mm (one exception, reserve no. 6: 1,175 mm) (see <http://naturwaelder.de>).

Reserve 2: Goldbachs- und Ziebachsrück, sub-montane beech forest (Luzulo-Fagetum) with sessile oak (*Quercus petraea*), Middle Red Sandstone, 300–365 m a.s.l., N 50.93°, E 9.88° (Blick 2009, Dorow et al. 2009). 166 species, 18,000 adults, 31,300 juv.

Reserve 3: Schönbusche/Neuhof, sub-montane beech forest (Luzulo-Fagetum) with sessile oak (*Quercus petraea*), Middle Red Sandstone, 370–455 m a.s.l., N 50.48°, E 9.54° (Malten 2001, Dorow et al. 2001). 202 species, 12,650 adults, 17,300 juv.

Reserve 6: Niddahänge/Schotten, montane beech forest (Hordelymo-Fagetum, Asperulo-Fagetum), basalt, 530–690 m a.s.l., N 50.53°, E 9.21° (Malten 1999, Flechtner et al. 1999). 182 species, 17,700 adults, 11,900 juv.

Reserve 8: Hohestein, sub-montane beech forest (Hordelymo-Fagetum), limestone, 455–565 m a.s.l., N 51.25°, E 10.05° (Malten & Blick 2007, Flechtner et al. 2006). 162 species, 17,000 adults, 15,900 juv.

Data from the strict forest reserves in Hesse are compared with those of selected, predominantly unpublished, projects in Germany with comparable species numbers (i.e. 156–205 species, 3,250–23,000 adult spiders):

FBav: two forests in S. Bavaria, pine, partly with beech or mixed forest, 490–550 m a.s.l., N 48.4°–48.9°, E 10.8°–11.1°, pitfall traps, trunk electors, 1995–1996 Mar.–Nov., data publ. by Engel (1999, 2001), det.



Fig. 2. Trunk elector on lying dead beech (photo: W. Dorow).

for TU Freising-Weihenstephan. 175 species, 19,600 adults, 8,800 juv.

FBrb: three forests in Brandenburg, pine, partly with beech and oak, 70–140 m a.s.l., N 52.3°–52.9°, E 13.9°–14.0°, pitfall traps, trunk electors, and various other trap types, 2000–2002, unpubl. data, det. for FH Eberswalde. 194 species, 23,000 adults, 13,900 juv.

FDry: dry forest (mainly) in N. Bavaria with adjacent open land incl. rocks, 400–520 m a.s.l., N 49.7°, E 11.2°, pitfall traps and hand collecting, 2000 May–Oct., unpubl. data, det. for Naturschutzbehörde Regierung von Oberfranken, Bayreuth. 159 species, 3,250 adults, 1,500 juv.

FArt: artificial forest (poplar) and adjacent forest and arable land in N. Bavaria, 415–430 m a.s.l., N 49.8°, E 12.2°, pitfall traps, ground electors, extensive hand collecting on bark, April/May–Oct. 1995 & 2000

(Blick & Burger 2002), unpubl. data 2006–2007 (incl. winter), det. for LWF (Bayerische Landesanstalt für Wald und Forstwirtschaft) Freising. 177 species, 8,400 adults, 3,300 juv.

Border: former border between E. and W. Germany, mostly open land, 445–460 m a.s.l., N 50.3°–50.4°, E 12.0°, pitfall traps and hand collecting, 1994 April–Sept., unpubl. data, det. for the former Staatliches Umweltfachamt Plauen. 156 species, 3,500 adults, 980 juv.

Bogs: four bogs, incl. forest habitats, in N.E. Bavaria, 570–970 m a.s.l., N 50.0°–50.2°, E 11.8°–12.2°, pitfall traps, 2000 May–Oct., unpubl. data, det. for Naturschutzbehörde der Regierung von Oberfranken, Bayreuth. 173 species, 12,450 adults, 5,350 juv.

Castle: walls of four castles in N. Bavaria, partly with adjacent forests, 380–520 m a.s.l., N 49.8°–50.2°, E 11.0°–11.4°, wall

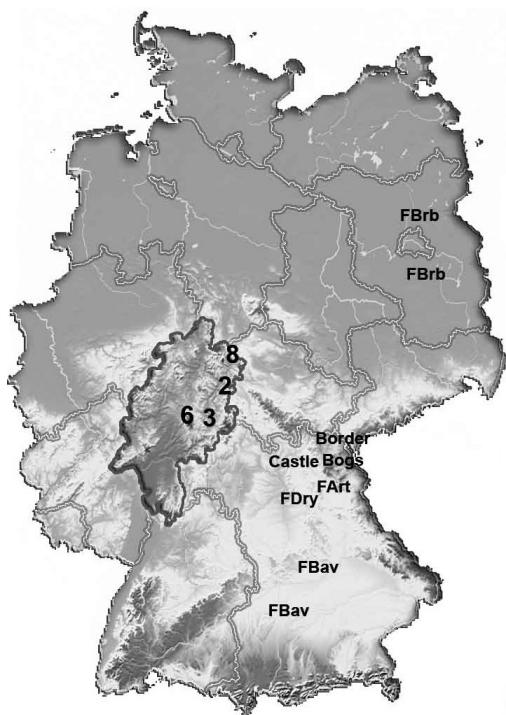


Fig. 3. Strict forest reserves in Hesse, first recording completed (2, 3, 6, 8), sites of compared data (FBav/forests in S. Bavaria, FBrb/forests in Brandenburg, FDry/dry forest in N. Bavaria with adjacent open land, FArt/artificial forest (poplar) and adjacent forest and arable land in N. Bavaria, Border/former border between Eastern and Western Germany, now border between Saxony and Bavaria, mostly open land, Bogs/Bogs in N.E. Bavaria, Castle/walls of castles in N. Bavaria).

traps, pitfall traps, hand collecting, 2006–2007 (incl. winter), unpubl. data, det. for Ökologische Bildungsstätte Oberfranken, Mitwitz. 205 species, 5,300 adults, 2,850 juv.

NUMERICAL RESULTS

A total of 278 spider species has been found in the four strict forest reserves, i.e. 40% of the ca. 700 spider species known from Hesse (Malten 1999, 2001, Malten & Blick 2007, Blick 2008; see Appendix). 162 to 202 spider species were recorded in each reserve (see above

and Appendix). 19 species were new records for Hesse (see Appendix). There is as yet no significant difference between the unmanaged and managed patches of forest – due to the short time since forestry ceased.

Key results in sampling the spider diversity were [number of species (no. of the reserve)]:

- eight trunk electors on standing trees: 151 (3), 144 (6), 117 (8), 105 (2).
- pitfall traps: 126 (3), 119 (6), 107 (8), 100 (2).
- Diversity on the trunk is higher than on the ground.

ANALYSIS

The spider fauna has been analysed according to different aspects: **frequency** of occurrence in Germany, **distribution** types, **habitat** types and other criteria such as preference for strata, altitudinal distribution, phenology, body size classes and degree of endangerment in Germany.

Frequency throughout Germany is divided into six groups (according to the frequency of records at <http://spiderling.de/arages>, Staudt 2008a): **very common**, **common**, **moderately common**, **rare**, **very rare**, **extremely rare** (here not relevant).

Distribution types (compilation based on Mikhailov 1997, Helsdingen 2007, Platnick 2008, Staudt 2008b): E--/Europe in part, explicitly less than half of the area of Europe, E-/Europe in part, without some western, northern, southern or eastern parts, E/Europe, whole of Europe or large parts of it, E+/Europe and adjacent parts (e.g. N. Africa, Caucasus, W. Siberia), P/Palaearctic, H/Holarctic (incl. Cosmopolitan).

Comment: Classical biogeographical classes are not used here, as these are too numerous and an overview and comparison of the sites would be too confusing. In considering the responsibility for conservation of each species, the total distribution area is more important than the biogeographical details of its range (see Gruttke 2004).

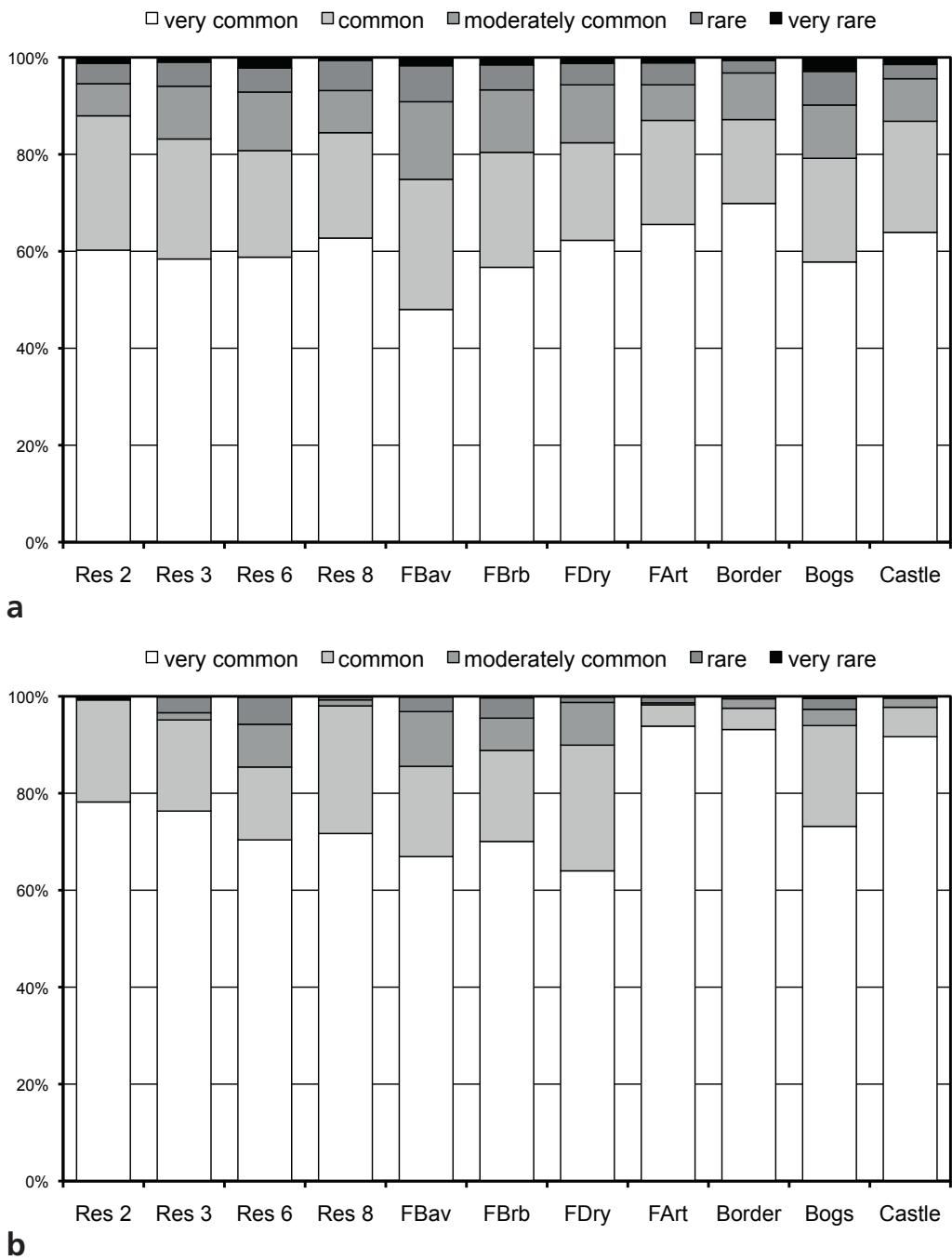


Fig. 4. Percentages of frequency (very common, common, moderately common, rare, very rare – see text) of spiders in 4 strict forest reserves in Hesse and 7 sites for comparison.

a – species numbers. b – adult specimens.

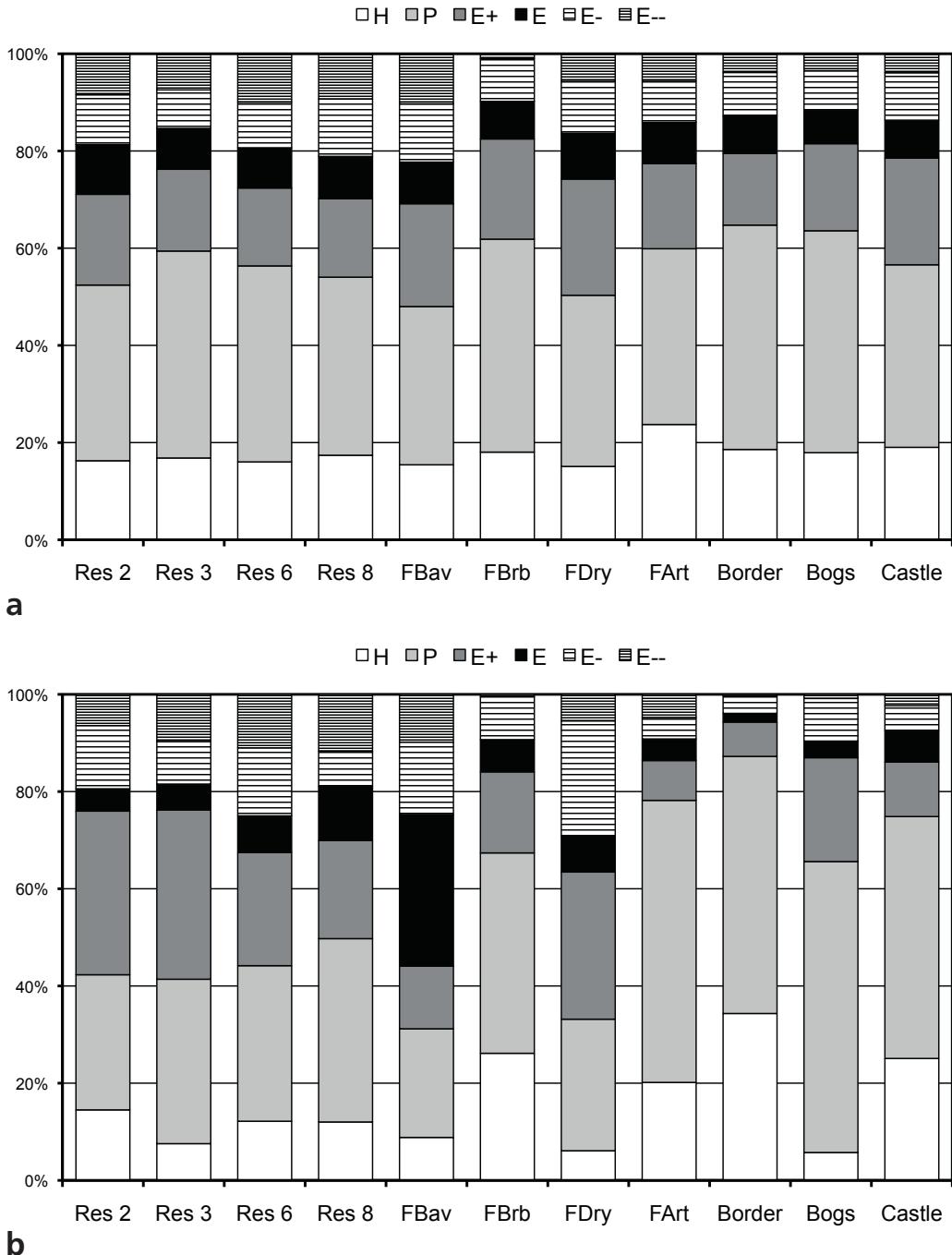


Fig. 5. Percentages of distribution types (H, P, E+, E-, E--: see text) of spiders in 4 strict forest reserves in Hesse and 7 sites for comparison.
a – species numbers. b – adult specimens.

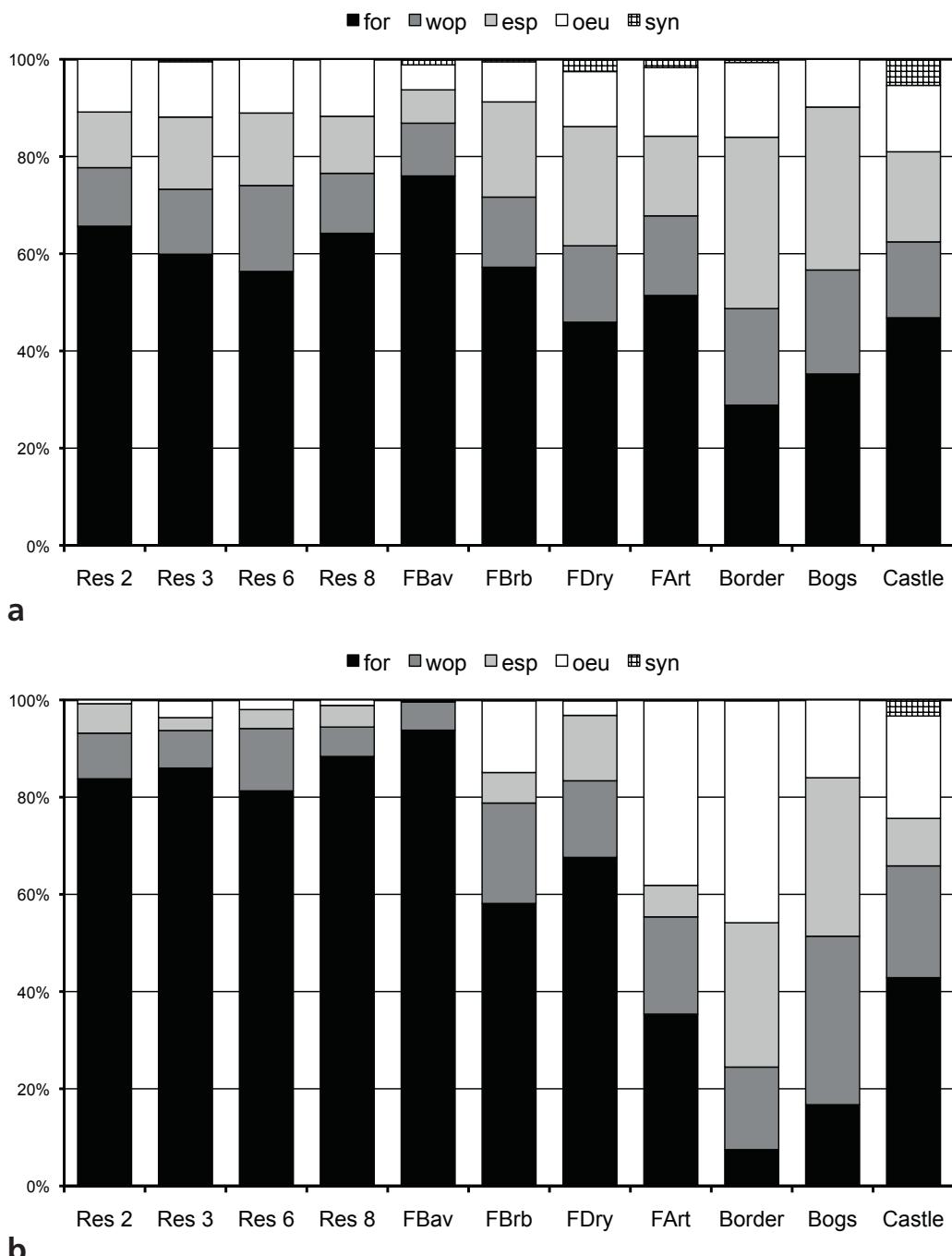


Fig. 6. Percentages of habitat types (for, wop, esp, oeu, syn) of spiders in 4 strict forest reserves in Hesse and 7 sites for comparison.
a – species numbers. b – adult specimens.

Habitat types are summarised as: **for-**ests, **wop**/wooded and open habitats, **esp**/open habitats (specialised), **oeu**/open habitats (eurytopic), **synanthropous** (s.lat., incl. cellars, caves, walls). After Hänggi et al. (1995), Platen et al. (1999) and own data. More detailed habitat types would be possible for other approaches.

RESULTS

Frequency (Fig. 4)

Very common spiders have the highest proportion in open habitats (Castle, Border, even in FArt), i.e. species >64%, specimens >92%.

Rare and very rare spiders have the highest percentage in some forests (Res 3–8, FBav, FBrb) and in the bogs (species 7%–10%, specimens 3%–6%).

Distribution (Fig. 5)

The highest proportion (66%–87%) of specimens with Holarctic and Palaearctic distribution is in the open habitats (see frequency), in the bogs and in FBrb (forests at the lowest altitudes).

The forests in Hesse (Res 2–8) and in Bavaria (FBav, FDry, FArt) have the highest proportion of spiders with a restricted distribution (E-, E--) (species 15%–22%, specimens 19%–29%). The same can be stated for those with the most restricted distributions (E--) (species 6%–10%, specimens 5%–12%).

Habitat (Fig. 6)

Forest spiders (for, wop) have the highest quotients in forest habitats in Hesse (Res 2–8) and S. Bavaria (FBav) (species >73%, specimens >93%).

Compared with the normally treated S. Bavarian forests (species 7%, specimens 0%), the four strict forest reserves in Hesse have a remarkable complement of specialised open land spiders (species 11%–15%, specimens 3%–6%).

Remarkable is also the high proportion of forest spiders near and on the walls (species 63%, specimens 66%).

DISCUSSION AND CONCLUSION

It is probable that the higher proportion of 'common' spiders (i.e. specimens, see Fig. 4b) in the forests compared with open land habitats (FArt, Border, Castle), where the 'very common' ones have higher proportions, simply reflects the lesser availability of data for common forest types in Germany compared with many types of open habitats.

Many spiders in the forests of low mountain ranges (in central and southern Germany) have a more restricted distribution than those of lowland forests and open habitats. Examples are: *Cinetata gradata*, *Formiphantes lephyphantiformis*, *Gongylidiellum edentatum*, *Leptyphantes nodifer*, *Oreonetides quadridentatus*, *Pseudocarorita thaleri* (compare Malten 1999, 2001, Malten & Blick 2007, Blick 2008).

Even a rough classification of preferred habitats of the species delivers interesting results for forests as well as for other types of habitats.

Specimen numbers show greater contrasts between data sets than species numbers.

This method of analysis has to be tested with more sets of data, but it seems to produce valuable results.

Finally: The biodiversity of the spider fauna even in (formerly) normally treated forests is unexpectedly high and it contains more rare and specialised spiders and those with restricted distributions than expected.

ACKNOWLEDGEMENTS

The research was conducted in cooperation with, and financially supported by the Landesbetrieb Hessen-Forst. Many thanks go to U. Schulz and T. Taeger (Eberswalde), M. Scheidler (Bayreuth), T. Sammorye (Zwickau, formerly Plauen), T. Findeis (Plauen) and D. Tolke (Chemnitz), S. Beyer (Mitwitz), F. Burger (Freising) for allowing use of the summarised data of unpublished projects, to J. Dunlop (Berlin) and A. Liston (Müncheberg) for checking the English, to the project co-workers A. Malten, J.-P. Kopelke and W.H.O. Dorow (Frankfurt/Main)

and last but not least to Aloysius Staudt (Schmelz), for his huge work for the German distribution maps.

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APPENDIX

Spider species recorded in four Strict Forest Reserves in Hesse (see text), nomenclature and families follow Platnick (2008), J = only recorded as juvenile/s, species names in **bold** mark first records for Hesse.

Tenuiphantes mengei/aff. *mengei*: two different 'forms' of *T. mengei* were recorded. 'True' *mengei* sensu Roberts (1987) and Bosmans (1991), 'aff. *mengei*' sensu Wiehle (1956) and Helsdingen et al. (1977).

| species | author | frequency | distrib | habitat | Res 2 | Res 3 | Res 6 | Res 8 |
|-------------------------------|-------------------------|-------------------|---------|---------|-------|-------|-------|-------|
| Segestriidae | | | | | | | | |
| <i>Segestria senoculata</i> | (Linnaeus, 1758) | very common | P | for | 20 | 23 | | 27 |
| Dysderidae | | | | | | | | |
| <i>Harpactea hombergi</i> | (Scopoli, 1763) | very common | E- | for | | | | 3 |
| <i>Harpactea lepida</i> | (C.L. Koch, 1838) | common | E-- | for | 239 | 25 | | 205 |
| Mimetidae | | | | | | | | |
| <i>Ero furcata</i> | (Villers, 1789) | very common | P | for | 2 | 7 | 3 | 1 |
| Theridiidae | | | | | | | | |
| <i>Achaearanea lunata</i> | (Clerck, 1757) | common | P | for | 4 | 6 | | 6 |
| <i>Achaearanea simulans</i> | (Thorell, 1875) | moderately common | P | for | | 7 | 1 | 2 |
| <i>Crustulina guttata</i> | (Wider, 1834) | common | P | esp | | | 5 | |
| <i>Dipoena melanogaster</i> | (C.L. Koch, 1837) | common | E+ | for | | | | 1 |
| <i>Enoplognatha ovata</i> | (Clerck, 1757) | very common | H | for | | 14 | 338 | 8 |
| <i>Enoplognatha thoracica</i> | (Hahn, 1833) | very common | H | wop | 1 | 2 | | |
| <i>Euryopis flavomaculata</i> | (C.L. Koch, 1836) | very common | P | wop | 50 | | 1 | |
| <i>Keijia tincta</i> | (Walckenaer, 1802) | very common | H | for | 5 | 11 | 2 | 3 |
| <i>Neottiura bimaculata</i> | (Linnaeus, 1767) | very common | H | wop | | 1 | 1 | |
| <i>Paidiscura pallens</i> | (Blackwall, 1834) | very common | E+ | for | 12 | 163 | 54 | 28 |
| <i>Pholcomma gibbum</i> | (Westring, 1851) | common | E+ | for | 5 | 1 | | |
| <i>Phycosoma inornatum</i> | (O. P.-Cambridge, 1861) | very rare | E- | for | | | 1 | |
| <i>Robertus lividus</i> | (Blackwall, 1836) | very common | H | for | 107 | 31 | 80 | 54 |
| <i>Robertus neglectus</i> | (O. P.-Cambridge, 1871) | common | P | wop | | | 8 | 14 |
| <i>Robertus scoticus</i> | Jackson, 1914 | moderately common | P | for | | 10 | 551 | |
| <i>Theridion mystaceum</i> | L. Koch, 1870 | common | E | for | 6 | 15 | 4 | |
| <i>Theridion pinastri</i> | L. Koch, 1872 | common | P | for | | | 14 | |
| <i>Theridion sisypium</i> | (Clerck, 1757) | common | P | esp | | | 1 | |
| <i>Theridion varians</i> | Hahn, 1833 | very common | H | for | 1 | 9 | 13 | 15 |
| Linyphiidae | | | | | | | | |
| <i>Agyneta cauta</i> | (O. P.-Cambridge, 1902) | moderately common | P | wop | | | | 1 |

| species | author | frequency | distrib | habitat | Res 2 | Res 3 | Res 6 | Res 8 |
|--------------------------------------|-------------------------|-------------------|---------|---------|-------|-------|-------|-------|
| <i>Agyneta conigera</i> | (O. P.-Cambridge, 1863) | common | P | for | 2 | 37 | 202 | 2 |
| <i>Allomengea vidua</i> | (L. Koch, 1879) | common | H | esp | | | 8 | |
| <i>Araeoncus humilis</i> | (Blackwall, 1841) | very common | E+ | esp | 22 | 17 | 10 | 32 |
| <i>Asthenargus paganus</i> | (Simon, 1884) | common | E+ | for | 49 | 164 | 165 | 27 |
| <i>Bathyphantes approximatus</i> | (O. P.-Cambridge, 1871) | very common | E+ | wop | | | 1 | |
| <i>Bathyphantes gracilis</i> | (Blackwall, 1841) | very common | H | oeu | 12 | 5 | 16 | 15 |
| <i>Bathyphantes nigrinus</i> | (Westring, 1851) | very common | P | for | 3 | | 44 | 4 |
| <i>Bathyphantes parvulus</i> | (Westring, 1851) | very common | E- | oeu | 2 | 6 | 43 | 1 |
| <i>Bathyphantes similis</i> | Kulczynski, 1894 | rare | E-- | wop | | | 1 | |
| <i>Bolyphantes alticeps</i> | (Sundevall, 1833) | moderately common | P | esp | 1 | 40 | 36 | |
| <i>Centromerita bicolor</i> | (Blackwall, 1833) | very common | E | oeu | 2 | 3 | 18 | 2 |
| <i>Centromerita concinna</i> | (Thorell, 1875) | common | E | wop | 53 | 7 | | |
| <i>Centromerus cavernarum</i> | (L. Koch, 1872) | moderately common | E-- | for | 3 | 6 | 1 | 17 |
| <i>Centromerus dilutus</i> | (O. P.-Cambridge, 1875) | common | E- | for | 528 | 2 | | 5 |
| <i>Centromerus incilium</i> | (L. Koch, 1881) | common | E | for | | | | 1 |
| <i>Centromerus leruthi</i> | Fage, 1933 | moderately common | E-- | for | | | 10 | |
| <i>Centromerus pabulator</i> | (O. P.-Cambridge, 1875) | very common | E- | for | 2 | 42 | | 5 |
| <i>Centromerus subcaecus</i> | Kulczynski, 1914 | very rare | E-- | for | | | 9 | 4 |
| <i>Centromerus sylvaticus</i> | (Blackwall, 1841) | very common | H | wop | 715 | 235 | 477 | 358 |
| <i>Ceratinella brevis</i> | (Wider, 1834) | very common | P | for | 79 | 83 | 4 | 7 |
| <i>Cinetata gradata</i> | (Simon, 1881) | rare | E-- | for | 2 | 12 | 19 | 2 |
| <i>Cnephalocotes obscurus</i> | (Blackwall, 1834) | very common | P | oeu | 6 | 22 | 16 | 10 |
| <i>Dicymbium nigrum brevisetosum</i> | Locket, 1962 | very common | E-- | oeu | 3 | 3 | 8 | 7 |
| <i>Dicymbium tibiale</i> | (Blackwall, 1836) | common | E- | for | 19 | | 52 | 165 |
| <i>Diplocephalus cristatus</i> | (Blackwall, 1833) | very common | H | esp | 1011 | | 1 | 585 |
| <i>Diplocephalus latifrons</i> | (O. P.-Cambridge, 1863) | very common | E+ | for | 24 | 45 | 1201 | 10 |
| <i>Diplocephalus permixtus</i> | (O. P.-Cambridge, 1871) | common | E- | wop | | 7 | 20 | |
| <i>Diplocephalus picinus</i> | (Blackwall, 1841) | very common | E+ | for | 92 | 52 | 735 | 90 |
| <i>Diplostyla concolor</i> | (Wider, 1834) | very common | H | wop | 208 | 62 | 196 | 169 |
| <i>Dismodicus bifrons</i> | (Blackwall, 1841) | very common | P | wop | | | 2 | 1 |
| <i>Dismodicus elevatus</i> | (C.L. Koch, 1838) | moderately common | E- | for | | | | 1 |
| <i>Drapetisca socialis</i> | (Sundevall, 1833) | very common | P | for | 102 | 1110 | 1374 | 725 |
| <i>Entelecara congenera</i> | (O. P.-Cambridge, 1879) | common | E- | for | 28 | 4 | | 1 |
| <i>Entelecara erythropus</i> | (Westring, 1851) | common | P | for | 469 | 129 | 249 | 855 |
| <i>Erigone atra</i> | Blackwall, 1833 | very common | H | oeu | 15 | 47 | 85 | 77 |

| species | author | frequency | distrib | habitat | Res 2 | Res 3 | Res 6 | Res 8 |
|---|-------------------------|-------------------|---------|---------|-------|-------|-------|-------|
| <i>Erigone dentipalpis</i> | (Wider, 1834) | very common | H | oeu | 3 | 15 | 13 | 10 |
| <i>Erigonella hiemalis</i> | (Blackwall, 1841) | very common | E- | wop | 7 | 1 | 9 | 8 |
| <i>Formiphantes lephthyphantiformis</i> | (Strand, 1907) | rare | E-- | for | | | 45 | |
| <i>Gonatium hilare</i> | (Thorell, 1875) | rare | E- | for | 1 | 7 | | 9 |
| <i>Gonatium paradoxum</i> | (L. Koch, 1869) | moderately common | E | wop | | | | 1 |
| <i>Gonatium rubellum</i> | (Blackwall, 1841) | common | P | for | 1 | | 5 | 878 |
| <i>Gonatium rubens</i> | (Blackwall, 1833) | very common | P | for | 4 | | | 164 |
| <i>Gongylidiellum edentatum</i> | Miller, 1951 | very rare | E-- | for | 47 | | 3 | |
| <i>Gongylidiellum latebricola</i> | (O. P.-Cambridge, 1871) | very common | E | for | 5 | 27 | | |
| <i>Gongylidiellum vivum</i> | (O. P.-Cambridge, 1875) | common | E | wop | 4 | 11 | 11 | |
| <i>Helophora insignis</i> | (Blackwall, 1841) | moderately common | H | wop | | | 488 | 129 |
| <i>Hilaira excisa</i> | (O. P.-Cambridge, 1871) | moderately common | E | esp | 5 | | 286 | |
| <i>Hypomma cornutum</i> | (Blackwall, 1833) | common | E+ | for | | | 1 | |
| <i>Improphanthes nitidus</i> | (Thorell, 1875) | rare | E-- | for | 1 | | | |
| <i>Jacksonella falconeri</i> | (Jackson, 1908) | moderately common | E-- | for | 3 | | | |
| <i>Labulla thoracica</i> | (Wider, 1834) | common | E | for | 64 | 98 | 89 | 263 |
| <i>Lepthyphantes minutus</i> | (Blackwall, 1833) | common | H | for | 11 | 17 | 32 | 8 |
| <i>Lepthyphantes nodifer</i> | Simon, 1884 | rare | E-- | for | | | 2 | 2 |
| <i>Linyphia hortensis</i> | Sundevall, 1830 | very common | P | for | 6 | 5 | 1 | 5 |
| <i>Linyphia triangularis</i> | (Clerck, 1757) | very common | P | for | 12 | 13 | 111 | 186 |
| <i>Lophomma punctatum</i> | (Blackwall, 1841) | common | P | wop | 1 | | 34 | |
| <i>Macrargus rufus</i> | (Wider, 1834) | very common | E | for | 100 | 171 | 110 | 150 |
| <i>Mansuphanes mansuetus</i> | (Thorell, 1875) | common | E- | for | 7 | 72 | 1 | |
| <i>Maso sundevalli</i> | (Westring, 1851) | very common | H | for | 6 | 5 | 1 | |
| <i>Meioneta affinis</i> | (Kulczynski, 1898) | very common | E+ | esp | | | | 1 |
| <i>Meioneta innotabilis</i> | (O. P.-Cambridge, 1863) | moderately common | E+ | for | 1 | 9 | 2 | |
| <i>Meioneta rurestris</i> | (C.L. Koch, 1836) | very common | P | esp | 5 | 44 | 106 | 19 |
| <i>Meioneta saxatilis</i> | (Blackwall, 1844) | very common | E+ | wop | 2 | 2 | 13 | |
| <i>Micrargus herbigradus</i> | (Blackwall, 1854) | very common | P | for | 639 | 390 | 691 | 874 |
| <i>Microneta viaria</i> | (Blackwall, 1841) | very common | H | for | 117 | 43 | 130 | 164 |
| <i>Mioxena blanda</i> | (Simon, 1884) | common | E- | esp | 1 | | | |
| <i>Moebelia penicillata</i> | (Westring, 1851) | common | E+ | for | 19 | 65 | 12 | 5 |
| <i>Monocephalus castaneipes</i> | (Simon, 1884) | rare | E-- | for | | 249 | 862 | |
| <i>Neriene clathrata</i> | (Sundevall, 1830) | very common | H | for | 4 | 8 | 1 | |
| <i>Neriene emphana</i> | (Walckenaer, 1842) | common | P | for | 2 | 40 | 118 | 26 |
| <i>Neriene peltata</i> | (Wider, 1834) | very common | E+ | for | 4 | 24 | 3 | |
| <i>Obscuriphantes obscurus</i> | (Blackwall, 1841) | common | P | for | | 2 | 26 | |
| <i>Oedothorax agrestis</i> | (Blackwall, 1853) | common | P | esp | 1 | 1 | | |

| species | author | frequency | distrib | habitat | Res 2 | Res 3 | Res 6 | Res 8 |
|-----------------------------------|---------------------------|-------------------|---------|---------|-------|-------|-------|-------|
| <i>Oedothorax apicatus</i> | (Blackwall, 1850) | very common | P | oeu | 3 | | 11 | 11 |
| <i>Oedothorax fuscus</i> | (Blackwall, 1834) | very common | E+ | oeu | 1 | 5 | 12 | |
| <i>Oedothorax gibbosus</i> | (Blackwall, 1841) | very common | P | esp | | 2 | 9 | |
| <i>Oedothorax retusus</i> | (Westring, 1851) | very common | P | esp | | | 2 | 1 |
| <i>Oreonetides quadridentatus</i> | (Wunderlich, 1972) | very rare | E-- | for | | 3 | 13 | |
| <i>Oryphantes angulatus</i> | (O. P.-Cambridge, 1881) | rare | E+ | esp | | | | 13 |
| <i>Ostearius melanopygius</i> | (O. P.-Cambridge, 1879) | common | K | esp | 2 | | 5 | |
| <i>Palliduphantes ericaeus</i> | (Blackwall, 1853) | common | E- | oeu | 4 | 15 | 28 | |
| <i>Palliduphantes pallidus</i> | (O. P.-Cambridge, 1871) | very common | E | wop | 24 | 9 | 20 | 66 |
| <i>Panamomops affinis</i> | Miller & Kratochvíl, 1939 | rare | E-- | for | | | 139 | |
| <i>Panamomops mengei</i> | Simon, 1926 | moderately common | E+ | for | | | | 1 |
| <i>Pelecopsis parallelia</i> | (Wider, 1834) | very common | P | esp | | 1 | 11 | |
| <i>Pelecopsis radicicola</i> | (L. Koch, 1872) | common | E- | wop | 1 | | | 11 |
| <i>Pityohyphantes phrygianus</i> | (C.L. Koch, 1836) | moderately common | P | for | J | 2 | 4 | |
| <i>Pocadicnemis pumila</i> | (Blackwall, 1841) | very common | H | esp | 8 | 91 | 3 | 2 |
| <i>Poeciloneta variegata</i> | (Blackwall, 1841) | moderately common | P | for | | 15 | 7 | 3 |
| <i>Porrhomma campbelli</i> | F.O. P.-Cambridge, 1894 | moderately common | E- | for | 17 | 8 | 24 | |
| <i>Porrhomma convexum</i> | (Westring, 1851) | moderately common | E+ | for | | | | 3 |
| <i>Porrhomma egeria</i> | Simon, 1884 | moderately common | E- | for | | | | 3 |
| <i>Porrhomma lativelum</i> | Tretzel, 1956 | moderately common | E-- | wop | | | 1 | 2 |
| <i>Porrhomma microphthalmum</i> | (O. P.-Cambridge, 1871) | very common | E | esp | 5 | 24 | 15 | 21 |
| <i>Porrhomma montanum</i> | Jackson, 1913 | rare | P | for | | | | 2 |
| <i>Porrhomma oblitum</i> | (O. P.-Cambridge, 1871) | moderately common | E-- | wop | | 2 | 2 | 1 |
| <i>Porrhomma pallidum</i> | Jackson, 1913 | common | P | for | 15 | 24 | 46 | 11 |
| <i>Porrhomma pygmaeum</i> | (Blackwall, 1834) | very common | P | wop | | | | 1 |
| <i>Pseudocarorita thaleri</i> | (Saaristo, 1971) | rare | E-- | for | 10 | 1 | 24 | 47 |
| <i>Pseudomaro aenigmaticus</i> | Denis, 1966 | very rare | E-- | esp | 1 | | | |
| <i>Saaristoa abnormis</i> | (Blackwall, 1841) | very common | E- | for | | | 10 | |
| <i>Saaristoa firma</i> | (O. P.-Cambridge, 1905) | rare | E-- | for | 2 | 4 | 8 | 1 |
| <i>Saloca diceros</i> | (O. P.-Cambridge, 1871) | common | E-- | for | 3 | 102 | 824 | 462 |
| <i>Semljicola faustus</i> | (O. P.-Cambridge, 1900) | very rare | E- | wop | | | | 4 |

| species | author | frequency | distrib | habitat | Res 2 | Res 3 | Res 6 | Res 8 |
|-----------------------------------|-------------------------|-------------------|---------|---------|-------|-------|-------|-------|
| <i>Silometopus elegans</i> | (O. P.-Cambridge, 1872) | moderately common | P | esp | | | 1 | |
| <i>Silometopus reussi</i> | (Thorell, 1871) | common | P | esp | | | 1 | |
| <i>Stemonyphantes lineatus</i> | (Linnaeus, 1758) | very common | P | esp | | 1 | | 1 |
| <i>Tallusia experta</i> | (O. P.-Cambridge, 1871) | very common | P | esp | 1 | 1 | 3 | |
| <i>Tapinocyba affinis</i> | Lessert, 1907 | rare | E- | for | | | | 1 |
| <i>Tapinocyba insecta</i> | (L. Koch, 1869) | very common | E- | for | 338 | 266 | 276 | 6 |
| <i>Tapinocyba pallens</i> | (O. P.-Cambridge, 1872) | common | E+ | for | 1151 | | | 177 |
| <i>Tapinocyba praecox</i> | (O. P.-Cambridge, 1873) | common | E-- | wop | | 1 | 1 | |
| <i>Tapinopa longidens</i> | (Wider, 1834) | common | E+ | for | 1 | 1 | | |
| <i>Tenuiphantes alacris</i> | (Blackwall, 1853) | common | P | for | 46 | 85 | 149 | 9 |
| <i>Tenuiphantes cristatus</i> | (Menge, 1866) | very common | E+ | for | 37 | 82 | 37 | 12 |
| <i>Tenuiphantes flavipes</i> | (Blackwall, 1854) | very common | E+ | for | 10 | 39 | 26 | 7 |
| <i>Tenuiphantes mengei</i> | (Kulczynski, 1887) | very common | P | wop | 10 | 70 | 253 | |
| <i>Tenuiphantes aff. mengei</i> | | | | for | | | | 585 |
| <i>Tenuiphantes tenebricola</i> | (Wider, 1834) | very common | E | for | 280 | 184 | 348 | 172 |
| <i>Tenuiphantes tenuis</i> | (Blackwall, 1852) | very common | E+ | esp | | 22 | 65 | 50 |
| <i>Tenuiphantes zimmermanni</i> | (Bertkau, 1890) | very common | E | for | 243 | 34 | 352 | 1111 |
| <i>Thyreosthenius parasiticus</i> | (Westring, 1851) | common | H | for | 67 | | 23 | 241 |
| <i>Tiso vagans</i> | (Blackwall, 1834) | very common | E | esp | 14 | 2 | 4 | |
| <i>Troxochrus nasutus</i> | Schenkel, 1925 | moderately common | E-- | for | 11 | 24 | 26 | 1 |
| <i>Walckenaeria acuminata</i> | Blackwall, 1833 | very common | E+ | for | 6 | 7 | 12 | 19 |
| <i>Walckenaeria alticeps</i> | (Denis, 1952) | common | E- | wop | | | 1 | |
| <i>Walckenaeria antica</i> | (Wider, 1834) | very common | P | wop | | 4 | | |
| <i>Walckenaeria atrotibialis</i> | (O. P.-Cambridge, 1878) | very common | H | for | 27 | 51 | 33 | 2 |
| <i>Walckenaeria corniculans</i> | (O. P.-Cambridge, 1875) | very common | E+ | for | 48 | 23 | 454 | 217 |
| <i>Walckenaeria cucullata</i> | (C.L. Koch, 1836) | very common | P | for | 345 | 79 | 105 | 191 |
| <i>Walckenaeria cuspidata</i> | Blackwall, 1833 | very common | P | for | 2323 | | 93 | 1793 |
| <i>Walckenaeria dysderoides</i> | (Wider, 1834) | very common | P | for | 3 | 11 | 8 | 53 |
| <i>Walckenaeria furcillata</i> | (Menge, 1869) | very common | E+ | wop | 1 | 11 | | |
| <i>Walckenaeria nudipalpis</i> | (Westring, 1851) | very common | P | wop | | 4 | 20 | 3 |
| <i>Walckenaeria obtusa</i> | Blackwall, 1836 | very common | E- | for | 59 | 22 | 74 | 29 |
| <i>Walckenaeria unicornis</i> | O. P.-Cambridge, 1861 | very common | E+ | esp | | 1 | | |
| <i>Walckenaeria vigilax</i> | (Blackwall, 1853) | very common | H | esp | 3 | 1 | 4 | 1 |
| Tetragnathidae | | | | | | | | |
| <i>Metellina mengei</i> | (Blackwall, 1870) | very common | E | for | 3 | 1 | 5 | 5 |
| <i>Metellina merianae</i> | (Scopoli, 1763) | very common | E+ | for | | | 4 | |
| <i>Metellina segmentata</i> | (Clerck, 1757) | very common | P | wop | 22 | 6 | 255 | 8 |
| <i>Pachygnatha clercki</i> | Sundevall, 1823 | very common | H | esp | | | 3 | 1 |

| species | author | frequency | distrib | habitat | Res 2 | Res 3 | Res 6 | Res 8 |
|--------------------------------|---------------------------|-------------------|---------|---------|-------|-------|-------|-------|
| <i>Pachygnatha degeeri</i> | Sundevall, 1830 | very common | P | oeu | 24 | 26 | 22 | 24 |
| <i>Pachygnatha listeri</i> | Sundevall, 1830 | very common | P | for | 1 | 18 | 20 | 2 |
| <i>Tetragnatha obtusa</i> | C.L. Koch, 1837 | common | P | for | 11 | 49 | | |
| Araneidae | | | | | | | | |
| <i>Aculepeira ceropegia</i> | (Walckenaer, 1802) | very common | P | oeu | | J | J | J |
| <i>Araneus diadematus</i> | Clerck, 1757 | very common | H | for | 25 | 68 | 38 | 27 |
| <i>Araneus quadratus</i> | Clerck, 1757 | very common | P | oeu | | | J | |
| <i>Araneus sturmi</i> | (Hahn, 1831) | common | P | for | 5 | 2 | 1 | 4 |
| <i>Araniella alpica</i> | (L. Koch, 1869) | rare | E+ | for | 3 | 3 | 5 | 6 |
| <i>Araniella cucurbitina</i> | (Clerck, 1757) | very common | P | for | 5 | 8 | 5 | 11 |
| <i>Araniella displicata</i> | (Hentz, 1847) | rare | H | for | | 1 | | |
| <i>Araniella opisthographa</i> | (Kulczynski, 1905) | common | P | for | | 5 | 2 | 2 |
| <i>Cercidia prominens</i> | (Westring, 1851) | common | H | wop | | 1 | | |
| <i>Cyclosa conica</i> | (Pallas, 1772) | very common | H | for | 1 | 1 | | |
| <i>Gibbaranea omoeda</i> | (Thorell, 1870) | rare | P | for | | 4 | 3 | |
| <i>Hypsosinga sanguinea</i> | (C.L. Koch, 1844) | common | P | esp | | 1 | | |
| <i>Nuctenea umbratica</i> | (Clerck, 1757) | very common | P | for | | J | | |
| <i>Zygilla atrica</i> | (C.L. Koch, 1845) | rare | E+ | for | | | | 1 |
| Lycosidae | | | | | | | | |
| <i>Alopecosa cuneata</i> | (Clerck, 1757) | very common | P | esp | | | 1 | |
| <i>Alopecosa inquilina</i> | (Clerck, 1757) | moderately common | P | for | | 7 | | |
| <i>Alopecosa pulverulenta</i> | (Clerck, 1757) | very common | P | oeu | 2 | 7 | 21 | 3 |
| <i>Alopecosa taeniata</i> | (C.L. Koch, 1835) | moderately common | P | for | | 11 | | |
| <i>Aulonia albimana</i> | (Walckenaer, 1805) | very common | E+ | esp | J | J | J | J |
| <i>Pardosa amentata</i> | (Clerck, 1757) | very common | P | wop | | | 144 | |
| <i>Pardosa lugubris</i> | (Walckenaer, 1802) | very common | P | for | 21 | 300 | 123 | 36 |
| <i>Pardosa palustris</i> | (Linnaeus, 1758) | very common | H | oeu | 1 | J | 6 | J |
| <i>Pardosa pullata</i> | (Clerck, 1757) | very common | P | oeu | 23 | 168 | 12 | 2 |
| <i>Pardosa saltans</i> | Töpfer-Hofmann, 2000 | common | E-- | for | 349 | 613 | | 101 |
| <i>Pirata hygrophilus</i> | Thorell, 1872 | very common | P | wop | 25 | 2 | 112 | |
| <i>Pirata uliginosus</i> | (Thorell, 1856) | common | E+ | esp | | | 2 | |
| <i>Trochosa ruricola</i> | (De Geer, 1778) | very common | H | oeu | | 2 | | 4 |
| <i>Trochosa spinipalpis</i> | (F.O. P.-Cambridge, 1895) | very common | P | esp | | | 59 | |
| <i>Trochosa terricola</i> | Thorell, 1856 | very common | H | wop | 27 | 185 | 22 | 110 |
| <i>Xerolycosa nemoralis</i> | (Westring, 1861) | very common | P | wop | | 121 | | |
| Pisauridae | | | | | | | | |
| <i>Pisaura mirabilis</i> | (Clerck, 1757) | very common | P | oeu | 4 | 5 | J | |
| Zoridæ | | | | | | | | |
| <i>Zora nemoralis</i> | (Blackwall, 1861) | common | P | for | | 1 | | 3 |
| <i>Zora spinimana</i> | (Sundevall, 1833) | very common | P | oeu | 33 | 91 | 4 | 15 |

| species | author | frequency | distrib | habitat | Res 2 | Res 3 | Res 6 | Res 8 |
|-------------------------------|-------------------------|-------------------|---------|---------|-------|-------|-------|-------|
| Agelenidae | | | | | | | | |
| <i>Agelena labyrinthica</i> | (Clerck, 1757) | very common | P | oeu | | 17 | | |
| <i>Histopona torpida</i> | (C.L. Koch, 1837) | very common | E+ | for | 358 | 194 | 110 | 208 |
| <i>Malthonica ferruginea</i> | (Panzer, 1804) | common | E+ | for | 1 | | 2 | 1 |
| <i>Malthonica silvestris</i> | (L. Koch, 1872) | very common | E | for | | | 2 | 28 |
| <i>Textrix denticulata</i> | (Olivier, 1789) | moderately common | E- | esp | | | | 2 |
| Cybaeidae | | | | | | | | |
| <i>Cybaeus angustiarum</i> | L. Koch, 1868 | moderately common | E- | wop | | | 21 | 4 |
| Hahniidae | | | | | | | | |
| <i>Antistea elegans</i> | (Blackwall, 1841) | very common | P | wop | 16 | | 4 | |
| <i>Cryphoeca silvicola</i> | (C.L. Koch, 1834) | common | P | for | 15 | 29 | 127 | 40 |
| <i>Hahnia helveola</i> | Simon, 1875 | common | E- | for | 67 | 11 | | 5 |
| <i>Hahnia pusilla</i> | C.L. Koch, 1841 | very common | E | for | | 46 | 1 | 55 |
| Dictynidae | | | | | | | | |
| <i>Cicurina cicur</i> | (Fabricius, 1793) | very common | E+ | wop | 566 | 104 | 19 | 116 |
| <i>Lathys humilis</i> | (Blackwall, 1855) | common | P | for | 34 | 5 | 1 | |
| <i>Nigma flavescens</i> | (Walckenaer, 1830) | common | E+ | for | | 1 | | |
| Amaurobiidae | | | | | | | | |
| <i>Amaurobius fenestralis</i> | (Ström, 1768) | very common | E+ | for | 3097 | 2598 | 665 | 1887 |
| <i>Callobius claustrarius</i> | (Hahn, 1833) | common | E+ | for | | 217 | 216 | 517 |
| <i>Coelotes terrestris</i> | (Wider, 1834) | very common | E- | for | 1257 | 588 | 1765 | 821 |
| <i>Eurocoelotes inermis</i> | (L. Koch, 1855) | very common | E-- | for | 487 | 35 | 31 | 496 |
| Anyphaenidae | | | | | | | | |
| <i>Anyphaena accentuata</i> | (Walckenaer, 1802) | very common | E+ | for | 384 | 19 | | 3 |
| Liocranidae | | | | | | | | |
| <i>Agroeca brunnea</i> | (Blackwall, 1833) | very common | P | for | 26 | 22 | | 24 |
| <i>Agroeca proxima</i> | (O. P.-Cambridge, 1871) | very common | E | esp | | | | 1 |
| <i>Apostenus fuscus</i> | Westring, 1851 | common | E- | for | | | | 77 |
| Clubionidae | | | | | | | | |
| <i>Clubiona brevipes</i> | Blackwall, 1841 | common | E+ | for | 25 | 8 | | |
| <i>Clubiona caeruleascens</i> | L. Koch, 1867 | moderately common | P | for | | 3 | 1 | |
| <i>Clubiona comta</i> | C.L. Koch, 1839 | very common | E+ | for | 32 | 10 | 7 | 7 |
| <i>Clubiona diversa</i> | O. P.-Cambridge, 1862 | common | P | wop | 9 | 6 | 1 | 3 |
| <i>Clubiona neglecta</i> | O. P.-Cambridge, 1862 | very common | P | esp | | 1 | | |
| <i>Clubiona pallidula</i> | (Clerck, 1757) | very common | H | for | 85 | 8 | 15 | 5 |
| <i>Clubiona reclusa</i> | O. P.-Cambridge, 1863 | very common | P | oeu | 1 | 1 | 15 | 1 |

| species | author | frequency | distrib | habitat | Res 2 | Res 3 | Res 6 | Res 8 |
|------------------------------------|-----------------------|-------------------|---------|---------|-------|-------|-------|-------|
| <i>Clubiona subsultans</i> | Thorell, 1875 | moderately common | P | for | 10 | 14 | | |
| <i>Clubiona terrestris</i> | Westring, 1851 | very common | E- | for | 39 | 26 | 10 | 84 |
| <i>Clubiona trivialis</i> | C.L. Koch, 1843 | moderately common | H | for | | 2 | | |
| Corinnidae | | | | | | | | |
| <i>Phrurolithus festivus</i> | (C.L. Koch, 1835) | very common | P | oeu | | 5 | | 7 |
| Gnaphosidae | | | | | | | | |
| <i>Drassodes lapidosus</i> | (Walckenaer, 1802) | very common | P | esp | | 1 | | |
| <i>Drassyllus pusillus</i> | (C.L. Koch, 1833) | very common | P | esp | 1 | | | |
| <i>Haplodrassus signifer</i> | (C.L. Koch, 1839) | very common | H | esp | 3 | 11 | | 1 |
| <i>Haplodrassus silvestris</i> | (Blackwall, 1833) | very common | E | for | 11 | 29 | | 13 |
| <i>Haplodrassus umbratilis</i> | (L. Koch, 1866) | very common | P | wop | | 1 | | |
| <i>Micaria pulicaria</i> | (Sundevall, 1831) | very common | H | oeu | | 5 | | 1 |
| <i>Zelotes clivicola</i> | (L. Koch, 1870) | common | E | for | 10 | 8 | | |
| <i>Zelotes erebeus</i> | (Thorell, 1871) | moderately common | E+ | esp | | 54 | | |
| <i>Zelotes latreillei</i> | (Simon, 1878) | very common | P | esp | | 1 | | 1 |
| <i>Zelotes petrensis</i> | (C.L. Koch, 1839) | very common | P | esp | | 12 | | |
| <i>Zelotes subterraneus</i> | (C.L. Koch, 1833) | very common | P | for | 32 | 166 | 2 | 8 |
| Sparassidae | | | | | | | | |
| <i>Micrommata virescens</i> | (Clerck, 1757) | common | P | esp | 4 | 29 | J | J |
| Philodromidae | | | | | | | | |
| <i>Philodromus albidus</i> | Kulczynski, 1911 | common | E- | for | 2 | | | |
| <i>Philodromus aureolus</i> | (Clerck, 1757) | very common | P | for | 52 | 196 | 19 | 54 |
| <i>Philodromus cespitum</i> | (Walckenaer, 1802) | very common | H | for | | 2 | | |
| <i>Philodromus collinus</i> | C.L. Koch, 1835 | very common | E+ | for | 87 | 412 | 53 | 5 |
| <i>Philodromus fuscomarginatus</i> | (De Geer, 1778) | rare | P | for | | 2 | | |
| <i>Philodromus margaritatus</i> | (Clerck, 1757) | moderately common | P | for | J | 1 | | |
| <i>Philodromus praedatus</i> | O. P.-Cambridge, 1871 | moderately common | P | for | | 3 | 3 | |
| <i>Tibellus oblongus</i> | (Walckenaer, 1802) | very common | H | esp | 4 | J | | 1 |
| Thomisidae | | | | | | | | |
| <i>Coriarachne depressa</i> | (C.L. Koch, 1837) | moderately common | P | for | 1 | | | |
| <i>Diae dorsata</i> | (Fabricius, 1777) | very common | P | for | 75 | 150 | 35 | 19 |
| <i>Misumena vatia</i> | (Clerck, 1757) | very common | H | oeu | 2 | 1 | 1 | |
| <i>Ozyptila praticola</i> | (C.L. Koch, 1837) | very common | H | for | | 1 | | |
| <i>Ozyptila trux</i> | (Blackwall, 1846) | very common | P | wop | | 6 | 17 | |
| <i>Xysticus audax</i> | (Schrank, 1803) | common | P | for | 44 | 115 | 4 | 3 |
| <i>Xysticus cristatus</i> | (Clerck, 1757) | very common | P | esp | | 1 | | |
| <i>Xysticus lanio</i> | C.L. Koch, 1835 | common | P | for | 409 | 264 | 45 | 187 |
| <i>Xysticus ulmi</i> | (Hahn, 1831) | very common | P | esp | | | 2 | |

| species | author | frequency | distrib | habitat | Res 2 | Res 3 | Res 6 | Res 8 |
|--------------------------------|--------------------|----------------------|---------|---------|-------|-------|-------|-------|
| Salticidae | | | | | | | | |
| <i>Aelurillus v-insignitus</i> | (Clerck, 1757) | very common | P | esp | | 4 | | |
| <i>Ballus chalybeius</i> | (Walckenaer, 1802) | common | E+ | for | 43 | 19 | | |
| <i>Euophrys frontalis</i> | (Walckenaer, 1802) | very common | P | wop | 1 | 6 | | 6 |
| <i>Evarcha arcuata</i> | (Clerck, 1757) | very common | P | oeu | | | 1 | |
| <i>Evarcha falcata</i> | (Clerck, 1757) | very common | P | wop | 4 | 60 | | |
| <i>Heliophanus cupreus</i> | (Walckenaer, 1802) | very common | E+ | oeu | | 6 | | |
| <i>Heliophanus dubius</i> | C.L. Koch, 1835 | moderately common | P | esp | | 1 | | |
| <i>Neon reticulatus</i> | (Blackwall, 1853) | very common | H | for | 154 | 13 | 5 | 48 |
| <i>Pellenes tripunctatus</i> | (Walckenaer, 1802) | common | P | esp | | 1 | | |
| <i>Pseudeuophrys erratica</i> | (Walckenaer, 1826) | moderately common | P | for | 12 | 1 | | 3 |
| <i>Salticus cingulatus</i> | (Panzer, 1797) | moderately common | P | for | | 4 | 3 | |
| <i>Salticus zebraneus</i> | (C.L. Koch, 1837) | common | E | for | 2 | 1 | 1 | |
| <i>Sibianor aurocinctus</i> | (Ohlert, 1865) | common | P | esp | | 3 | | |
| <i>Sitticus pubescens</i> | (Fabricius, 1775) | moderately common | E+ | syn | | 2 | | |
| <i>Synageles venator</i> | (Lucas, 1836) | common | P | oeu | 1 | | | |
| <i>Talavera aperta</i> | (Miller, 1971) | rare | E+ | esp | 6 | | | |
| adults | | | | | 18081 | 12576 | 16762 | 16977 |
| species | | | | | 278 | 278 | 278 | 278 |