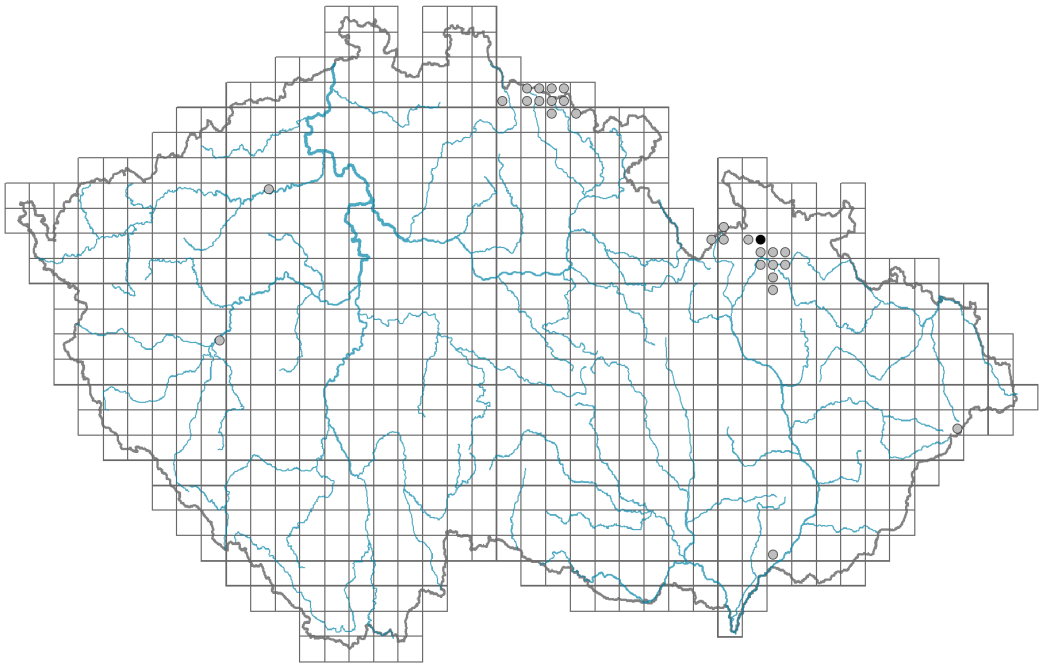
Festuca supina

Distribution

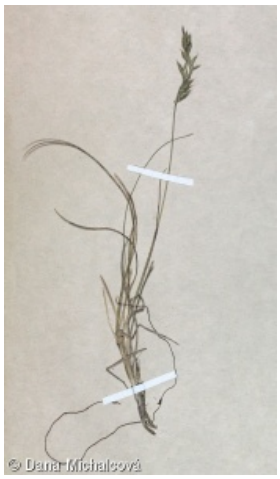


Map info

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]: **0.2–0.4**
Growth form: **clonal herb**
Life form: **hemicryptophyte**
Life strategy: **CS – competitor/stress-tolerator**

Leaf

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

Flower

Flowering period [month]: **July–August**
Flower colour: **green**
Perianth type: **reduced**
Perianth fusion: **reduced**
Inflorescence type: **panicula e spiculis composita**
Dicliny: **synoecious**
Generative reproduction type: **allogamy**

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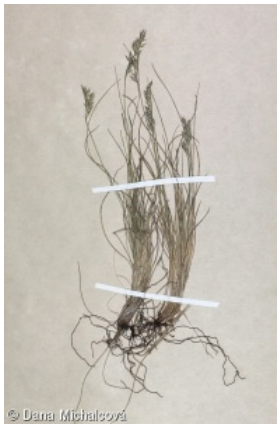
Pollination syndrome: **wind-pollination**



Fruit, seed and dispersal

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

Belowground organs and clonality

Shoot metamorphosis: **brood shoot**
Storage organ: **tuft**

Trophic mode

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

Karyology

Chromosome number (2n): **28 (35)**
Ploidy level (x): **4 (5)**
2C genome size [Mbp]: **8554.73**
1Cx monoploid genome size [Mbp]: **2138.68**
Genomic GC content: **47.9 %**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **9 – full light plant, occurring only in fully irradiated places, not at less than 50% of diffuse radiation incident in an open area**
Temperature indicator value: **2 – transition between values 1 and 3**
Moisture indicator value: **5 – indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out**
Reaction indicator value: **2 – transition between values 1 and 3**
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: **-0.76**
Herb layer disturbance frequency indicator value: **-0.76**
Whole-community disturbance severity indicator value: **0.24**
Herb layer disturbance severity indicator value: **0.28**

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Whole-community structure based disturbance indicator value: **0.52**
Herb layer structure-based disturbance indicator value: **0.6**

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1B Siliceous cliffs and block fields: **2 – optimum**

2 Alpine and subalpine grasslands

2A Alpine grasslands on siliceous bedrock: **3 – dominant**
2B Subalpine tall-forb and tall-grass vegetation: **2 – optimum**

6 Meadows and mesic pastures

6B Montane mesic meadows: **1 – rare occurrence**

7 Acidophilous grasslands

7A Subalpine and montane acidophilous grasslands: **2 – optimum**
7B Submontane Nardus grasslands: **1 – rare occurrence**

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **2 – optimum**
11D Subalpine acidophilous Pinus mugo scrub: **1 – rare occurrence**
11H Subalpine deciduous scrub: **1 – rare occurrence**

12 Forests

12R Acidophilous spruce forests: **1 – rare occurrence**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **0 – taxon that does not spontaneously occur in Czech forests**
Affinity to the forest environment in Mesophyticum and Oreophyticum: **0 – taxon that does not spontaneously occur in Czech forests**

Diagnostic taxon

Diagnostic taxon of classes: **AA *Loiseleurio-Vaccinietea***, **AB *Juncetea trifidi***, **AC *Elyno-Seslerietea***
Diagnostic taxon of alliances: **AAA *Loiseleurio procumbentis-Vaccinion***, **ABA *Juncion trifidi***, **ABB *Nardo strictae-Caricion bigelowii***, **ACA *Agrostion alpinae***, **ADB *Calamagrostion arundinaceae***, **TEA *Nardion strictae***
Diagnostic taxon of associations: **AAA01 *Avenello flexuosae-Callunetum vulgaris***, **AAA02 *Junco trifidi-Empetretum hermaphroditi***, **ABA01 *Cetrario-Festucetum supinae***, **ABB01 *Carici bigelowii-Nardetum strictae***, **ACA01 *Saxifrago oppositifoliae-Festucetum versicoloris***, **ADA03 *Violo sudeticae-Deschampsietum cespitosae***, **ADB01 *Bupleuro longifoliae-Calamagrostietum arundinaceae***, **TEA02 *Thesio alpini-Nardetum strictae***

Constant taxon

Constant taxon of classes: **AA *Loiseleurio-Vaccinietea***, **AB *Juncetea trifidi***, **AC *Elyno-Seslerietea***
Constant taxon of alliances: **AAA *Loiseleurio procumbentis-Vaccinion***, **ABA *Juncion trifidi***, **ABB *Nardo strictae-Caricion bigelowii***, **ACA *Agrostion alpinae***
Constant taxon of associations: **AAA01 *Avenello flexuosae-Callunetum vulgaris***, **ABA01 *Cetrario-Festucetum supinae***, **ABB01 *Carici bigelowii-Nardetum strictae***, **ACA01 *Saxifrago oppositifoliae-Festucetum versicoloris***

Dominant taxon

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Dominant taxon of associations: **ABA01 *Cetrario-Festucetum supinae***

Ecological specialization indices

Ecological specialization index for all vegetation types: **5.5**
Ecological specialization index for non-forest vegetation: **5.5**

Distribution and frequency

Floristic zone: **southern temperate, submeridional**
Floristic region: **Europe**
Continentality degree: **5**
Distribution range extension along the continentality gradient: **3**
Elevational belt in the Czech Republic: **subalpine belt**
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 17
taxon.data.freq_in_quad: 28

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.3 %**
Occurrence frequency in vegetation plots with a cover above 5%: **26.9 %**
Occurrence frequency in vegetation plots with a cover above 25%: **5.1 %**
Occurrence frequency in vegetation plots with a cover above 50%: **1.3 %**
Mean percentage cover in vegetation plots: **7.1 %**
Maximum percentage cover in vegetation plots: **63 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **10**
Number of narrow habitats in which the taxon has its optimum: **5**
Number of broad habitats in which the taxon occurs: **6**
Number of broad habitats in which the taxon has its optimum: **4**

Threats and protection

Red List 2017 (national categories): **C3 – vulnerable taxon**
Red List 2017 (IUCN categories): **VU – vulnerable**
Legal protection: **not protected by law**

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