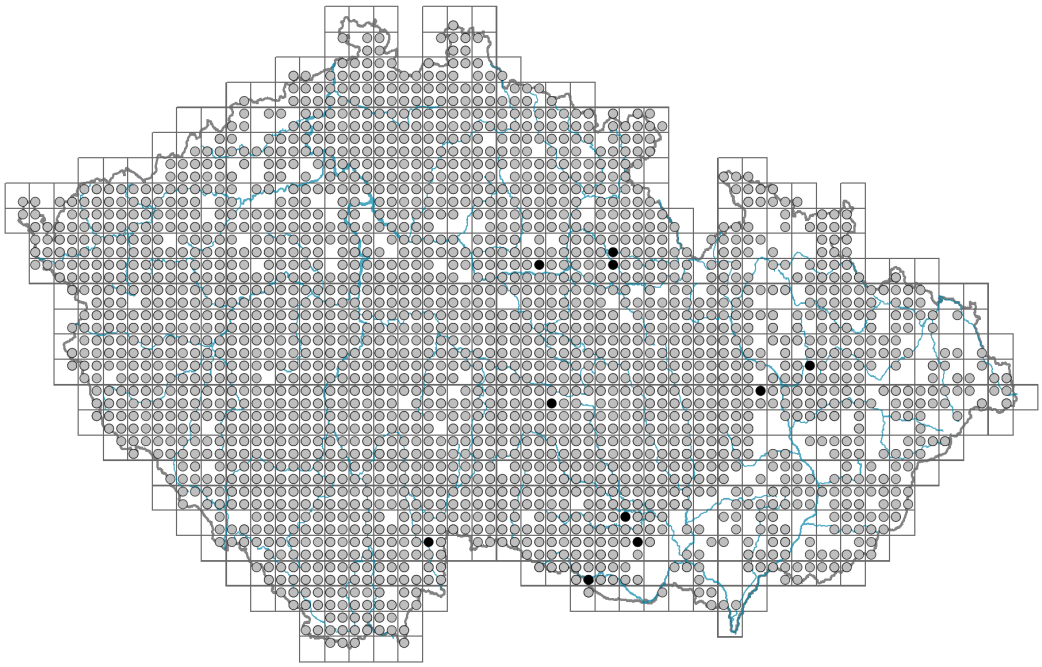
Festuca ovina s. l.

Distribution





Map info

revised records

unrevised records

On the map are not visualized records without the coordinates and records marked as incorrect or doubtful.







Habitus and growth type

Height [m]: **0.2–0.6**
Growth form: **clonal herb**
Life form: **hemicryptophyte**
Life strategy: **CSR – competitor/stress-tolerator/ruderal**
Life strategy (Pierce method based on leaf traits): **S/SR**
Life strategy (Pierce method, C-score): **0.1 %**
Life strategy (Pierce method, S-score): **77 %**
Life strategy (Pierce method, R-score): **22.9 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **simple – entire**
Stipules: **absent**
Petiole: **absent**
Leaf life span: **evergreen**
Leaf anatomy: **scleromorphic**

Flower

Flowering period [month]: **May–July**

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Flowering phase: **6 Cornus sanguinea-Melica uniflora (start of early summer)**
Flower colour: **green**
Perianth type: **reduced**
Perianth fusion: **reduced**
Inflorescence type: **panicula e spiculis composita**
Dicliny: **synoecious**
Generative reproduction type: **facultative allogamy**
Pollination syndrome: **wind-pollination, water-pollination**



Fruit, seed and dispersal

Fruit type: **dry fruit – caryopsis**
Fruit colour: **brown**
Reproduction type: **only by seed/spores**
Dispersal unit (diaspore): **fruit, infrutescence or its part**
Dispersal strategy: **Allium (mainly autochory)**
Myrmecochory: **non-myrmecochorous (b)**



Belowground organs and clonality

Storage organ: **tuft**



Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**
Carnivory: **non-carnivorous**
Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

Karyology

Chromosome number (2n): **14, 28**
Ploidy level (x): **2, 4**
2C genome size [Mbp]: **6350**
1Cx monoploid genome size [Mbp]: **2120.47**



Taxon origin

Origin in the Czech Republic: **native**



Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **7 – half-light plant, mostly occurring at full light, but also in the shade up to about 30% of diffuse radiation incident in an open area**
Temperature indicator value: **5 – moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas**
Moisture indicator value: **4x – transition between values 3 and 5 (generalist)**
Reaction indicator value: **3 – acidity indicator, occurring mainly in acidic conditions, exceptionally in neutral conditions**
Nutrient indicator value: **2 – transition between values 1 and 3**

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Salinity indicator value: **0 – not salt tolerant, glycophyte**



Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.63**
Herb layer disturbance frequency indicator value: **-0.63**
Whole-community disturbance severity indicator value: **0.27**
Herb layer disturbance severity indicator value: **0.21**
Whole-community structure based disturbance indicator value: **0.27**
Herb layer structure-based disturbance indicator value: **0.31**

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1A Calcareous cliffs: **1 – rare occurrence**
1B Siliceous cliffs and block fields: **3 – dominant**
1C Walls: **1 – rare occurrence**
1D Mobile calcareous screes: **1 – rare occurrence**

2 Alpine and subalpine grasslands

2B Subalpine tall-forb and tall-grass vegetation: **1 – rare occurrence**

5 Vegetation of springs and mires

5D Calcareous fens: **1 – rare occurrence**
5E Acidic moss-rich fens and peatland meadows: **1 – rare occurrence**
5F Transitional mires: **1 – rare occurrence**
5G Raised bogs: **1 – rare occurrence**

6 Meadows and mesic pastures

6A Mesic Arrhenatherum meadows: **1 – rare occurrence**
6B Montane mesic meadows: **1 – rare occurrence**
6C Pastures and park grasslands: **1 – rare occurrence**
6E Wet Cirsium meadows: **1 – rare occurrence**
6F Intermittently wet Molinia meadows: **2 – optimum**

7 Acidophilous grasslands

7B Submontane Nardus grasslands: **3 – dominant**

8 Dry grasslands

8A Hercynian dry grasslands on rock outcrops: **1 – rare occurrence**
8B Submediterranean dry grasslands on rock outcrops: **1 – rare occurrence**
8C Narrow-leaved sub-continental steppes: **1 – rare occurrence**
8D Broad-leaved dry grasslands: **1 – rare occurrence**
8E Acidophilous dry grasslands: **3 – dominant**
8F Thermophilous forest fringe vegetation: **2 – optimum**

9 Sand grasslands and rock-outcrop vegetation

9B Open vegetation of acidic sands: **2 – optimum**
9C Festuca grasslands on acidic sands: **3 – dominant**
9D Pannonian sand steppes: **1 – rare occurrence**
9E Acidophilous vegetation of spring therophytes and succulents: **2 – optimum**
9F Basiphilous vegetation of spring therophytes and succulents: **1 – rare occurrence**

11 Heathlands and scrub

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11A Dry lowland to subalpine heathlands: **2 – optimum**
11L Tall mesic and xeric shrub: **1 – rare occurrence**
11N Low xeric scrub: **1 – rare occurrence**
11R Scrub and pioneer woodland of forests clearings: **1 – rare occurrence**

12 Forests

12A Alder carrs: **1 – rare occurrence**
12C Oak-hornbeam forests: **2 – optimum**
12D Ravine forests: **1 – rare occurrence**
12E Herb-rich beech forests: **1 – rare occurrence**
12F Limestone beech forests: **1 – rare occurrence**
12G Acidophilous beech forests: **1 – rare occurrence**
12H Peri-Alpidic basiphilous thermophilous oak forests: **2 – optimum**
12I Sub-continental thermophilous oak forests: **2 – optimum**
12J Acidophilous thermophilous oak forests: **2 – optimum**
12K Acidophilous oak forests: **4 – constant dominant**
12L Boreo-continental pine forests: **4 – constant dominant**
12O Peri-Alpidic pine forests: **4 – constant dominant**
12P Peatland pine forests: **1 – rare occurrence**
12Q Peatland birch forests: **1 – rare occurrence**
12R Acidophilous spruce forests: **1 – rare occurrence**
12T Robinia pseudacacia plantations: **1 – rare occurrence**
12U Plantations of broad-leaved non-native trees: **1 – rare occurrence**
12V Spruce plantations: **1 – rare occurrence**
12W Pine and larch plantations: **2 – optimum**

13 Anthropogenic vegetation

13D Perennial thermophilous ruderal vegetation: **1 – rare occurrence**
13F Herbaceous vegetation of forests clearings and Rubus scrub: **1 – rare occurrence**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **2.1 – taxon occurring both in the forest and open vegetation**
Affinity to the forest environment in Mesophyticum and Oreophyticum: **2.1 – taxon occurring both in the forest and open vegetation**

Diagnostic taxon

Diagnostic taxon of classes: **LC *Quercetea pubescentis*, LD *Quercetea robori-petraeae*, LE *Erico-Pinetea***
Diagnostic taxon of alliances: **LCB *Aceri tatarici-Quercion*, LCC *Quercion petraeae*, LDA *Quercion roboris*, LEA *Erico carneae-Pinion*, SAB *Asplenion cuneifolii*, TFD *Hyperico perforati-Scleranthion perennis***
Diagnostic taxon of associations: **LCB02 *Carici fritschii-Quercetum roboris*, LCC01 *Sorbo torminalis-Quercetum*, LCC02 *Genisto pilosae-Quercetum petraeae*, LDA01 *Luzulo luzuloidis-Quercetum petraeae*, LDA02 *Viscario vulgaris-Quercetum petraeae*, LEA01 *Thlaspio montani-Pinetum sylvestris*, LFB04 *Asplenio cuneifolii-Pinetum sylvestris*, TFC02 *Erysimo diffusi-Agrostietum capillaris*, TFD02 *Jasiono montanae-Festucetum ovinae*, THC04 *Asplenio cuneifolii-Seslerietum caeruleae***

Constant taxon

Constant taxon of classes: **LC *Quercetea pubescentis*, LD *Quercetea robori-petraeae*, LE *Erico-Pinetea*, TF *Koelerio-Corynephoretea***
Constant taxon of alliances: **LCB *Aceri tatarici-Quercion*, LCC *Quercion petraeae*,**

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LDA *Quercion roboris*, **LEA *Erico carneae-Pinion***, **LFA *Festuco-Pinion sylvestris***, **SAB *Asplenion cuneifolii***, **TDD *Molinion caeruleae***, **TEE *Euphorbio cyparissiae-Callunion vulgaris***, **TFD *Hyperico perforati-Scleranthion perennis***, **THG *Koelerio-Phleion phleoidis***

Constant taxon of associations: **LCB02 *Carici fritschii-Quercetum roboris***, **LCC01 *Sorbo torminalis-Quercetum***, **LCC02 *Genisto pilosae-Quercetum petraeae***, **LCC03 *Melico pictae-Quercetum roboris***, **LDA01 *Luzulo luzuloidis-Quercetum petraeae***, **LDA02 *Viscario vulgaris-Quercetum petraeae***, **LDA04 *Holco mollis-Quercetum roboris***, **LEA01 *Thlaspio montani-Pinetum sylvestris***, **LFA01 *Festuco-Pinetum sylvestris***, **LFB03 *Hieracio pallidi-Pinetum sylvestris***, **LFB04 *Asplenio cuneifolii-Pinetum sylvestris***, **SAB01 *Asplenietum cuneifolii***, **TDD02 *Junco effusi-Molinietum caeruleae***, **TEE01 *Euphorbio cyparissiae-Callunetum vulgaris***, **TFC02 *Erysimo diffusi-Agrostietum capillaris***, **TFD01 *Polytricho piliferi-Scleranthetum perennis***, **TFD02 *Jasiono montanae-Festucetum ovinae***, **THC04 *Asplenio cuneifolii-Seslerietum caeruleae***, **THG01 *Potentillo heptaphyllae-Festucetum rupicolae***, **THG03 *Viscario vulgaris-Avenuletum pratensis***

Dominant taxon

Dominant taxon of associations: **KBF01 *Arrhenathero elatioris-Robinietum pseudoacaciae***, **LCC01 *Sorbo torminalis-Quercetum***, **LCC02 *Genisto pilosae-Quercetum petraeae***, **LDA01 *Luzulo luzuloidis-Quercetum petraeae***, **LDA02 *Viscario vulgaris-Quercetum petraeae***, **LEA01 *Thlaspio montani-Pinetum sylvestris***, **LFB04 *Asplenio cuneifolii-Pinetum sylvestris***, **SAB01 *Asplenietum cuneifolii***, **SAC02 *Festuco pallentis-Saxifragetum rosaceae***, **TDD02 *Junco effusi-Molinietum caeruleae***, **TFC02 *Erysimo diffusi-Agrostietum capillaris***, **TFD01 *Polytricho piliferi-Scleranthetum perennis***, **TFD02 *Jasiono montanae-Festucetum ovinae***, **THG01 *Potentillo heptaphyllae-Festucetum rupicolae***

Ecological specialization indices

Ecological specialization index for all vegetation types: **3.7**

Ecological specialization index for non-forest vegetation: **4**

Ecological specialization index for forest vegetation: **4.6**

Colonization ability

Index of colonization success (ICS): **7**

Index of colonization potential (ICP): **4**

Optimum successional age [years]: **30**

Distribution and frequency

Floristic zone: **arctic, boreal, northern temperate, southern temperate, submeridional, meridional**

Floristic region: **Europe, Siberia**

Distribution range extension along the continentality gradient: **7**

Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 634

taxon.data.freq_in_quad: 2119

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **4 %**

Occurrence frequency in vegetation plots with a cover above 5%: **40.9 %**

Occurrence frequency in vegetation plots with a cover above 25%: **13.5 %**

Occurrence frequency in vegetation plots with a cover above 50%: **2 %**

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Mean percentage cover in vegetation plots: **10.5 %**
Maximum percentage cover in vegetation plots: **88 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **51**
Number of narrow habitats in which the taxon has its optimum: **17**
Number of broad habitats in which the taxon occurs: **10**
Number of broad habitats in which the taxon has its optimum: **7**

Threats and protection

Red List 2017 (national categories): **taxon is not on the Red List**
Red List 2017 (IUCN categories): **LC(NA) – least concern (taxon is not on the Red List)**
Legal protection: **not protected by law**

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