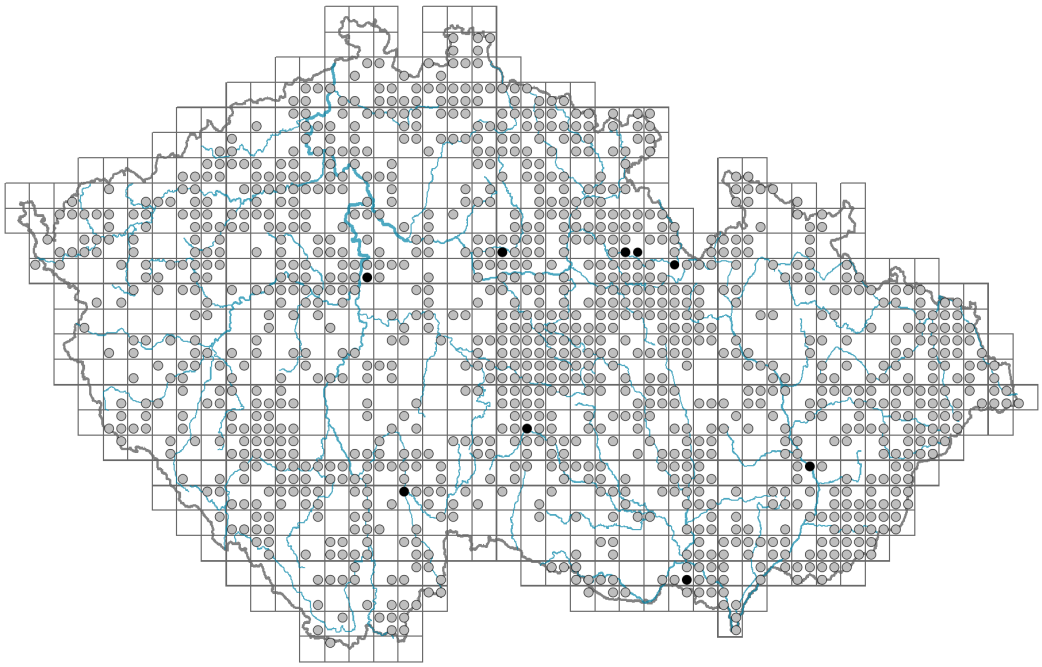
Agrostis gigantea

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]: **0.3–1.3**
Growth form: **clonal herb**
Life form: **hemicryptophyte**
Life strategy: **C – competitor**
Life strategy (Pierce method based on leaf traits): **SR/CSR**
Life strategy (Pierce method, C-score): **14.7 %**
Life strategy (Pierce method, S-score): **41.1 %**
Life strategy (Pierce method, R-score): **44.2 %**

Leaf

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

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: **facultative allogamy**
Pollination syndrome: **wind-pollination**



Fruit, seed and dispersal

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



Belowground organs and clonality

Shoot metamorphosis: **stolon**
Storage organ: **stolon**
Type of clonal growth organ: **hypogeogenous 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: **4.8**
Lateral spreading distance by clonal growth [m]: **0.09**
Clonal index: **5**





Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **5**
Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **15**
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): **20**
Depth of the belowground bud bank (root buds exluded) [cm]: **4**
Number of buds per shoot at the soil surface (root buds included): **5**
Number of buds per shoot at a depth of 0–10 cm (root buds included): **15**
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): **20**
Depth of the belowground bud bank (root buds included) [cm]: **4**



Trophic mode

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

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Karyology



Chromosome number (2n): **42 (28)**
Ploidy level (x): **6 (4)**
2C genome size [Mbp]: **8152.84**
1Cx monoploid genome size [Mbp]: **1358.81**
Genomic GC content: **46.4 %**

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: **6 – transition between values 5 and 7**
Reaction indicator value: **7 – indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions**
Nutrient indicator value: **6 – transition between values 5 and 7**
Salinity indicator value: **1 – salt tolerant, mostly on low-salt to salt-free soils, but occasionally on slightly salty soils**



Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-0.88**
Herb layer disturbance frequency indicator value: **-0.29**
Whole-community disturbance severity indicator value: **0.49**
Herb layer disturbance severity indicator value: **0.5**
Whole-community structure based disturbance indicator value: **0.51**
Herb layer structure-based disturbance indicator value: **0.56**



Habitat and sociology

Occurrence in habitats

4 Wetland and riverine herbaceous vegetation

4B Halophilous reed and sedge beds: **2 – optimum**
4E Reed vegetation of brooks: **1 – rare occurrence**
4I Vegetation of nitrophilous annual hygrophilous herbs: **2 – optimum**



6 Meadows and mesic pastures

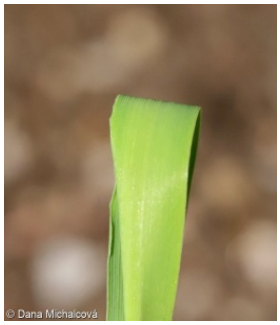
6C Pastures and park grasslands: **1 – rare occurrence**
6D Alluvial meadows of lowland rivers: **2 – optimum**
6E Wet Cirsium meadows: **1 – rare occurrence**
6G Vegetation of wet disturbed soils: **2 – optimum**

8 Dry grasslands

8D Broad-leaved dry grasslands: **1 – rare occurrence**

9 Sand grasslands and rock-outcrop vegetation

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9B Open vegetation of acidic sands: **1 – rare occurrence**
9C Festuca grasslands on acidic sands: **1 – rare occurrence**

10 Saline vegetation

10I Inland saline meadows: **2 – optimum**
10J Saline steppes: **3 – dominant**

11 Heathlands and scrub

11R Scrub and pioneer woodland of forests clearings: **1 – rare occurrence**

12 Forests

12B Alluvial forests: **1 – rare occurrence**
12K Acidophilous oak forests: **1 – rare occurrence**
12W Pine and larch plantations: **1 – rare occurrence**

13 Anthropogenic vegetation

13B Annual vegetation of arable land: **1 – rare occurrence**
13C Annual vegetation of trampled habitats: **1 – rare occurrence**
13D Perennial thermophilous ruderal vegetation: **2 – optimum**
13E Perennial nitrophilous herbaceous vegetation of mesic sites: **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: **2.2 – taxon occurring partly in the forest, but mainly in open vegetation**
Affinity to the forest environment in Mesophyticum and Oreophyticum: **2.2 – taxon occurring partly in the forest, but mainly in open vegetation**

Diagnostic taxon

Diagnostic taxon of alliances: **MCB *Meliloto dentati-Bolboschoenion maritimi***
Diagnostic taxon of associations: **MCB01 *Astero pannonici-Bolboschoenetum compacti*, TCB03 *Agrostio stoloniferae-Juncetum ranarii*, THE04 *Plantagini maritimae-Caricetum flaccae***

Constant taxon

Constant taxon of associations: **THE04 *Plantagini maritimae-Caricetum flaccae***

Dominant taxon

Dominant taxon of associations: **THE04 *Plantagini maritimae-Caricetum flaccae***

Ecological specialization indices

Ecological specialization index for all vegetation types: **3.5**
Ecological specialization index for non-forest vegetation: **3.7**
Ecological specialization index for forest vegetation: **4.7**

Colonization ability

Index of colonization success (ICS): **6**
Index of colonization potential (ICP): **8**
Optimum successional age [years]: **10**

Distribution and frequency

Floristic zone: **northern temperate, southern temperate, submeridional**
Floristic region: **Europe, Western Asia**
Distribution range extension along the continentality gradient: **7**
Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt, montane belt**

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Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 522
taxon.data.freq_in_quad: 1142

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.7 %**
Occurrence frequency in vegetation plots with a cover above 5%: **21.1 %**
Occurrence frequency in vegetation plots with a cover above 25%: **3.8 %**
Occurrence frequency in vegetation plots with a cover above 50%: **0.9 %**
Mean percentage cover in vegetation plots: **5.7 %**
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: **21**
Number of narrow habitats in which the taxon has its optimum: **7**
Number of broad habitats in which the taxon occurs: **8**
Number of broad habitats in which the taxon has its optimum: **4**

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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