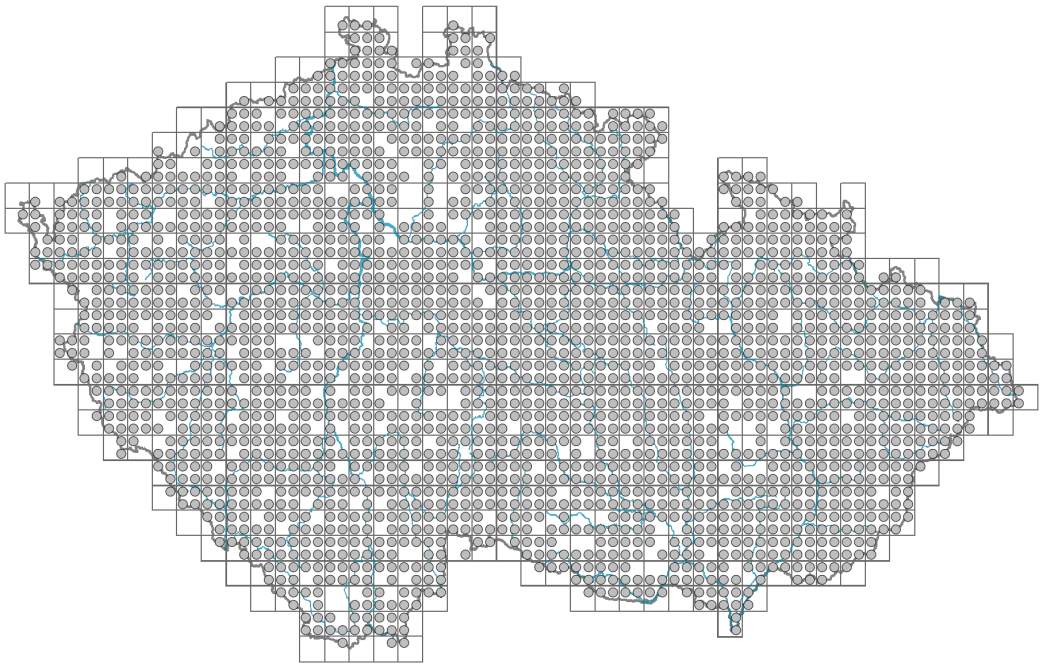
Poa annua

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

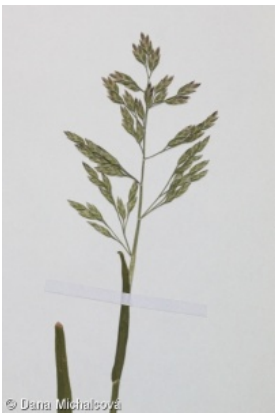
Flowering period [month]: **January–December**

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 %**

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

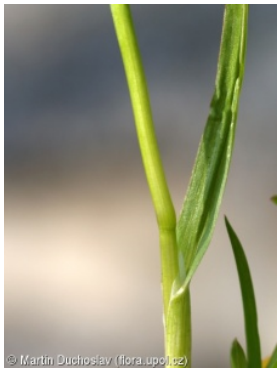
3C Macrophytic vegetation of oligotrophic lakes and pools: **1 – rare occurrence**

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**



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**

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**