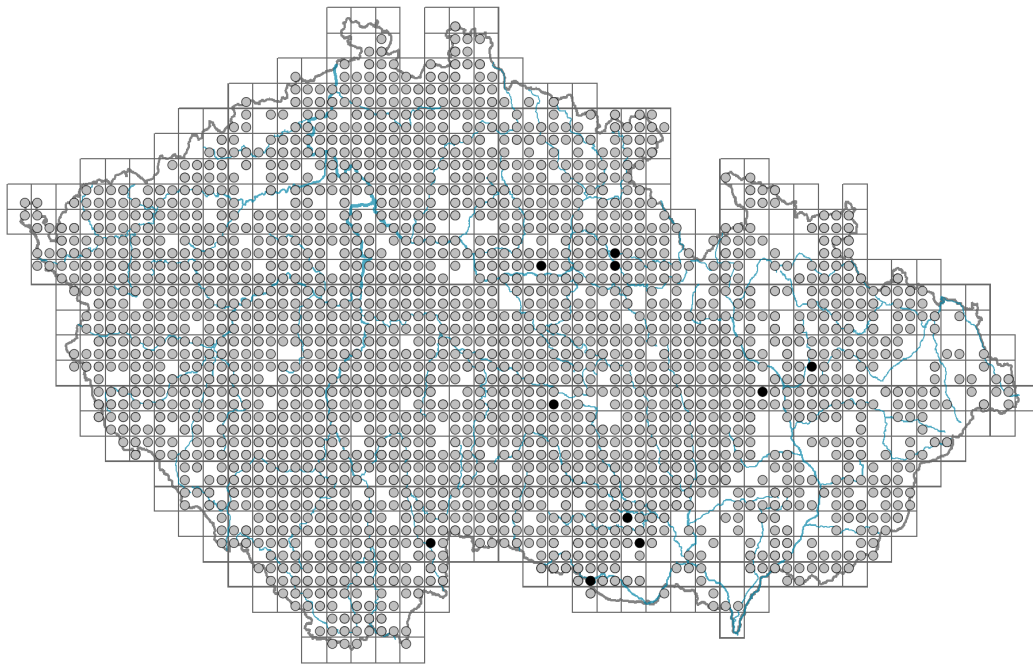


# *Festuca ovina s. l.*

## 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**

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

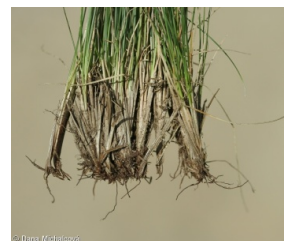
Light indicator value: **7 - half-light plant, mostly occurring at full light, but also in the shade up to about 30% of diffuse radiation incident in an open area**

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**



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

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.63**

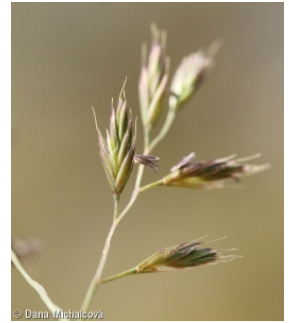
Herb layer disturbance frequency indicator value: **-0.63**

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



- 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 carnea-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](#),



[LDA Quercion roboris](#), [LEA Erico carnea-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-Robinetum 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: **620**

taxon.data.freq\_in\_quad: **2003**

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 %**

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**