

## THREATENED LICHENS OF LOWER SILESIA, POLAND

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## ABSTRACT

A preliminary red list of threatened lichens of Lower Silesia (SW Poland) is presented. Species have been evaluated according to the Red Data Book Categories (IUCN). The list comprises 602 taxa (ca. 60% of the whole lichen flora of Lower Silesia). 52 species are considered as rare (category R), 84 – as vulnerable (V), and 63 species – as endangered (E). The Silesian lichen flora is characterized by great numbers of taxa with extinct (Ex – 140 taxa), and indeterminate (I – 263 taxa) categories.

KEY WORDS: threatened lichens, red list, Lower Silesia, Poland.

## INTRODUCTION

Two subsequent editions of Polish red list of threatened lichens published recently (Cieśliński et al. 1986, 1992) drew lichenologists' attention of to a process of the extinction of lichen species and inspired them to prepare similar lists for micro- and macroregions, mountain ranges etc. (e.g., Leśnianański 1998; Śliwa 1998; Kiszka and Leśnianański 1999). These lists will supplement the synthetic Polish list with detailed descriptions, showing local differences in both a kind and degree of threat factors.

In 1997, at the annual meeting, Polish lichenologists passed a resolution to make red lists for all regions of Poland distinguished as physical-geographic subprovinces according to Kondracki (1988, 1998). All these lists should have been published together in a one book edition. This plan has not been executed so far, but some results have been already achieved, among others presented regional red list of threatened lichens of Lower Silesia. It should be considered as preliminary and rough one. In the future, when our knowledge about contemporary conditions of lichen flora increases, the list will be verified.

The presented list bases on a preliminary check-list of Lower Silesian lichens (Kossowska, in preparation), containing all species reported from this area and mentioned in literature. Until now the preliminary check-list is composed of ca. 1020 species, i.e. more than 60% of the whole Polish lichen flora (see Fałtynowicz 1993). Such a great number of recorded lichen taxa is caused by the abound-

ance and diversity of potential habitats, as well as by careful investigations carried out in the past. The lichen flora of Lower Silesia is one of the better recognized in Poland. A considerable part of records dates from the 19th and the beginning of the 20th centuries and was shed by eminent German lichenologists, e.g. Flotow 1849, 1850; Koerber 1855; Stein 1879, 1889; Eitner 1896, 1901, 1911, and others. Thanks to them and subsequent works of Polish lichenologists (Tobolewski 1855; Fabiszewski 1962, 1968) we have obtained nearly complete knowledge about Lower Silesian lichen flora before the great anthropogenic extinction, started in the seventies of the 20th century.

Names of lichen species are quoted according to Santesson (1993) and Fałtynowicz (1993).

LOCATION AND BORDERS  
OF THE STUDIED AREA

Lower Silesia (Dolny Śląsk, Nedere Schlesien) is a historical and geographical province in the south-western part of Poland, bordered upon Germany and Czech Republic. Due to the recent administrative division of the country one big voivodship with the capital city – Wrocław was established in this region; the borders of this voivodship were accepted as conventional borders of the area taken into consideration in this work (Fig. 1).

Such a delimited study area involves following physical-geographic subprovinces (according to Kondracki 1998):

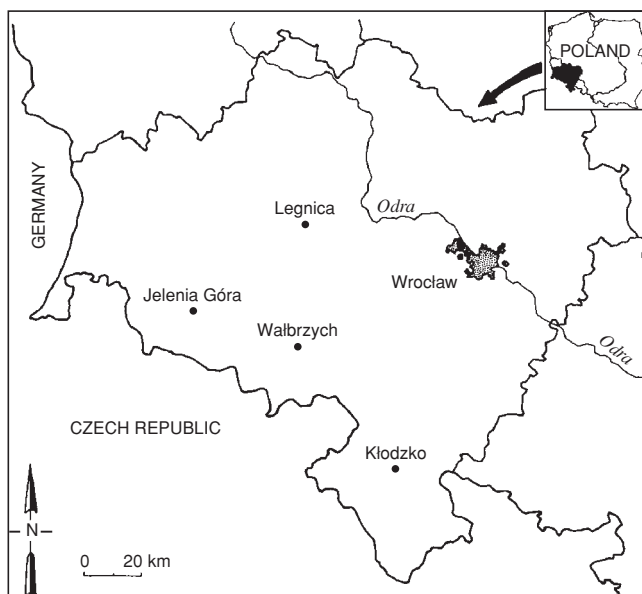


Fig. 1. Location and borders of province of Lower Silesia.

the Sudety Mts., the Śląsko-Lużyckie Lowlands and a part of the Środkowopolskie Lowlands.

#### CATEGORIES OF THREAT

Categories used for a valuation of a species threat degree have to be briefly explained. In December 1994, the World Conservation Union (IUCN) replaced hitherto used the Red Data Book Categories by a new system of threat categories and recommended them for use in new versions of red lists and red books. This system is composed of eight categories and three subcategories of threat, and of precise criteria of a valuation. Those new categories have been named as the Red List Categories (see IUCN Red List Categories...).

The clearly defined valuation criteria were assumed to make preparation of red lists easier and more objective. However, their strict application to lichens seems to be very difficult or even impossible, mainly because of lack of precise information about a current and historical size of populations, a number of mature individuals etc. As a result, according to the recommended criteria most of the lichen species should be considered as data deficient (category DD).

Therefore, in the presented list the authors decided to use the previous Red Data Book Categories (Cieśliński et al. 1992), as follows:

- **Ex** (Extinct) – Species which are not confirmed after repeated searches either on known localities or in similar habitats.

- **E** (Endangered) – Taxa in danger of extinction and which survival is hardly probable if the casual factors continue operating.

- **V** (Vulnerable) – Species believed to move to the endangered category in near future if the casual factors continue operating

- **R** (Rare) – Species of limited geographical range, small habitat areas or occurring on wide areas, but in considerable dispersion. At present, they are neither endangered nor vulnerable, but are at risk.

- **I** (Indeterminate) – Taxa known to be extinct, endangered, vulnerable or rare, but there are insufficient data to say which category is appropriate.

Advantage of such a solution is possibility of comparing our list with existing regional lists and the Polish list. However, lack of compatibility with new instructions of IUCN is its unquestionable drawback. Therefore, in the future, lichelologists who will study the lichen flora of Lower Silesia ought to pay particular attention to size and dynamics of species populations, especially of rare and endangered taxa. Consequently, in the second edition of our red list, we will be able to valuate lichen taxa according to the Red List Categories.

#### SHORT DISCUSSION

The red list of threatened lichens of Lower Silesia compares 602 taxa, that is ca. 60% of the total lichen flora of this region. Among them, 52 species are considered as rare (category R), 83 – as vulnerable (V) and 63 species – as endangered (E). The characteristic trait of the Lower Silesian lichen flora are particularly numerous extinctas well as indeterminate species (140 and 264 respectively). Taxa with these two categories compose together two thirds of all species included to the red list.

A group of extinct taxa is mainly constituted of lichens especially sensitive to air pollution, e.g. macrolichens from the genera *Alectoria*, *Bryoria*, *Evernia*, *Lobaria*, *Nephroma*, *Ramalina*, *Sticta* and *Usnea*. These species are particularly endangered everywhere within their geographical ranges; some of them have no present locality in Poland (category Ex in the Polish red list – Cieśliński et al. 1992). The other group of taxa considered as extinct is composed of lichens known only from single localities and occupying very specific habitats, e.g., aquatic species or lichens – relicts of a primeval forest (acc. to Cieśliński et al. 1996). The remaining species, that have not been recorded for a long time were considered as „lost” but still possible to be recovered and have got a category I. A great number of indeterminate species is resulted from, mentioned above, careful lichenological investigations carried out in Lower Silesia in the past. Many inconspicuous species, easy to overlook were then recorded in single sites. Some of them could die out, but it is possible that the other still persist at the same or similar localities. Thus, the category I should be considered as a temporary one. In the future, the species included here shall be either moved to another category, or, what seems to be less probable, excluded from the list as not endangered.

When one compare the presented list with the Polish one, the lichen flora of Lower Silesia seems to be much more endangered (Fig. 2). It is probably caused by synanthropization of the environment, which has started earlier and has been more intensive than in other parts of Poland. Anthropogenic transformations in this region include mainly urbanization and industrialization processes, resulted in air and water pollution, forest felling, exploitation of natural rock outcrops and many others. In the seventies of the 20<sup>th</sup> century the local air pollution caused by emission of gases such as SO<sub>2</sub>, NH<sub>x</sub> and HF and dust contamination were intensified by a large-scale air pollution come from above the territories of former Czechoslovakia and German

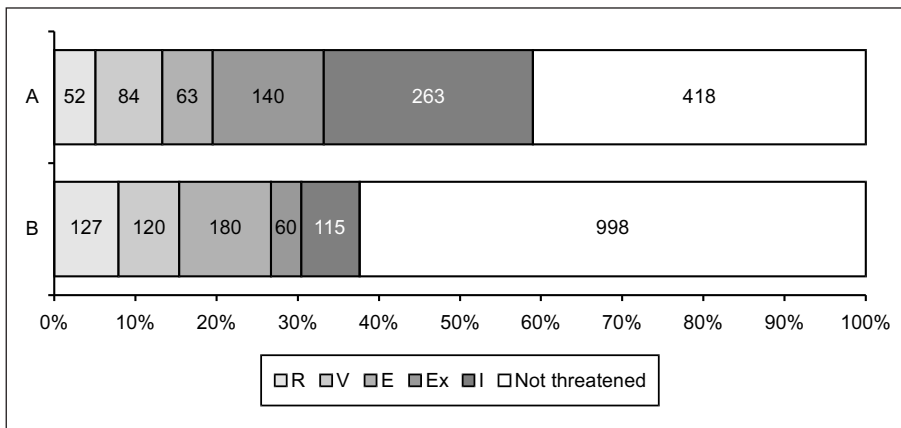


Fig. 2. Number of species and percentage of each category of threat in lichen flora of Lower Silesia (A) and Poland (B).

Democratic Republic. It was the main reason of the ecological disaster of mountain forests in the Sudetes.

All those factors exerted a strong harmful impact on the Lower Silesian lichens, resulted in a considerable decline of a number of species. A relatively rich lichen flora could persist only in small refuges, characterised by a peculiar combination of habitat factors and usually protected from air pollution by specific topographic features.

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## RED LIST OF THREATENED LICHENS OF LOWER SILESIA

Species	Lower Silesia					Poland
<i>Acarospora complanata</i> H. Magn.						I
<i>A. gallica</i> H. Magn.						I
<i>A. impressula</i> Th. Fr.				Ex		R
<i>A. macrospora</i> (Hepp) Massal. ex Bagl.		V				
<i>A. nitrophila</i> H. Magn.						I
<i>A. oligospora</i> (Nyl.) Arnold						I
<i>A. peliscypha</i> Th. Fr.	R					R
<i>A. sinopica</i> (Wahlenb.) Körb.	R					R
<i>A. versicolor</i> Bagl. & Car.						I
<i>Acrocordia conoidea</i> (Fr.) Körb.						I
<i>Adelolecia pilati</i> (Hepp) Hertel & Hafellner	R					
<i>Alectoria nigricans</i> (Ach.) Nyl.		V				
<i>A. ochroleuca</i> (Hoffm.) Massal.	R					
<i>A. samentosa</i> (Ach.) Ach.				Ex		E
<i>Anaptychia ciliaris</i> (L.) Körb.			E			E
<i>Anisomeridium bifforme</i> (Borr.) R. C. Harris				Ex		
<i>A. macrocarpum</i> (Körb.) Wirth				Ex		
<i>Arctoparmelia centrifuga</i> (L.) Hale						I
<i>Arthonia arthonioides</i> (Ach.) A. L. Sm.		V				I
<i>A. byssacea</i> (Weigel) Almq.				Ex		V
<i>A. caesia</i> (Flot.) Arnold				Ex		E
<i>A. cinnabarina</i> (DC.) Wallr.						E
<i>A. didyma</i> Körb.						V
<i>A. dispersa</i> (Schrad.) Nyl.						V
<i>A. elegans</i> (Ach.) Almq.				Ex		E
<i>A. endlicheri</i> (Garov.) Oxner				Ex		Ex
<i>A. exilis</i> (Flk.) Anzi				Ex		E
<i>A. fuliginosa</i> (Turn. & Borr.) Flot.				Ex		Ex
<i>A. lapidicola</i> (Taylor) Branth & Rostrup		V				
<i>A. mediella</i> Nyl.				Ex		V
<i>A. pruinata</i> (Pers.) Sm.				Ex		Ex
<i>A. radiata</i> (Pers.) Ach.			E			V
<i>A. spadicea</i> Leighton				Ex		
<i>Arthopyrenia cerasi</i> (Schrad.) Massal.						I
<i>A. cinereopruinosa</i> (Schaer.) Körb.				Ex		
<i>A. glabra</i> (Massal.) Nowak & Tobol.						I
<i>A. grisea</i> (Schleich.) Koerb.						I
<i>A. inconspicua</i> Lahm in Körb.	R					V
<i>A. punctiformis</i> Massal.						
<i>Arthothelium spectabile</i> Flotow ex Massal.				Ex		E
<i>Arthrorhaphis citrinella</i> (Ach.) Poelt						E
<i>A. grisea</i> Th. Fr.						I
<i>Arthrosporum populorum</i> Massal.				Ex		I
<i>Aspicilia aquatica</i> Körb.						I
<i>A. coronata</i> (Massal) Anzi	R					
<i>A. faginea</i> Eitner				Ex		
<i>A. gottweigensis</i> Zahlbr.						I
<i>A. pelobotryoides</i> Eitner						I
<i>A. recedens</i> (Taylor) Arnold		V				V
<i>Bacidia arceutina</i> (Ach.) Arnold						I
<i>B. amoldiana</i> Körb.						I
<i>B. assulata</i> (Körb.) Vězda						I
<i>B. auerswaldii</i> (Hepp) Migula				Ex		V
<i>B. baggei</i> (Metzler) DT. & Sarnt.						I
<i>B. beckhausii</i> Körb.						I
<i>B. circumspecta</i> (Nyl. ex Vainio) Malme				Ex		V
<i>B. coniangioides</i> (Eitner) Zahlbr.						I
<i>B. egenula</i> (Nyl.) Arnold						I
<i>B. igniarum</i> (Nyl.) Oxner						I
<i>B. incompta</i> (Borr.) Anzi						I
<i>B. laurocerasi</i> (Delise ex Duby) Zahlbr.				Ex		V
<i>B. polychroa</i> (Th. Fr.) Körb.				Ex		R
<i>B. rosella</i> (Pers.) de Not.						E
<i>B. rubella</i> (Hoffm.) Massal.						V
<i>B. silesiaca</i> Zahlbr.				Ex		V
<i>B. subincompta</i> (Nyl.) Arn.				Ex		Ex
<i>B. trachona</i> (Ach.) Lettau				Ex		E

Species	Lower Silesia				Poland
<i>Bactrospora dryina</i> (Ach.) Massal.				Ex	E
<i>Baeomyces carneus</i> Flk.				I	E
<i>B. speciosus</i> (Körb.) Lindau				I	E
<i>Belonia incarnata</i> Th. Fr. & Graeve				I	R
<i>B. russula</i> Körb.				I	R
<i>Biatora efflorescens</i> (Hedl.) Erichsen	V				V
<i>B. helveola</i> Körb.ex Hellbom	V				
<i>B. sphaeroides</i> (Dicks.) Körb.	V				V
<i>Biatorella conspurcans</i> Norm.				Ex	Ex
<i>Bryoria bicolor</i> (Ehrh.) Brodo & Hawksw.				I	E
<i>B. chalybeiformis</i> (L.) Brodo & Hawksw.				Ex	I
<i>B. fuscescens</i> (Gyelnik) Brodo & Hawksw.			E		E
<i>B. implexa</i> (Nyl.) Bystrek			E		V
<i>B. jubata</i> (L.) Bystrek			E		R
<i>B. mirabilis</i> (Mot.) Bystrek				Ex	E
<i>B. nadvornikiana</i> (Gyel.) Brodo & Hawksw.			E		E
<i>B. setacea</i> (Ach.) Brodo & Hawksw.				Ex	E
<i>B. subcana</i> (Nyl. ex Stiz.) Bystrek			E		E
<i>Buellia alboatra</i> (Hoffm.) Th. Fr.					I
<i>B. badia</i> (Fr.) Mudd		V			I
<i>B. chloroleuca</i> Körb.				Ex	I
<i>B. disciformis</i> (Fr.) Mudd.					E
<i>B. erubescens</i> Arnold					I
<i>B. leptocline</i> (Flot.) Massal.					I
<i>B. ocellata</i> (Flot.) Körb.					I
<i>B. pharcidia</i> (Ach.)Malme					I
<i>B. populorum</i> (Massal.) Clauz. & Roux					I
<i>B. schaererii</i> De Not.					I
<i>B. stellulata</i> (Tayl.) Mudd	R				V
<i>Calicium abietinum</i> Pers.				I	V
<i>C. adpersum</i> Pers.				Ex	E
<i>C. corynellum</i> (Ach.) Ach.				Ex	Ex
<i>C. lichenoides</i> (L.) Schum.			E		V
<i>C. quercinum</i> Pers.			E		E
<i>C. trabinellum</i> (Ach.) Ach.			E		E
<i>C. viride</i> Pers.			E		V
<i>Caloplaca alociza</i> (Massal.) Migula					I
<i>C. cerina</i> (Ehrh.) Th. Fr.			E		E
<i>C. chlorina</i> (Flot.) Sandst.			E		E
<i>C. coronata</i> (Krempelh.) Steiner	R				
<i>C. crenularia</i> (With.) Laundon					I
<i>C. ferruginea</i> (Huds.) Th. Fr.					I
<i>C. lactea</i> (Massal.) Zahlbr.	R				
<i>C. nivalis</i> (Körb.) Th. Fr.					I
<i>C. obscurella</i> (Körb.) Th. Fr.					I
<i>C. rubelliana</i> (Ach.) Lojka				Ex	R
<i>C. saxifragarum</i> Poelt					I
<i>C. stillicidiorum</i> (Vahl.) Lyngé			E		I
<i>C. vitellinula</i> (Nyl.) Olivier					I
<i>Candelaria concolor</i> (Dicks.) Stein		V			
<i>Catapyrenium deadaleum</i> (Krempelh.) Stein				Ex	V
<i>C. michelii</i> (Massal.) R. Sant.					I
<i>C. rufescens</i> (Ach.) Breuss		V			
<i>C. squamulosum</i> (Ach.) Breuss		V			
<i>Catillaria atomarioides</i> (Hoffm.) Müll. Arg.	R				
<i>C. subnigratula</i> (Eitner) Zahlbr.				Ex	
<i>Catinaria atropurpurea</i> (Schaerer) Vězda & Poelt					I
<i>C. dispersa</i> (Arnold) Lettau				Ex	E
<i>C. laureri</i> (Hepp) Degel.				Ex	I
<i>Catolechia wahlenbergii</i> (Ach.) Körb.					I
<i>Cetraria chlorophylla</i> (Willd.) Vainio			E		R
<i>C. commixta</i> (Nyl.) Th. Fr.		V			
<i>C. cucullata</i> (Bell.) Ach.		V			
<i>C. nivalis</i> (L.) Ach.		V			
<i>C. sepincola</i> (Ehrh.) Ach.			E		V
<i>Cetrelia olivetorum</i> (Nyl.) Culb. & Culb. [ <i>C. cetrarioides</i> (Duby) Culb. & Culb.]					I
<i>Chaenotheca brachypoda</i> (Ach.) Tibell					I
<i>Ch. brunneola</i> (Ach.) Müll. Arg.					I
<i>Ch. chrysocephala</i> (Turn.) Th. Fr.			E		V
<i>Ch. ferruginea</i> (Turner ex Sm.) Migula	V				

Species	Lower Silesia				Poland
<i>Ch. furfuracea</i> (L.) Tibell				I	
<i>Ch. phaeocephala</i> (Turn.) Th. Fr.				I	E
<i>Ch. stemonea</i> (Ach.) Müll. Arg.				I	E
<i>Ch. trichialis</i> (Ach.) Th. Fr.	V				V
<i>Ch. xyloxena</i> Nadv.				I	E
<i>Chrysotrix candelaris</i> (L.) Laundon				I	E
<i>Cladonia botrytes</i> (Hagen) Willd.				I	V
<i>C. brevis</i> Sandst.			Ex		Ex
<i>C. cariosa</i> (Ach.) Spreng.				I	
<i>C. carneola</i> (Fr.) Fr.				I	E
<i>C. cyanipes</i> (Sommerf.) Nyl.				I	E
<i>C. decorticata</i> (Flk.) Spreng.			Ex		Ex
<i>C. macroceras</i> (Delise) Hav.	V				
<i>C. macrophylla</i> (Schaer.) Stenham.	R				R
<i>C. parasitica</i> (Hoffm.) Hoffm.				I	E
<i>C. ramulosa</i> (With.) Laundon				I	
<i>C. sulphurina</i> (Michx.) Fr.	V				
<i>C. turgida</i> Hoffm.				I	V
<i>Clauzadeana macula</i> (Taylor) Coppins & Rambold [ <i>Aspicilia morioides</i> Blomb.]	V				
<i>Cliostomum corrugatum</i> (Ach.) Fr.			Ex		E
<i>C. griffithii</i> (Sm.) Coppins				I	V
<i>Collema auriforme</i> (With.) Coppins & Laundon	V				E
<i>C. callopismum</i> Massal.	V				R
<i>C. coccophorum</i> Tuck.	V				R
<i>C. conglomeratum</i> Hoffm.			Ex		
<i>C. crispum</i> (Huds.) Weber	V				I
<i>C. cristatum</i> (L.) Weber				I	
<i>C. dichotomum</i> (With.) Coppins & Laundon			Ex		Ex
<i>C. flaccidum</i> (Ach.) Ach.				I	E
<i>C. fragrans</i> (Sm.) Ach.			Ex		E
<i>C. glebulentum</i> (Nyl. ex Crombie) Degel.			Ex		Ex
<i>C. limosum</i> (Ach.) Ach.	R				R
<i>C. nigrescens</i> (Huds.) DC.			Ex		E
<i>C. occultatum</i> Bagl.			Ex		I
<i>C. polycarpon</i> Hoffm.				I	
<i>Cornicularia normoerica</i> (Gunn.) Du Rietz				I	
<i>Cresporhaphis muellerii</i> (Duby) Aguirre			Ex		
<i>C. weinkampii</i> (Lahm) Aguirre				I	
<i>Cyphelium notarisii</i> (Tul.) Blomb. & Forssell			Ex		E
<i>C. tigillare</i> (Ach.) Ach.				I	E
<i>Dermatocarpon luridum</i> (With.) Laundon	V				E
<i>Dimelaena oreina</i> (Ach.) Norm.				I	R
<i>Dimerella lutea</i> (Dicks.) Trevisian				I	I
<i>Diploicia canescens</i> (Dicks.) Massal.				I	R
<i>Diploschistes euganeus</i> (Massal.) Stnr.			Ex		Ex
<i>D. gypsaceus</i> (Ach.) Zahlbr.	R				
<i>Endocarpon adscendens</i> (Anzi) Müll. Arg.	V				
<i>E. pusillum</i> Hedw.	V				V
<i>Enterographa hutchinsiae</i> (Leight.) Massal.				I	
<i>Eopyrenula leucoplaca</i> (Wallr.) R. C. Harris				I	E
<i>Ephebe lanata</i> (L.) Vainio	R				R
<i>Evernia divaricata</i> (L.) Ach.			Ex		E
<i>E. mesomorpha</i> Nyl.			Ex		E
<i>E. prunastri</i> (L.) Ach.		E			V
<i>Farnoldia hypocrita</i> (Massal.) Fröberg	V				
<i>F. jurana</i> (Schaer.) Hertel				I	
<i>Flavoparmelia caperata</i> (L.) Hale				I	E
<i>Fritzea lamprophora</i> (Körb.) Stein				I	
<i>Fulgensia fulgens</i> (Swartz) Elenkin		E			R
<i>Fuscidea austera</i> (Nyl.) P. James	V				V
<i>F. kochiana</i> (Hepp) Wirth & Vězda				I	
<i>F. lightfootii</i> (Sm.) Koppins & James	V				I
<i>F. recensa</i> (Stirton) Hertel, Wirth & Vězda				I	R
<i>Graphis scripta</i> (L.) Ach.		E			V
<i>Gyalecta truncigena</i> (Ach.) Hepp			Ex		E
<i>G. ulmi</i> (Sw.) Zahlbr.			Ex		E
<i>Gyalidea diaphana</i> (Körb.) Vězda				I	
<i>G. fritzei</i> (Stein) Vězda				I	
<i>Haematomma ochroleucum</i> (Neck.) Laund.		E			V
<i>Harpidium rutilans</i> (Flot.) Körb.				I	R

Species	Lower Silesia				Poland
<i>Helocarpon crassipes</i> Th. Fr.	R				
<i>Heppia lutos</i> (Ach.) Nyl.				Ex	E
<i>Hymenelia lacustris</i> (With.) Choisy		V			
<i>Hyperphyscia adglutinata</i> (Flk.) Mayrh. & Poelt				Ex	I
<i>Hypogymnia farinacea</i> Zopf			E		V
<i>H. tubulosa</i> (Schaer.) Hav.		V			V
<i>H. vittata</i> (Ach.) Parr.					E
<i>Hypotrachyna revoluta</i> (Flk.) Hale				Ex	E
<i>H. sinuosa</i> (Sm.) Hale				Ex	Ex
<i>Icmadophila ericetorum</i> (L.) Zahlbr.					E
<i>Imshaugia aleurites</i> (Ach.) S. L. F. Meyer		V			
<i>Ionaspis chrysophana</i> (Körb.) Stein					I
<i>I. epulotica</i> (Ach.) Arnold	R				
<i>I. odora</i> (Ach.) Stein		V			
<i>Körberiaella wimmeriana</i> (Körb.) Stein					I
<i>Lecanactis abietina</i> (Ach.) Körb.			E		R
<i>L. dilleniana</i> (Ach.) Körb.	R				V
<i>L. plocina</i> Massal.					I
<i>Lecania dubitans</i> (Nyl.) A. L. Sm.					I
<i>L. fuscilla</i> (Schaer.) Körb.					I
<i>L. nylanderiana</i> Massal.				Ex	E
<i>L. quercicola</i> Eitner				Ex	
<i>Lecanora achariana</i> A. L. Sm.					I
<i>L. albella</i> (Pers.) Ach.					I
<i>L. allophana</i> (Ach.) Nyl.					I
<i>L. argopholis</i> (Ach.) Ach.					I
<i>L. cateilea</i> (Ach.) Massal.				Ex	I
<i>L. demissa</i> (Flot.) Zahlbr.					I
<i>L. eitneriana</i> Zahlbr.				Ex	I
<i>L. epibryon</i> (Ach.) Ach.					I
<i>L. glabrata</i> (Ach.) Malme					I
<i>L. gypsodes</i> Körb.					I
<i>L. intumescens</i> (Rebent.) Rabenh.					I
<i>L. persimilis</i> (Th. Fr.) Nyl.				Ex	R
<i>L. subcarnea</i> (Liljeblad) Ach.					V
<i>L. subnigosa</i> Nyl.					I
<i>L. sulphurea</i> (Hoffm.) Ach.		V	E		R
<i>L. tephraea</i> Körb. ex Stein					V
<i>L. torquata</i> (Fr.) Nyl.					V
<i>L. umbrosa</i> Degel.					I
<i>Lecidea alboflava</i> (Körb.) Arnold					I
<i>L. atomaria</i> Th. Fr.					I
<i>L. caesioatra</i> Schaer.					I
<i>L. decussata</i> (Ach.) Th. Fr.					I
<i>L. ecrustacea</i> (Anzi ex Arnold) Arnold	R				R
<i>L. exilis</i> (Körb.) Rabenh.				Ex	I
<i>L. fallax</i> (Hepp) Linds.	R				
<i>L. limosa</i> Ach.		V			
<i>L. lurida</i> (Ach.) DC.					I
<i>L. luteoatra</i> Nyl.					I
<i>L. nodulosa</i> (Körb.) Olivier					I
<i>L. ochrocarpa</i> (Körb.) Lettau				Ex	
<i>L. phaeops</i> Nyl.					I
<i>L. planorbis</i> (Körb.) Lett.				Ex	
<i>L. pontifica</i> (Körb. ex Stein) Zahlbr.				Ex	
<i>L. pycnocarpa</i> (Körb.) Ohlert					I
<i>L. ramulosa</i> Th. Fr.					I
<i>L. silacea</i> Ach.					I
<i>L. squalescens</i> Nyl.					I
<i>L. steinii</i> Zahlbr.					I
<i>L. turgidula</i> Fr.		V			V
<i>Lecidella bullata</i> Körb.		V			
<i>L. scabra</i> (Taylor) Hertel & Leuckert		V			E
<i>Lemmopsis arnoldiana</i> (Hepp) Zahlbr.			E		I
<i>L. pelodes</i> (Körb. ex Stein) L. T. Ellis				Ex	I
<i>Lempholemma botryosum</i> (Massal.) Zahlbr.				Ex	Ex
<i>L. chalazanum</i> (Ach.) B. de Lesd.					V
<i>L. myriococcum</i> (Ach.) Th. Fr.	R				R
<i>Leprocaulon microscopicum</i> (Vill.) Gams				Ex	Ex
<i>Leptogium byssinum</i> (Hoffm.) Zwackh ex Nyl.	R			Ex	E

Species	Lower Silesia				Poland
<i>L. corniculatum</i> (Hoffm.) Minks.				I	E
<i>L. cyanescens</i> (Rabenh.) Körb.			Ex		
<i>L. intermedium</i> (Arnold) Arnold	R				
<i>L. saturninum</i> (Dicks.) Nyl.			Ex		E
<i>L. schraderi</i> (Bernh.) Nyl.	R				
<i>L. subtile</i> (Swchrad.) Torss.				I	
<i>L. tenuissimum</i> (Dickson) Körb.		V			
<i>Leptorhaphis quercus</i> (Beltr.) Körb.				I	
<i>Letharia vulpina</i> (L.) Hue			Ex		Ex
<i>Lobaria linita</i> (Ach.) Rabenh.			Ex		Ex
<i>L. pulmonaria</i> (L.) Hoffm.			Ex		E
<i>L. scorbiculata</i> (Scop.) DC.			Ex		E
<i>Lobothalia radiosa</i> (Hoffm.) Hafellner				I	
<i>Lopadium disciforme</i> (Flot.) Kullhem			Ex		
<i>L. pezizoideum</i> (Ach.) Körb.				I	E
<i>Loxospora elatina</i> (Ach.) Massal.			Ex		E
<i>Maronea constans</i> (Nyl.) Hepp			Ex		Ex
<i>Massalongia carnosa</i> (Dicks.) Körb.		V			
<i>Megalaria grossa</i> (Pers. ex Nyl.) Hafellner			Ex		I
<i>M. pulvere</i> (Borr.) Hafellner & E. Schreiner				I	
<i>Megaspora verrucosa</i> (Ach.) Hafellner & Wirth				I	
<i>Melanelia elegantula</i> (Zahlbr.) Essl.			Ex		E
<i>M. exasperata</i> (de Not.) Essl.				I	E
<i>M. glabra</i> (Schaer.) Essl.			E		I
<i>M. panniformis</i> (Nyl.) Essl.				I	I
<i>M. soreliata</i> (Ach.) Goward & Ahti				I	
<i>M. stygia</i> (L.) Essl.	R				
<i>M. subargentifera</i> (Nyl.) Essl.			E		V
<i>M. subaurifera</i> (Nyl.) Essl.			E		
<i>Menegazzia terebrata</i> (Hoffm.) Massal.				I	E
<i>Micarea adnata</i> Coppins		V			
<i>M. incrassata</i> Hedl.		V			
<i>M. lignaria</i> (Ach.) Hedl.	R				
<i>M. meleana</i> (Nyl.) Hedl.		V			V
<i>M. meleanida</i> (Nyl.) Coppins			Ex		I
<i>M. nitschkeana</i> (Lahm. ex Rabenh.) Harm.				I	V
<i>M. peliocarpa</i> (Anzi) Coppins & R. Sant.		V			
<i>M. turfosa</i> (Massal.) Du Rietz				I	R
<i>Miriquidica complanata</i> (Körb.) Hertel & Rambold	R				R
<i>M. liljenstroemi</i> Du Rietz				I	
<i>M. lulensis</i> (Hellb.) Hertel & Rambold	R				
<i>Moelleropsis nebulosa</i> (Hoffm.) Gyeln.				I	I
<i>Mycobilimbia lobulata</i> (Sommerf.) Hafellner			E		
<i>M. microcarpa</i> (Th. Fr.) Wirth				I	E
<i>Mycoblastus sanguinarius</i> (L.) Norm.				I	E
<i>Nephroma bellum</i> (Spreng.) Tuck.			Ex		E
<i>N. laevigatum</i> Ach.			Ex		
<i>N. parile</i> (Ach.) Ach.			Ex		E
<i>N. resupinatum</i> (L.) Ach.			Ex		E
<i>Normandina pulchella</i> (Borrer) Nyl.			Ex		E
<i>Ochrolechia pallescens</i> (L.) Massal.				I	E
<i>O. parella</i> (L.) Massal.				I	I
<i>O. subviridis</i> (Hoeg.) Erichs.		V			V
<i>O. tartarea</i> (L.) Massal.		I			I
<i>O. turneri</i> (Sm.) Hasselrot			Ex		
<i>Opegrapha atra</i> Pers.				I	V
<i>O. calcarea</i> Sm.			Ex		
<i>O. dolomitica</i> (Ach.) Koerb.				I	
<i>O. illecebrosa</i> Dufour [ <i>L. amylacea</i> (Ehrh.) Arnold]			Ex		E
<i>O. ochrocheila</i> Nyl.				I	R
<i>O. rufescens</i> Pers.			E		V
<i>O. varia</i> Pers.			E		V
<i>O. vermicillifera</i> (Kunze) Laundon			Ex		E
<i>O. viridis</i> (Pers.) Nyl.			E		V
<i>O. vulgata</i> Ach. var. <i>vulgata</i> [ <i>O. lithryga</i> Ach.]				I	
<i>O. vulgata</i> Ach. var. <i>subsiderella</i> Nyl. [ <i>O. niveoatra</i> (Borr.) Laundon]		V			V
<i>Pachyphiale carneola</i> (Ach.) Arnold				I	I
<i>Pannaria conoplea</i> (Ach.) Bory				I	E
<i>P. leucophaea</i> (Vahl.) Jorg.			E		V
<i>P. pezizoides</i> (Web.) Trevisian		V			V



Species	Lower Silesia				Poland
	V	E	Ex	I	
<i>P. praetermissa</i> Nyl. in Chyd. & Furuhj.				I	
<i>Parmelia omphalodes</i> (L.) Ach.	V			I	V
<i>P. submontana</i> Nadv. ex Hale				I	E
<i>Parmeliella triptophylla</i> (Ach.) Müll. Arg.				I	E
<i>Parmelina quercina</i> (Willd.) Hale		E			E
<i>P. tiliacea</i> (Hoffm.) Hale		E			E
<i>Parmeliopsis hyperopta</i> (Ach.) Arn.	V				
<i>Parmotrema chinense</i> (Osbeck) Hale & Ahti				I	E
<i>Peccania coralloides</i> Massal.			Ex		
<i>Peltigera aptosa</i> (L.) Willd.				I	E
<i>P. canina</i> (L.) Willd.		E			V
<i>P. collina</i> (Ach.) Schrad.				I	V
<i>P. horizontalis</i> (Huds.) Baumg.		E			E
<i>P. leucophlebia</i> (Nyl.) Gyeln.				I	
<i>P. malacea</i> (Ach.) Funck.				I	V
<i>P. polydactyla</i> (Necker) Hoffm.		E			
<i>P. venosa</i> (L.) Hoffm.				I	E
<i>Peltula euploca</i> (Ach.) Poelt			Ex		I
<i>Pertusaria albescens</i> (Huds.) Choisy & Werner	V				
<i>P. alpina</i> Hepp		E			V
<i>P. amara</i> (Ach.) Nyl.	V				
<i>P. aspergilla</i> (Ach.) Laundon				I	
<i>P. caesioumbrina</i> Eitner			Ex		Ex
<i>P. chiodectonoides</i> Bagl. ex Massal.				I	R
<i>P. coccodes</i> (Ach.) Nyl.	V				
<i>P. constricta</i> Erichs.			Ex		
<i>P. coronata</i> (Ach.) Th. Fr.		E			E
<i>P. creatomma</i> (Norm.) Zahlbr.			Ex		
<i>P. eitneriana</i> Zahlbr.				I	I
<i>P. geminipara</i> (Th. Fr.) Knight. ex Brodo	V				
<i>P. glomerata</i> (Ach.) Schaer.				I	
<i>P. hemisphaerica</i> (Flk.) Erichs.				I	V
<i>P. hymenea</i> (Ach.) Schaer.			Ex		E
<i>P. leioplaca</i> DC.		E			V
<i>P. ocellata</i> (Wallr.) Körb.	R				
<i>P. oculata</i> (Dicks.) Th. Fr.	V				
<i>P. pertusa</i> (Weigel) Tuck.		E			V
<i>P. rupestris</i> (DC.) Schaer.				I	
<i>Phaeophyscia ciliata</i> (Hoffm.) Moberg				I	E
<i>Ph. endococcina</i> (Körb.) Moberg		E			
<i>Phlyctis agelaea</i> (Ach.) Flot.		E			E
<i>Phylliscum demangeonii</i> (Moug. & Mont.) Nyl.				I	I
<i>Physcia aipolia</i> (Ehrh.) Fűrnr.		E			V
<i>Ph. stellaris</i> (L.) Nyl.	V				
<i>Physconia distorta</i> (With.) Laundon		E			V
<i>Ph. perisidiosa</i> (Erihsen) Moberg		E			E
<i>Placocarpus schaereri</i> (Fr.) O. Breuss			Ex		R
<i>Placopsis gelida</i> (L.) Linds.				I	I
<i>Platismatia glauca</i> (L.) W. Culb. & C. Culb.	V				V
<i>Pleospidium chlorophanum</i> (Wahlenb.) Zopf.		E			
<i>P. flavum</i> (Bellardi) Körb.		E			
<i>Pleurosticta acetabulum</i> (Neck.) Ellis & Lumbsch		E			E
<i>Polyblastia abscondita</i> (Nyl.) Arnold				I	I
<i>P. cruenta</i> (Körb.) James & Swinscow	R				
<i>P. gelatinosa</i> (Ach.) Th. Fr.	R				
<i>P. gothica</i> Th. Fr.				I	I
<i>P. melaspora</i> (Taylor) Zahlbr.				I	
<i>P. sendtneri</i> Krempel.			Ex		
<i>P. sepulta</i> Massal.				I	
<i>P. theleodes</i> (Sommerf.) Th. Fr.	R				
<i>Polychidium muscicola</i> (Sw.) Gray				I	I
<i>Porina byssophila</i> (Körb. ex Hepp) Zahlbr.				I	R
<i>P. grandis</i> (Körb.) Zahlbr.				I	R
<i>P. lectissima</i> (Fr.) Zahlbr.				I	
<i>P. mammosa</i> (Th. Fr.) Vainio				I	
<i>Porocyphus coccodes</i> (Flot.) Körb.				I	I
<i>Porpidia cinereoatra</i> (Ach.) Hertel & Knoph	V				V
<i>P. musiva</i> (Körb.) Krempel & Knoph				I	I
<i>P. incrustans</i> (DC.) Steiner	R				
<i>P. siebenhaariana</i> (Körb.) Steiner				I	R

Species	Lower Silesia				Poland
<i>Protoparmelia atriseda</i> (Fr.) R. Sant. & Wirth				I	I
<i>Protothelenella leucothelia</i> (Nyl.) Mayrh. & Poelt				I	I
<i>P. sphinctrinoides</i> (Nyl.) Mayr. & Poelt		V			
<i>Pseudephebe pubescens</i> (L.) Choisy	R				
<i>Psora vallesiaca</i> (Schaer.) Timdal [ <i>P. albilabra</i> (Dufour) Körb. ssp. <i>deceptoria</i> (Nyl.) Clauz. & Roux]	R				E
<i>P. decipiens</i> (Hedw.) Hoffm.				I	V
<i>Psoroma hypnorum</i> (Vahl) Gray				I	E
<i>Psorotichia schaeferi</i> (Massal.) Arnold	R				
<i>Punctelia subrudecta</i> (Nyl.) Krog				I	E
<i>Pycnothelia papillaria</i> (Ehrh.) Dufour				I	V
<i>Pyrenocarpon flotowianum</i> (Hepp) Trevisian				Ex	Ex
<i>Pyrenula laevigata</i> (Pers.) Arnold				I	E
<i>P. nitida</i> (Weigel) Ach.			E		E
<i>P. nitidella</i> (Flk.) Müll. Arg.			E		E
<i>Pyrrhospora quereua</i> (Dicks.) Körb.				Ex	E
<i>Ramatina baltica</i> Lettau				Ex	I
<i>R. calicaris</i> (L.) Fr.				Ex	E
<i>R. capitata</i> (Ach.) Nyl.					E
<i>R. dilacerata</i> (Hoffm.) Hoffm.				Ex	I
<i>R. farinacea</i> (L.) Ach.					V
<i>R. fastigiata</i> (Pers.) Ach.			E		E
<i>R. fraxinea</i> (L.) Ach.			E		E
<i>R. pollinaria</i> (Westr.) Ach.			E		V
<i>R. polymorpha</i> (Liljeblad) Ach.				Ex	Ex
<i>R. thrausta</i> (Ach.) Nyl.				Ex	E
<i>Rhizocarpon disporum</i> (Näg.) Müll. Arg.					I
<i>R. eupetraeum</i> (Nyl.) Arnold					I
<i>R. grande</i> (Flk. ex Flotow) Arnold					I
<i>R. oederi</i> (Weber) Körb.					I
<i>R. petraeum</i> (Wulf.) Massal.	R				
<i>R. simillinum</i> (Anzi) Lettau					I
<i>R. sorediosum</i> Runem.		V			
<i>R. subgeminatum</i> Eitner					I
<i>R. saanaense</i> Räs. [R. <i>sublucidum</i> Räs.]					I
<i>R. umbilicatum</i> (Ramond) Flagey				Ex	R
<i>R. viridiatrum</i> (Wulf.) Körb.					I
<i>Rimularia impavida</i> (Th. Fr.) Hertel					I
<i>Rinodina adspersa</i> (Borr.) Laundon					I
<i>R. archaea</i> (Ach.) Arnold					I
<i>R. atropallidula</i> (Nyl.) Arnold					I
<i>R. colobina</i> (Ach.) Th. Fr.				Ex	E
<i>R. conradii</i> Körb.					I
<i>R. exigua</i> (Ach.) Gray		V			V
<i>R. fimbriata</i> Körb.				Ex	
<i>R. milvina</i> (Wahlenb. in Ach.) Th. Fr.					I
<i>R. oxydata</i> (Massal.) Massal.	R				
<i>R. polyspora</i> Th. Fr.				Ex	I
<i>R. sophodes</i> (Ach.) Massal.					I
<i>R. teichophila</i> (Nyl.) Arnold	R				I
<i>R. tephraspis</i> (Tuck.) Herre					I
<i>R. trevisani</i> (Hepp) Körb.				Ex	I
<i>R. turfacea</i> (Wahlenb.) Körb.					I
<i>Sarcogyne clavus</i> (DC.) Krempelh.	R				I
<i>Sarcopyrenia gibba</i> (Nyl.) Nyl.		V			
<i>Sarcosagium campestre</i> (Fr.) Poetsch. & Schied.					I
<i>Schaereria cinereorufa</i> (Schaer.) Th. Fr.					I
<i>Schismatomma abietinum</i> (Ehrh.) Massal.				Ex	E
<i>Sclerophora nivea</i> (Hoffm.) Tibel					I
<i>Scoliciosporum perpusillum</i> Körb.				Ex	Ex
<i>Solorina crocea</i> (L.) Ach.					I
<i>S. saccata</i> (L.) Ach.	R				
<i>Sphaerophorus fragilis</i> (L.) Pers.		V			
<i>S. globosus</i> (Huds.) Vainio					I
<i>S. melanocarpus</i> (Sw.) DC.				Ex	E
<i>Sporastatia polyspora</i> (Nyl.) Grum.					I
<i>S. testudinea</i> (Ach.) Massal.		V			
<i>Squamarina cartilaginea</i> (With.) P. James				Ex	
<i>S. lentigera</i> (Web.) Poelt				Ex	V
<i>Staurothele ambrosiana</i> (Massal.) Zsch.		V			
<i>S. fissa</i> (Taylor) Zwackh		V			R

Species	Lower Silesia				Poland
	R	V	E	Ex	
<i>S. fuscocuprea</i> (Nyl.) Zsch.					I
<i>S. guestphalica</i> (Lahm ex Körb.) Arnold					I
<i>S. hymenogonia</i> (Nyl.) Th. Fr.	R				
<i>S. succedens</i> (Rehm) Arnold			E		
<i>Steinia geophana</i> (Nyl.) Stein					I
<i>Stereocaulon condensatum</i> Hoffm.					I
<i>S. dactylophyllum</i> Flk.		V			V
<i>S. incrustatum</i> Flk.		V			V
<i>S. paschale</i> (L.) Hoffm.					I
<i>S. pileatum</i> Ach.		V			E
<i>S. tomentosum</i> Fr.		V			E
<i>Sticta fuliginosa</i> (Hoffm.) Ach.				Ex	E
<i>S. sylvatica</i> (Huds.) Ach.				Ex	Ex
<i>Strangospora ochrospora</i> (Nyl.) Anderson					I
<i>Strigula affinis</i> (Massal.) R. C. Harris					I
<i>S. stigmatella</i> (Ach.) R. C. Harris					I
<i>Synalissa symphorea</i> (Ach.) Nyl.	R				R
<i>Thamnomia vermicularis</i> (Sw.) Schaer.		V			
<i>Thelenella modesta</i> (Nyl.) Nyl.				Ex	I
<i>Thelidium absconditum</i> (Hrempel.) Rabenh.					R
<i>T. aenovinosum</i> (Anzi) Arnold					I
<i>T. amyloaceum</i> Massal.					I
<i>T. aphanes</i> Lahm					I
<i>T. cataractarum</i> (Hepp) Lönnr	R				
<i>T. decipiens</i> Krempel.					I
<i>T. gisleri</i> (Müll. Arg.) Zsch.	R				
<i>T. incavatatum</i> Mudd	R				
<i>T. saprophilum</i> Servit					I
<i>T. subabsconditum</i> Eitner					I
<i>Thelingsya lignyota</i> (Wahlenb.) Jorg. & Henssen				Ex	
<i>Thelocarpon cinereum</i> Eitner					I
<i>T. impressellum</i> Nyl.	R				
<i>T. intermediellum</i> Nyl.				Ex	I
<i>T. robustum</i> Eitner					I
<i>Thelomma ocellatum</i> (Koerb.) Tibell					I
<i>Thelotrema lepadinum</i> (Ach.) Ach.					I
<i>Thermutis velutina</i> (Ach.) Flot.	R				R
<i>Toninia aromatica</i> (Sm.) Massal.				Ex	
<i>T. athallina</i> (Hepp) Timdal					I
<i>T. candida</i> (Web.) Th. Fr.					I
<i>T. sedifolia</i> (Scop.) Timdal		V			V
<i>Trapelia geochroa</i> (Körb.) Hertel					I
<i>T. mooreana</i> (Carroll) P. James					I
<i>Trapeliopsis gelatinosa</i> (Flk.) Coppins & P. James					I
<i>T. viridescens</i> (Schr.) Coppins & P. James		V			E
<i>T. wallrothii</i> (Flk. in Spreng.) Hertel & G. Schneider					I
<i>Umbilicaria crustulosa</i> (Ach.) Fey		V			
<i>U. hyperborea</i> (Ach.) Hoffm.		V			V
<i>U. nylanderiana</i> (Zahlbr.) H. Magn.					I
<i>U. polyphylla</i> (L.) Baumg.		V			V
<i>U. proboscoidea</i> (L.) Schrad.		V			
<i>U. propagulifera</i> (Vainio) Llano					I
<i>U. spodochroa</i> (Hoffm.) DC.		V			
<i>U. vellea</i> (L.) Hoffm.		V			
<i>Usnea ceratina</i> Ach.				Ex	E
<i>U. compacta</i> Mot.				Ex	E
<i>U. cornuta</i> Körb.				Ex	Ex
<i>U. diplotypus</i> Vainio				Ex	Ex
<i>U. filipendula</i> Stirton			E		E
<i>U. florida</i> (L.) Web. ex Wigg.				Ex	E
<i>U. glauca</i> Mot.					E
<i>U. hirta</i> (L.) Web.			E		V
<i>U. longissima</i> Ach.				Ex	Ex
<i>U. neglecta</i> Mot.				Ex	E
<i>U. rigida</i> (Ach.) Röhl.				Ex	Ex
<i>U. soredifera</i> Mot.				Ex	Ex
<i>U. subfloridana</i> Stirton					I
<i>U. uncinulata</i> Mot.				Ex	Ex
<i>Varicellaria rhodocarpa</i> (Körb.) Th. Fr.	R				R
<i>Verrucaria acrotella</i> Ach.					I

Species	Lower Silesia					Poland
<i>V. alutacea</i> Zsch.					I	
<i>V. andesitica</i> Servit					I	
<i>V. annulifera</i> Eitner				Ex		Ex
<i>V. apomeleana</i> (Massal.) Hepp					I	
<i>V. aquatilis</i> Mudd.			E			V
<i>V. basaltica</i> Servit					I	
<i>V. beltraminiana</i> (Massal.) Trevisan				Ex		
<i>V. buellioides</i> Servit					I	
<i>V. caerulea</i> DC. in Lam & DC.					I	
<i>V. cincta</i> Hepp					I	
<i>V. foveolata</i> (Flk.) Massal.	R					
<i>V. funckii</i> (Spreng.) Zahlbr.		V				V
<i>V. fusconigrescens</i> Nyl.					I	
<i>V. guestphalica</i> Servit					I	
<i>V. hydrela</i> Ach.		V				
<i>V. infumata</i> Nyl.					I	
<i>V. krempelhuberi</i> Lindau					I	
<i>V. latebrosa</i> Körb.					I	
<i>V. longicollis</i> (Eitner) Zahlbr.				Ex		
<i>V. macrostoma</i> Dufour ex DC.				Ex		
<i>V. maculiformis</i> Krempelh.					I	
<i>V. memmonia</i> (Körb.) Arnold	R					
<i>V. mougeotii</i> (Zsch.) Servit					I	
<i>V. murina</i> Leighton					I	
<i>V. obnigrescens</i> Nyl.					I	
<i>V. praesudetica</i> Zsch.					I	
<i>V. praetermissa</i> (Trvis.) Anzi					I	R
<i>V. procopii</i> Servit	R					
<i>V. pulcaris</i> Massal.					I	
<i>V. pulvinata</i> Eitner				Ex		
<i>V. rheitrophila</i> Zsch.					I	V
<i>V. sublobulata</i> Eitner ex Servit					I	V
<i>V. submersella</i> Servit					I	
<i>V. sylvatica</i> Zsch.	R					
<i>V. tapetica</i> Körb.				Ex		
<i>V. viridula</i> (Schrad.) Ach.			E			
<i>Vulpicida pinastri</i> (Scop.) Ach.			E			V
<i>Xanthoparmelia mougeotii</i> (Schaer. ex Dietr.) Hale					I	E
<i>Xanthoria calcicola</i> Oxner					I	
<i>X. candelaria</i> (L.) Th. Fr.		V				V
<i>X. fallax</i> (Hepp) Arnold			E			V
<i>X. polycarpa</i> (Hoffm.) Th. Fr. ex Rieber.		V				
<i>Xylographa minutula</i> Körb.				Ex		
<i>X. paralella</i> (Ach.) Behl. & Desb.					I	E
<i>X. vitiligo</i> (Ach.) Laundon				Ex		R
Total:	52	83	63	140	264	