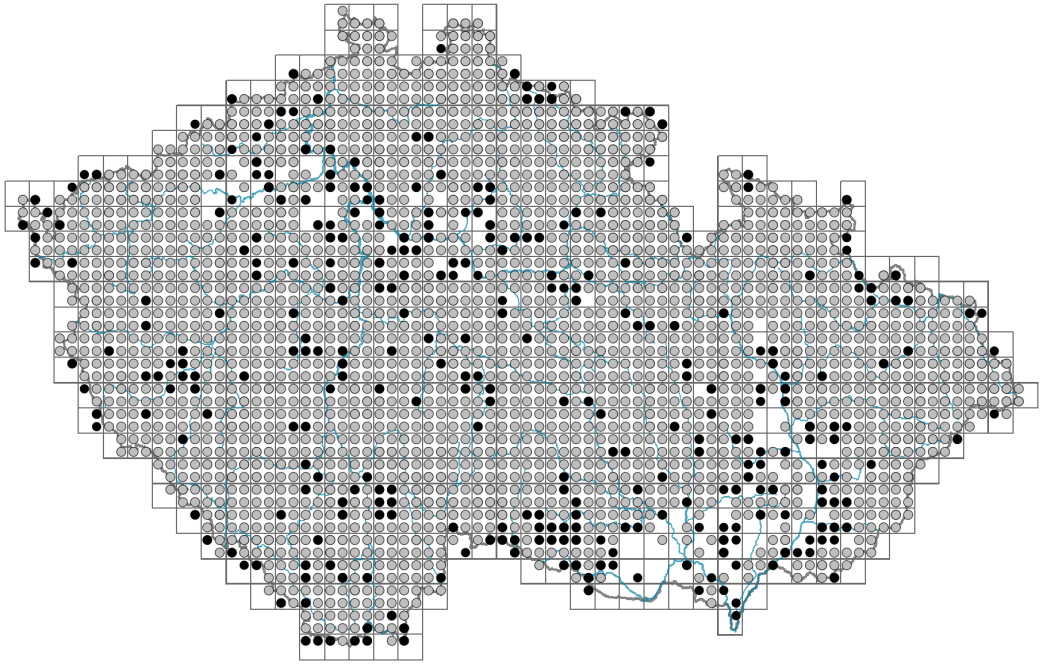
Sorbus aucuparia

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]: **1–15**
Growth form: **tree (shrub)**
Life form: **macrophanerophyte, nanophanerophyte**
Life strategy: **C – competitor**
Life strategy (Pierce method based on leaf traits): **S/CSR**
Life strategy (Pierce method, C-score): **24.5 %**
Life strategy (Pierce method, S-score): **54.3 %**
Life strategy (Pierce method, R-score): **21.2 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **compound – imparipinnate**
Stipules: **present**
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**

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Flower



Flowering period [month]: **May–July**
Flowering phase: **5 Sorbus aucuparia-Galium odoratum (end of mid-spring)**
Flower colour: **white**
Flower symmetry: **actinomorphic**
Perianth type: **calyx and corolla**
Perianth fusion: **free**
Calyx fusion: **hypanthium**
Inflorescence type: **corymbothyrsus**
Dicliny: **synoecious**
Generative reproduction type: **allogamy self-incompatibility**
Pollination syndrome: **insect-pollination**
Pollinator spectrum: **flies s. l., meat flies s. l., other Diptera, nitidulids, thrips (honeybee, bumblebees, other Hymenoptera, hoverflies, beetles, other pollinators)**



Fruit, seed and dispersal



Fruit type: **fleshy fruit – pome**
Fruit colour: **orange, red**
Reproduction type: **only 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



Root metamorphosis: **root shoot**
Position of root buds: **lateral roots**
Role of root buds in life-history of a plant: **additive**

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): **0**
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): **5**
Depth of the belowground bud bank (root buds exluded) [cm]: **1**
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): **15**
Size of the belowground bud bank (root buds included): **35**
Depth of the belowground bud bank (root buds included) [cm]: **9**

Trophic mode

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

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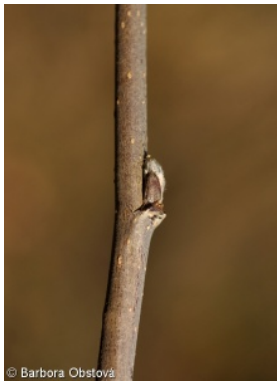


Karyology

Chromosome number (2n): **34**
Ploidy level (x): **2**
2C genome size [Mbp]: **1212.56**
1Cx monoploid genome size [Mbp]: **606.28**
Genomic GC content: **39.9 %**

Taxon origin

Origin in the Czech Republic: **native**



Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **6x – transition between values 5 and 7; rarely at less than 20% of diffuse radiation incident in an open area (generalist)**
Temperature indicator value: **5 – moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas**
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: **4 – transition between values 3 and 5**
Nutrient indicator value: **4x – transition between values 3 and 5 (generalist)**
Salinity indicator value: **0 – not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.91**
Herb layer disturbance frequency indicator value: **-0.83**
Whole-community disturbance severity indicator value: **0.26**
Herb layer disturbance severity indicator value: **0.1**
Whole-community structure based disturbance indicator value: **0.1**
Herb layer structure-based disturbance indicator value: **0.19**

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1B Siliceous cliffs and block fields: **1 – rare occurrence**

2 Alpine and subalpine grasslands

2B Subalpine tall-forb and tall-grass vegetation: **1 – rare occurrence**

7 Acidophilous grasslands

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

8 Dry grasslands

8F Thermophilous forest fringe vegetation: **1 – rare occurrence**

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **1 – rare occurrence**
11D Subalpine acidophilous Pinus mugo scrub: **2 – optimum**
11H Subalpine deciduous scrub: **3 – dominant**
11I Willow carrs: **1 – rare occurrence**

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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: **3 – dominant**

12 Forests

12A Alder carrs: **2 – optimum**
12B Alluvial forests: **2 – optimum**
12C Oak-hornbeam forests: **2 – optimum**
12D Ravine forests: **2 – optimum**
12E Herb-rich beech forests: **2 – optimum**
12F Limestone beech forests: **1 – rare occurrence**
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**
12J Acidophilous thermophilous oak forests: **1 – rare occurrence**
12K Acidophilous oak forests: **2 – optimum**
12L Boreo-continental pine forests: **2 – optimum**
12O Peri-Alpidic pine forests: **1 – rare occurrence**
12Q Peatland birch forests: **2 – optimum**
12R Acidophilous spruce forests: **2 – optimum**
12S Basiphilous spruce forests: **2 – optimum**
12T Robinia pseudacacia plantations: **1 – rare occurrence**
12U Plantations of broad-leaved non-native trees: **1 – rare occurrence**
12V Spruce plantations: **2 – optimum**
12W Pine and larch plantations: **2 – optimum**

13 Anthropogenic vegetation

13F Herbaceous vegetation of forests clearings and Rubus scrub: **1 – rare occurrence**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **2.1 – 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***
Diagnostic taxon of alliances: **ADC *Salicion silesiacae***, **KCA *Pinion mugo***
Diagnostic taxon of associations: **ADC01 *Salici silesiacae-Betuletum carpaticae***, **ADC02 *Pado borealis-Sorbetum aucupariae***, **KBC06 *Piceo abietis-Sorbetum aucupariae***, **LBC04 *Athyrio distentifolii-Fagetum sylvaticae***

Constant taxon

Constant taxon of classes: **KC *Roso pendulinae-Pinetea mugo***
Constant taxon of alliances: **ADC *Salicion silesiacae***, **KCA *Pinion mugo***
Constant taxon of associations: **ADC01 *Salici silesiacae-Betuletum carpaticae***, **ADC02 *Pado borealis-Sorbetum aucupariae***, **KBC01 *Ribeso alpini-Rosetum pendulinae***, **KBC06 *Piceo abietis-Sorbetum aucupariae***, **KCA02 *Adenostylo alliariae-Pinetum mugo***, **LBA01 *Alnetum incanae***, **LBC04 *Athyrio distentifolii-Fagetum sylvaticae***, **LBE03 *Luzulo-Abietetum albae***, **LDA03 *Vaccinio vitis-idaeae-Quercetum roboris***, **LFB04 *Asplenio cuneifolii-Pinetum sylvestris***, **LFC02 *Athyrio distentifolii-Piceetum abietis***

Dominant taxon

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Dominant taxon of associations: **ADC02 *Pado borealis-Sorbetum aucupariae***, **KBC06 *Piceo abietis-Sorbetum aucupariae***

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.4**
Ecological specialization index for non-forest vegetation: **3.5**
Ecological specialization index for forest vegetation: **4.4**

Colonization ability

Index of colonization success (ICS): **8**
Index of colonization potential (ICP): **7**
Optimum successional age [years]: **35**

Distribution and frequency

Floristic zone: **arctic, boreal, northern temperate, southern temperate, submeridional**
Floristic region: **Europe, Asia**
Distribution range extension along the continentality gradient: **7**
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: 668
taxon.data.freq_in_quad: 2392

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **2.9 %**
Occurrence frequency in vegetation plots with a cover above 5%: **11.8 %**
Occurrence frequency in vegetation plots with a cover above 25%: **2.2 %**
Occurrence frequency in vegetation plots with a cover above 50%: **1 %**
Mean percentage cover in vegetation plots: **4.3 %**
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: **32**
Number of narrow habitats in which the taxon has its optimum: **17**
Number of broad habitats in which the taxon occurs: **7**
Number of broad habitats in which the taxon has its optimum: **2**

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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