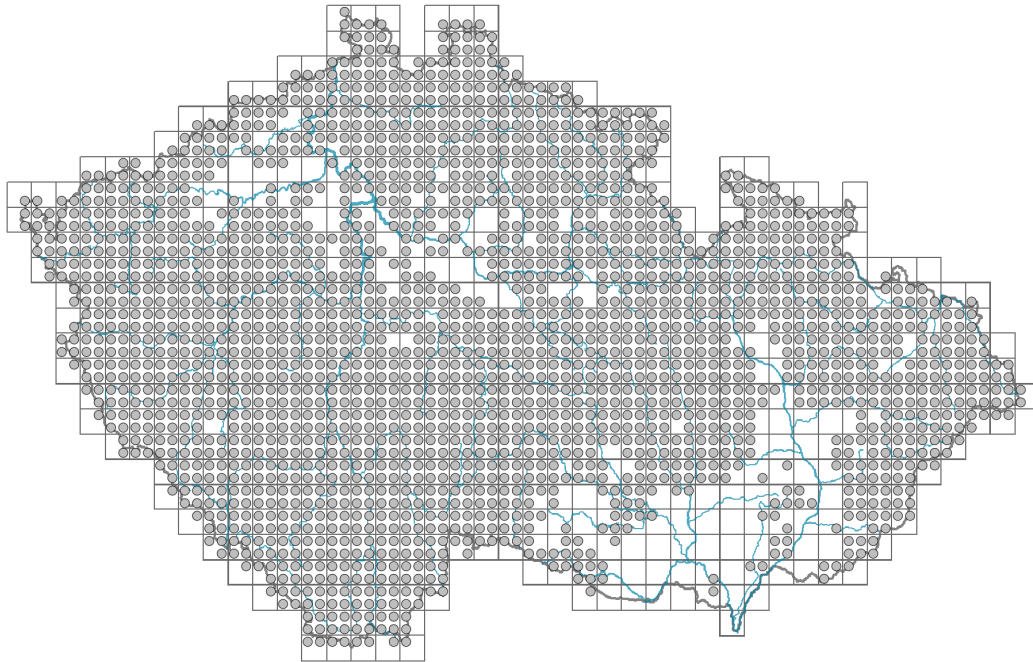


Vaccinium myrtillus

Distribution

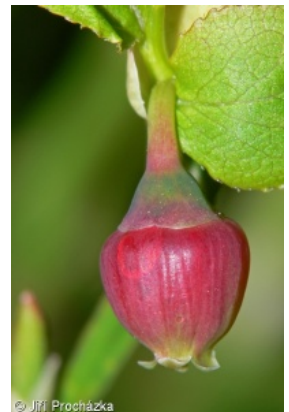


Map info

● 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]: **0.15-0.6**

Growth form: **dwarf shrub**

Life form: **chamaephyte**

Life strategy: **CS - competitor/stress-tolerator**

Life strategy (Pierce method based on leaf traits): **S/SR**

Life strategy (Pierce method, C-score): **3.5 %**

Life strategy (Pierce method, S-score): **63.7 %**

Life strategy (Pierce method, R-score): **32.9 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **present**

Leaf life span: **summer green**

Leaf deciduousness in woody plants: **winter deciduous**

Leaf anatomy: **mesomorphic**

Functional leaf type in woody plants: **broad deciduous or semi-deciduous**

Flower

Flowering period [month]: **April-June**

Flowering phase: **4 Fagus sylvatica-Galeobdolon (start of mid-spring)**

Flower colour: **white, green-white**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **fused**

Shape of the sympetalous corolla or syntepalous perianth: **urceolate**

Calyx fusion: **synsepalous**

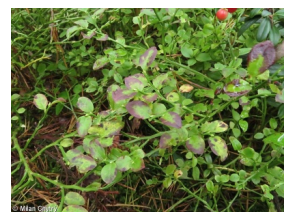
Inflorescence type: **flores solitarii**

Dicliny: **synoecious**

Generative reproduction type: **mixed mating**

Pollination syndrome: **insect-pollination, selfing**

Pollinator spectrum: **bumblebees (honeybee, solitary bees, other Hymenoptera, hoverflies, flies s. l., other Diptera, butterflies, other pollinators, unknown)**



Fruit, seed and dispersal

Fruit type: **fleshy fruit - berry**

Fruit colour: **blue, black**

Reproduction type: **mostly vegetatively, rarely by seed/spores**

Dispersal unit (diaspore): **seed, fruit, infrutescence or its part**

Dispersal strategy: **Cornus (mainly autochory and endozoochory)**

Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality

Shoot metamorphosis: **stolon**

Type of clonal growth organ: **hypogeogenous rhizome**

Freely dispersible organs of clonal growth: **absent**

Shoot life span (cyclicality): **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: **0.6**

Lateral spreading distance by clonal growth [m]: **0.2**

Clonal index: **4**

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): **5**

Size of the belowground bud bank (root buds excluded): **25**

Depth of the belowground bud bank (root buds excluded) [cm]: **6**

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): **5**

Size of the belowground bud bank (root buds included): **25**



Depth of the belowground bud bank (root buds included) [cm]: **6**

Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

Karyology

Chromosome number (2n): **24**

Ploidy level (x): **2**

2C genome size [Mbp]: **1052.66**

1Cx monoploid genome size [Mbp]: **526.33**

Genomic GC content: **41.3 %**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **5x - semi-shade plant, only exceptionally occurring in full light, but usually at more than 10% of the 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: **-1.84**

Herb layer disturbance frequency indicator value: **-1.02**

Whole-community disturbance severity indicator value: **0.26**

Herb layer disturbance severity indicator value: **0.15**

Whole-community structure based disturbance indicator value: **0.13**

Herb layer structure-based disturbance indicator value: **0.17**

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**

2 Alpine and subalpine grasslands

- 2A Alpine grasslands on siliceous bedrock: **2 - optimum**
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**
5F Transitional mires: **1 - rare occurrence**
5G Raised bogs: **3 - dominant**
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: **1 - rare occurrence**
6C Pastures and park grasslands: **1 - rare occurrence**
6E Wet Cirsium meadows: **1 - rare occurrence**
6F Intermittently wet Molinia meadows: **1 - rare occurrence**
7 Acidophilous grasslands
7A Subalpine and montane acidophilous grasslands: **2 - optimum**
7B Submontane Nardus grasslands: **2 - optimum**
8 Dry grasslands
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**
11 Heathlands and scrub
11A Dry lowland to subalpine heathlands: **3 - dominant**
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: **2 - optimum**
12 Forests
12A Alder carrs: **2 - optimum**
12B Alluvial forests: **1 - rare occurrence**
12C Oak-hornbeam forests: **2 - optimum**
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**
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: **4 - constant dominant**
 12Q Peatland birch forests: **2 - optimum**
 12R Acidophilous spruce forests: **4 - constant dominant**
 12S Basiphilous spruce forests: **2 - optimum**
 12V Spruce plantations: **4 - constant dominant**
 12W Pine and larch plantations: **3 - dominant**

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: [KC *Roso pendulinae-Pinetea mugo*](#), [LD *Quercetea robori-petraeae*](#), [LF *Vaccinio-Piceetea*](#), [RC *Oxycocco-Sphagnetea*](#)

Diagnostic taxon of alliances: [KCA *Pinion mugo*](#), [LBE *Luzulo-Fagion sylvaticae*](#), [LDA *Quercion roboris*](#), [LFB *Dicrano-Pinion sylvestris*](#), [LFC *Piceion abietis*](#), [LFD *Vaccinio uliginosi-Pinion sylvestris*](#), [RCA *Sphagnion magellanici*](#), [TEF *Genisto pilosae-Vaccinion*](#)

Diagnostic taxon of associations: [AAA02 *Junco trifidi-Empetretum hermaphroditi*](#), [ADA02 *Crepido conyzifoliae-Calamagrostietum villosae*](#), [KBC06 *Piceo abietis-Sorbetum aucupariae*](#), [KCA01 *Dryopterido dilatatae-Pinetum mugo*](#), [LBA02 *Piceo abietis-Alnetum glutinosae*](#), [LBE03 *Luzulo-Abietetum albae*](#), [LBE04 *Vaccinio myrtilli-Abietetum albae*](#), [LDA03 *Vaccinio vitis-idaeae-Quercetum roboris*](#), [LFB01 *Cladino-Pinetum sylvestris*](#), [LFB02 *Vaccinio myrtilli-Pinetum sylvestris*](#), [LFB04 *Asplenio cuneifolii-Pinetum sylvestris*](#), [LFC01 *Calamagrostio villosae-Piceetum abietis*](#), [LFC02 *Athyrio distentifolii-Piceetum abietis*](#), [LFC04 *Soldanello montanae-Piceetum abietis*](#), [LFD02 *Vaccinio uliginosi-Pinetum sylvestris*](#), [LFD03 *Vaccinio-Pinetum montanae*](#), [LFD04 *Vaccinio uliginosi-Piceetum abietis*](#), [RCA03 *Vaccinio uliginosi-Pinetum mugo*](#), [TEA01 *Festuco supinae-Nardetum strictae*](#), [TEF02 *Calamagrostio arundinaceae-Vaccinietum myrtilli*](#), [TEF03 *Festuco supinae-Vaccinietum myrtilli*](#), [XEA06 *Pteridietum aquilini*](#)

Constant taxon

Constant taxon of classes: [AA *Loiseleurio-Vaccinietea*](#), [AD *Mulgedio-Aconitetea*](#), [KC *Roso pendulinae-Pinetea mugo*](#), [LD *Quercetea robori-petraeae*](#), [LF *Vaccinio-Piceetea*](#), [RC *Oxycocco-Sphagnetea*](#), [TE *Calluno-Ulicetea*](#), [XE *Epilobietea angustifolii*](#)

Constant taxon of alliances: [AAA *Loiseleurio procumbentis-Vaccinion*](#), [ABA *Juncion trifidi*](#), [ADA *Calamagrostion villosae*](#), [ADB *Calamagrostion arundinaceae*](#), [ADC *Salicion silesiacae*](#), [ADE *Dryopterido filicis-maris-Athyron distentifolii*](#), [KCA *Pinion mugo*](#), [LBE *Luzulo-Fagion sylvaticae*](#), [LDA *Quercion roboris*](#), [LFA *Festuco-Pinion sylvestris*](#), [LFB *Dicrano-Pinion sylvestris*](#), [LFC *Piceion abietis*](#), [LFD *Vaccinio uliginosi-Pinion sylvestris*](#), [RCA *Sphagnion magellanici*](#), [TEA *Nardion strictae*](#), [TEF *Genisto pilosae-Vaccinion*](#), [XEA *Fragarion vescae*](#)

Constant taxon of associations: [AAA01 *Avenello flexuosae-Callunetum vulgaris*](#), [AAA02 *Junco trifidi-Empetretum hermaphroditi*](#), [ABA01 *Cetrario-Festucetum supinae*](#), [ADA01 *Sphagno compacti-Molinietum caeruleae*](#), [ADA02 *Crepido conyzifoliae-Calamagrostietum villosae*](#), [ADB01 *Bupleuro longifoliae-*](#)

[Calamagrostietum arundinaceae](#), [ADC01 Salici silesiacaе-Betuletum carpaticaе](#), [ADE02 Adenostylo alliariae-Athyrietum distentifolii](#), [KBC06 Piceo abietis-Sorbetum aucupariae](#), [KCA01 Dryopterido dilatatae-Pinetum mugo](#), [KCA02 Adenostylo alliariae-Pinetum mugo](#), [LAA01 Thelypterido palustris-Alnetum glutinosae](#), [LBA02 Piceo abietis-Alnetum glutinosae](#), [LBC04 Athyrio distentifolii-Fagetum sylvaticaе](#), [LBE01 Luzulo luzuloidis-Fagetum sylvaticaе](#), [LBE02 Calamagrostio villosae-Fagetum sylvaticaе](#), [LBE03 Luzulo-Abietetum albae](#), [LBE04 Vaccinio myrtilli-Abietetum albae](#), [LDA01 Luzulo luzuloidis-Quercetum petraeae](#), [LDA03 Vaccinio vitis-idaeae-Quercetum roboris](#), [LDA04 Holco mollis-Quercetum roboris](#), [LFA01 Festuco-Pinetum sylvestris](#), [LFB01 Cladino-Pinetum sylvestris](#), [LFB02 Vaccinio myrtilli-Pinetum sylvestris](#), [LFB04 Asplenio cuneifolii-Pinetum sylvestris](#), [LFC01 Calamagrostio villosae-Piceetum abietis](#), [LFC02 Athyrio distentifolii-Piceetum abietis](#), [LFC03 Equiseto sylvatici-Piceetum abietis](#), [LFC04 Soldanello montanae-Piceetum abietis](#), [LFD01 Vaccinio uliginosi-Betuletum pubescentis](#), [LFD02 Vaccinio uliginosi-Pinetum sylvestris](#), [LFD03 Vaccinio-Pinetum montanae](#), [LFD04 Vaccinio uliginosi-Piceetum abietis](#), [RCA02 Andromedo polifoliae-Sphagnetum magellanici](#), [RCA03 Vaccinio uliginosi-Pinetum mugo](#), [RCA04 Sphagno-Pinetum sylvestris](#), [RCA05 Ledo palustris-Pinetum uncinatae](#), [RCC01 Trichophoro cespitosi-Sphagnetum compacti](#), [TEA01 Festuco supinae-Nardetum strictae](#), [TEA02 Thesio alpini-Nardetum strictae](#), [TEF01 Vaccinio-Callunetum vulgaris](#), [TEF02 Calamagrostio arundinaceae-Vaccinietum myrtilli](#), [TEF03 Festuco supinae-Vaccinietum myrtilli](#), [XEA02 Digitali purpureae-Epilobietum angustifolii](#), [XEA04 Junco effusi-Calamagrostietum villosae](#), [XEA06 Pteridietum aquilini](#), [XEA07 Gymnocarpio dryopteridis-Athyrietum filicis-feminae](#)

Dominant taxon

Dominant taxon of associations: [KBC06 Piceo abietis-Sorbetum aucupariae](#), [KCA01 Dryopterido dilatatae-Pinetum mugo](#), [LBE01 Luzulo luzuloidis-Fagetum sylvaticaе](#), [LBE02 Calamagrostio villosae-Fagetum sylvaticaе](#), [LBE04 Vaccinio myrtilli-Abietetum albae](#), [LDA01 Luzulo luzuloidis-Quercetum petraeae](#), [LDA03 Vaccinio vitis-idaeae-Quercetum roboris](#), [LFB02 Vaccinio myrtilli-Pinetum sylvestris](#), [LFB04 Asplenio cuneifolii-Pinetum sylvestris](#), [LFC01 Calamagrostio villosae-Piceetum abietis](#), [LFC02 Athyrio distentifolii-Piceetum abietis](#), [LFC04 Soldanello montanae-Piceetum abietis](#), [LFD02 Vaccinio uliginosi-Pinetum sylvestris](#), [LFD03 Vaccinio-Pinetum montanae](#), [LFD04 Vaccinio uliginosi-Piceetum abietis](#), [RCA03 Vaccinio uliginosi-Pinetum mugo](#), [RCA04 Sphagno-Pinetum sylvestris](#), [TEF02 Calamagrostio arundinaceae-Vaccinietum myrtilli](#), [TEF03 Festuco supinae-Vaccinietum myrtilli](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **4**

Ecological specialization index for non-forest vegetation: **3.8**

Ecological specialization index for forest vegetation: **4.5**

Colonization ability

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

Index of colonization potential (ICP): **5**

Optimum successional age [years]: **24**

Distribution and frequency

Floristic zone: **boreal, northern temperate, southern temperate, submeridional**

Floristic region: **Europe, Siberia**

Distribution range extension along the continentality gradient: **6**

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: **629**

taxon.data.freq_in_quad: **2168**

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%: **44.4 %**

Occurrence frequency in vegetation plots with a cover above 25%: **23.9 %**

Occurrence frequency in vegetation plots with a cover above 50%: **9.9 %**

Mean percentage cover in vegetation plots: **16 %**

Maximum percentage cover in vegetation plots: **99 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **48**

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: **6**

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**