

LUCAS 2022
(Land Use / Cover Area Frame Survey)

Technical reference document C6
Grassland Survey - Identification Guide

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DOCUMENT CHANGE RECORD			
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V0.1	2017/05/03	Eurostat / E4.LUCAS	Transfer from original document. Introduction for LUCAS 2018.
V2	2021/02/12	Eurostat / E4.LUCAS	Reduced list of species, according to revised grassland module

2 Scope and Introduction

This document is part of a series of reference documents defining the framework of the Land Use / Cover Area frame statistical Survey (LUCAS). The document at hand provides images that will help in the identification of the different grassland survey species.

This photo guidance has been developed in the frame of the project “Coordination works on the LUCAS Surveys - Specifications for LUCAS 2018 grassland survey: lists of species and related protocol, list of structural parameters and protocol, plan for timing of survey”. The project has been carried out by the Institut für Agrarökologie und Biodiversität (IFAB) [Institute for Agroecology and Biodiversity] in Mannheim (D).

The surveyors who will have to record the key species can use this photo guidance as help for the identification of the key species. Please not

However, as most key species are species groups comprising a group of species of one or several genera, the photo guidance only comprises typical examples of the key species groups.

The LUCAS reference documents are periodically improved and adapted taking into account the experience from the implemented surveys and the requirements of the LUCAS data & information users.

LUCAS stands for Land use and land cover area frame survey. It is a survey that takes place in the field, and in the current form it has been run every 3/4 years since 2009.

LUCAS survey 2022 can be divided in 3 parts:

- LUCAS core (including extended grassland and Copernicus)
- LUCAS specific module on grassland (Grassland module)
- LUCAS specific module on soil (Soil module)
- LUCAS specific module on Landscape Features

LUCAS core includes the identification of the point, different aspects of land cover and land use information and land and water management.

The grassland module is implemented on 20 000 points.

The LUCAS survey is co-ordinated by the Statistical Office of the European Commission (Eurostat).

3 Examples of suitable field guides

If the surveyor wishes to have a closer look at the species, several field guides can be recommended:

For Northern Europe: Fitter, A., Attenborough, D. (1987): Wild flowers of Britain and Northern Europe. Collins, London.

For Central Europe: Fitter, R., Fitter, A., Blamey, M. (2007): Pary's Blumenbuch. Kosmos, Stuttgart.

For Mediterranean Regions: Blamey, M., Grey-Wilson, C. (2015): Wild Flowers of the Mediterranean. Bloomsbury, London.

4 Overview on the key species / key species groups in this guidance (inclusive the colour of their flowers and the plant families).

Selected species / species groups	English names	Colours of the flowers	Plant family (botanical name)	Plant family (English name)	Page
<i>Apiaceae</i>	Carrot family	white, yellow	Apiaceae	Carrot family	7
<i>Centaurea spec., Serratula tinctoria</i>	Knapweed	red, pink	Asteraceae	Daisy family	8
<i>Campanula spec.</i>	Bellflower	blue, white	Campanulaceae	Bellflower family	9
<i>Cirsium spec., Carduus spec., Carlina spec., Eryngium planum, Echinops spec.</i>	Thistle, Eryngo, Globe thistles	red, yellowish, blue	Apiaceae, Asteraceae	Carrot family, Daisy family	10
<i>Juncus spec.</i>	Rush	gree, brown	Juncaceae	Rush family	12
<i>Myosotis spec.</i>	Forget-me-not	blue	Boraginaceae	Borage family	13
<i>Orchidaceae spec.</i>	Orchid family	all colours	Orchidaceae	Orchid family	14
<i>Scabiosa spec., Knautia spec., Succisa spec.</i>	Scabious	blue, white	Dipsacaceae	Teasel family	15
<i>Silene spec. - red flowering, Lychnis flos-cuculi, Dianthus spec.</i>	Campion Pink	red, pink	Caryophyllaceae	Pink family	16
<i>Trifolium spec. - red flowering</i>	Clover	red	Fabaceae	Legume family	17
<i>Trifolium spec., Medicago spec., Lotus spec., Coronilla spec. - yellow flowering,</i>	Trefoil, Vetch	yellow	Fabaceae	Legume family	18
<i>Vicia spec., Lathyrus spec., Astragalus spec. - blue+purple flowers</i>	Vetch	blue, purple	Fabaceae	Legume family	20

5 Photos of the key species

Apiaceae

Carrot family



© Dalgial

Anthriscus sylvestris / Cow parsley

© Qwert1234



© Christian Fischer

Heracleum sphondylium / Common hogweed

© I. Noebse



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Pimpinella saxifraga /
Burnet-saxifrage

© Michele Adorni

Daucus carota / Wild carrot

© Jcart1534



© Patrice78500

Ferula communis / Giant fennel© Jean-Pol
GRANDMONT

Campanula spec.

Bellflower



Campanula patula / Spreading bellflower



Campanula rotundifolia
/ Harebell



Campanula glomerata /
Clustered bellflower



Campanula sibirica /
Alpine Bellflower

Centaurea spec.,
Serratula tinctoria

Knapweed &
Saw-wort



© Franz Xaver

Centaurea jacea / Brown knapweed



© Kristian Peters



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Centaurea scabiosa / Greater knapweed



© Kristian Peters



© Michele Adorni

Centaurea deusta / Pale knapweed



© Franz Xaver

Serratula tinctoria / Saw-wort



© Kristian Peters

Cirsium spec.,
Carduus spec.,
Carlina spec.

Thistle



© Pethan Utrecht



© Stefan Iefnaer



© Christian Fischer



© Franz Xaver

Cirsium palustre / Marsh thistle

Cirsium rivulare / Spear thistle

Cirsium oleraceum / Siberian thistle



© Michele Adorni

Cirsium acaule / Dwarf thistle



© Monedula

Carduus crispus / Welled thistle



© Dalgial



© Bernd Haynold

Carlina vulgaris / Carline thistle



© Hajothu



© Isidre blanc

Carlina acaulis / Silver thistle

Eryngium planum
Echinops spec.

Blue eryngo
 Globe thistles



Eryngium planum / Blue eryngo



Echinops ritro / Southern globethistle



Echinops exaltatus / Tall globethistle



Echinops bannaticus / Blue globe-thistle

Juncus spec.

Rush



© James Lindsey



© James Lindsey



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© Kristian Peters

Juncus squarrosus / Heath rush

Juncus conglomeratus / Compact rush



© Christian Fischer



© Ivar Leidus



© Christian Fischer



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Juncus articulatus / Jointleaf Rush

Juncus effusus / Common Rush

Myosotis spec.

Forget-me-not



© Sten



© I, KENPEI

Myosotis palustris / Forget-me-not



© AnRo0002



© Darkone

Myosotis arvensis / Field forget-me-not

Orchidaceae

Orchid family



© Liuthalas

Orchis morio /
Green-winged orchid



© Jörg Hempel

Dactylorhiza maculata /
Heath spotted-orchid



© Kriko

Dactylorhiza sambucina /
Elder-flowered orchid



© Michele Adorni

Ophrys apifera /
Bee orchid



© Michele Adorni

Anacamptis pyramidalis /
Pyramidal orchid



© JostGudelius

Cypripedium calceolus / Lady's Slipper Orchid



© Sepulnaton1986



© Orchi

Listera ovata / Eggleaf twayblade



© Hans Hillewaert

Scabiosa spec.,
Knautia spec.,
Succisa spec.

Scabious



© Kriss de Niort



© Stan Shebs



© Kriss de Niort



© Svdmolen

Scabiosa columbaria / Small scabious

Knautia arvensis / Field scabious



© Stefan.lefnaer



© H. Zell

Succisa pratensis / Devil's-bit scabious

Silene spec.

(only red flowering species),
Lychnis flos-cuculi &
Dianthus spec.

Campion

(only red flowering species),
Pink & Ragged-Robin



Silene dioica / Red campion



Lychnis flos-cuculi / Ragged-Robin



Dianthus carthusianorum / Carthusian pink



Dianthus superbus / Large pink

Trifolium spec.
(only red flowering species)

Clover
(only red flowering species)



© Rob Hille

Trifolium pratense / Red clover



© H. Zell

Trifolium medium / Zigzag clover



© Christian Fischer



© Stefan.lefnaer

Trifolium striatum / Knotted clover



© Marco Iocchi

Trifolium alpestre / Alpine clover



© J. Denbert

Trifolium arvense / Hare's-foot clover



© Michael Becker



© Michele Adorni

Trifolium resupinatum / Reversed clover



© Christian Fischer

Trifolium fragiferum / Strawberry clover



© Franz Xaver

Trifolium rubens / Red feather



© Hans Hillewaert

Trifolium stellatum / Starry clover

Trifolium spec.,
Medicago spec.,
Lotus spec.
 (only yellow flowering species)

Medick, Lucerne,
 Clover, Trefoil, Vetch
 & Dragon's teeth
 (only yellow flowering species)



© Rasbak

Medicago lupulina / Black medick



© Sten



© Bogdan

Medicago falcata / Yellow lucerne



© Fornax

Medicago minima / Little bur-clover



© Fornax



© Pethan Utrecht

Melilotus officinalis / Yellow sweet clover



© Bogdan



© Tocekas

Trifolium campestre / Hop trefoil



© Hopklaver

Trifolium dubium / Lesser trefoil



© I, Kenraiz



© Andreas Eichler

Lathyrus pratensis / Meadow vetchling



© Martin Olsson



© Walter Siegmund

Lotus corniculatus / Common bird's-foot trefoil



© Javier Martin



© Tigerente

Lotus angustissimus / Slender Bird's-foot-trefoil



© Karwath



© Kristian Peters

Lotus pedunculatus / Big trefoil



© Stefan.lefnaer

Lotus tenuis / Narrowleaf trefoil



© Isidre blanc



© Isidre blanc

Hippocrepis comosa / Horseshoe vetch



© Isidre blanc

Anthyllis vulneraria / Common kidneyvetch



© Stefan.lefnaer

Tetragonolobus maritimus / Dragon's teeth

Vicia spec.,
Lathyrus spec.,
Astragalus spec.
 (only blue+purple flowering
 species)

Vetch
 (only blue+purple flowering
 species)



Vicia sativa / Common vetch



Vicia tenuifolia / Bramble vetch



Astragalus danicus / Purple milk-vetch



Vicia cracca / Tufted vetch



Vicia sepium / Bush vetch



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6 Overview on the species / species groups for structural characterization

Species / species groups	English names	Page
	Shrub, Brushwood, Bramble	22
<i>Cirsium</i> spec., <i>Carduus</i> spec., <i>Carlina</i> spec. <i>Eryngium planum</i> <i>Echinops</i> spec.	Thistles, Eryngo, Globe thistles	23-24 (see p. 10-11)
<i>Rumex</i> spec.	Docks (no Sorrel)	25
<i>Juncus</i> spec.	Rushes	26 (see p. 12)
<i>Carex</i> spec.	Sedges	27
<i>Calamagostis</i> spec.	Small-reed	27

7 Photos of the species / species groups for structural characterization

Shrub,
brushwood,
bramble



© András Schmotzer

Shrubs



© Byothe

Rubus fruticosus / Black berry



© Pléple 2000



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© Michael Becker



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Rosa canina / Dog rose

Cirsium spec.,
Carduus spec.,
Carlina spec.

Thistles



© Pethan Utrecht

Cirsium palustre / Marsh thistle



© Stefan.Iefnaer

Cirsium rivulare / Spear thistle



© Christian Fischer

Cirsium oleraceum / Siberian thistle



© Franz Xaver



© Michele Adorni

Cirsium acaule / Dwarf thistle



© Monedula

Carduus crispus / Welthed thistle



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Carlina vulgaris / Carline thistle



© Hajothu



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Carlina acaulis / Silver thistle

Eryngium planum
Echinops spec.

Blue eryngo
Globe thistles



© Bogdan



© Bernard Dupont

Eryngium planum / Blue eryngo



© Bjoertvedt

Echinops ritro / Southern globethistle



© McIntosh Natura

Echinops exaltatus / Tall globethistle



© Pethan

Echinops bannaticus / Blue globe-thistle

Rumex spec.

Docks



Rumex obtusifolius / Broad-leaved dock



Rumex crispus / Curled dock



no Sorrel



Juncus spec.

Rushes



© James Lindsey

Juncus squarrosus / Heath rush



© James Lindsey



© James Lindsey

Juncus conglomeratus / Compact rush



© Kristian Peters



© Christian Fischer

Juncus articulatus / Jointleaf Rush

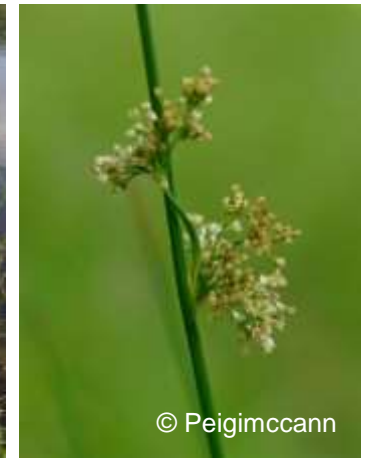


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© Christian Fischer

Juncus effusus / Common Rush



© Peigimccann



© Immanuel Giel

Juncus spec. / Rushes



© Kristian Peters

Juncus infexus / Hard rush

Carex spec.

Sedge



© Artem Topchiy
Carex acutiformis /
Lesser pond-sedge



© Christian Fischer
Carex arenaria /
Sand sedge



© Stemonitis
Carex hirta /
Hairy sedge



© Robert Flogaus-Faust
Carex flacca /
Blue sedge



© Kristian Peters
Carex panicea /
Carnation sedge

Calamagrostis spec.

Small-reed



© Botaurus
Calamagrostis epigejos / Wood small-reed



© K. Lauber



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Calamagrostis arundinacea

8 Overview on the legume species / species groups

Most legume species / species groups are already part of the key species list and found in section 6 of this identification guide. For the coverage of legumes also white flowering legumes, like Mountain clover and White clover (not part of the key species list), are included. The indication of the coverage includes all parts of the plants (e.g. flowers, leaves, stems).

Species / species groups	English names	Page
<i>Astragalus spec.</i>	Miklvetch	28/32 (see also p. 20)
<i>Coronilla spec.</i>		28
<i>Hedysarum coronaria</i>	Vetch	29
<i>Onobrychis spec.</i>	Sainfoin	29
<i>Trifolium spec.</i> (red)	Red-flowering clover	30 (see also p. 17)
<i>Trifolium spec.</i> , <i>Medicago spec.</i> , <i>Lotus spec.</i> (yellow)	Medick, lucerne, clover, trefoil & vetch	31 (see also p. 17/18)
<i>Lathyrus spec.</i> (yellow/purple)	Yellow sweet clover	32/33
<i>Trifolium spec.</i> (white)	White-flowering clover	34
<i>Lupinus spec.</i>	Lupine	35

9 Photos of legumes

Astragalus spec.,
Securigera spec.
Hedysarum coronaria
Onobrychis spec.

Vetch, sainfoin &
honey-suckle



© Franz Xaver

Astragalus monspessulanus / Montpellier Milk-Vetch



© Jean Tosti



© Bogdan

Coronilla varia / Crownvetch



© Ltshears



© Thuir

Onobrychis viciifolia / Common sainfoin



© Michele Adorni

Hedysarum coronaria / French honey-suckle



© Michele Adorni

Trifolium spec.
(red flowering species)

Clover



© Rob Hille

Trifolium pratense / Red clover



© H. Zell

Trifolium medium / Zigzag clover



© Christian Fischer



© Stefan.lefnaer

Trifolium striatum / Knotted clover



© Marco Iocchi

Trifolium alpestre / Alpine clover



© J. Denbert

Trifolium arvense / Hare's-foot clover



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Trifolium resupinatum / Reversed clover



© Christian Fischer

Trifolium fragiferum / Strawberry clover



© Franz Xaver

Trifolium rubens / Red feather



© Hans Hillewaert

Trifolium stellatum / Starry clover

Trifolium spec.,
Medicago spec.,
Lotus spec.

Medick, lucerne,
clover, trefoil & vetch



© Rasbak



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© Bogdan

Medicago lupulina / Black medick

Medicago falcata / Yellow lucerne



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© Pethan Utrecht



© Bogdan

Medicago minima / Little bur-clover

Melilotus officinalis / Yellow sweet clover



© Tocekas

Trifolium campestre / Hop trefoil



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Trifolium dubium / Lesser trefoil



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Lathyrus pratensis / Meadow vetchling



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Lotus corniculatus / Common bird's-foot trefoil



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Lotus angustissimus / Slender Bird's-foot-trefoil



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Lotus pedunculatus / Big trefoil



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Lotus tenuis / Narrowleaf trefoil



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Hippocrepis comosa / Horseshoe vetch



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Anthyllis vulneraria / Common kidneyvetch



© Stefan.lefnaer

Tetragonolobus maritimus / Dragon's teeth

Vicia spec.,
Lathyrus spec.,
Astragalus spec.
 (only blue+purple flowering
 species)

Vetch
 (only blue+purple flowering
 species)



Vicia sativa / Common vetch

© Fornax



Vicia tenuifolia / Bramble vetch

© Franz Xaver



Astragalus danicus / Purple milk-vetch

© Petr Filippov



© Ivar Leidus



Vicia cracca / Tufted vetch

© Walter Siegmund



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Vicia sepium / Bush vetch

© Frank Vincentz



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Trifolium spec.
(white flowering species)

Clover
(white flowering species)



© Hans Hillewaert



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Trifolium repens / White clover

Trifolium montanum / Mountain clover



© Peter Griffin

Grass-clover mixture

Lupinus spec.
(white flowering species)

Lupin



© Carsten Niehaus

Lupinus luteus / Yellow lupin



© Giancarlo Dessì

Lupinus pilosus / Mountain lupin

10 Source of the photos / photo authors / photo credits

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Daucus_carota_2	Jcart1534	13.07.2016	By Jcart1534 - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=7639096
Dianthus_carthusianorum_1	Bernd Haynold	13.07.2016	By Bernd Haynold - Own work, CC BY 2.5, https://commons.wikimedia.org/w/index.php?curid=160915
Dianthus_carthusianorum_2	BerndH	13.07.2016	CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=160916
Dianthus_superbus_1	Stan Shebs	05.09.2016	By Stan Shebs, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=693676
Echinops_bannaticus_1	Pethan	26.09.2016	By Pethan, CC BY-SA 3.0, https://de.wikipedia.org/wiki/Banater_Kugeldistel#/media/File:Echinops_bannaticus01.jpg
Echinops_exaltatus_1	McIntosh Natura	26.09.2016	CC BY-SA 3.0, https://en.wikipedia.org/wiki/Echinops_exaltatus#/media/File:Echinops_exaltatus.jpg
Echinops_ritro_1	Bjoertvedt	26.09.2016	By Bjoertvedt, CC BY-SA 3.0, https://de.wikipedia.org/wiki/Kugeldistel#/media/File:Echinops_ritro_01.jpg
Eryngium_planum_1	Bogdan	26.09.2016	By Bogdan, CC BY-SA 3.0, https://de.wikipedia.org/wiki/Flachblatt-Mannstreu#/media/File:Eryngium_planum_bgiu.jpg
Eryngium_planum_2	Bernard Dupont	26.09.2016	CC BY-SA 2.0, https://de.wikipedia.org/wiki/Flachblatt-Mannstreu#/media/File:Flat_Sea_Holly_(Eryngium_planum)__(14240745500).jpg
Ferula_communis_1	Patrice78500	05.09.2016	By Patrice78500 - Own work, Public Domain, https://commons.wikimedia.org/w/index.php?curid=5729474
Ferula_communis_2	Jean-Pol GRANDMONT	05.09.2016	By Jean-Pol GRANDMONT - Own work, CC BY 3.0, https://commons.wikimedia.org/w/index.php?curid=4495317
Heracleum_sphondylium_1	Christian Fischer	13.07.2016	By Christian Fischer, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=4467978
Heracleum_sphondylium_2	I, Noebse	13.07.2016	By I, Noebse, CC BY-SA 2.5, https://commons.wikimedia.org/w/index.php?curid=2445382
Juncus_articulatus_1	Christian Fischer	05.09.2016	By Christian Fischer, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=364616
Juncus_articulatus_2	Ivar Leidus	05.09.2016	By Ivar Leidus - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=27251155
Juncus_conglomeratus_1	James Lindsey	05.09.2016	By James Lindsey at Ecology of Commanster, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=1721600
Juncus_conglomeratus_2	Kristian Peters	05.09.2016	By Kristian Peters -- Fabelfroh 12:19, 9 July 2006 (UTC) - photographed by myself, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=934123
Juncus_effusus_1	Christian Fischer	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/thumb/e/e2/JuncusEffusus.jpg/260px-JuncusEffusus.jpg
Juncus_effusus_2	Peigmccann	29.01.2018	https://en.wikipedia.org/wiki/Juncus#/media/File:Juncus_effuses_Loch_Kruse_7-8-08.jpg
Juncus_squarrosus_1	James Lindsey	05.09.2016	By James Lindsey at Ecology of Commanster, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=1721607
Juncus_squarrosus_2	James Lindsey	05.09.2016	By James Lindsey at Ecology of Commanster, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=1721609
Knautia_arvensis_1	Kriss de Niort	13.07.2016	http://faaxaal.forumactif.com/t3073-photo-de-dipsacacee-scabieuse-des-champs-knautie-des-champs-knautia-arvensis-scabiosa-arvensis-field-scabious?highlight=knautia
Knautia_arvensis_2	Svdmolen	13.07.2016	By Photo by Svdmolen - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=309255
Lathyrus_hirsutus_1	Jerzy Opiola	05.09.2016	By Jerzy Opiola - Own work, GFDL, https://commons.wikimedia.org/w/index.php?curid=4416712
Lathyrus_pratensis_1	Andreas Eichler	14.07.2016	By Andreas Eichler, CC BY-SA 4.0, https://commons.wikimedia.org/w/index.php?curid=39109377
Listera_ovata_1	Orchi	05.09.2016	By Orchi - Self-photographed, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=523245
Listera_ovata_2	Hans Hillewaert	05.09.2016	By © Hans Hillewaert /, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=4117934
Lotus_angustissimus_1	Javier martin	23.08.2016	By Javier martin - Own work, Public Domain, https://commons.wikimedia.org/w/index.php?curid=11298498
Lotus_angustissimus_2	Tigerente	23.08.2016	By User:Tigerente - Own work, CC BY 2.5, https://commons.wikimedia.org/w/index.php?curid=1392961
Lotus_corniculatus_1	Martin Olsson	14.07.2016	CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=184621
Lotus_corniculatus_2	Walter Siegmund	14.07.2016	By Walter Siegmund (talk) - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=7726296
Lotus_pedunculatus_1	André Karwath aka Aka	23.08.2016	By André Karwath aka Aka - Own work, CC BY-SA 2.5, https://commons.wikimedia.org/w/index.php?curid=231445
Lotus_pedunculatus_2	Kristian Peters	23.08.2016	By Kristian Peters -- Fabelfroh 15:33, 3 January 2007 (UTC) - photographed by myself, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=1521790

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Lotus_tenuis_1	Stefan.lefnaer	24.08.2016	By Stefan.lefnaer - Own work, CC BY-SA 4.0, https://commons.wikimedia.org/w/index.php?curid=46472045
Lychnis_flos-cuculi_1	Prazak	12.07.2016	CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=826205
Lychnis_flos-cuculi_2	Donald Macauley	12.07.2016	By Donald Macauley - Flickr: Lychnis flos-cuculi, CC BY-SA 2.0, https://commons.wikimedia.org/w/index.php?curid=15353039
Medicago_falcata_1	Bogdan	23.08.2016	CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=237811
Medicago_lupulina_1	Rasbak	14.07.2016	By Rasbak - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=11386462
Medicago_lupulina_2	Sten	14.07.2016	By Sten, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=6986615
Medicago_minima_1	Fornax	23.08.2016	Public Domain, https://commons.wikimedia.org/w/index.php?curid=1122331
Medicago_minima_2	Fornax	23.08.2016	By Fornax - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=3982929
Medicago_sativa_1	H. Zell	15.07.2016	By H. Zell - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=10672432
Melilotus_officinalis_1	Pethan Utracht	05.09.2016	CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=195679
Melilotus_officinalis_2	Bogdan	05.09.2016	CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=248342
Myosotis_arvensis_1	AnRo0002	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/thumb/d/d9/20140418Myosotis_arvensis2.jpg/1280px-20140418Myosotis_arvensis2.jpg
Myosotis_arvensis_2	Darkone	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/0/0c/Myosotis_arvensis_01.jpg
Myosotis_palustris_2	Sten	13.07.2016	By Sten, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=1957913
Onobrychis_viciifolia_1	Thuir	13.07.2016	CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=121007
Orchis_morio_1	Liuthalas	13.07.2016	By Liuthalas - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=6638385
Scabiosa_columbaria_1	Kriss de Niort	13.07.2016	http://faaxaal.forumactif.com/t3302-photo-de-dipsacacee-scabieuse-colombaire-scabiosa-columbaria-pigeon-s-scabious?highlight=scabiosa
Scabiosa_columbaria_2	Stan Shebs	13.07.2016	By Stan Shebs, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=132631
Serratula_tinctoria_1	Franz Xaver	12.07.2016	By Franz Xaver - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=8166825
Serratula_tinctoria_2	Kristian Peters	14.07.2016	By Kristian Peters -- Fabelfroh 15:13, 10 August 2007 (UTC) - photographed by Kristian Peters, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=2544278
Silene_dioica_1	Christian Fischer	13.07.2016	By Christian Fischer, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=34467612
Silene_dioica_2	Strobilomyces	13.07.2016	By User:Strobilomyces - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=728280
Succisa_pratensis_1	Stefan.lefnaer	13.07.2016	By Stefan.lefnaer - Own work, CC BY-SA 4.0, https://commons.wikimedia.org/w/index.php?curid=37917824
Succisa_pratensis_2	H. Zell	13.07.2016	By H. Zell - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=11135687
Tetragonolobus_maritimus_1	Stefan.lefnaer	05.09.2016	By Stefan.lefnaer - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=29438897
Trifolium_alpestre_1	Marco Iocchi	15.07.2016	By Marco Iocchi - Montagne della Duchessa, Rieti, Lazio, Italia, CC BY 3.0, https://commons.wikimedia.org/w/index.php?curid=9960866
Trifolium_arvense_1	I, Denbert	23.08.2016	By I, Denbert, CC BY 2.5, https://commons.wikimedia.org/w/index.php?curid=2246884
Trifolium_arvense_2	Michael Becker	23.08.2016	By Michael Becker - taken by Michael Becker, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=222746
Trifolium_campestre_1	Tocekas	23.08.2016	By Tocekas - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=4158868
Trifolium_dubium_1	Hopklaver	23.08.2016	CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=5247843
Trifolium_dubium_2	I, Kenraiz	23.08.2016	By I, Kenraiz, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=2378709
Trifolium_fragiferum_1	Christian Fischer	23.08.2016	By Christian Fischer, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=1035347
Trifolium_medium_2	Christian Fischer	14.07.2016	By Christian Fischer, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=455872
Trifolium_pratense_1	Rob Hille	14.07.2016	By Rob Hille - Own work, Public Domain, https://commons.wikimedia.org/w/index.php?curid=2583591

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Trifolium_pratense_2	H. Zell	14.07.2016	By H. Zell - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=11228538
Trifolium_resupinatum_1	Fornax	23.08.2016	CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=1348368
Trifolium_rubens_1	Franz Xaver	23.08.2016	By Franz Xaver - selbst fotografiert - my own photo, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=20006576
Trifolium_stellatum_1	Hans Hillewaert	15.07.2016	By © Hans Hillewaert /, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=4094956
Trifolium_striatum_1	Stefan.lefnaer	23.08.2016	By Stefan.lefnaer - Own work, CC BY-SA 4.0, https://commons.wikimedia.org/w/index.php?curid=45018968
Vicia_cracca_1	Walter Siegmund	15.07.2016	By Walter Siegmund (talk) - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=6991833
Vicia_cracca_2	Isidre blanc	15.07.2016	By Isidre blanc - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=26566436
Vicia_sativa_1	Fornax	23.08.2016	By Fornax - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=4029407
Vicia_sepium_1	Frank Vincentz	15.07.2016	By Frank Vincentz - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=2787495
Vicia_sepium_2	Anneli Salo	15.07.2016	By Anneli Salo - Own work (Own photo), CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=4233324
Vicia_tenuifolia_1	Franz Xaver	23.08.2016	By Franz Xaver - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=33507911
Vicia_tenuifolia_2	Petr Filippov	24.08.2016	By Petr Filippov - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=6899768

Species/species groups for structural characterization

Photo	Autor	Downloading date	License and Link
Calamagrostis_arundinacea_1	James Lindsey	29.01.2018	https://de.wikipedia.org/wiki/Wald-Reitgras#/media/File:Calamagrostis.arundinacea.jpg
Calamagrostis_epigejos_1	Botaurus	11.01.2018	https://commons.wikimedia.org/w/index.php?search=Calamagrostis+epigejos&title=Special:Search&profile=default&fulltext=1&searchToken=bfqmn9zvg1qsa676x3jurdydg#/media/File:Calamagrostis-epigejos-02.jpg
Carduus_crispus_1	Ivar Leidus	11.01.2018	https://commons.wikimedia.org/w/index.php?search=carduus&title=Special:Search&profile=default&fulltext=1&searchToken=2cdjf8v5m5fsf9udqd4jeyci#/media/File:Carduus_crispus_-_Keila.jpg
Carduus_crispus_2	Monedula	29.01.2018	
Carex_halleriana_1	Jean Tosti	29.01.2018	https://commons.wikimedia.org/wiki/File:Carex_halleriana.jpg
Carex_arenaia_1	Christian Fischer	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/thumb/4/40/CarexArenaria.jpg/800px-CarexArenaria.jpg
Carex_acutiformis_1	Artem Topchiy	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/thumb/4/41/Carex_acutiformis.jpg/800px-Carex_acutiformis.jpg
Carex_flacca_1	Robert Flogaus-Faust	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/thumb/0/05/Carex_flacca_RF.jpg/800px-Carex_flacca_RF.jpg
Carex_hirta_1	Stemonitis	11.01.2018	https://commons.wikimedia.org/w/index.php?search=Carex+hirta&title=Special:Search&profile=default&fulltext=1&searchToken=9qcj52dz8dey4bb8s5gby78vf#/media/File:Carex_hirta_utracles.jpg
Carex_panicea_1	Kristian Peters	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/0/02/Carex_panicea_fruchtstand.jpeg
Juncus_1	Immanuel Giel	11.01.2018	https://commons.wikimedia.org/w/index.php?search=rushes&title=Special:Search&profile=default&fulltext=1&searchToken=mmd1rrox0sfvxgftvr383#/media/File:Juncus_rushes_-_panoramio.jpg
Juncus_effusus_1	Peigimccann	29.01.2018	https://en.wikipedia.org/wiki/Juncus#/media/File:Juncus_effuses_Loch_Kruse_7-8-08.jpg
Juncus_inflexus_1	Kristian Peters	11.01.2018	https://commons.wikimedia.org/w/index.php?search=Juncus+inflexus&title=Special:Search&profile=default&fulltext=1&searchToken=euhls17qv2f1d0eukff8p5ie#/media/File:Juncus_inflexus.jpeg
Rosa_canina_1	Juandev	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/thumb/a/ac/PR_Kope%C4%8D%2C_pohled_na_v%C3%BDchod_s_%C5%A1%C3%ADpkem_%28Rosa_canina%29.JPG/1280px-PR_Kope%C4%8D%2C_pohled_na_v%C3%BDchod_s_%C5%A1%C3%ADpkem_%28Rosa_canina%29.JPG

<i>Rosa canina_2</i>	Michael Becker	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/3/33/Rosa_canina_blat_2005.05.26_11.50.13.jpg
<i>Rosa canina_3</i>	Sakurai midori	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/thumb/6/62/Rosa_canina_6.JPG/1280px-Rosa_canina_6.JPG
<i>Rubus fruticosus_1</i>	Frank Vincentz	29.01.2018	https://commons.wikimedia.org/w/index.php?title=Special:Search&limit=20&offset=40&profile=default&search=Rubus+fruticosus&searchToken=6mvgraz6qrxhl71ntv51oaa08#/media/File:Rubus_fruticosus_15_ies.jpg
<i>Rubus fruticosus_2</i>	Pleple2000	29.01.2018	https://commons.wikimedia.org/w/index.php?title=Special:Search&limit=20&offset=120&profile=default&search=Rubus+fruticosus&searchToken=twqe84wdkp0twgnonflk1wry#/media/File:Rubus_fruticosus_li%C5%9Bcie_201.jpg
<i>Rumex obtusifolius_1</i>	Sten Porse	11.01.2018	https://commons.wikimedia.org/w/index.php?search=Rumex+obtusifolius&title=Special:Search&profile=default&fulltext=1&searchToken=60qj84wkwcwvhyw8r0qqr2ip#/media/File:Rumex-obtusifolius-foilage.JPG
<i>Rumex obtusifolius_2</i>	Boris Gaberšček	11.01.2018	https://commons.wikimedia.org/w/index.php?title=Special:Search&limit=20&offset=20&profile=default&search=Rumex+obtusifolius&searchToken=d2hmf5wuw1p1if00vgwvm0u84#/media/File:Rumex_obtusifolius_PID1745-1.jpg
<i>Rumex acetosa_1</i>	Burschik	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/4/48/Rumex_acetosa_cultivar_01.jpg
<i>Rumex acetosa_2</i>	Hajotthu	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/thumb/3/3c/SauerampferPflanze_%28Rumex_acetosa%29.jpg/800px-SauerampferPflanze_%28Rumex_acetosa%29.jpg
<i>Rumex crispus_1</i>	Ettore Balocchi	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/a/ab/Polygonaceae_-_Rumex_crispus-3_%288304690028%29.jpg
<i>Rumex crispus_2</i>	Philmarin	08.02.2021	https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/1-R.crispus-gen-2.jpg/800px-1-R.crispus-gen-2.jpg
<i>Shrub_1</i>	András Schmotzer		Personal material

Additional legume species / species groups

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<i>Trifolium repens_1</i>	Hans Hillewaert	19.02.2018	CC BY-SA 3.0, https://commons.wikimedia.org/wiki/File:Trifolium_repens_(inflorescence)_Edit.jpg
<i>Trifolium repens_2</i>	Jengod	19.02.2018	CC BY-SA 3.0, https://upload.wikimedia.org/wikipedia/commons/2/2d/Dutch_white_clover.jpg
<i>Trifolium montanum_1</i>	Hugo.arg	19.02.2018	CC BY-SA 3.0, https://commons.wikimedia.org/wiki/File:KalninisDobilas.JPG
<i>Trifolium montanum_2</i>	Ivar Leidus	19.02.2018	Own work, CC BY-SA 3.0, https://upload.wikimedia.org/wikipedia/commons/3/30/Trifolium_montanum_-_m%C3%A4gistik.jpg
<i>Grass_clover_mixture_1</i>	Peter Griffin	19.02.2018	CC0, Public domain; http://www.publicdomainpictures.net/pictures/10000/velka/296-1244490106cbdy.jpg
<i>Lupinus luteus_1</i>	Carsten Niehaus	19.02.2018	CC BY-SA 3.0; https://commons.wikimedia.org/wiki/Lupinus#/media/File:Lupinus_spec.jpg
<i>Lupinus pilosus_1</i>	Giancarlo Dessì	19.02.2018	CC BY-SA 3.0; https://commons.wikimedia.org/wiki/Lupinus#/media/File:Lupinus_hirsutum.jpg

11 Overview on the photos of the key species in this guidance and on further examples of the key species groups .

Selected species / species groups	English names	Colours of the flowers	Plant family (botanical name)	Plant family (English name)	Species with pictures in this guidance	Examples of Further species
<i>Apiaceae</i>	Carrot family	white, yellow	Apiaceae	Carrot family	<i>Anthriscus sylvestris</i> <i>Daucus carota</i> <i>Heracleum sphondylium</i> <i>Ferula communis</i> <i>Pimpinella saxifraga</i>	<i>Chaerophyllum hirsutum</i> <i>Carum carvi</i> <i>Conopodium majus</i> <i>Crambe tataria</i> <i>Crithmum maritimum</i> <i>Foeniculum vulgare</i> <i>Kundmannia sicula</i> <i>Oenanthe</i> spp. <i>Pimpinella</i> spp. <i>Peucedanum</i> spp. <i>Seseli</i> spp. <i>Laserpitium latifolium</i>
<i>Campanula spec.</i>	Bellflower	blue, white	Campanulaceae	Bellflower family	<i>Campanula glomerata</i> <i>C. patula</i> <i>C. rotundifolia</i> agg. <i>C. sibirica</i>	<i>Campanula abietina</i> <i>C. cervicaria</i> <i>C. erinus</i> <i>C. persicifolia</i> <i>C. rapunculuc</i> <i>C. scheuchzeri</i>
<i>Centaurea spec.</i> , <i>Serratula tinctoria</i>	Knapweed	red, pink	Asteraceae	Daisy family	<i>Centaurea jacea</i> <i>C. scabiosa</i> <i>Serratula tinctoria</i>	<i>Centaurea angustifolia</i> <i>C. aspera</i> <i>C. bracteata</i> <i>C. calcitrapa</i> <i>C. deusta</i> <i>C. melitensis</i> <i>C. napifolia</i> <i>C. nigra</i> <i>C. nigrescens</i> <i>C. paniculata</i> <i>Cyanus triumfetti</i> <i>Jurinea cyanoides</i>

Selected species / species groups	English names	Colours of the flowers	Plant family (botanical name)	Plant family (English name)	Species with pictures in this guidance	Examples of Further species
<i>Cirsium spec.</i> , <i>Carduus spec.</i> , <i>Carlina spec.</i>	Thistle	red, yellowish	Asteraceae	Daisy family	<i>Carlina vulgaris</i> agg. <i>C. acaulis</i> <i>Cirsium palustre</i> <i>C. rivulare</i> <i>C. oleraceum</i> <i>Carduus crispus</i>	<i>Carlina acanthifolia</i> <i>C. acanthoides</i> <i>Cirsium acaule</i> <i>C. appendiculatum</i> <i>C. arvense</i> <i>C. eriophorum</i> <i>C. helenoides</i> <i>C. heterophyllum</i> <i>C. monspessulanum</i> <i>C. tuberosum</i> <i>C. vulgare</i> <i>Cistus creticus</i> <i>C. salviifolius</i>
<i>Juncus spec.</i>	Rush	gree, brown	Juncaceae	Rush family	<i>Juncus conglomeratus</i> <i>J. squarrossus</i> <i>J. articulatus</i>	<i>Juncus effusus</i> <i>J. acutiflorus</i> <i>J. inflexus</i>
<i>Myosotis spec.</i>	Forget-me-not	blue	Boraginaceae	Borage family	<i>Myosotis palustris</i> agg.	<i>Myosotis ramosissima</i> <i>M. discolor</i>
<i>Orchidaceae spec.</i>	Orchid family	all colours	Orchidaceae	Orchid family	<i>Dactylorhiza sambucina</i> <i>D. maculata</i> <i>Anacamptis pyramidalis</i> <i>Orchis morio</i> <i>Ophrys apifera</i> <i>Cypripedium calceolus</i> <i>Listeraovata</i> <i>Serapias vomeracea</i>	<i>Gymnadenia conopsea</i> <i>Orchis purpurea</i> <i>O. mascula</i> <i>O. simis</i> <i>O. tridentata</i> <i>Ophrys argolica</i> <i>O. ferrum-equinum</i> <i>O. fuciflora</i> <i>O. fusca</i> <i>O. kotschyi</i> <i>O. omegaifera</i> <i>Serapias spp.</i>

Selected species / species groups	English names	Colours of the flowers	Plant family (botanical name)	Plant family (English name)	Species with pictures in this guidance	Examples of Further species
<i>Scabiosa spec.</i> , <i>Knautia spec.</i> , <i>Succisa spec.</i>	Scabious	blue, white	Dipsacaceae	Teasel family	<i>Scabiosa columbaria</i> <i>Knautia arvensis</i> <i>Succisa pratensis</i>	<i>Scabiosa atropurpurea</i> <i>S. canescens</i> <i>S. ochroleuca</i> <i>S. strillata</i> <i>S. triandra</i> <i>Knautia integrifolia</i> <i>K. purpurea</i> <i>Lomelosia spec.</i>
<i>Silene spec.</i> - red flowering, <i>Lychnis flos-cuculi</i> , <i>Dianthus spec.</i>	Campion Pink	red, pink	Caryophyllaceae	Pink family	<i>Silene dioica</i> <i>Lychnis flos-cuculi</i> <i>Dianthus carthusianorum</i> <i>D. superbus</i>	<i>S. apetala</i> <i>S. gallica</i> <i>Dianthus armeria</i> <i>D. deltoides</i> <i>D. arenaria</i> <i>D. serotinus</i>
<i>Trifolium spec.</i> - red flowering	Clover	red	Fabaceae	Legume family	<i>Trifolium arvense</i> <i>T. fragiferum</i> <i>T. medium</i> <i>T. pratense</i> <i>T. resupinatum</i> <i>T. stellatum</i> <i>T. striatum</i>	<i>Trifolium alpestre</i> <i>T. angulatum</i> <i>T. angustifolium</i> <i>T. bocconeii</i> <i>T. cherleri</i> <i>T. glomeratum</i> <i>T. hirtum</i> <i>T. incarnatum</i> <i>T. lappaceum</i> <i>T. squamosum</i> <i>T. strictum</i> <i>T. tomentosum</i>

Selected species / species groups	English names	Colours of the flowers	Plant family (botanical name)	Plant family (English name)	Species with pictures in this guidance	Examples of Further species
<i>Trifolium spec.</i> , <i>Medicago spec.</i> , <i>Lotus spec.</i> , et al. <i>Coronilla</i> - yellow flowering	Trefoil, Vetch	yellow	Fabaceae	Legume family	<i>Anthyllis vulneraria</i> <i>Trifolium campestre</i> <i>T. dubium</i> <i>Melilotus officinalis</i> <i>Hippocrepis comosa</i> <i>Lathyrus pratensis</i> <i>Medicago lupulina</i> <i>M. falcata</i> <i>M. minima</i> <i>Lotus corniculatus</i> <i>L. angustissimus</i> <i>L. pedunculatus</i> <i>L. tenuis</i> <i>Tetragonolobus maritimus</i>	<i>Trifolium micranthum</i> <i>T. patens</i> <i>Dorycnium spp.</i> <i>Medicago orbicularis</i> <i>M. rigidula</i> <i>M. doliata</i> <i>M. truncatula</i> <i>M. arabica</i> <i>M. polymorpha</i> <i>Lotus parviflorus</i>
<i>Vicia spec.</i> , <i>Lathyrus spec.</i> , <i>Astragalus spec.</i> - blue+purple flowers	Vetch	blue, purple	Fabaceae	Legume family	<i>Vicia cracca</i> <i>V. sativa</i> <i>V. sepium</i> <i>V. tenuifolia</i> <i>Lathyrus hirsutus</i> <i>Astragalus danicus</i>	<i>Vicia ervillia</i> <i>V. hybrida</i> <i>V. lathyroides</i> <i>V. lutea</i> <i>V. peregrina</i> <i>V. vilosa</i> <i>V. grandiflora</i> <i>V. pannonica</i> <i>Lathyrus angulatus</i> <i>L. latifolius</i> <i>L. linifolius</i> <i>L. setifolius</i> <i>L. sphaericus</i> <i>Astragalus austriacus</i> <i>A. hamosus</i> <i>A. sesameus</i> <i>A. onobrychis</i> <i>A. spuneri</i>