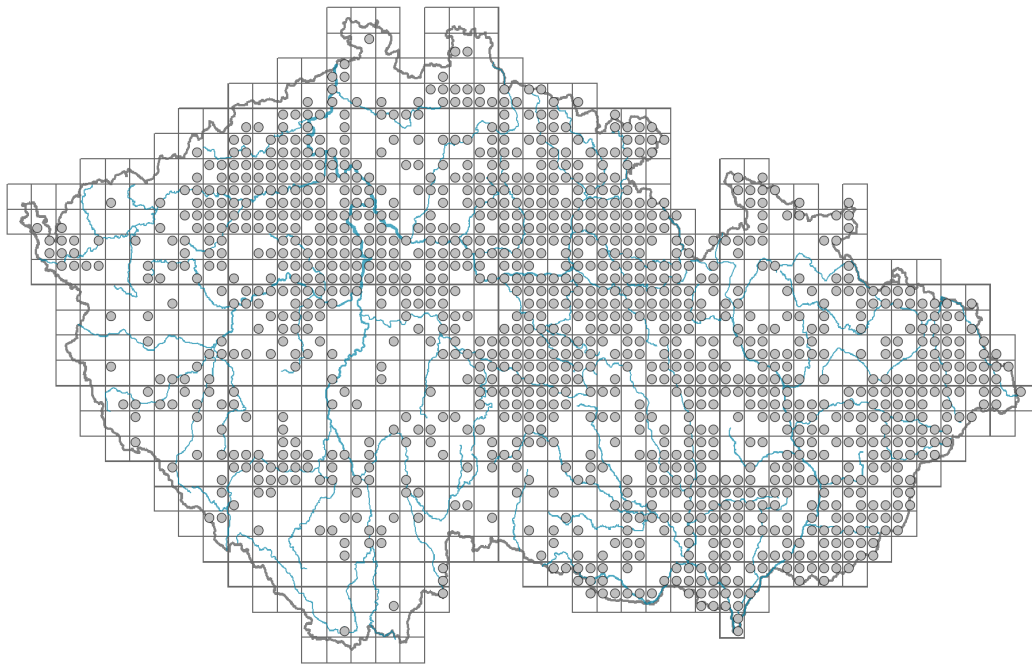


Sinapis arvensis

Distribution



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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]: **0.3-1**

Growth form: **annual herb**

Life form: **therophyte**

Life strategy: **CR - competitor/ruderal**

Life strategy (Pierce method based on leaf traits): **CR**

Life strategy (Pierce method, C-score): **60.1 %**

Life strategy (Pierce method, S-score): **0 %**

Life strategy (Pierce method, R-score): **39.9 %**

Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire, simple - pinnately divided**

Stipules: **absent**

Petiole: **mainly present**

Leaf life span: **summer green**

Leaf anatomy: **mesomorphic**

Flower

Flowering period [month]: **May-October**



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Flowering phase: **6 Cornus sanguinea-Melica uniflora (start of early summer)**

Flower colour: **yellow**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **free**

Calyx fusion: **aposepalous**

Inflorescence type: **racemus**

Dicliny: **synoecious**

Generative reproduction type: **alogamy self-incompatibility**

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

Pollinator spectrum: **hoverflies, flies s. l., other Diptera, nitidulids (bumblebees, solitary bees, other Hymenoptera, meat flies s. l., butterflies, beetles, thrips, other pollinators)**

Fruit, seed and dispersal

Fruit type: **dry fruit - siliqua**

Fruit colour: **brown**

Reproduction type: **only by seed/spores**

Dispersal unit (diaspore): **seed**

Dispersal strategy: **Allium (mainly autochory)**

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

Belowground organs and clonality

Shoot life span (cyclicality): **monocyclic shoots prevailing**

Primary root: **present**

Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **4**

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): **4**

Depth of the belowground bud bank (root buds excluded) [cm]: **1**

Number of buds per shoot at the soil surface (root buds included): **4**

Number of buds per shoot at a depth of 0–10 cm (root buds included): **0**

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): **4**

Depth of the belowground bud bank (root buds included) [cm]: **1**

Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

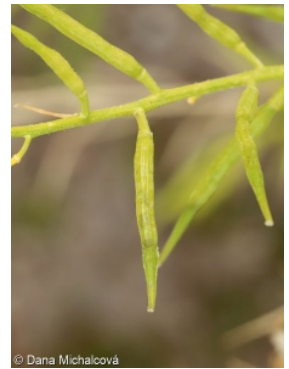
Carnivory: **non-carnivorous**

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

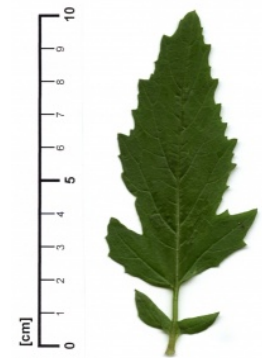
Karyology

Chromosome number (2n): **18**

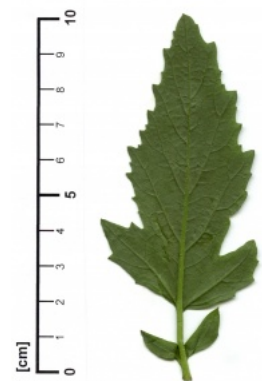
Ploidy level (x): **2**



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2C genome size [Mbp]: **926.42**
1Cx monoploid genome size [Mbp]: **463.21**
Genomic GC content: **40.9 %**

Taxon origin

Origin in the Czech Republic: **archaeophyte**
Invasion status: **naturalized**
Geographic origin: **anecophyte**
Period of introduction: **Neolithic (5600-4200 BCE)**
Introduction pathway: **unintentional - agriculture**

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: **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: **7 - indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions**
Nutrient indicator value: **6 - transition between values 5 and 7**
Salinity indicator value: **0 - not salt tolerant, glycophyte**
Indicator values for disturbance
Whole-community disturbance frequency indicator value: **0.32**
Herb layer disturbance frequency indicator value: **0.34**
Whole-community disturbance severity indicator value: **0.97**
Herb layer disturbance severity indicator value: **0.97**
Whole-community structure based disturbance indicator value: **0.74**
Herb layer structure-based disturbance indicator value: **0.83**

Habitat and sociology

Occurrence in habitats

4 Wetland and riverine herbaceous vegetation
4D Riverine reed vegetation: **1 - rare occurrence**
4I Vegetation of nitrophilous annual hygrophilous herbs: **1 - rare occurrence**
12 Forests
12T Robinia pseudacacia plantations: **1 - rare occurrence**
13 Anthropogenic vegetation
13A Annual vegetation of ruderal habitats: **2 - optimum**
13B Annual vegetation of arable land: **2 - optimum**
13D Perennial thermophilous ruderal vegetation: **1 - rare occurrence**
13E Perennial nitrophilous herbaceous vegetation of mesic sites: **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: [XB *Stellarietea mediae*](#)

Diagnostic taxon of alliances: [XBA *Caucalidion*](#), [XBB *Veronico-Euphorbion*](#)

Diagnostic taxon of associations: [XBA01 *Caucalido platycarpi-Conringietum orientalis*](#), [XBA02 *Lathyro tuberosi-Adonidetum aestivalis*](#), [XBA03 *Euphorbio exiguae-Melandrietum noctiflori*](#), [XBK03 *Eragrostio poaeoidis-Panicetum capillaris*](#)

Constant taxon

Constant taxon of alliances: [XBA *Caucalidion*](#)

Constant taxon of associations: [XBA01 *Caucalido platycarpi-Conringietum orientalis*](#), [XBA02 *Lathyro tuberosi-Adonidetum aestivalis*](#), [XBA03 *Euphorbio exiguae-Melandrietum noctiflori*](#), [XBK03 *Eragrostio poaeoidis-Panicetum capillaris*](#)

Dominant taxon

Dominant taxon of associations: [XBA01 *Caucalido platycarpi-Conringietum orientalis*](#), [XBA02 *Lathyro tuberosi-Adonidetum aestivalis*](#), [XBA04 *Stachyo annuae-Setarietum pumilae*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **5.7**

Ecological specialization index for non-forest vegetation: **5.7**

Colonization ability

Index of colonization success (ICS): **5**

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

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

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 (montane belt)**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 509

taxon.data.freq_in_quad: 1241

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **1.8 %**

Occurrence frequency in vegetation plots with a cover above 5%: **19.8 %**

Occurrence frequency in vegetation plots with a cover above 25%: **4.3 %**

Occurrence frequency in vegetation plots with a cover above 50%: **0.4 %**

Mean percentage cover in vegetation plots: **5.8 %**

Maximum percentage cover in vegetation plots: **63 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **7**

Number of narrow habitats in which the taxon has its optimum: **2**

Number of broad habitats in which the taxon occurs: **3**

Number of broad habitats in which the taxon has its optimum: **1**

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**