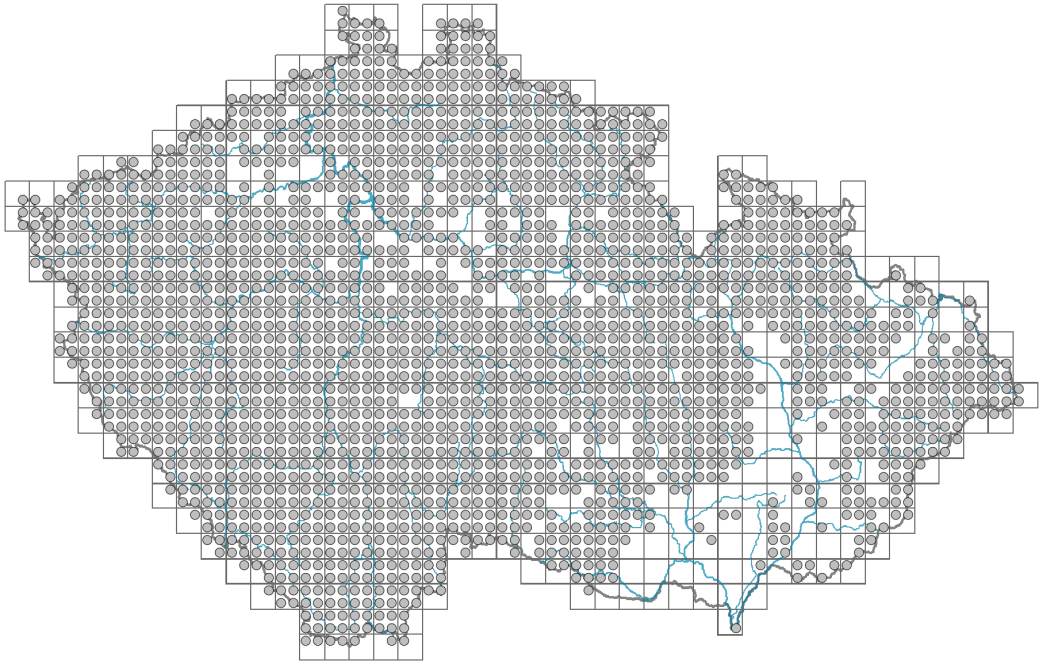
Avenella flexuosa

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]: **0.3–0.7**
Growth form: **clonal herb**
Life form: **hemicryptophyte**
Life strategy: **CS – competitor/stress-tolerator**
Life strategy (Pierce method based on leaf traits): **S/SR**
Life strategy (Pierce method, C-score): **1.5 %**
Life strategy (Pierce method, S-score): **70.1 %**
Life strategy (Pierce method, R-score): **28.4 %**

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: **mesomorphic**

Flower

Flowering period [month]: **June–August**

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Flowering phase: **7 Ligustrum vulgare-Stachys sylvatica (end of early summer)**
Flower colour: **green**
Perianth type: **reduced**
Perianth fusion: **reduced**
Inflorescence type: **panicula e spiculis composita**
Dicliny: **synoecious**
Generative reproduction type: **allogamy self-incompatibility**
Pollination syndrome: **wind-pollination**

Fruit, seed and dispersal



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

Belowground organs and clonality



Shoot metamorphosis: **stolon**
Storage organ: **stolon, tuft**
Type of clonal growth organ: **epigeogenous rhizome**
Freely dispersible organs of clonal growth: **absent**
Shoot life span (cyclicity): **dicyclic or polycyclic shoots prevailing**
Branching type of stem-derived organs of clonal growth: **sympodial**
Primary root: **absent**
Persistence of the clonal growth organ [year]: **4**
Number of clonal offspring: **5.4**
Lateral spreading distance by clonal growth [m]: **0.07**
Clonal index: **5**

Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **8**
Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **10**
Number of buds per shoot at a depth greater than 10 cm (root buds excluded): **0**
Size of the belowground bud bank (root buds excluded): **18**
Depth of the belowground bud bank (root buds exluded) [cm]: **3**
Number of buds per shoot at the soil surface (root buds included): **8**
Number of buds per shoot at a depth of 0–10 cm (root buds included): **10**
Number of buds per shoot at a depth greater than 10 cm (root buds included): **0**
Size of the belowground bud bank (root buds included): **18**
Depth of the belowground bud bank (root buds included) [cm]: **3**

Trophic mode

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

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Karyology

Chromosome number (2n): **28**
Ploidy level (x): **4**
2C genome size [Mbp]: **10631.18**
1Cx monoploid genome size [Mbp]: **2657.79**
Genomic GC content: **47.7 %**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **6x – transition between values 5 and 7; rarely at less than 20% of diffuse radiation incident in an open area (generalist)**
Temperature indicator value: **5x – moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas (generalist)**
Moisture indicator value: **5x – indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out (generalist)**
Reaction indicator value: **2 – transition between values 1 and 3**
Nutrient indicator value: **3 – occurring at nutrient-poor sites more frequently than at average sites and exceptionally at rich sites**
Salinity indicator value: **0 – not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.78**
Herb layer disturbance frequency indicator value: **-0.83**
Whole-community disturbance severity indicator value: **0.28**
Herb layer disturbance severity indicator value: **0.18**
Whole-community structure based disturbance indicator value: **0.17**
Herb layer structure-based disturbance indicator value: **0.21**

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

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

2 Alpine and subalpine grasslands

2A Alpine grasslands on siliceous bedrock: **4 – constant dominant**
2B Subalpine tall-forb and tall-grass vegetation: **2 – optimum**

4 Wetland and riverine herbaceous vegetation

4K Petasites fringes of montane brooks: **1 – rare occurrence**

5 Vegetation of springs and mires

5B Lowland to montane soft-water springs: **1 – rare occurrence**
5C Alpine and subalpine soft-water springs: **1 – rare occurrence**
5E Acidic moss-rich fens and peatland meadows: **1 – rare occurrence**

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5F Transitional mires: **1 – rare occurrence**
5G Raised bogs: **2 – optimum**
5H Wet peat soils and bog hollows: **1 – rare occurrence**

6 Meadows and mesic pastures

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

7 Acidophilous grasslands

7A Subalpine and montane acidophilous grasslands: **4 – constant dominant**
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**
8D Broad-leaved dry grasslands: **1 – rare occurrence**
8E Acidophilous dry grasslands: **1 – rare occurrence**
8F Thermophilous forest fringe vegetation: **1 – rare occurrence**

9 Sand grasslands and rock-outcrop vegetation

9B Open vegetation of acidic sands: **1 – rare occurrence**
9C Festuca grasslands on acidic sands: **1 – rare occurrence**
9E Acidophilous vegetation of spring therophytes and succulents: **1 – rare occurrence**
9F Basiphilous vegetation of spring therophytes and succulents: **1 – rare occurrence**

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **2 – optimum**
11D Subalpine acidophilous Pinus mugo scrub: **4 – constant dominant**
11H Subalpine deciduous scrub: **2 – optimum**
11I Willow carrs: **1 – rare occurrence**
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**
12B Alluvial forests: **1 – rare occurrence**
12C Oak-hornbeam forests: **1 – rare occurrence**
12D Ravine forests: **1 – rare occurrence**
12E Herb-rich beech forests: **2 – optimum**
12F Limestone beech forests: **2 – optimum**
12G Acidophilous beech forests: **2 – optimum**
12H Peri-Alpidic basiphilous thermophilous oak forests: **1 – rare occurrence**
12I Sub-continental thermophilous oak forests: **1 – rare occurrence**
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: **1 – rare occurrence**
12P Peatland pine forests: **2 – optimum**

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12Q Peatland birch forests: **2 – optimum**
12R Acidophilous spruce forests: **4 – constant dominant**
12S Basiphilous spruce forests: **2 – optimum**
12T Robinia pseudacacia plantations: **1 – rare occurrence**
12U Plantations of broad-leaved non-native trees: **1 – rare occurrence**
12V Spruce plantations: **4 – constant dominant**
12W Pine and larch plantations: **2 – optimum**

13 Anthropogenic vegetation

13F Herbaceous vegetation of forests clearings and Rubus scrub: **2 – optimum**

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: **AA *Loiseleurio-Vaccinietea*, AB *Juncetea trifidi*, KC *Roso pendulinae-Pinetea mugo*, LD *Quercetea robori-petraeae*, LF *Vaccinio-Piceetea*, XE *Epilobietea angustifolii***
Diagnostic taxon of alliances: **AAA *Loiseleurio procumbentis-Vaccinion*, ABA *Juncion trifidi*, ABB *Nardo strictae-Caricion bigelowii*, ADA *Calamagrostion villosae*, KCA *Pinion mugo*, LBE *Luzulo-Fagion sylvaticae*, LDA *Quercion roboris*, LFB *Dicrano-Pinion sylvestris*, LFC *Piceion abietis*, TEA *Nardion strictae*, XEA *Fragarion vescae***
Diagnostic taxon of associations: **AAA01 *Avenello flexuosae-Callunetum vulgaris*, AAA02 *Junco trifidi-Empetretum hermaphroditi*, ABA01 *Cetrario-Festucetum supinae*, ABB01 *Carici bigelowii-Nardetum strictae*, ADA01 *Sphagno compacti-Molinietum caeruleae*, ADA02 *Crepido conyzifoliae-Calamagrostietum villosae*, ADC02 *Pado borealis-Sorbetum aucupariae*, KBC06 *Piceo abietis-Sorbetum aucupariae*, LBE04 *Vaccinio myrtilli-Abietetum albae*, LDA01 *Luzulo luzuloidis-Quercetum petraeae*, LDA03 *Vaccinio vitis-idaeae-Quercetum roboris*, TEA01 *Festuco supinae-Nardetum strictae*, TEA02 *Thesio alpini-Nardetum strictae*, TEF03 *Festuco supinae-Vaccinietum myrtilli*, XEA02 *Digitali purpureae-Epilobietum angustifolii*, XEA04 *Junco effusi-Calamagrostietum villosae***

Constant taxon

Constant taxon of classes: **AA *Loiseleurio-Vaccinietea*, AB *Juncetea trifidi*, AC *Elyno-Seslerietea*, AD *Mulgedio-Aconitetea*, KC *Roso pendulinae-Pinetea mugo*, LD *Quercetea robori-petraeae*, LF *Vaccinio-Piceetea*, TE *Calluno-Ulicetea*, XE *Epilobietea angustifolii***
Constant taxon of alliances: **AAA *Loiseleurio procumbentis-Vaccinion*, ABA *Juncion trifidi*, ABB *Nardo strictae-Caricion bigelowii*, ACA *Agrostion alpinae*, ADA *Calamagrostion villosae*, ADB *Calamagrostion arundinaceae*, ADC *Salicion silesiacae*, ADE *Dryopterido filicis-maris-Athyrion distentifolii*, KCA *Pinion mugo*, LBE *Luzulo-Fagion sylvaticae*, LDA *Quercion roboris*, LFB *Dicrano-Pinion sylvestris*, LFC *Piceion abietis*, SAD *Androsacion alpinae*, TDB *Polygono bistortae-Trisetion flavescentis*, TEA *Nardion strictae*, TEB *Nardo strictae-Agrostion tenuis*, TED *Nardo strictae-Juncion squarrosi*, TEE *Euphorbio cyparissiae-Callunion vulgaris*, TEF *Genisto pilosae-Vaccinion*, XEA *Fragarion vescae***
Constant taxon of associations: **AAA01 *Avenello flexuosae-Callunetum vulgaris*, AAA02 *Junco trifidi-Empetretum hermaphroditi*, ABA01 *Cetrario-Festucetum***

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supinae*, ABB01 *Carici bigelowii-Nardetum strictae*, ACA01 *Saxifrago oppositifoliae-Festucetum versicoloris*, ACA02 *Saxifrago paniculatae-Agrostietum alpinae*, ADA01 *Sphagno compacti-Molinietum caeruleae*, ADA02 *Crepido conyzifoliae-Calamagrostietum villosae*, ADA03 *Violo sudeticae-Deschampsietum cespitosae*, ADB01 *Bupleuro longifoliae-Calamagrostietum arundinaceae*, ADC02 *Pado borealis-Sorbetum aucupariae*, ADD01 *Ranunculo platanifolii-Adenostyletum alliariae*, ADE02 *Adenostylo alliariae-Athyrietum distentifolii*, KBC06 *Piceo abietis-Sorbetum aucupariae*, KCA01 *Dryopterido dilatatae-Pinetum mugo*, LBE01 *Luzulo luzuloidis-Fagetum sylvaticae*, LBE02 *Calamagrostio villosae-Fagetum sylvaticae*, LBE03 *Luzulo-Abietetum albae*, LBE04 *Vaccinio myrtilli-Abietetum albae*, LDA01 *Luzulo luzuloidis-Quercetum petraeae*, LDA02 *Viscario vulgaris-Quercetum petraeae*, LDA03 *Vaccinio vitis-idaeae-Quercetum roboris*, LDA04 *Holco mollis-Quercetum roboris*, LFB01 *Cladino-Pinetum sylvestris*, LFB02 *Vaccinio myrtilli-Pinetum sylvestris*, LFB03 *Hieracio pallidi-Pinetum sylvestris*, LFB04 *Asplenio cuneifolii-Pinetum sylvestris*, LFC01 *Calamagrostio villosae-Piceetum abietis*, LFC02 *Athyrio distentifolii-Piceetum abietis*, LFC04 *Soldanello montanae-Piceetum abietis*, LFD04 *Vaccinio uliginosi-Piceetum abietis*, SAD01 *Cryptogrammetum crispae*, TDB02 *Melandrio rubri-Phleetum alpini*, TDB03 *Meo athamantici-Festucetum rubrae*, TEA01 *Festuco supinae-Nardetum strictae*, TEA02 *Thesio alpini-Nardetum strictae*, TEB01 *Sileno vulgaris-Nardetum strictae*, TED01 *Juncetum squarrosi*, TEE01 *Euphorbio cyparissiae-Callunetum vulgaris*, TEF01 *Vaccinio-Callunetum vulgaris*, TEF02 *Calamagrostio arundinaceae-Vaccinietum myrtilli*, TEF03 *Festuco supinae-Vaccinietum myrtilli*, XEA01 *Senecioni-Epilobietum angustifolii*, XEA02 *Digitali purpureae-Epilobietum angustifolii*, XEA03 *Rubo idaei-Calamagrostietum arundinaceae*, XEA04 *Junco effusi-Calamagrostietum villosae*, XEA06 *Pteridietum aquilini*, XEA07 *Gymnocarpio dryopteridis-Athyrietum filicis-feminae

Dominant taxon

Dominant taxon of associations: **ABA01 *Cetrario-Festucetum supinae*, ABB01 *Carici bigelowii-Nardetum strictae*, KBC06 *Piceo abietis-Sorbetum aucupariae*, KBE02 *Poo nemoralis-Robinietum pseudoacaciae*, KCA01 *Dryopterido dilatatae-Pinetum mugo*, LBE01 *Luzulo luzuloidis-Fagetum sylvaticae*, LDA01 *Luzulo luzuloidis-Quercetum petraeae*, LDA02 *Viscario vulgaris-Quercetum petraeae*, LDA03 *Vaccinio vitis-idaeae-Quercetum roboris*, LFB02 *Vaccinio myrtilli-Pinetum sylvestris*, LFB03 *Hieracio pallidi-Pinetum sylvestris*, LFB04 *Asplenio cuneifolii-Pinetum sylvestris*, LFC01 *Calamagrostio villosae-Piceetum abietis*, TDB03 *Meo athamantici-Festucetum rubrae*, TEA01 *Festuco supinae-Nardetum strictae*, TEA02 *Thesio alpini-Nardetum strictae*, TEB01 *Sileno vulgaris-Nardetum strictae*, TEF02 *Calamagrostio arundinaceae-Vaccinietum myrtilli*, XEA01 *Senecioni-Epilobietum angustifolii*, XEA02 *Digitali purpureae-Epilobietum angustifolii*, XEA03 *Rubo idaei-Calamagrostietum arundinaceae*, XEA04 *Junco effusi-Calamagrostietum villosae***

Ecological specialization indices

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

Ecological specialization index for non-forest vegetation: **3.6**

Ecological specialization index for forest vegetation: **4.4**

Colonization ability

Index of colonization success (ICS): **8**

Index of colonization potential (ICP): **6**

Optimum successional age [years]: **15**

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Distribution and frequency

Floristic zone: **arctic, boreal, northern temperate, southern temperate, submeridional, meridional, subtropical, tropical, austral or antarctic**
Floristic region: **circumpolar**
Distribution range extension along the continentality gradient: **5**
Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt, montane belt, subalpine belt**
Expansive taxon in the region: **Bohemian Moravian Mesophyticum, Bohemian Moravian Oreophyticum, Carpathian Mesophyticum, Carpathian Oreophyticum**
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 638
taxon.data.freq_in_quad: 2178

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **7.1 %**
Occurrence frequency in vegetation plots with a cover above 5%: **37 %**
Occurrence frequency in vegetation plots with a cover above 25%: **13.8 %**
Occurrence frequency in vegetation plots with a cover above 50%: **3.6 %**
Mean percentage cover in vegetation plots: **10.9 %**
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: **57**
Number of narrow habitats in which the taxon has its optimum: **23**
Number of broad habitats in which the taxon occurs: **11**
Number of broad habitats in which the taxon has its optimum: **8**

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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