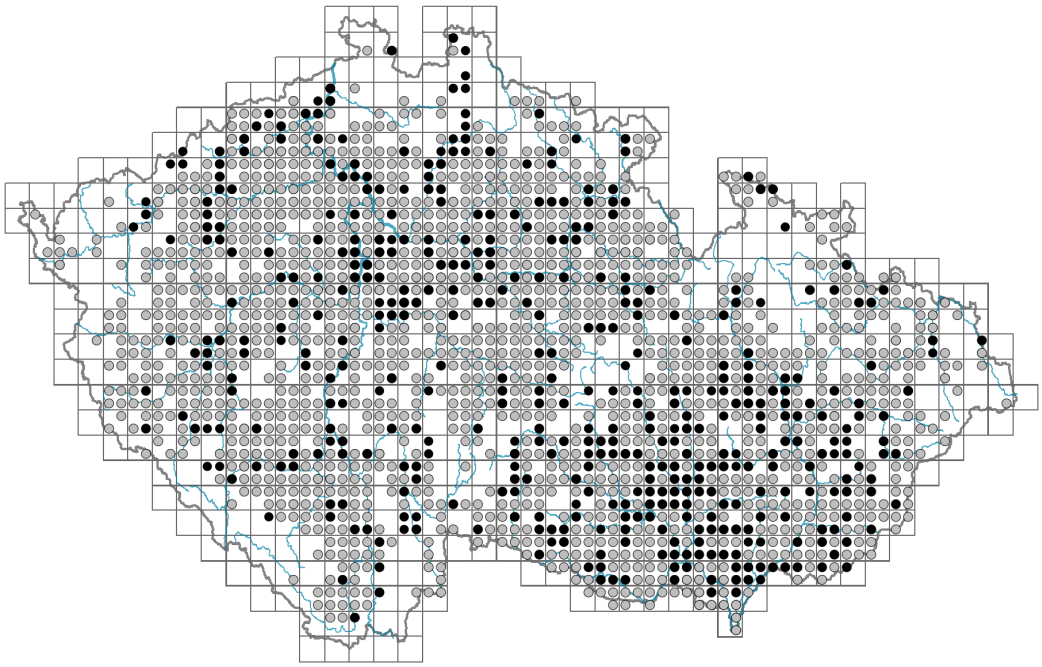
Ballota nigra

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]: **0.2–0.8**
Growth form: **polycarpic perennial non-clonal herb**
Life form: **hemicryptophyte**
Life strategy: **C – competitor**
Life strategy (Pierce method based on leaf traits): **CSR**
Life strategy (Pierce method, C-score): **26.1 %**
Life strategy (Pierce method, S-score): **32.6 %**
Life strategy (Pierce method, R-score): **41.3 %**

Leaf

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

Flower

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

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Flowering phase: **8 Clematis vitalba-Galium sylvaticum (mid-summer)**
Flower colour: **white, pink, pink-violet, red-violet, violet**
Flower symmetry: **zygomorphic**
Perianth type: **calyx and corolla**
Perianth fusion: **fused**
Shape of the sympetalous corolla or syntepalous perianth: **bilabiate**
Calyx fusion: **synsepalous**
Inflorescence type: **pseudospica e verticillastris composita**
Dicliny: **gynomonoecious, gynodioecious**
Generative reproduction type: **mixed mating**
Pollination syndrome: **insect-pollination, selfing**
Pollinator spectrum: **honeybee, bumblebees (hoverflies, meat flies s. l., butterflies)**

Fruit, seed and dispersal

Fruit type: **dry fruit – cluster of four one-seeded nutlets**
Fruit colour: **brown**
Reproduction type: **only by seed/spores**
Dispersal unit (diaspore): **fruit, infrutescence or its part**
Dispersal strategy: **Allium (mainly autochory)**
Myrmecochory: **probably non-myrmecochorous**

Belowground organs and clonality

Shoot metamorphosis: **pleiocorm**
Root metamorphosis: **primary storage root**
Storage organ: **pleiocorm, primary storage root**
Shoot life span (cyclicity): **monocyclic shoots prevailing**
Branching type of stem-derived organs of clonal growth: **sympodial**
Primary root: **present**

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): **5**
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): **10**
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): **5**
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): **10**
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): **20, 22**
Ploidy level (x): **2**
2C genome size [Mbp]: **2146.65**
1Cx monoploid genome size [Mbp]: **1073.33**

Taxon origin

Origin in the Czech Republic: **archaeophyte**
Invasion status: **naturalized**
Geographic origin: **Europe, Mediterranean**

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: **6 – transition between values 5 and 7**
Moisture indicator value: **5 – indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out**
Reaction indicator value: **7x – indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions (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: **-0.75**
Herb layer disturbance frequency indicator value: **-0.71**
Whole-community disturbance severity indicator value: **0.61**
Herb layer disturbance severity indicator value: **0.61**
Whole-community structure based disturbance indicator value: **0.41**
Herb layer structure-based disturbance indicator value: **0.42**

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**

4 Wetland and riverine herbaceous vegetation

4I Vegetation of nitrophilous annual hygrophilous herbs: **1 – rare occurrence**
4L Nitrophilous herbaceous fringes of lowland rivers: **1 – rare occurrence**

6 Meadows and mesic pastures

6G Vegetation of wet disturbed soils: **1 – rare occurrence**

11 Heathlands and scrub

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11L Tall mesic and xeric shrub: **2 – optimum**
11N Low xeric scrub: **1 – rare occurrence**
11R Scrub and pioneer woodland of forests clearings: **2 – optimum**

12 Forests

12B Alluvial forests: **1 – rare occurrence**
12C Oak-hornbeam forests: **1 – rare occurrence**
12D Ravine forests: **1 – rare occurrence**
12H Peri-Alpidic basiphilous thermophilous oak forests: **1 – rare occurrence**
12J Acidophilous thermophilous oak forests: **1 – rare occurrence**
12T Robinia pseudacacia plantations: **2 – optimum**
12U Plantations of broad-leaved non-native trees: **2 – optimum**
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: **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: **2 – optimum**
13F Herbaceous vegetation of forests clearings and Rubus scrub: **1 – rare occurrence**

Diagnostic taxon

Diagnostic taxon of classes: **XC *Artemisietea vulgaris***
Diagnostic taxon of alliances: **KBD *Aegopodio podagrariae-Sambucion nigrae***, **KBE *Chelidonio majoris-Robinion pseudoacaciae***, **XCA *Onopordion acanthii***, **XCE *Arction lappae***
Diagnostic taxon of associations: **KBD01 *Sambucetum nigrae***, **KBD02 *Lycietum barbari***, **XBG12 *Ivaetum xanthiifoliae***, **XCA03 *Potentillo argenteae-Artemisietum absinthii***, **XCB11 *Asclepiadetum syriacae***, **XCE01 *Urtico urentis-Chenopodietum boni-henrici***, **XCE03 *Hyoscyamo nigri-Conietum maculati***, **XDD03 *Anthriscetum trichospermae***

Constant taxon

Constant taxon of alliances: **KBD *Aegopodio podagrariae-Sambucion nigrae***, **XCA *Onopordion acanthii***, **XCE *Arction lappae***
Constant taxon of associations: **KBD01 *Sambucetum nigrae***, **KBD02 *Lycietum barbari***, **XBG02 *Chenopodietum urbici***, **XBG12 *Ivaetum xanthiifoliae***, **XCA03 *Potentillo argenteae-Artemisietum absinthii***, **XCB11 *Asclepiadetum syriacae***, **XCE01 *Urtico urentis-Chenopodietum boni-henrici***, **XCE03 *Hyoscyamo nigri-Conietum maculati***, **XDD03 *Anthriscetum trichospermae***

Dominant taxon

Dominant taxon of associations: **XBH02 *Hordeo murini-Brometum sterilis***, **XCE01 *Urtico urentis-Chenopodietum boni-henrici***, **XCE02 *Arctietum lappae***, **XDD02 *Torilidetum japonicae***

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: **4.8**

Colonization ability

Index of colonization success (ICS): **6**

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Index of colonization potential (ICP): **6**
Optimum successional age [years]: **19**

Distribution and frequency

Floristic zone: **northern temperate, southern temperate, submeridional, meridional**
Floristic region: **Europe, Western Asia**
Distribution range extension along the continentality gradient: **5**
Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt**
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 563
taxon.data.freq_in_quad: 1720

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **2.5 %**
Occurrence frequency in vegetation plots with a cover above 5%: **22.3 %**
Occurrence frequency in vegetation plots with a cover above 25%: **8.2 %**
Occurrence frequency in vegetation plots with a cover above 50%: **2.8 %**
Mean percentage cover in vegetation plots: **7.5 %**
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: **25**
Number of narrow habitats in which the taxon has its optimum: **7**
Number of broad habitats in which the taxon occurs: **6**
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**

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