

# Spiders of the Udmurt Republic, Russia

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## Abstract

## Background

The long-term project "Spiders of the Udmurt Republic" (2007–2018) aimed to research spiders' regional fauna and zoogeography, diversity (including spatial and seasonal patterns) and habitat preferences. We performed the collection of spiders in all natural zones of the republic, habitats and vegetation layers, both at permanent sampling plots and through ad-hoc sampling en route.

## New information

The dataset includes occurrences from 53 geographical points with 10,500 records and more than 35,000 specimens. This increases the existing data on Russian spiders on GBIF by four times, from 11,000 (excluding iNaturalist observations) to 46,000. The dataset allows for the exploration of regional fauna, local and general species distribution, spider phenology and habitat preferences for the purposes of monitoring and conservation.

## Keywords

Araneae, Aranei, abundance, diversity, life stage, occurrence, southern taiga, specimen, Udmurtia

## Introduction

L.K. Krulikovskiy provided the first data related to spiders of Udmurt Republic (Krulikovskiy 1892, Krulikovskiy 1908, Krulikovskiy 1915). A long time later, V.P. Tyshchenko noted ten spider species occurring in the Udmurt Republic in his book (Tyshchenko 1971). T.L. Zubko carried out the first detailed faunistic research on the

spiders of the Republic between 1978 and 1981 where she recorded 72 spider species (Zubko and Roshchinenko 1981), but her collection is currently lost.

In 2007, I started studying the spiders of Udmurtia with a focus on their fauna, diversity, biogeography, ecology and community structure. The study was conducted in cooperation with Prof. S.L. Esyunin (Perm State University) and Prof. S.V. Dedyukhin (Udmurt State University). The first published article (Sozontov and Esyunin 2012) increased the number of known species by 2.5 times (Table 1). In 2013, the entire research history was reviewed to summarise all published data and outline prospects of future investigations (Sozontov 2013). Following this, a number of articles about the region's fauna, biogeography and taxonomy were published (Adakhovskiy et al. 2012, Sozontov and Esyunin 2015, Esyunin and Sozontov 2015, Sozontov 2015a). Finally, the manuscript of my own PhD thesis "Fauna and ecology of spiders (Aranei) of the Udmurt Republic: diversity, habitat distribution, community structure" contains an integrated analysis of all the data concerning spider fauna structure and origins, spider community diversity and structure and their spatiotemporal variation (Sozontov 2018).

This research project was conducted according to the principles and methods of ecological-faunistic investigations (Dedyukhin 2011). The main idea of this approach is combining detailed study of reference local faunas (Chernov and Penev 1993, Penev 1996, Penev 1997) and ad-hoc sampling en route. The ecological-faunistic approach assumes sampling in all natural zones of the Republic, habitats and vegetation layers (from soil litter to canopy) with relevant methods. Thus, we collected quantitative data on eight local faunas and species occurrences at 45 occasional points, which are helpful for exploring the regional distribution of species and maximising the proportion of discovered fauna. Well-studied local faunas for the project are marked in purple on the map shown in Fig. 1 and include the "Siva" permanent field study station, Ust-Belsk, Golushurma, Sokolovka, "Sirius" SNT, Novye Zyatci, Chutyр and Hohryaki. Table 2 contains their coordinates and amount of material collected.

## Project description

**Title:** Spiders of the Udmurt Republic

**Personnel:** Artѐm Sozontov

## Sampling methods

**Description:** The dataset includes spider (order Araneae) species occurrences within administrative borders of the Udmurt Republic. The collection contains material picked up over 12 years, from 2007 to 2018. Occurrences presented in the dataset come from 53 geographical points providing around 10,500 records in the dataset with more than 35,000 specimens recorded (Sozontov 2021). This amount of data extends the current presence of Russian spiders on GBIF by approximately four times, from 11,000 (excluding

iNaturalist observations) to 46,000 (Gbif.Org 2020). Typical seasonal coverage is from May to September, with a few exceptions. The total ratio of spiders by years and months is provided in Fig. 2. There is a total of 53 observed sampling places, collapsing to 21 types of biotopes: floodplain oak forests, riverine deciduous forest strips, watershed lime-forests, pine forests, spruce-fir forests, dark coniferous forests with lime, floodplain stepped meadows, bottomland meadows, upland meadows, sloping stepped meadows, edges of deciduous forests, edges of mixed forests, edges of pine-forests, open raised bogs, forested raised bogs, open lake/pond shores, open river banks, alder groves, buildings (heated and unheated) and agrocoenoses (agricultural fields, orchards, flower and kitchen gardens).

**Sampling description:** Field studies were carried out using common methods: lines of pitfall traps, entomological nets, litter sifting and manual collecting (Tyshchenko 1971, Woodcock 2005, Oliger 2010). Plastic cups with a 7 cm diameter served as pitfall traps and 4% acetic acid with a pellet of surface-active substance as killing and preserving agents. Trap lines included 5 to 15 traps, with a spacing of 3 m. Spiders from grass, shrub and canopy (lower than 3 m) layers were collected using an entomological net of 35 cm hoop diameter and 150 cm handle length. All the pitfall traps and some of the entomological net-sweeping samples are quantitative and can be normalised to 100 trap-days or 200 sweeps. The litter sifting and manual collecting samples are qualitative.

**Quality control:** All collected spider specimens were wet-preserved in 70% alcohol. Stored material is shared between the Institute of Plant and Animal Ecology (IPAE UB RAS, Ekaterinburg, the vast majority), Perm State University (Perm), Udmurt State University (Izhevsk) and the Zoological Museum of the Moscow State University (Moscow). Aside from our own material, the dataset involves the purposeful collections of Svetlana Shirobokova, Konstantin Tatarin, Evgenia Shirobokova, Alesya Uskova and Sergey Dedyukhin and specimens occasionally collected by other colleagues, listed as legitimate collectors in the "recordedBy" DarwinCore column. The majority of the material has identification to species level (71%) and almost all the remaining to genus level (29%, primarily juveniles). Species identification was performed mainly by the author; about 10% of specimens were cross-checked or identified by Prof. S.L. Esyunin (Perm). Taxonomy nomenclature complies with the World Spider Catalog (World Spider Catalog 2021).

**Step description:** The dataset is not a part of any ongoing projects.

## Geographic coverage

**Description:** All collecting points are limited by administrative borders of the Udmurt Republic, one of the federal subjects of the Russian Federation (Fig. 3). Being 42,000 km<sup>2</sup> in area, it extends 300 km in a north-south direction and 200 km in a west-east direction. The studied region belongs to the east of the Russian plain, borders with the western piedmont of the Ural Mountains and is situated in the interstream area of the Vyatka and Kama Rivers (Illarionov 2009). Relief of the Republic can be defined as a hilly plain.

Regional altitudes lie within 52 and 333 m a.s.l. (Podsosova 1972); collecting points lie between 61 and 254 m a.s.l. The territory includes southern taiga (1/3) and mixed forest (2/3) subzones; the southernmost area is under the intense influence of the forest-steppe (Shadrin 1999, Baranova et al. 2010), which reflects on spider fauna notably.

**Coordinates:** 55.857 and 58.557 Latitude; 51.129 and 54.471 Longitude.

## Taxonomic coverage

**Description:** The dataset includes 403 identified spider species of 181 genera and 26 families. About 25,000 individuals are identified to the species level (23,645 adult and 1,296 juvenile specimens) and about 10,000 individuals to the genus level (305 adult and 9678 juvenile specimens). Amongst them, there are 321 individuals with unclear species status and requiring further taxonomic investigations, belonging to Linyphiidae (189), Clubionidae (38), Thomisidae (24), Lycosidae (20), Theridiidae (13), Titanoecidae (9), Gnaphosidae (5), Tetragnathidae (5), Araneidae (5), Philodromidae (5), Dictynidae (3), Salticidae (2), Hahniidae (1), Cheiracanthiidae (1) and Mimetidae (1). Some of the linyphiids (16 adult and 223 juvenile specimens) remain identified only at the family level.

### Taxa included:

Rank	Scientific Name	Common Name
order	Araneae Clerck, 1757	Spiders

## Temporal coverage

**Notes:** 2007-06-21 through 2018-08-02

## Usage licence

**Usage licence:** Other

**IP rights notes:** Creative Commons Attribution (CC-BY) 4.0 License.

## Data resources

**Data package title:** Spiders of the Udmurt Republic, Russia

**Resource link:** <https://www.gbif.org/dataset/01f33154-d6f7-4079-a9e2-f0a9ca8e8630>

**Alternative identifiers:** <https://doi.org/10.15468/nvzbxq>, [http://gbif.ru:8080/ipt/resource?r=spiders\\_udm21](http://gbif.ru:8080/ipt/resource?r=spiders_udm21)

**Number of data sets:** 1

**Data set name:** Spiders of the Udmurt Republic, Russia

**Data format:** Darwin Core

**Description:** The dataset is based on the results of a long-term project, "Spiders of the Udmurt Republic" (2007–2018), with some additional data. Samples come from 53 geographical points providing about 10,500 records in the dataset with more than 35,000 specimens recorded. There are 403 spider species in the studied fauna, of 181 genus and 26 families (Table 3). The collected specimens have the age-sex distribution: males (40%), females (28%), subadult spiders (11%) and juveniles (21%). The dataset can help to explore regional fauna, regional and general species distribution, their monitoring, conservation, phenology and relationships with biotic and abiotic conditions.

Column label	Column description
type	The nature or genre of the resource. A variable ("PhysicalObject" for preserved specimen, "Event" for observed or missed individuals).
modified	The most recent date-time on which the resource was changed. A constant ("YYYY-MM-DD").
language	A language of the resource. A constant ("en" = English).
licence	A legal document giving official permission to do something with the resource. A constant ("CC_BY_4_0" = Creative Commons Attribution (CC-BY) 4.0 Licence).
rightsHolder	A person or organisation owning or managing rights over the resource. A constant ("Institute of Plant and Animal Ecology (IPAE), UB RAS").
bibliographicCitation	A bibliographic reference for the resource as a statement indicating how this record should be cited (attributed) when used. A variable.
institutionCode	The name (or acronym) in use by the institution having custody of the object(s) or information referred to in the record. A constant ("Institute of Plant and Animal Ecology (IPAE), UB RAS").
datasetName	The name identifying the dataset from which the record was derived. A constant ("Spiders of the Udmurt Republic").
basisOfRecord	The specific nature of the data record. A variable ("PhysicalObject" for preserved specimen, "Event" for observed or missed individuals).
occurrenceID	An identifier for the occurrence. A variable, constructed from a combination of Protected Area's name (in case of location belongs to one of them) or "id" and row number.
catalogNumber	An identifier (preferably unique) for the record within the dataset or collection. A variable.
recordedBy	A list (concatenated and separated) of names of people, groups or organisations responsible for recording the original occurrence. A variable.

individualCount	The number of individuals represented present at the time of the Occurrence. A variable.
sex	The sex of the biological individual(s) represented in the Occurrence (males, females and juvenile specimens counted, concatenated and separated by ", " in case of mix sex-age stages in a sample). A variable.
lifeStage	The life stage of the biological individual(s) at the time the Occurrence was recorded. A variable (three terms: "adult", "juvenile" or "adult, juvenile").
occurrenceStatus	A statement about the presence or absence of a taxon at a location. A constant ("present").
disposition	The current state of a specimen with respect to the collection identified in collectionCode or collectionID. A variable (three terms: "in collection", "missing", "duplicates elsewhere" and "voucher elsewhere").
associatedReferences	A list (concatenated and separated) of bibliographic references of literature associated with the Occurrence. A variable.
associatedTaxa	A list (concatenated and separated) of identifiers or names of taxa and their associations with the Occurrence. A variable (edificator plant species for forest habitats).
fieldNumber	An identifier given to the event in the field. A variable.
eventDate	The date-time or interval during which an Event occurred. For occurrences, this is the date-time when the event was recorded. A variable.
startDayOfYear	The earliest integer day of the year on which the Event occurred. A variable.
endDayOfYear	The latest integer day of the year on which the Event occurred. A variable.
year	The four-digit year in which the event occurred, according to the Common Era Calendar. A variable.
month	The ordinal month in which the event occurred. A variable.
day	The integer day of the month on which the event occurred. A variable.
verbatimEventDate	The verbatim original representation of the date and time information for an Event. A variable.
habitat	A category of the habitat in which the Event occurred. A variable.
locationID	An identifier for the place of field data collection. A variable.
higherGeography	A list (concatenated and separated) of geographic names less specific than the information captured in the locality term. A variable with the constant begin ("Europe   Russia   Udmurt Republic").
continent	The name of the continent in which the location occurs. A constant ("Europe").
country	The name of the country or major administrative unit in which the location occurs. A constant ("Russia").

countryCode	The standard code for the country in which the location occurs. A constant ("RU").
stateProvince	The name of the next smaller administrative region than country (state, province, canton, department, region etc.) in which the location occurs. A constant ("Udmurt Republic").
county	The full, unabbreviated name of the next smaller administrative region than stateProvince in which the Location occurs. A variable.
locality	The specific description of the place. Less specific geographic information is provided in other geographic terms (higherGeography, continent, country, stateProvince, county). This term may contain information modified from the original to correct perceived errors or standardise the description. A variable.
verbatimLocality	The original textual description of the place. A variable.
minimumElevationInMetres	The lower limit of the range of elevation (altitude above sea level), in metres. A variable.
maximumElevationInMetres	The upper limit of the range of elevation (altitude above sea level), in metres. A variable.
locationRemarks	Comments or notes about the Location. A constant ("Vyatka & Kama interstream area   the Cis-Ural region   western piedmont of the Ural Mountains   the east of the Russian Plain").
decimalLatitude	The geographic latitude (in decimal degrees, using the spatial reference system given in geodeticDatum) of the geographic centre of a location. A variable.
decimalLongitude	The geographic longitude (in decimal degrees, using the spatial reference system given in geodeticDatum) of the geographic centre of a location. A variable.
geodeticDatum	The ellipsoid, geodetic datum or spatial reference system (SRS) upon which the geographic coordinates given in decimalLatitude and decimalLongitude are based. A constant ("WGS84").
coordinateUncertaintyInMetres	The horizontal distance (in metres) from the given decimalLatitude and decimalLongitude describing the smallest circle containing the whole of the location. A variable.
georeferencedBy	A list (concatenated and separated) of names of people, groups or organisations who determined the georeference (spatial representation) of the location. A constant ("Sozontov A.N.").
georeferencedDate	The date on which the Location was georeferenced. A variable.
identifiedBy	A list (concatenated and separated) of names of people, groups, or organisations who assigned the Taxon to the subject. A variable.
dateIdentified	The date on which the subject was determined as representing the Taxon. A variable (YYYY-MM-DD).
identificationRemarks	Comments or notes about the Identification. A variable.

scientificName	The full scientific name, with authorship and date information. A variable.
acceptedNameUsage	The full name, with authorship and date information, if known, of the currently valid zoological taxon. A variable.
order	The full scientific name of the order in which the taxon is classified. A constant ("Araneae").
family	The full scientific name of the family in which the taxon is classified. A variable.
genus	The full scientific name of the genus in which the taxon is classified. A variable.
specificEpithet	The name of the species epithet of the scientificName. A variable.
scientificNameAuthorship	The authorship information for the scientificName, formatted according to the conventions of the applicable nomenclaturalCode. A variable.
taxonRank	The taxonomic rank of the most specific name in the scientificName. A variable (three options: "SPECIES", "GENUS" and "FAMILY").

## Additional information

Sozontov A (2021). Spiders of the Udmurt Republic, Russia. Version 1.3. Institute of Plant and Animal Ecology (IPAE). Occurrence dataset <https://doi.org/10.15468/nvzbxq> accessed via GBIF.org on 2021-05-28.

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## References

- Adakhovskiy DA, Dedyukhin SV, Sozontov AN (2012) Invertebrates. In: Baranova OG, et al. (Ed.) Red Data Book of the Udmurt Republic. 2nd ed. Perfectum, Cheboksary, 16-92 pp. [In Russian]. [ISBN 978-5-4234-0059-0].
- Baranova OG, Egorov IE, Sturman VI (2010) On the south limit of taiga in the western part of pre-Urals. Vestnik Udmurtskogo Universiteta. Seriya "Biologia. Nauki o Zemle" (1)58-59. [In Russian with English summary].
- Chernov YI, Penev LD (1993) Biodiversity and climate. Uspekhi Sovremennoy Biologii 113 (5): 515-531. [In Russian].



- Dedyukhin SV (2011) Принципы и методы эколого-фаунистических исследований. [The principles and methods of ecological-faunistic investigations]. Publishing House "Udmurt University", Izhevsk, 93 pp.
- Ermolaev IV, Sozontov AN, Uskova AV (2014) On the spider fauna of common oak (*Quercus robur* L.) in the "Nechkinskiy" National Park. In: Musolin DL, Selikhovkin AV (Eds) The Kataev Memorial Readings – VIII. Pests and diseases of woody plants in Russia. Proceedings of the International Conference. Saint-Petersburg State Forest Technical University Publishing, St. Petersburg, 29 pp. [In Russian]. [ISBN 978-5-9239-0708-7].
- Esyunin SL, Sozontov AN (2015) Spiders of the genus *Pisaura* Simon, 1885 (Aranei, Pisauridae) in Middle Volga and Cisurals territories, with notes on the distribution of *P. novicia* (L. Koch, 1878). Euroasian Entomological Journal 14 (4): 325-333. [In Russian with English summary].
- Gbif.Org (2020) Occurrence download. The Global Biodiversity Information Facility <https://doi.org/10.15468/dl.nptrxm>
- Illarionov AG (2009) Relief. The main features of orography. In: Rysin II (Ed.) Geografiya Udmurtii: Prirodnye Usloviya i Resursy: Uchebnoye Posobie. Publishing House "Udmurt University", Izhevsk, 20-39 pp. [In Russian]. [ISBN 978-5-7029-0389-7].
- Krulikovskiy LK (1892) On the appearing of the Russian tarantula, *Lycosa latreillei* Koch in the Vyatka Government. Trudy Russkogo Entomologicheskogo Obschestva 26: 7-9. [In Russian].
- Krulikovskiy LK (1908) A short sketch of the fauna of the Vyatka Government. Pamayatnaya Knizhka Vyatskoi Gubernii i Calendar na 1909 g. Gubstatcom, Vyatka, 36-69 pp. [In Russian].
- Krulikovskiy LK (1915) Little zoological notes. Zapiski Uralskogo Obschestva Lyubitelei Estestvoznaniya 35 (1-3): 5-8. [In Russian].
- Oliger TI (2010) Пауки юго-восточного Приладожья. [Spiders of south-eastern Ladoga Region]. St. Petersburg University Publishing, St. Petersburg. [ISBN 978-5-288-05063-3]
- Penev LD (1996) Large-scale variation in carabid assemblages, with special reference to the local fauna concept. Annales Zoologici Fennici 33: 49-63. [In English].
- Penev LD (1997) Concrete biotas — a neglected concept in biogeography? Global Ecology and Biogeography Letters 6 (2): 91-96. [In English]. <https://doi.org/10.2307/2997566>
- Podsova TK (1972) Relief. In: Solovyov AI (Ed.) Priroda Udmurtii. Publishing House "Udmurt University", Izhevsk, 37–64 pp. [In Russian].
- Shadrin VA (1999) Enrichment of the flora of Udmurtia: migration, localization, prerequisites and conditions. Vestnik Udmurtskogo Universiteta. Seriya "Biologia" 5 (2): 13-33. [In Russian].
- Sozontov AN (2012a) First record of the wasp spider *Argiope bruennichi* (Aranei, Araneidae) from the Udmurt Republic. Vestnik Udmurtskogo Universiteta. Seriya "Biologia. Nauki o Zemle" (4)152-153. [In Russian].
- Sozontov AN (2012b) Some spider findings from Udmurt Republic which are interesting in a biogeographical aspect. In: Rysin II (Ed.) Proceedings of International Conference "Applying and Regional Biogeography". Publishing House "Udmurt University", Izhevsk, 246-251 pp. [In Russian].
- Sozontov AN, Esyunin SL (2012) On the spider fauna (Arachnida: Aranei) of Udmurt Republic. Arthropoda Selecta 21 (1): 85-95. [In English].

- Sozontov AN (2013) Spiders (Arachnida, Aranei) of Udmurt Republic: history and prospect of studies. Vestnik Udmurtskogo Universiteta. Seriya "Biologia. Nauki o Zemle" (3)51-57. [In Russian with English summary].
- Sozontov AN, Esyunin SL (2014) On the spider fauna (Arachnida: Aranei) of the 'Ust'-Belsk' Natural Park and its vicinities. Arthropoda Selecta 23 (3): 301-310. [In English].
- Sozontov AN, Shirobokova ES (2014) New to Udmurt fauna spider species from Igra district. Vestnik Udmurtskogo Universiteta. Seriya "Biologiya. Nauki o Zemle" 24 (3): 143-147. [In Russian with English summary].
- Sozontov AN (2015a) On the distribution specificity of some European spider species near the eastern limits of its ranges. Nauka Udmurtii (3/73)185-191. [In Russian with English summary].
- Sozontov AN (2015b) Steppe elements in the spider fauna of the Udmurt Republic. In: Chibilev AA (Ed.) Steppes of the Northern Eurasia: Proceedings of International Symposium. Dimur, Orenburg, 794-796 pp. [In Russian]. [ISBN 978-5-7689-0362-6].
- Sozontov AN, Esyunin SL (2015) Taxonomical remarks about two spider species from the genus *Tetragnatha*, Latreille 1804 (Aranei, Tetragnathidae). Entomological Review 95 (3): 406-414. [In English]. <https://doi.org/10.1134/S0013873815030136>
- Sozontov AN (2018) Fauna and ecology of spiders of the Udmurt Republic: diversity, distribution, communities' structure. Izhevsk. Ph.D. thesis (manuscript) [In Russian]. URL: <https://ipae.uran.ru/sites/default/files/dissovet/dissertations/Диссертация%20Соозонтова%20А.Н..pdf>
- Sozontov AN (2021) Spiders of the Udmurt Republic, Russia. Version 1.3. Institute of Plant and Animal Ecology (IPAE). <https://doi.org/10.15468/nvzbxq>. Accessed on: 2021-6-08.
- Tyshchenko VP (1971) Определитель пауков Европейской части СССР. [Identification key to spiders of the European part of the USSR]. Nauka, Leningrad, 281 pp.
- Woodcock BA (2005) Pitfall trapping in ecological studies. In: Leather SR (Ed.) Insect Sampling in Forest Ecosystems. Blackwell Publishing, Hoboken, NJ, 37-57 pp. [In English]. <https://doi.org/10.1002/9780470750513.ch3>
- World Spider Catalog (2021) World spider catalog. Natural History Museum Bern. Version 22.0. URL: <http://wsc.nmbe.ch>
- Zubko TL, Roshchinenko VI (1981) To the spider fauna of some regions of Udmurtian ASSR. Fauna i Ekologiya Zhivotnykh Udmurtskoy ASSR i Prilezhashchikh Raionov. Publishing House "Udmurt University", Izhevsk, 48-57 pp. [In Russian].
- Zubko TL (2001) Spiders – Aranei. Red data book of the Udmurt Republic. Animals. Udmurtia Publishing, Izhevsk, 9-12 pp. [In Russian].

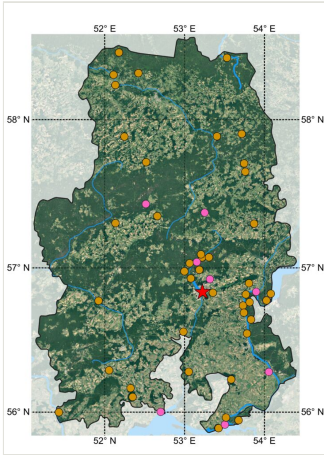


Figure 1.

The studied region and localities of collection (all symbols). Purple circles show well-studied local faunas. The red star shows Izhevsk, the capital of the Udmurt Republic.

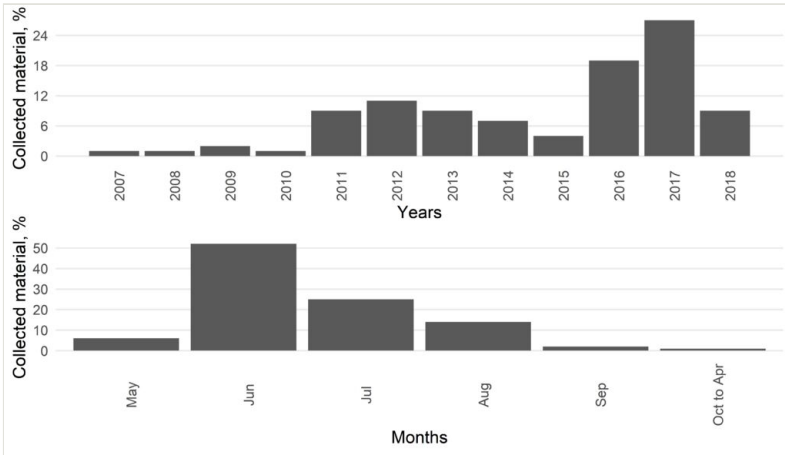


Figure 2.  
Distribution of collected material across years and months.



Figure 3.  
The position of the Udmurt Republic (red area) relatively to Russia (yellow borders) and other countries (cyan borders).

Table 1.

Spiders' faunistic data accumulation within the Udmurt Republic.

Reference	Number of spider species		
	recorded in the paper	new to the regional fauna	total in the region
Krulikovskiy 1892	1	1	1
Krulikovskiy 1908	4	3	4
Krulikovskiy 1915	1	0	4
Tyshchenko 1971	10	10	14
Zubko and Roshchinenko 1981	72	66	80
Zubko 2001	3	1	81
Sozontov and Esyunin 2012	195	122	203
Sozontov 2012a	1	1	204
Sozontov 2012b	17	5	209
Adakhovskiy et al. 2012	2	0	209
Sozontov and Esyunin 2014	158	47	256
Sozontov and Shirobokova 2014	40	40	296
Ermolaev et al. 2014	26	2	298
Sozontov and Esyunin 2015	2	0	298
Esyunin and Sozontov 2015	1	0	298
Sozontov 2015a	18	4	302
Sozontov 2015b	34	9	311
Sozontov 2018 (manuscript)	402	91	402
Sozontov 2021	403	1	403

Table 2.

Well-studied local faunas

Name	Coordinates	Samples	Specimens	Observed habitats
"Siva" permanent field study station	56.827 N 53.905 E	912	2,888	Bottomland meadows, dark coniferous forests with lime, edges of deciduous forests, floodplain oak forests, floodplain steppified meadows, open lake/pond shores, unheated buildings, upland meadows, watershed lime-forests, pine forests, sloping stepped meadows
Ust-Belsk	55.898 N 53.484 E	581	1,791	Agrocoenoses, floodplain oak forests, floodplain stepped meadows, heated buildings, open lake/pond shores, open river banks, pine forests, riverine deciduous forest strips, sloping stepped meadows, spruce-fir forests, unheated buildings
Golushurma	56.002 N 52.701 E	457	1,952	Edges of deciduous forests, open lake/pond shores, riverine deciduous forest strips, sloping stepped meadows, spruce-fir forests, upland meadows
Sokolovka	56.281 N 54.054 E	544	7,492	Bottomland meadows, edges of mixed forests, floodplain oak forests, floodplain stepped meadows, sloping stepped meadows, upland meadows
"Sirius" SNT	57.033 N 53.144 E	826	3,047	Dark coniferous forests with lime, pine forests
Novye Zyatci	57.434 N 52.515 E	147	575	Dark coniferous forests with lime, edges of pine-forests, open raised bogs, pine forests
Chutyr	57.376 N 53.252 E	828	2,447	Agrocoenoses, alder groves, bottomland meadows, dark coniferous forests with lime, edges of mixed forests, edges of pine-forests, floodplain stepped meadows, open raised bogs, open river banks, sloping stepped meadows, spruce-fir forests, unheated buildings, upland meadows
Hohryaki	56.923 N 53.317 E	123	773	Dark coniferous forests with lime, heated buildings, watershed lime-forests

Table 3.

The list of the spiders of the Udmurt Republic with the number of collected specimens and the number of localities and types of habitats where a species occurs.

Family	Species	Individuals	Localities	Habitats
Agelenidae	<i>Agelena labyrinthica</i> (Clerck, 1758)	1	1	1
Agelenidae	<i>Tegenaria domestica</i> (Clerck, 1758)	43	5	4
Anypheidae	<i>Anypheia accentuata</i> (Walckenaer, 1802)	6	3	2
Araneidae	<i>Aculepeira ceropegia</i> (Walckenaer, 1802)	33	10	10
Araneidae	<i>Agalenatea redii</i> (Scopoli, 1763)	125	10	9
Araneidae	<i>Araneus alsine</i> (Walckenaer, 1802)	6	5	5
Araneidae	<i>Araneus angulatus</i> Clerck, 1758	29	12	10
Araneidae	<i>Araneus diadematus</i> Clerck, 1758	49	16	15
Araneidae	<i>Araneus marmoreus</i> Clerck, 1758	42	18	14
Araneidae	<i>Araneus nordmanni</i> (Thorell, 1870)	1	1	1
Araneidae	<i>Araneus quadratus</i> Clerck, 1758	80	11	13
Araneidae	<i>Araneus saevus</i> (L. Koch, 1872)	1	1	1
Araneidae	<i>Araneus sturmi</i> (Hahn, 1831)	8	3	7
Araneidae	<i>Araniella proxima</i> (Kulczyński, 1885)	15	10	7
Araneidae	<i>Argiope bruennichi</i> (Scopoli, 1772)	14	5	5
Araneidae	<i>Cercidia prominens</i> (Westring, 1851)	30	10	8
Araneidae	<i>Cyclosa conica</i> (Pallas, 1772)	29	11	7
Araneidae	<i>Cyclosa oculata</i> (Walckenaer, 1802)	3	3	3
Araneidae	<i>Hypsosinga heri</i> (Hahn, 1831)	10	5	5
Araneidae	<i>Hypsosinga pygmaea</i> (Sundevall, 1831)	39	9	9
Araneidae	<i>Hypsosinga sanguinea</i> (C. L. Koch, 1844)	7	5	5
Araneidae	<i>Larinioides cornutus</i> (Clerck, 1758)	53	13	11
Araneidae	<i>Larinioides ixobolus</i> (Thorell, 1873)	26	9	8
Araneidae	<i>Larinioides patagiatus</i> (Clerck, 1758)	72	18	16
Araneidae	<i>Larinioides sclopetarius</i> (Clerck, 1758)	1	1	1
Araneidae	<i>Larinioides suspicax</i> (O. Pickard-Cambridge, 1876)	47	7	10
Araneidae	<i>Leviellus stroemi</i> (Thorell, 1870)	31	6	5



Araneidae	<i>Mangora acalypha</i> (Walckenaer, 1802)	124	19	19
Araneidae	<i>Neoscona adianta</i> (Walckenaer, 1802)	11	5	5
Araneidae	<i>Nuctenea silvicultrix</i> (C. L. Koch, 1835)	1	1	1
Araneidae	<i>Singa hamata</i> (Clerck, 1758)	137	28	19
Araneidae	<i>Singa nitidula</i> C. L. Koch, 1844	24	12	8
Cheiracanthiidae	<i>Cheiracanthium erraticum</i> (Walckenaer, 1802)	93	24	18
Cheiracanthiidae	<i>Cheiracanthium oncognathum</i> Thorell, 1871	1	1	1
Cheiracanthiidae	<i>Cheiracanthium pennyi</i> O. Pickard-Cambridge, 1873	5	4	3
Clubionidae	<i>Clubiona caerulescens</i> L. Koch, 1867	13	6	7
Clubionidae	<i>Clubiona diversa</i> O. Pickard-Cambridge, 1862	2	2	2
Clubionidae	<i>Clubiona frisia</i> Wunderlich & Schuett, 1995	1	1	1
Clubionidae	<i>Clubiona germanica</i> Thorell, 1871	2	2	2
Clubionidae	<i>Clubiona lutescens</i> Westring, 1851	10	7	6
Clubionidae	<i>Clubiona neglecta</i> O. Pickard-Cambridge, 1862	13	11	8
Clubionidae	<i>Clubiona pallidula</i> (Clerck, 1758)	10	5	6
Clubionidae	<i>Clubiona phragmitis</i> C. L. Koch, 1843	12	4	2
Clubionidae	<i>Clubiona pseudoneglecta</i> Wunderlich, 1994	2	2	1
Clubionidae	<i>Clubiona reclusa</i> O. Pickard-Cambridge, 1863	10	5	5
Clubionidae	<i>Clubiona similis</i> L. Koch, 1867	1	1	1
Clubionidae	<i>Clubiona stagnatilis</i> Kulczyński, 1897	14	7	7
Clubionidae	<i>Clubiona subsultans</i> Thorell, 1875	3	2	2
Dictynidae	<i>Argenna patula</i> (Simon, 1874)	2	2	2
Dictynidae	<i>Argenna subnigra</i> (O. Pickard-Cambridge, 1861)	17	8	8
Dictynidae	<i>Argyroneta aquatica</i> (Clerck, 1758)	5	5	4
Dictynidae	<i>Brigittea latens</i> (Fabricius, 1775)	1	1	1
Dictynidae	<i>Dictyna arundinacea</i> (Linnaeus, 1758)	344	23	21
Dictynidae	<i>Dictyna major</i> Menge, 1869	2	1	1
Dictynidae	<i>Dictyna pusilla</i> Thorell, 1856	13	7	9
Dictynidae	<i>Dictyna uncinata</i> Thorell, 1856	54	11	11
Dictynidae	<i>Emblyna mitis</i> (Thorell, 1875)	1	1	1
Dictynidae	<i>Hackmania prominula</i> (Tullgren, 1948)	5	4	4

Dictynidae	<i>Lathys heterophthalma</i> Kulczyński, 1891	9	3	2
Dictynidae	<i>Lathys humilis</i> (Blackwall, 1855)	3	1	1
Gnaphosidae	<i>Berlandina cinerea</i> (Menge, 1872)	1	1	1
Gnaphosidae	<i>Callilepis nocturna</i> (Linnaeus, 1758)	21	11	8
Gnaphosidae	<i>Drassodes pubescens</i> (Thorell, 1856)	22	8	7
Gnaphosidae	<i>Drassodes villosus</i> (Thorell, 1856)	8	5	4
Gnaphosidae	<i>Drassyllus lutetianus</i> (L. Koch, 1866)	222	15	18
Gnaphosidae	<i>Drassyllus praeficus</i> (L. Koch, 1866)	54	12	11
Gnaphosidae	<i>Drassyllus pusillus</i> (C. L. Koch, 1833)	150	14	14
Gnaphosidae	<i>Gnaphosa lugubris</i> (C. L. Koch, 1839)	5	1	1
Gnaphosidae	<i>Gnaphosa montana</i> (L. Koch, 1866)	10	6	5
Gnaphosidae	<i>Haplodrassus cognatus</i> (Westring, 1861)	9	6	6
Gnaphosidae	<i>Haplodrassus moderatus</i> (Kulczyński, 1897)	4	2	2
Gnaphosidae	<i>Haplodrassus pseudosignifer</i> Marusik, Hippa & Koponen, 1996	332	11	14
Gnaphosidae	<i>Haplodrassus signifer</i> (C. L. Koch, 1839)	45	9	8
Gnaphosidae	<i>Haplodrassus silvestris</i> (Blackwall, 1833)	104	10	6
Gnaphosidae	<i>Haplodrassus soerenseni</i> (Strand, 1900)	210	9	11
Gnaphosidae	<i>Haplodrassus umbratilis</i> (L. Koch, 1866)	402	12	13
Gnaphosidae	<i>Micaria aenea</i> Thorell, 1871	1	1	1
Gnaphosidae	<i>Micaria formicaria</i> (Sundevall, 1831)	24	10	7
Gnaphosidae	<i>Micaria fulgens</i> (Walckenaer, 1802)	1	1	1
Gnaphosidae	<i>Micaria nivosa</i> L. Koch, 1866	1	1	1
Gnaphosidae	<i>Micaria pulicaria</i> (Sundevall, 1831)	17	12	11
Gnaphosidae	<i>Micaria silesiaca</i> L. Koch, 1875	7	2	3
Gnaphosidae	<i>Micaria subopaca</i> Westring, 1861	2	1	2
Gnaphosidae	<i>Scotophaeus scutulatus</i> (L. Koch, 1866)	1	1	1
Gnaphosidae	<i>Zelotes azsheganovae</i> Eshyunin & Efimik, 1992	69	10	10
Gnaphosidae	<i>Zelotes clivicola</i> (L. Koch, 1870)	128	5	4
Gnaphosidae	<i>Zelotes electus</i> (C. L. Koch, 1839)	1	1	1
Gnaphosidae	<i>Zelotes exiguus</i> (Müller & Schenkel, 1895)	17	3	2
Gnaphosidae	<i>Zelotes latreillei</i> (Simon, 1878)	88	16	19

Gnaphosidae	<i>Zelotes longipes</i> (L. Koch, 1866)	141	5	5
Gnaphosidae	<i>Zelotes mundus</i> (Kulczyński, 1897)	1	1	1
Gnaphosidae	<i>Zelotes petrensis</i> (C. L. Koch, 1839)	86	6	5
Gnaphosidae	<i>Zelotes pseudogallicus</i> Ponomarev, 2007	34	1	2
Gnaphosidae	<i>Zelotes subterraneus</i> (C. L. Koch, 1833)	314	14	10
Hahniidae	<i>Antistea elegans</i> (Blackwall, 1841)	169	8	9
Hahniidae	<i>Cicurina cicur</i> (Fabricius, 1793)	4	4	4
Hahniidae	<i>Hahnia nava</i> (Blackwall, 1841)	20	5	5
Hahniidae	<i>Hahnia ononidum</i> Simon, 1875	156	12	11
Hahniidae	<i>Hahnia pusilla</i> C. L. Koch, 1841	95	6	8
Hahniidae	<i>Hahnia sibirica</i> Marusik, Hippa & Koponen, 1996	4	1	1
Hahniidae	<i>Mastigusa arietina</i> (Thorell, 1871)	7	3	4
Linyphiidae	<i>Abacoproeces saltuum</i> (L. Koch, 1872)	276	16	12
Linyphiidae	<i>Agyneta affinis</i> (Kulczyński, 1898)	85	9	10
Linyphiidae	<i>Agyneta cauta</i> (O. Pickard-Cambridge, 1903)	5	3	3
Linyphiidae	<i>Agyneta conigera</i> (O. Pickard-Cambridge, 1863)	73	2	4
Linyphiidae	<i>Agyneta mollis</i> (O. Pickard-Cambridge, 1871)	3	2	2
Linyphiidae	<i>Agyneta olivacea</i> (Emerton, 1882)	80	1	2
Linyphiidae	<i>Agyneta ramosa</i> Jackson, 1912	2	2	2
Linyphiidae	<i>Agyneta rurestris</i> (C. L. Koch, 1836)	2	2	2
Linyphiidae	<i>Agyneta saaristoi</i> Tanasevitch, 2000	9	4	5
Linyphiidae	<i>Agyneta subtilis</i> (O. Pickard-Cambridge, 1863)	154	5	5
Linyphiidae	<i>Allomengea scopigera</i> (Grube, 1859)	54	6	6
Linyphiidae	<i>Allomengea vidua</i> (L. Koch, 1879)	12	3	4
Linyphiidae	<i>Anguliphantes angulipalpis</i> (Westring, 1851)	81	11	9
Linyphiidae	<i>Araeoncus crassiceps</i> (Westring, 1861)	1	1	1
Linyphiidae	<i>Asthenargus paganus</i> (Simon, 1884)	2	2	2
Linyphiidae	<i>Baryphyma trifrons</i> (O. Pickard-Cambridge, 1863)	1	1	1
Linyphiidae	<i>Bathypantes approximatus</i> (O. Pickard-Cambridge, 1871)	2	2	2
Linyphiidae	<i>Bathypantes gracilis</i> (Blackwall, 1841)	111	5	4
Linyphiidae	<i>Bathypantes nigrinus</i> (Westring, 1851)	54	6	7

Linyphiidae	<i>Bathyphantes parvulus</i> (Westring, 1851)	5	3	4
Linyphiidae	<i>Bolyphantes alticeps</i> (Sundevall, 1833)	28	12	11
Linyphiidae	<i>Centromerita bicolor</i> (Blackwall, 1833)	10	2	5
Linyphiidae	<i>Centromerus arcanus</i> (O. Pickard-Cambridge, 1873)	15	3	4
Linyphiidae	<i>Centromerus brevipalpus</i> (Menge, 1866)	14	1	2
Linyphiidae	<i>Centromerus clarus</i> (L. Koch, 1879)	11	1	2
Linyphiidae	<i>Centromerus incilium</i> (L. Koch, 1881)	24	2	1
Linyphiidae	<i>Centromerus sylvaticus</i> (Blackwall, 1841)	63	8	14
Linyphiidae	<i>Ceratinella brevipes</i> (Westring, 1851)	12	3	4
Linyphiidae	<i>Ceratinella brevis</i> (Wider, 1834)	37	7	8
Linyphiidae	<i>Cnephalocotes obscurus</i> (Blackwall, 1834)	8	4	2
Linyphiidae	<i>Diplocephalus connatus</i> Bertkau, 1889	1	1	1
Linyphiidae	<i>Diplocephalus dentatus</i> Tullgren, 1955	6	1	1
Linyphiidae	<i>Diplocephalus latifrons</i> (O. Pickard-Cambridge, 1863)	18	2	2
Linyphiidae	<i>Diplocephalus picinus</i> (Blackwall, 1841)	81	11	10
Linyphiidae	<i>Diplostyla concolor</i> (Wider, 1834)	243	12	16
Linyphiidae	<i>Dismodicus bifrons</i> (Blackwall, 1841)	10	4	5
Linyphiidae	<i>Drapetisca socialis</i> (Sundevall, 1833)	8	5	6
Linyphiidae	<i>Entelecara acuminata</i> (Wider, 1834)	4	2	3
Linyphiidae	<i>Entelecara congenera</i> (O. Pickard-Cambridge, 1879)	2	2	2
Linyphiidae	<i>Erigone atra</i> Blackwall, 1833	1	1	1
Linyphiidae	<i>Erigone dentipalpis</i> (Wider, 1834)	12	6	5
Linyphiidae	<i>Erigonella hiemalis</i> (Blackwall, 1841)	5	3	2
Linyphiidae	<i>Erigonella ignobilis</i> (O. Pickard-Cambridge, 1871)	3	2	3
Linyphiidae	<i>Floronia bucculenta</i> (Clerck, 1758)	5	4	3
Linyphiidae	<i>Glyphesis cottonae</i> (La Touche, 1946)	1	1	1
Linyphiidae	<i>Glyphesis nemoralis</i> Esyunin & Efimik, 1994	10	2	2
Linyphiidae	<i>Gnathonarium dentatum</i> (Wider, 1834)	2	2	2
Linyphiidae	<i>Gonylidiellum latebricola</i> (O. Pickard-Cambridge, 1871)	1	1	1
Linyphiidae	<i>Gonylidiellum murcidum</i> Simon, 1884	5	2	2
Linyphiidae	<i>Gonylidium rufipes</i> (Linnaeus, 1758)	43	5	5

Linyphiidae	<i>Helophora insignis</i> (Blackwall, 1841)	131	15	10
Linyphiidae	<i>Hylyphantes graminicola</i> (Sundevall, 1830)	1	1	1
Linyphiidae	<i>Hypomma bituberculatum</i> (Wider, 1834)	4	2	4
Linyphiidae	<i>Hypomma fulvum</i> (Bösenberg, 1902)	2	1	1
Linyphiidae	<i>Hypselistes jacksoni</i> (O. Pickard-Cambridge, 1903)	2	1	1
Linyphiidae	<i>Incestophantes crucifer</i> (Menge, 1866)	3	2	2
Linyphiidae	<i>Kaestneria pullata</i> (O. Pickard-Cambridge, 1863)	7	5	5
Linyphiidae	<i>Lepthyphantes leprosus</i> (Ohlert, 1865)	2	2	2
Linyphiidae	<i>Linyphia hortensis</i> Sundevall, 1830	5	2	3
Linyphiidae	<i>Linyphia tenuipalpis</i> Simon, 1884	11	4	2
Linyphiidae	<i>Linyphia triangularis</i> (Clerck, 1758)	174	24	22
Linyphiidae	<i>Lophomma punctatum</i> (Blackwall, 1841)	1	1	1
Linyphiidae	<i>Macrargus carpenteri</i> (O. Pickard-Cambridge, 1895)	11	2	1
Linyphiidae	<i>Macrargus rufus</i> (Wider, 1834)	55	2	3
Linyphiidae	<i>Maro pansibiricus</i> Tanasevitch, 2006	5	3	2
Linyphiidae	<i>Maso sundevalli</i> (Westring, 1851)	16	6	7
Linyphiidae	<i>Megalepthyphantes nebulosus</i> (Sundevall, 1830)	1	1	1
Linyphiidae	<i>Megalepthyphantes pseudocollinus</i> Saaristo, 1997	21	5	6
Linyphiidae	<i>Metapanamomops kaestneri</i> (Wiehle, 1961)	31	1	1
Linyphiidae	<i>Micrargus herbigradus</i> (Blackwall, 1854)	1	1	1
Linyphiidae	<i>Micrargus subaequalis</i> (Westring, 1851)	1	1	1
Linyphiidae	<i>Microlinyphia impigra</i> (O. Pickard-Cambridge, 1871)	1	1	1
Linyphiidae	<i>Microlinyphia pusilla</i> (Sundevall, 1830)	29	8	9
Linyphiidae	<i>Microneta viaria</i> (Blackwall, 1841)	93	13	10
Linyphiidae	<i>Minyriolus pusillus</i> (Wider, 1834)	59	7	4
Linyphiidae	<i>Moebelia penicillata</i> (Westring, 1851)	1	1	1
Linyphiidae	<i>Neriene clathrata</i> (Sundevall, 1830)	20	12	9
Linyphiidae	<i>Neriene emphana</i> (Walckenaer, 1841)	71	18	12
Linyphiidae	<i>Neriene montana</i> (Clerck, 1758)	73	17	14
Linyphiidae	<i>Neriene peltata</i> (Wider, 1834)	6	6	5
Linyphiidae	<i>Neriene radiata</i> (Walckenaer, 1841)	34	10	8

Linyphiidae	<i>Obscuriphantes obscurus</i> (Blackwall, 1841)	1	1	1
Linyphiidae	<i>Oedothorax apicatus</i> (Blackwall, 1850)	9	3	4
Linyphiidae	<i>Oedothorax gibbosus</i> (Blackwall, 1841)	11	4	5
Linyphiidae	<i>Oedothorax retusus</i> (Westring, 1851)	3	3	3
Linyphiidae	<i>Oryphantes angulatus</i> (O. Pickard-Cambridge, 1881)	1	1	1
Linyphiidae	<i>Ostearius melanopygius</i> (O. Pickard-Cambridge, 1880)	1	1	1
Linyphiidae	<i>Palliduphantes alutacius</i> (Simon, 1884)	54	8	7
Linyphiidae	<i>Panamomops mengei</i> Simon, 1926	15	6	7
Linyphiidae	<i>Pelecopsis mengei</i> (Simon, 1884)	4	3	3
Linyphiidae	<i>Peponocranium praeceps</i> Miller, 1943	1	1	1
Linyphiidae	<i>Pityohyphantes phrygianus</i> (C. L. Koch, 1836)	6	3	4
Linyphiidae	<i>Pocadicnemis pumila</i> (Blackwall, 1841)	25	6	7
Linyphiidae	<i>Porhomma convexum</i> (Westring, 1851)	8	2	2
Linyphiidae	<i>Porhomma microphthalmum</i> (O. Pickard-Cambridge, 1871)	2	2	2
Linyphiidae	<i>Porhomma pygmaeum</i> (Blackwall, 1834)	21	8	8
Linyphiidae	<i>Praestigia kulczynskii</i> Eskov, 1979	2	1	1
Linyphiidae	<i>Saaristoa abnormis</i> (Blackwall, 1841)	1	1	1
Linyphiidae	<i>Sauron rayi</i> (Simon, 1881)	1	1	1
Linyphiidae	<i>Silometopus elegans</i> (O. Pickard-Cambridge, 1873)	4	3	2
Linyphiidae	<i>Silometopus reussi</i> (Thorell, 1871)	1	1	1
Linyphiidae	<i>Stemonyphantes conspersus</i> (L. Koch, 1879)	1	1	1
Linyphiidae	<i>Stemonyphantes lineatus</i> (Linnaeus, 1758)	9	5	6
Linyphiidae	<i>Tallusia experta</i> (O. Pickard-Cambridge, 1871)	2	1	2
Linyphiidae	<i>Tapinocyba affinis</i> Lessert, 1907	4	1	1
Linyphiidae	<i>Tapinocyba biscissa</i> (O. Pickard-Cambridge, 1873)	23	1	2
Linyphiidae	<i>Tapinocyba insecta</i> (L. Koch, 1869)	12	6	5
Linyphiidae	<i>Tapinopa longidens</i> (Wider, 1834)	10	7	4
Linyphiidae	<i>Tenuiphantes alacris</i> (Blackwall, 1853)	2	2	2
Linyphiidae	<i>Tenuiphantes cristatus</i> (Menge, 1866)	2	1	1
Linyphiidae	<i>Tenuiphantes mengei</i> (Kulczyński, 1887)	74	11	10
Linyphiidae	<i>Tenuiphantes nigriventris</i> (L. Koch, 1879)	36	11	6

Linyphiidae	<i>Tenuiphantes tenebricola</i> (Wider, 1834)	260	8	6
Linyphiidae	<i>Thyreosthenius parasiticus</i> (Westring, 1851)	9	2	2
Linyphiidae	<i>Tibioplus diversus</i> (L. Koch, 1879)	8	2	2
Linyphiidae	<i>Trematocephalus cristatus</i> (Wider, 1834)	9	6	7
Linyphiidae	<i>Trichoncus affinis</i> Kulczyński, 1894	19	1	1
Linyphiidae	<i>Trichoncus vasconicus</i> Denis, 1944	16	1	1
Linyphiidae	<i>Trichopterna cito</i> (O. Pickard-Cambridge, 1873)	2	1	1
Linyphiidae	<i>Troxochrota scabra</i> Kulczyński, 1894	6	3	2
Linyphiidae	<i>Troxochrus scabriculus</i> (Westring, 1851)	19	3	3
Linyphiidae	<i>Walckenaeria alticeps</i> (Denis, 1952)	40	4	5
Linyphiidae	<i>Walckenaeria antica</i> (Wider, 1834)	34	4	4
Linyphiidae	<i>Walckenaeria atrotibialis</i> (O. Pickard-Cambridge, 1878)	115	9	7
Linyphiidae	<i>Walckenaeria cucullata</i> (C. L. Koch, 1836)	34	3	3
Linyphiidae	<i>Walckenaeria dysderoides</i> (Wider, 1834)	3	2	2
Linyphiidae	<i>Walckenaeria furcillata</i> (Menge, 1869)	5	1	2
Linyphiidae	<i>Walckenaeria lepida</i> (Kulczyński, 1885)	1	1	1
Linyphiidae	<i>Walckenaeria mitrata</i> (Menge, 1868)	3	3	3
Linyphiidae	<i>Walckenaeria nudipalpis</i> (Westring, 1851)	1	1	1
Linyphiidae	<i>Walckenaeria picetorum</i> (Palmgren, 1976)	1	1	1
Linyphiidae	<i>Walckenaeria vigilax</i> (Blackwall, 1853)	2	2	2
Liocranidae	<i>Agroeca brunnea</i> (Blackwall, 1833)	53	7	6
Liocranidae	<i>Agroeca cuprea</i> Menge, 1873	27	6	6
Liocranidae	<i>Agroeca lusatica</i> (L. Koch, 1875)	13	5	6
Liocranidae	<i>Agroeca makarovae</i> Esyunin, 2008	2	1	1
Liocranidae	<i>Agroeca proxima</i> (O. Pickard-Cambridge, 1871)	163	10	9
Lycosidae	<i>Acantholycosa lignaria</i> (Clerck, 1758)	12	5	4
Lycosidae	<i>Alopecosa aculeata</i> (Clerck, 1758)	673	8	6
Lycosidae	<i>Alopecosa cuneata</i> (Clerck, 1758)	1307	15	16
Lycosidae	<i>Alopecosa fabrilis</i> (Clerck, 1758)	3	2	2
Lycosidae	<i>Alopecosa farinosa</i> (Herman, 1879)	105	3	4
Lycosidae	<i>Alopecosa inquilina</i> (Clerck, 1758)	6	5	3

Lycosidae	<i>Alopecosa pulverulenta</i> (Clerck, 1758)	336	12	16
Lycosidae	<i>Alopecosa solitaria</i> (Herman, 1879)	63	2	2
Lycosidae	<i>Alopecosa sulzeri</i> (Pavesi, 1873)	3	3	2
Lycosidae	<i>Alopecosa taeniata</i> (C. L. Koch, 1835)	18	3	3
Lycosidae	<i>Arctosa cinerea</i> (Fabricius, 1777)	4	2	1
Lycosidae	<i>Arctosa figurata</i> (Simon, 1876)	35	3	4
Lycosidae	<i>Arctosa leopardus</i> (Sundevall, 1833)	17	5	4
Lycosidae	<i>Arctosa lutetiana</i> (Simon, 1876)	3	2	2
Lycosidae	<i>Arctosa stigmosa</i> (Thorell, 1875)	11	4	4
Lycosidae	<i>Hygrolycosa rubrofasciata</i> (Ohlert, 1865)	2	2	1
Lycosidae	<i>Lycosa singoriensis</i> (Laxmann, 1770)	1	1	1
Lycosidae	<i>Mustelicoso dimidiata</i> (Thorell, 1875)	138	2	2
Lycosidae	<i>Pardosa agrestis</i> (Westring, 1861)	116	16	13
Lycosidae	<i>Pardosa agricola</i> (Thorell, 1856)	41	7	6
Lycosidae	<i>Pardosa alacris</i> (C. L. Koch, 1833)	32	5	4
Lycosidae	<i>Pardosa amentata</i> (Clerck, 1758)	83	8	11
Lycosidae	<i>Pardosa fulvipes</i> (Collett, 1876)	2425	26	22
Lycosidae	<i>Pardosa lugubris</i> (Walckenaer, 1802)	970	29	23
Lycosidae	<i>Pardosa maisa</i> Hippa & Mannila, 1982	43	3	2
Lycosidae	<i>Pardosa paludicola</i> (Clerck, 1758)	77	19	13
Lycosidae	<i>Pardosa palustris</i> (Linnaeus, 1758)	2430	23	20
Lycosidae	<i>Pardosa plumipes</i> (Thorell, 1875)	40	11	9
Lycosidae	<i>Pardosa prativaga</i> (L. Koch, 1870)	214	13	12
Lycosidae	<i>Pardosa pullata</i> (Clerck, 1758)	1	1	1
Lycosidae	<i>Pardosa schenkeli</i> Lessert, 1904	3	1	1
Lycosidae	<i>Pardosa sphagnicola</i> (Dahl, 1908)	124	16	12
Lycosidae	<i>Pirata piraticus</i> (Clerck, 1758)	60	13	9
Lycosidae	<i>Pirata piscatorius</i> (Clerck, 1758)	9	6	5
Lycosidae	<i>Pirata tenuitarsis</i> Simon, 1876	4	2	2
Lycosidae	<i>Piratula hygrophila</i> (Thorell, 1872)	260	16	17
Lycosidae	<i>Piratula insularis</i> (Emerton, 1885)	2	1	1



Lycosidae	<i>Trochosa ruficollis</i> (De Geer, 1778)	829	22	23
Lycosidae	<i>Trochosa spinipalpis</i> (F. O. Pickard-Cambridge, 1895)	21	10	11
Lycosidae	<i>Trochosa terricola</i> Thorell, 1856	343	18	12
Lycosidae	<i>Xerolycosa miniata</i> (C. L. Koch, 1834)	387	18	14
Lycosidae	<i>Xerolycosa nemoralis</i> (Westring, 1861)	260	14	14
Mimetidae	<i>Ero furcata</i> (Villers, 1789)	8	5	4
Miturgidae	<i>Zora nemoralis</i> (Blackwall, 1861)	57	5	6
Miturgidae	<i>Zora spinimana</i> (Sundevall, 1833)	40	13	8
Oxyopidae	<i>Oxyopes ramosus</i> (Martini & Goeze, 1778)	10	6	4
Philodromidae	<i>Philodromus aureolus</i> (Clerck, 1758)	1	1	1
Philodromidae	<i>Philodromus cespitum</i> (Walckenaer, 1802)	149	18	18
Philodromidae	<i>Philodromus emarginatus</i> (Schrank, 1803)	5	5	5
Philodromidae	<i>Philodromus fuscomarginatus</i> (De Geer, 1778)	1	1	1
Philodromidae	<i>Philodromus margaritatus</i> (Clerck, 1758)	3	2	1
Philodromidae	<i>Philodromus poecilus</i> (Thorell, 1872)	11	7	5
Philodromidae	<i>Rhysodromus histrio</i> (Latreille, 1819)	22	4	4
Philodromidae	<i>Thanatus arenarius</i> L. Koch, 1872	212	6	4
Philodromidae	<i>Thanatus formicinus</i> (Clerck, 1758)	16	6	5
Philodromidae	<i>Thanatus sabulosus</i> (Menge, 1875)	22	8	8
Philodromidae	<i>Thanatus striatus</i> C. L. Koch, 1845	7	5	6
Philodromidae	<i>Tibellus maritimus</i> (Menge, 1875)	24	10	11
Philodromidae	<i>Tibellus oblongus</i> (Walckenaer, 1802)	129	26	20
Pholcidae	<i>Pholcus alticeps</i> Spassky, 1932	3	3	2
Phrurolithidae	<i>Phrurolithus festivus</i> (C. L. Koch, 1835)	78	15	15
Pisauridae	<i>Dolomedes fimbriatus</i> (Clerck, 1758)	24	11	7
Pisauridae	<i>Dolomedes plantarius</i> (Clerck, 1758)	47	9	11
Pisauridae	<i>Pisaura mirabilis</i> (Clerck, 1758)	17	10	7
Salticidae	<i>Aelurillus v-insignitus</i> (Clerck, 1758)	2	1	1
Salticidae	<i>Attulus dzieduszyckii</i> (L. Koch, 1870)	38	8	4
Salticidae	<i>Attulus floricola</i> (C. L. Koch, 1837)	22	9	7
Salticidae	<i>Attulus saltator</i> (O. Pickard-Cambridge, 1868)	5	3	2

Salticidae	<i>Attulus terebratus</i> (Clerck, 1758)	11	6	5
Salticidae	<i>Ballus chalybeius</i> (Walckenaer, 1802)	14	11	11
Salticidae	<i>Dendryphantès rudis</i> (Sundevall, 1833)	15	2	6
Salticidae	<i>Euophrys frontalis</i> (Walckenaer, 1802)	1	1	1
Salticidae	<i>Evarcha arcuata</i> (Clerck, 1758)	266	33	22
Salticidae	<i>Evarcha falcata</i> (Clerck, 1758)	95	23	17
Salticidae	<i>Heliophanus auratus</i> C. L. Koch, 1835	53	11	12
Salticidae	<i>Heliophanus camtschadalicus</i> Kulczyński, 1885	1	1	1
Salticidae	<i>Heliophanus cupreus</i> (Walckenaer, 1802)	7	4	4
Salticidae	<i>Heliophanus dubius</i> C. L. Koch, 1835	5	3	4
Salticidae	<i>Heliophanus flavipes</i> (Hahn, 1832)	19	6	5
Salticidae	<i>Heliophanus lineiventris</i> Simon, 1868	2	1	1
Salticidae	<i>Marpissa muscosa</i> (Clerck, 1758)	1	1	1
Salticidae	<i>Marpissa pomatia</i> (Walckenaer, 1802)	5	4	4
Salticidae	<i>Marpissa radiata</i> (Grube, 1859)	7	2	2
Salticidae	<i>Neon reticulatus</i> (Blackwall, 1853)	6	3	3
Salticidae	<i>Phlegra fasciata</i> (Hahn, 1826)	19	7	7
Salticidae	<i>Pseudeuophrys erratica</i> (Walckenaer, 1826)	1	1	1
Salticidae	<i>Pseudicius encarpatus</i> (Walckenaer, 1802)	4	1	1
Salticidae	<i>Salticus cingulatus</i> (Panzer, 1797)	8	3	3
Salticidae	<i>Sibianor aurocinctus</i> (Ohlert, 1865)	1	1	1
Salticidae	<i>Sibianor larae</i> Logunov, 2001	2	2	2
Salticidae	<i>Sibianor tantulus</i> (Simon, 1868)	1	1	1
Salticidae	<i>Synageles venator</i> (Lucas, 1836)	3	2	3
Salticidae	<i>Talavera aequipes</i> (O. Pickard-Cambridge, 1871)	8	4	4
Salticidae	<i>Talavera aperta</i> (Miller, 1971)	3	2	2
Salticidae	<i>Talavera petrensis</i> (C. L. Koch, 1837)	1	1	1
Sparassidae	<i>Micrommata virescens</i> (Clerck, 1758)	79	14	18
Tetragnathidae	<i>Metellina mengei</i> (Blackwall, 1869)	8	5	5
Tetragnathidae	<i>Metellina merianae</i> (Scopoli, 1763)	1	1	1
Tetragnathidae	<i>Metellina segmentata</i> (Clerck, 1758)	108	14	18

Tetragnathidae	<i>Pachygnatha clercki</i> Sundevall, 1823	14	7	7
Tetragnathidae	<i>Pachygnatha degeeri</i> Sundevall, 1830	175	7	11
Tetragnathidae	<i>Pachygnatha listeri</i> Sundevall, 1830	212	14	12
Tetragnathidae	<i>Tetragnatha dearmata</i> Thorell, 1873	46	12	8
Tetragnathidae	<i>Tetragnatha extensa</i> (Linnaeus, 1758)	238	20	18
Tetragnathidae	<i>Tetragnatha montana</i> Simon, 1874	17	8	7
Tetragnathidae	<i>Tetragnatha nigrita</i> Lendl, 1886	17	4	5
Tetragnathidae	<i>Tetragnatha obtusa</i> C. L. Koch, 1837	12	9	8
Tetragnathidae	<i>Tetragnatha pinicola</i> L. Koch, 1870	134	19	17
Tetragnathidae	<i>Tetragnatha shoshone</i> Levi, 1981	11	2	2
Tetragnathidae	<i>Tetragnatha striata</i> L. Koch, 1862	14	3	2
Theridiidae	<i>Asagena phalerata</i> (Panzer, 1801)	25	5	6
Theridiidae	<i>Crustulina guttata</i> (Wider, 1834)	53	10	10
Theridiidae	<i>Crustulina sticta</i> (O. Pickard-Cambridge, 1861)	2	2	2
Theridiidae	<i>Cryptachaea riparia</i> (Blackwall, 1834)	2	2	2
Theridiidae	<i>Dipoena torva</i> (Thorell, 1875)	1	1	1
Theridiidae	<i>Enoplognatha ovata</i> (Clerck, 1758)	54	15	15
Theridiidae	<i>Episinus angulatus</i> (Blackwall, 1836)	5	4	4
Theridiidae	<i>Episinus truncatus</i> Latreille, 1809	9	7	7
Theridiidae	<i>Euryopsis flavomaculata</i> (C. L. Koch, 1836)	78	13	10
Theridiidae	<i>Euryopsis saukea</i> Levi, 1951	5	1	3
Theridiidae	<i>Lasaeola prona</i> (Menge, 1868)	1	1	1
Theridiidae	<i>Lasaeola tristis</i> (Hahn, 1833)	5	5	5
Theridiidae	<i>Neottiura bimaculata</i> (Linnaeus, 1767)	33	14	14
Theridiidae	<i>Parasteatoda lunata</i> (Clerck, 1758)	8	3	4
Theridiidae	<i>Parasteatoda simulans</i> (Thorell, 1875)	5	3	3
Theridiidae	<i>Parasteatoda tabulata</i> (Levi, 1980)	43	8	7
Theridiidae	<i>Phylloneta impressa</i> (L. Koch, 1881)	136	23	17
Theridiidae	<i>Phylloneta sisyphia</i> (Clerck, 1758)	18	10	7
Theridiidae	<i>Platnickina tincta</i> (Walckenaer, 1802)	2	1	2
Theridiidae	<i>Robertus arundineti</i> (O. Pickard-Cambridge, 1871)	17	9	10

Theridiidae	<i>Robertus lividus</i> (Blackwall, 1836)	57	10	9
Theridiidae	<i>Robertus neglectus</i> (O. Pickard-Cambridge, 1871)	4	3	3
Theridiidae	<i>Robertus scoticus</i> Jackson, 1914	1	1	1
Theridiidae	<i>Simitidion simile</i> (C. L. Koch, 1836)	4	2	2
Theridiidae	<i>Steatoda albomaculata</i> (De Geer, 1778)	8	2	1
Theridiidae	<i>Steatoda bipunctata</i> (Linnaeus, 1758)	88	14	11
Theridiidae	<i>Steatoda castanea</i> (Clerck, 1758)	27	12	8
Theridiidae	<i>Steatoda grossa</i> (C. L. Koch, 1838)	46	7	5
Theridiidae	<i>Theridion innocuum</i> Thorell, 1875	7	1	2
Theridiidae	<i>Theridion pictum</i> (Walckenaer, 1802)	55	9	11
Theridiidae	<i>Theridion pinastri</i> L. Koch, 1872	5	2	3
Theridiidae	<i>Theridion varians</i> Hahn, 1833	49	14	13
Thomisidae	<i>Coriarachne depressa</i> (C. L. Koch, 1837)	6	3	1
Thomisidae	<i>Ebrechtella tricuspidata</i> (Fabricius, 1775)	161	20	19
Thomisidae	<i>Misumena vatia</i> (Clerck, 1758)	127	21	18
Thomisidae	<i>Ozyptila claveata</i> (Walckenaer, 1837)	29	3	4
Thomisidae	<i>Ozyptila praticola</i> (C. L. Koch, 1837)	359	19	16
Thomisidae	<i>Ozyptila trux</i> (Blackwall, 1846)	72	10	14
Thomisidae	<i>Psammitis sabulosus</i> (Hahn, 1832)	1	1	1
Thomisidae	<i>Spiracme striatipes</i> (L. Koch, 1870)	164	12	8
Thomisidae	<i>Tmarus piger</i> (Walckenaer, 1802)	32	12	7
Thomisidae	<i>Xysticus audax</i> (Schrank, 1803)	9	4	3
Thomisidae	<i>Xysticus bifasciatus</i> C. L. Koch, 1837	41	7	9
Thomisidae	<i>Xysticus cristatus</i> (Clerck, 1758)	80	20	17
Thomisidae	<i>Xysticus kochi</i> Thorell, 1872	16	7	10
Thomisidae	<i>Xysticus lanio</i> C. L. Koch, 1835	5	4	4
Thomisidae	<i>Xysticus lineatus</i> (Westring, 1851)	1	1	1
Thomisidae	<i>Xysticus luctator</i> L. Koch, 1870	160	8	9
Thomisidae	<i>Xysticus luctuosus</i> (Blackwall, 1836)	44	6	6
Thomisidae	<i>Xysticus ulmi</i> (Hahn, 1831)	111	29	21
Titanoecidae	<i>Titanoeca praefica</i> (Simon, 1870)	2	1	1

Titanoecidae	<i>Titanoeca quadriguttata</i> (Hahn, 1833)	11	2	2
Titanoecidae	<i>Titanoeca schineri</i> L. Koch, 1872	12	3	3
Titanoecidae	<i>Titanoeca spominima</i> (Taczanowski, 1866)	43	3	3
Uloboridae	<i>Uloborus walckenaerius</i> Latreille, 1806	2	2	2