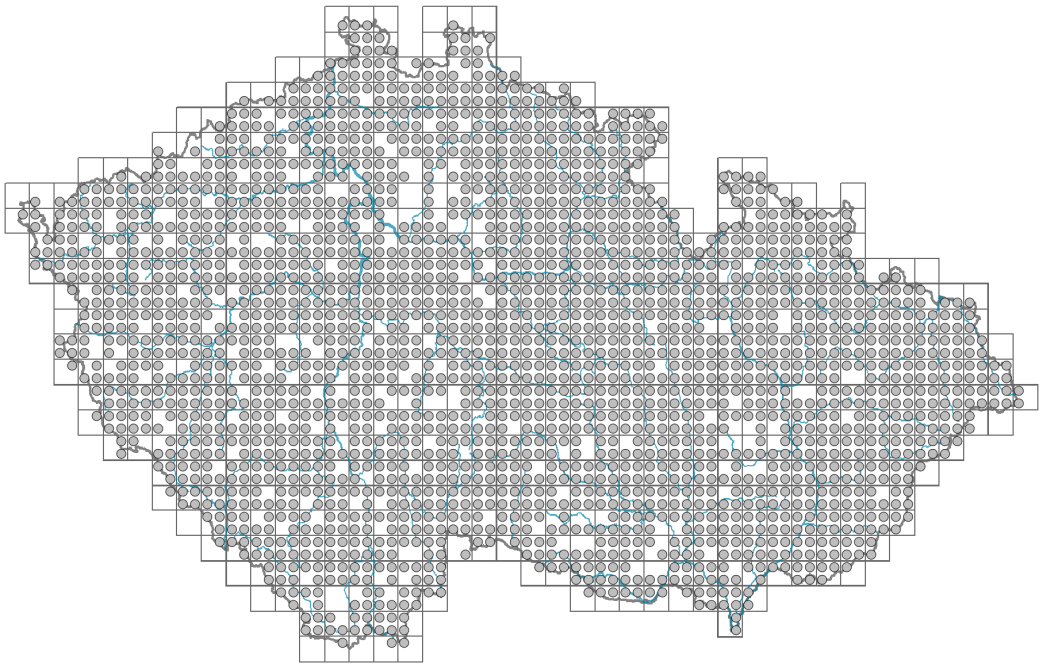
Poa annua

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]: **0.05–0.25**
Growth form: **annual herb**
Life form: **hemicryptophyte (therophyte)**
Life strategy: **R – ruderal**
Life strategy (Pierce method based on leaf traits): **SR**
Life strategy (Pierce method, C-score): **6.8 %**
Life strategy (Pierce method, S-score): **35 %**
Life strategy (Pierce method, R-score): **58.2 %**

Leaf

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

Flower

Flowering period [month]: **January–December**

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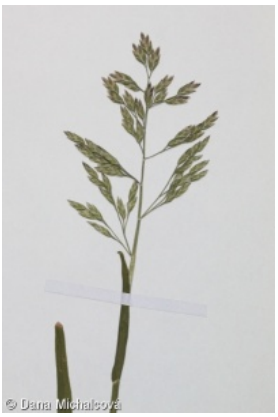
Flowering phase: **2 Acer platanoides-Anemone nemorosa (start of early spring)**
Flower colour: **green**
Perianth type: **reduced**
Perianth fusion: **reduced**
Inflorescence type: **panicula e spiculis composita**
Dicliny: **synoecious, gynomonoecious**
Generative reproduction type: **facultative autogamy**
Pollination syndrome: **wind-pollination, selfing, cleistogamy**

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 (a)**

Belowground organs and clonality



Shoot metamorphosis: **stolon**
Storage organ: **stolon, tuft**
Shoot life span (cyclicity): **monocyclic shoots prevailing**
Primary root: **absent**

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): **3**
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): **8**
Depth of the belowground bud bank (root buds exluded) [cm]: **3**
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): **3**
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): **8**
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**

Karyology

Chromosome number (2n): **28**
Ploidy level (x): **4**
2C genome size [Mbp]: **3785.77**
1Cx monoploid genome size [Mbp]: **946.44**
Genomic GC content: **46.4 %**

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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: **5x – moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas (generalist)**
Moisture indicator value: **6 – transition between values 5 and 7**
Reaction indicator value: **6x – transition between values 5 and 7 (generalist)**
Nutrient indicator value: **8 – pronounced nutrient indicator**
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: **-0.21**
Herb layer disturbance frequency indicator value: **0.01**
Whole-community disturbance severity indicator value: **0.77**
Herb layer disturbance severity indicator value: **0.78**
Whole-community structure based disturbance indicator value: **0.68**
Herb layer structure-based disturbance indicator value: **0.71**

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: **1 – rare occurrence**
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**

3 Aquatic vegetation

3C Macrophytic vegetation of oligotrophic lakes and pools: **1 – rare occurrence**

4 Wetland and riverine herbaceous vegetation

4D Riverine reed vegetation: **1 – rare occurrence**
4E Reed vegetation of brooks: **1 – rare occurrence**
4H Vegetation of low annual hygrophilous herbs: **1 – rare occurrence**
4I Vegetation of nitrophilous annual hygrophilous herbs: **2 – optimum**
4J River gravel banks: **1 – rare occurrence**
4K Petasites fringes of montane brooks: **1 – rare occurrence**
4L Nitrophilous herbaceous fringes of lowland rivers: **1 – rare occurrence**

5 Vegetation of springs and mires

5A Hard-water springs with tufa formation: **1 – rare occurrence**
5B Lowland to montane soft-water springs: **1 – rare occurrence**

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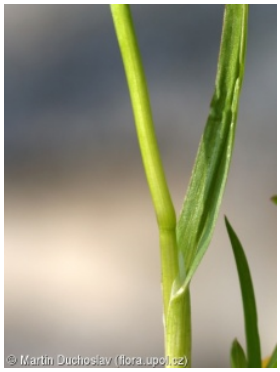

6 Meadows and mesic pastures

6C Pastures and park grasslands: **2 – optimum**

6G Vegetation of wet disturbed soils: **2 – optimum**

7 Acidophilous grasslands

7A Subalpine and montane acidophilous grasslands: **1 – rare occurrence**

7B Submontane Nardus grasslands: **1 – rare occurrence**

9 Sand grasslands and rock-outcrop vegetation

9B Open vegetation of 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**

10 Saline vegetation

10I Inland saline meadows: **1 – rare occurrence**

10J Saline steppes: **1 – rare occurrence**

11 Heathlands and scrub

11J Willow galleries of loamy and sandy river banks: **1 – rare occurrence**

11L Tall mesic and xeric shrub: **1 – rare occurrence**

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

12 Forests

12T Robinia pseudacacia plantations: **1 – rare occurrence**

12V Spruce plantations: **1 – rare occurrence**

12W Pine and larch plantations: **1 – rare occurrence**

13 Anthropogenic vegetation

13A Annual vegetation of ruderal habitats: **2 – optimum**

13B Annual vegetation of arable land: **2 – optimum**

13C Annual vegetation of trampled habitats: **4 – constant dominant**

13D Perennial thermophilous ruderal vegetation: **2 – optimum**

13E Perennial nitrophilous herbaceous vegetation of mesic sites: **2 – optimum**

13F Herbaceous vegetation of forests clearings and Rubus scrub: **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: **XA *Polygono arenastri-Poëtea annuae***

Diagnostic taxon of alliances: **XAA *Coronopodo-Polygonion arenastri*, XAB *Saginion procumbentis*, XBI *Malvion neglectae***

Diagnostic taxon of associations: **TDC04 *Prunello vulgaris-Ranunculetum repentis*, XAB01 *Sagino procumbentis-Bryetum argentei*, XAB04 *Poëtum annuae*, XAB05 *Lolio perennis-Matricarietum discoideae*, XBI05 *Matricario discoideae-Anthemidetum cotulae***

Constant taxon

Constant taxon of classes: **XA *Polygono arenastri-Poëtea annuae***

Constant taxon of alliances: **TDC *Cynosurion cristati*, XAA *Coronopodo-Polygonion arenastri*, XAB *Saginion procumbentis*, XBC *Scleranthion annui*, XBI *Malvion neglectae***

Constant taxon of associations: **MAC02 *Cerastio dubii-Ranunculetum sardoi*,**

MBB01 *Chenopodietum rubri*, **TDC03 *Lolietum perennis***, **TDC04 *Prunello vulgaris-Ranunculetum repentis***, **TDC05 *Alchemillo hybridae-Poëtum supinae***, **TFB01 *Airetum praecocis***, **XAA01 *Polygonetum arenastri***, **XAA03 *Poo annuae-Coronopodetum squamati***, **XAA04 *Eragrostio minoris-Polygonetum arenastri***, **XAB01 *Sagino procumbentis-Bryetum argentei***, **XAB02 *Herniarietum glabrae***, **XAB03 *Rumici acetosellae-Spergularietum rubrae***, **XAB04 *Poëtum annuae***, **XAB05 *Lolio perennis-Matricarietum discoideae***, **XBC01 *Aphano arvensis-Matricarietum chamomillae***, **XBC02 *Spergulo arvensis-Scleranthetum annui***, **XBC03 *Erophilo vernae-Arabidopsietum thalianae***, **XBG02 *Chenopodietum urbici***, **XBG06 *Atriplicetum roseae***, **XBG10 *Chamaeplietum officinalis***, **XBI02 *Malvetum pusillae***, **XBI04 *Malvo neglectae-Chenopodietum vulvariae***, **XBI05 *Matricario discoideae-Anthemidetum cotulae***

Dominant taxon

Dominant taxon of associations: **TDC04 *Prunello vulgaris-Ranunculetum repentis***, **XAB04 *Poëtum annuae***

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.2**

Ecological specialization index for non-forest vegetation: **4.3**

Ecological specialization index for forest vegetation: **3.7**

Colonization ability

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

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

Optimum successional age [years]: **4**

Distribution and frequency

Floristic zone: **arctic, boreal, northern temperate, southern temperate, submeridional, meridional, subtropical, tropical, austral or antarctic**

Floristic region: **Europe, circumpolar**

Distribution range extension along the continentality gradient: **8**

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 656

taxon.data.freq_in_quad: 2243

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **5.8 %**

Occurrence frequency in vegetation plots with a cover above 5%: **22.4 %**

Occurrence frequency in vegetation plots with a cover above 25%: **10.5 %**

Occurrence frequency in vegetation plots with a cover above 50%: **4.6 %**

Mean percentage cover in vegetation plots: **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: **36**

Number of narrow habitats in which the taxon has its optimum: **8**

Number of broad habitats in which the taxon occurs: **12**

Number of broad habitats in which the taxon has its optimum: **3**

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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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