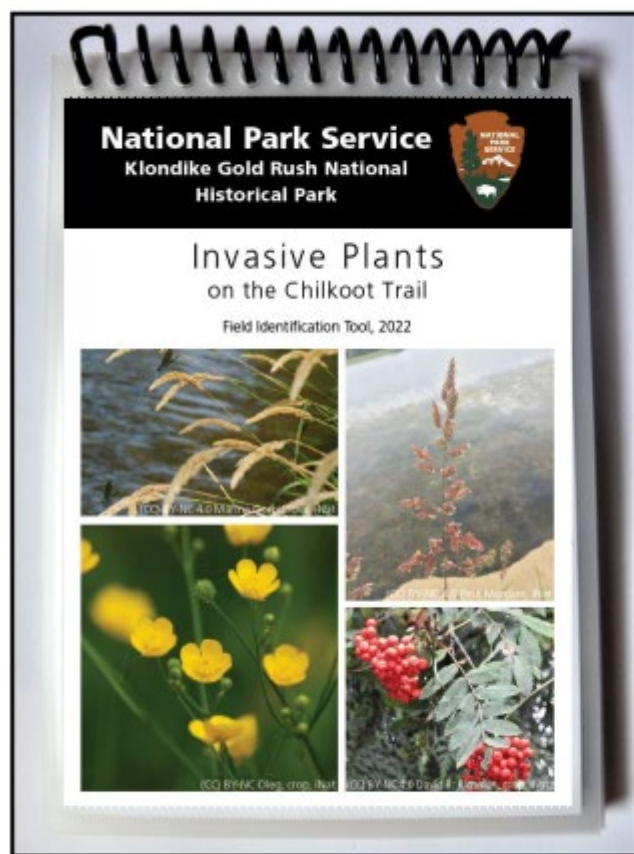




Invasive Plants on the Chilkoot Trail, booklet development and full citations, 2022



ON THE COVER

Front cover and sample species page of “Invasive Plants on the Chilkoot Trail” booklet.
(NPS)

Invasive Plants on the Chilkoot Trail, booklet development and full citations, 2022

A Klondike Gold Rush National Historical Park Publication

Annyssa Interrante¹ and Julianna Hamill,²

¹National Park Service
Biological Technician
Natural Resources Program
Skagway, AK 99840

²National Park Service
Student Conservation Association Intern Natural Resources Program
Skagway, AK 99840

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National Park Service
Klondike Gold Rush National Historical Park

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Abstract

Klondike Gold Rush National Historical Park (KLGO) manages vegetation within the park to prevent, reduce, or eliminate invasive exotic plants. KLGO works closely with local partner organizations that have similar management objectives.

In 2021, KLGO identified a need to provide staff and partner organizations with an identification tool for the Chilkoot Trail area of the Park. Building upon information developed at KLGO through the National Park Service Alaska Region Invasive Plants Management Team, records of invasive plants occurrence on the Chilkoot Trail and in nearby Dyea were critically reviewed to select plants of concern for invasiveness potential.

The selected plants were thoroughly researched for crucial identification characteristics in the KLGO locale. Illustrations and sets of photographs for each selected species were identified and obtained for use in a field booklet, with full documentation of ownership and through obtaining permissions for copyrighted materials.

The resulting booklet, “Invasive Plants on the Chilkoot Trail, Field Identification Tool, 2022” was produced for only non-commercial use. Due to the small size of the booklet, full citations could not be included, however, every photographic image and illustration included attribute information within the booklet.

This document summarizes the development process and presents full citations and references for all descriptive text, keys, illustrations and photographs found in the booklet.

Please cite this publication as:

Interrante, A. and J. Hamill. 2023. Invasive Plants on the Chilkoot Trail, booklet development and full citations, 2022. Klondike Gold Rush National Historical Park, Skagway, Alaska.

Introduction

The booklet, “Invasive Plants on the Chilkoot Trail, Field Identification Tool, 2022” was designed to assist Klondike Gold Rush National Historical Park (KLGO) staff and partners to identify invasive exotic plant species on the Chilkoot Trail.

The goal was to produce an easy-to-use, rugged field booklet that would fit in the National Park Service (NPS) uniform cargo pants pocket or other similar pocket or pouch.

Methods and Results

A summary of NPS Alaska Region Invasive Plants Management Team annual reports on KLGO invasive plants from 2004 to 2018 included information about invasive exotic plants in relation to different locations in the KLGO area (Interrante, 2021). Invasive exotic plant species found in an area, their invasiveness ranking, and listings of invasive plants found in nearby areas were presented in tabular formats. Table 1 is the tabular excerpt for the Chilkoot Trail.

All eleven “Recorded Presence” species in Table 1 were selected for the booklet. Additional species were selected from the “Potential Presence” section by evaluating their location and invasiveness rank as shown in the table combined with recent field observations (2020-2022) by KLGO staff. Five species were selected as having the most potential to spread on to the Chilkoot Trail. Those species were Yellow Toadflax (*Linaria vulgaris*), Creeping Buttercup (*Ranunculus repens*), White Sweetclover (*Melilotus albus*), Yellow Sweetclover (*Melilotus officinalis*) and Siberian Peashrub (*Caragana arborescens*).

The resulting 16 species were thoroughly researched for crucial identification characteristics and for other species in the KLGO locale, native or exotic, that could easily be confused with the invasive species. Illustrations and sets of photographs at different life stages for all invasive species were identified and acquired for use in the field booklet. Illustrations and photographs for the similar species were obtained only for those characteristics used to discriminate them from the invasive species.

Full documentation of ownership and permissions for use were acquired for illustrations and photographs (Hamill and Furbish, 2022) and constitute the last part of this report.

Table 1. Chilkoot Trail invasive plants and nearby potential presence species, 2004-2017.

CHILKOOT TRAIL IPMT STATUS 2021		Skagway (SGY)- Dyea Road (DYRO) - Dyea Flats (DYEA) - Chilkoot Trail (KOOT)					
Recorded Presence	Scientific Name	Year Recorded (20XX)				Invasiveness Ranking	
		SKGY	DYRO	DYEA	KOOT	Common Name	Rank
Recorded Presence	Phalaris arundinacea L. (cultivar)	17	11		17	reed canarygrass	83
	Ranunculus acris L.	17	17	17	17	tall buttercup	60
	Trifolium repens L.	17	17	17	17	white clover	59
	Sorbus aucuparia L.	17	14	14	17	European mountain ash	59
	Elymus repens (L.) Gould	14	14	11	17	quackgrass	59
	Taraxacum officinale F.H. Wigg.	17	17	17	17	common dandelion	58
	Trifolium hybridum L.	17	17	17	14	alsike clover	57
	Poa pratensis L. ssp. pratensis			6	6	Kentucky bluegrass	52
	Rumex acetosella L.	17	17	17	14	common sheep sorrel	51
	Poa annua L.			11	11	annual bluegrass	46
	Plantago major L.	17	17	17	17	common plantain	44
Potential Presence	Impatiens glandulifera Royle	17				ornamental jewelweed	82
	Melilotus albus Medik.	14	11			white sweetclover	81
	Caragana arborescens Lam.	12		12		Siberian peashrub	74
	Prunus padus L.	12				European bird cherry	74
	Prunus virginiana L.	12				chokecherry	74
	Vicia cracca L. ssp. cracca	17				bird vetch	73
	Sonchus arvensis L.	10				field sowthistle	73
	Rosa rugosa Thunb.	12				rugosa rose	72
	Ranunculus repens L.	11		11		creeping buttercup	72
	Lupinus polyphyllus Lindl. ssp. polyphyllus			9		bigleaf lupine	71
	Melilotus officinalis (L.) Lam.	17	17	17		yellow sweetclover	69
	Linaria vulgaris Mill.	17	17	11		butter and eggs	69
	Lonicera tatarica L.	12				Tatarian honeysuckle	66
	Hordeum jubatum L.	10	10	10		foxtail barley	63
	Bromus inermis Leyss.		14	14		smooth brome	62
	Leucanthemum vulgare Lam.	17	17	17		oxeye daisy	61
	Tanacetum vulgare L.	17	17			common tansy	60
	Crepis tectorum L.	17	17	11		narrowleaf hawkbeard	56
	Phleum pratense L.	11	14	11		timothy	54
	Trifolium pratense L.	17	17	17		red clover	53
	Fallopia convolvulus (L.) Á. Löve	17		17		black bindweed	50
	Galeopsis bifida Boenn.	11				splitlip hempnettle	50
	Galeopsis tetrahit L.			6		brittlestem hempnettle	50
	Rumex crispus L.	17	17	11		curly dock	48
	Tripleurospermum inodorum (L.) Sch. Bip.	17	11			scentsless false mayweed	48
	Medicago lupulina L.	10				black medick	48
	Centaurea montana L.	12				perennial cornflower	46
	Polygonum aviculare L.	17	6	17		prostrate knotweed	45
	Euphrasia nemorosa (Pers.) Wallr.	17	17	17		common eyebright	42
	Silene noctiflora L.	17	11			nightflowering silene	42
	Stellaria media (L.) Vill.	17	10	17		common chickweed	42
	Silene vulgaris (Moench) Garcke		6	5		bladder campion	42
	Thlaspi arvense L.			11		field pennycress	42
	Hesperis matronalis L.	12				dames rocket	41
	Anthemis cotula L.	9				stinking chamomile	41
	Capsella bursa-pastoris (L.) Medik.	17	17	17		shepherd's purse	40
	Papaver croceum Ledeb.	9				Iceland poppy	39
	Cerastium fontanum Baumg. ssp. vulgare (Hartm.) Greuter & Burdet	11	11	6		big chickweed	36
	Senecio vulgaris L.	10	10	10		old-man-in-the-Spring	36
	Viola tricolor L.	11		11		johnny jumpup	34
Matricaria discoidea DC.	17	17	17		pineapple weed	32	
Lepidium densiflorum Schrad.	9				common pepperweed	25	
Lepidium densiflorum Schrad.	9				common pepperweed	25	
Senecio viscosus L.	17	11	17		sticky ragwort		
Chenopodium leptophyllum (Moq.) Nutt. ex S. Watson	11	6	6		narrowleaf goosefoot		
Collomia linearis Nutt.	9				tiny trumpet		
Sisymbrium altissimum L.	9				tall tumbled mustard		
Erysimum cheiranthoides L.		6	6		wormseed wallflower		
Potentilla brunnescens Rydb.			9		slender cinquefoil		

> 80 Extremely Invasive

70 - 79 Highly Invasive

60 - 69 Moderately Invasive

50 - 59 Modestly Invasive

40 - 49 Weakly Invasive

< 40 Very Weakly Invasive

Alaska State Invasiveness Ranking (Carlson et al. 2008)

Booklet Codes for Illustration Sources

FNA: Flora of North America (online)

Flora of North America Editorial Committee, eds. 1993+. *Flora of North America North of Mexico* [Online]. 22+ vols. New York and Oxford. Vol. 17. <http://floranorthamerica.org>

FPN: Flora of the Pacific Northwest

Hitchcock, C., L., and A. Cronquis. 1973. *Flora of the Pacific Northwest: an illustrated manual*. University of Washington Press.

NPS: National Park Service

National Park Service, Klondike Gold Rush National Historical Park, Skagway, Alaska.

NPT: Native Plant Trust, New England Wild Flower Society

Native Plant Trust, New England. Wild Flower Society. <https://gobotanynativeplanttrust.org>

Regents U-Cal: Regents of the University of California

Baldwin, B., G., D. H. Goldman, D. L. Kiel. R. Patterson. T. J. Rosatti, and Wilken, D. H. (eds). (2012). *The Jepson manual: vascular plants of California* (2nd ed.). University of California Press, Berkeley.

U-SFla: University of South Florida

Florida Center for Instructional Technology, ClipArt ETC collection
<https://etc.usf.edu/clipart>

UtahSU: Utah State University

Barkworth, M.E. *et al.* (eds). *Flora of North America North of Mexico* [Online]. Vol. 24. Oxford University Press, New York and Oxford. <http://floranorthamerica.org>

Booklet Codes for Photograph Sources

CAPH: CalPhotos—Regents of the University of California, Berkeley

CalPhotos. 2012. Regents of the University of California, Berkeley.
<https://calphotos.berkeley.edu/>

iNat: iNaturalist (inaturalist.org)

iNaturalist. n.d.. iNaturalist. California Academy of Sciences and National Geographic Society. <https://www.inaturalist.org>

SIG-CFIA: Seed Identification Guide, Canadian Food Inspection Agency

Seed Science and Technology Section, Saskatoon Laboratory, Canadian Food Inspection Agency. 2016. Seed identification guide, version 1.0. <https://inspection.canada.ca/plant-health/seeds/seed-testing-and-grading/seeds-identification/eng/1333136604307/1333136685768>

TGWD: Identification Tool to Weed Disseminules of California Central Valley Table Grape Production Areas

Walters, D. S. 2011. Identification tool to weed disseminules of California central valley table grape production areas. USDA APHIS PPQ CPHST Identification Technology Program. http://idtools.org/id/table_grape/weed-tool/key/index.htm

USDA: US Department of Agriculture, NRCS PLANTS Database

USDA, NRCS. 2022. PLANTS database. National Plant Data Team.
<https://plants.sc.egov.usda.gov/>

WNMU: Western New Mexico University Department of Natural Sciences and the Dale A. Zimmerman Herbarium

Kleinman, R., n.d. Vascular plants of the Gila wilderness. Western New Mexico University Department of Natural Sciences and the Dale A. Zimmerman Herbarium.
<http://web.wnmu.edu/academic/nspages/gilaflora/index.html>

Booklet Codes for Creative/Intellectual Ownership or Licenses

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Illustrators by Source

FNA: Flora of North America (online)

Alongi, B. (Illustrator). n.d. Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico [Online]. 22+ vols. New York and Oxford. Vol. 17.

Meyers, J. (Illustrator). n.d. Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico [Online]. 22+ vols. New York and Oxford. Vol. 3.

FPN: Flora of the Pacific Northwest

Hitchcock, C., L. & Cronquist, A. (1973). *Flora of the Pacific Northwest: an illustrated manual*. University of Washington Press.

NPS: National Park Service, illustrated by Laurel Mundy

Mundy, L. (Illustrator). 2022. *Invasive plants on the Chilkoot Trail, field identification tool*, 2022. National Park Service, Klondike Gold Rush National Historical Park, Skagway, Alaska.

NPT: Native Plant Trust, New England Wild Flower Society

Farnsworth, E. (Illustrator). 2022. Fruits: *Caragana arborescens*. Native Plant Trust, New England Wild Flower Society. <https://gobotanynativeplanttrust.org>

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UtahSU: Utah State University

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Table 2. Illustrations by booklet page.

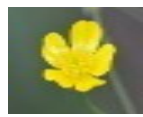
Page	Species	booklet attribution	full citation
3	Common Dandelion, <i>Taraxacum officinale</i> (F.H. Wigg)	©Regents U-Cal	Baldwin, B., G., Goldman, D., H., Kiel, D., L., Patterson, R., Rosatti, T. J., & Wilken, D. H. (eds). (2012). The Jepson manual: vascular plants of California (2nd ed.). University of California Press, Berkeley.
5	Yellow Toadflax, <i>Linaria vulgaris</i> (Mill.)	©2022 U-SFla	Mathews, F., S. (1902). Field book of American wild flowers. New York, NY: G. P. Putnam's Sons.
7	Tall Buttercup, <i>Ranunculus acris</i> (L.)	©FNA, John Meyers	Meyers, J. (Illustrator). <i>Ranunculus acris</i> in: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico [Online]. 22+ vols. New York and Oxford. Vol. 3. Accessed February 20, 2022. http://floranorthamerica.org/Ranunculus_acris
7	<i>Ranunculus uncinatus</i>	©1973 FPN	Hitchcock, C., L. & Cronquist, A. (1973). Flora of the Pacific Northwest: an illustrated manual. University of Washington Press.
9	Creeping Buttercup, <i>Ranunculus repens</i> (L.)	©1973 FPN	Hitchcock, C., L. & Cronquist, A. (1973). Flora of the Pacific Northwest: an illustrated manual. University of Washington Press.
11	White Sweetclover, <i>Melilotus albus</i> (Medik.)	©Regents U-Cal	Baldwin, B., G., Goldman, D., H., Kiel, D., L., Patterson, R., Rosatti, T. J., & Wilken, D. H. (eds). (2012). The Jepson manual: vascular plants of California (2nd ed.). University of California Press, Berkeley.
13	Yellow Sweetclover, <i>Melilotus officinalis</i> (L.)	©Regents U-Cal	Baldwin, B., G., Goldman, D., H., Kiel, D., L., Patterson, R., Rosatti, T. J., & Wilken, D. H. (eds). (2012). The Jepson manual: vascular plants of California (2nd ed.). University of California Press, Berkeley.
15	White Clover, <i>Trifolium repens</i> (L.)	©Regents U-Cal	Baldwin, B., G., Goldman, D., H., Kiel, D., L., Patterson, R., Rosatti, T. J., & Wilken, D. H. (eds). (2012). The Jepson manual: vascular plants of California (2nd ed.). University of California Press, Berkeley.
17	Alsike Clover, <i>Trifolium hybridum</i> (L.)	©2022 U-SFla	Mathews, F., S. (1902). Field book of American wild flowers. New York, NY: G. P. Putnam's Sons.
19	Common Plantain, <i>Plantago major</i> (L.)	©FNA, Barbara Alongi	Alongi, B. (Illustrator). <i>Plantago major</i> in: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico [Online]. 22+ vols. New York and Oxford. Vol. 17. Accessed February 20, 2022. http://floranorthamerica.org/Plantago_major
21	Common Sheep Sorrel, <i>Rumex acetosella</i> (L.)	©Regents U-Cal	Baldwin, B., G., Goldman, D., H., Kiel, D., L., Patterson, R., Rosatti, T. J., & Wilken, D. H. (eds). (2012). The Jepson manual: vascular plants of California (2nd ed.). University of California Press, Berkeley.
21	<i>Rumex occidentalis</i>	©NPS, Laurel Mundy	Mundy, L. (Illustrator). (2022). Invasive plants on the Chilkoot Trail field identification tool. National Park Service, Klondike Gold Rush National Historical Park, Skagway, Alaska.

Page	Species	booklet attribution	full citation
21	<i>Rumex salicifolius</i>	©NPS, Laurel Mundy	Mundy, L. (Illustrator). (2022). Invasive plants on the Chilkoot Trail field identification tool. National Park Service, Klondike Gold Rush National Historical Park, Skagway, Alaska.
21	<i>Rumex transitorius</i>	©NPS, Laurel Mundy	Mundy, L. (Illustrator). (2022). Invasive plants on the Chilkoot Trail field identification tool. National Park Service, Klondike Gold Rush National Historical Park, Skagway, Alaska.
23	European Mountain Ash, <i>Sorbus aucuparia</i> (L.)	©2022 U-SFla	Bailey, L. H. (1917). Standard cyclopedia of horticulture. New York, New York: The MacMillan Company.
25	Siberian Peashrub, <i>Caragana arborescens</i> (Lam.)	© NPT, Elizabeth Farnsworth	Farnsworth, E. (2022). Fruits: <i>Caragana arborescens</i> [Illustration]. Native Plant Trust, New England Wild Flower Society. Accessed March 2022. https://gobotany.nativeplanttrust.org/species/caragana/arborescens/
27	Reed Canarygrass, <i>Phalaris arundinacea</i> (L.)	©UtahSU, H. Pazdírková & L.A. Vorobik	Pazdírková, H. and Vorobik, L., A. (Illustrators). (2007). <i>Phalaris arundinacea</i> . In: Barkworth, M.E. et al. (eds). Flora of North America North of Mexico [Online]. Vol. 24. Oxford University Press, New York and Oxford. Accessed February 20, 2022. http://floranorthamerica.org/Phalaris_arundinacea
29	Kentucky Bluegrass, <i>Poa pratensis</i> spp. <i>Pratensis</i> (L.)	©Regents U-Cal	Baldwin, B., G., Goldman, D., H., Kiel, D., L., Patterson, R., Rosatti, T. J., & Wilken, D. H. (eds). (2012). The Jepson manual: vascular plants of California (2nd ed.). University of California Press, Berkeley.
31	Annual Bluegrass, <i>Poa annua</i> (L.)	©Regents U-Cal	Baldwin, B., G., Goldman, D., H., Kiel, D., L., Patterson, R., Rosatti, T. J., & Wilken, D. H. (eds). (2012). The Jepson manual: vascular plants of California (2nd ed.). University of California Press, Berkeley.
31	<i>Poa arctica</i> spp. <i>lantana</i>	©UtahSU, Sandy Long	Long, S. (Illustrator). (n.d.) <i>Poa arctica</i> subsp. <i>lanata</i> In: In: Barkworth, M.E. et al. (eds). Flora of North America North of Mexico [Online]. Vol. 24. Oxford University Press, New York and Oxford. Accessed February 20, 2022. http://floranorthamerica.org/Poa_arctica_subsp._lantana
31	<i>Poa leptocoma</i>	©1973 FPN	Hitchcock, C., L. & Cronquist, A. (1973). Flora of the Pacific Northwest: an illustrated manual. University of Washington Press.
33	Quackgrass, <i>Elymus repens</i> (L.) Gould	© UtahSU, C.Roché & A.Miller	Roché, C. and A. Miller, A. (Illustrators). (n.d.) <i>Elymus repens</i> In: In: Barkworth, M.E. et al. (eds). Flora of North America North of Mexico [Online]. Vol. 24. Oxford University Press, New York and Oxford. Accessed February 20, 2022. http://floranorthamerica.org/Elymus_repens
33	Quackgrass, <i>Elymus repens</i> (L.) Gould	©NPS, Laurel Mundy	Mundy, L. (Illustrator). (2022). Invasive plants on the Chilkoot Trail field identification tool. National Park Service, Klondike Gold Rush National Historical Park, Skagway, Alaska.
33	<i>Elymus glaucus</i>	©NPS, Laurel Mundy	Mundy, L. (Illustrator). (2022). Invasive plants on the Chilkoot Trail field identification tool. National Park Service, Klondike Gold Rush National Historical Park, Skagway, Alaska.

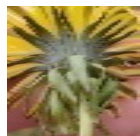
Page	Species	booklet attribution	full citation
33	<i>Elymus trachycalus</i>	©NPS, Laurel Mundy	Mundy, L. (Illustrator). (2022). Invasive plants on the Chilkoot Trail field identification tool. National Park Service, Klondike Gold Rush National Historical Park, Skagway, Alaska.
33	<i>Elymus violaceus</i>	©NPS, Laurel Mundy	Mundy, L. (Illustrator). (2022). Invasive plants on the Chilkoot Trail field identification tool. National Park Service, Klondike Gold Rush National Historical Park, Skagway, Alaska.

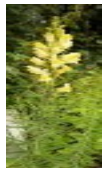
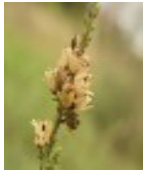
Table 3. Photographs by booklet page.

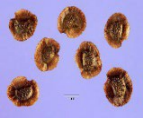
Page	Image	booklet label (plus description)	booklet attribution (with abbreviated permission text)	expanded attribution (expanded text)	full citation reference number	full citation weblink to source
	FRONT COVER					
Cover		n/a	(CC) BY-NC 4.0 Paul Marcum, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	3978121	https://www.inaturalist.org/photos/3978121
Cover		n/a	(CC) BY-NC 4.0 Marina Gorbunova, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	63603360	https://www.inaturalist.org/photos/63603360
Cover		n/a	(CC) BY-NC 4.0 David B. Richman, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	25505962	https://www.inaturalist.org/photos/25505962?size=original
Cover		n/a	(CC) BY-NC Oleg, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	180763319	https://www.inaturalist.org/photos/180763319
	CAUGHT IN BLOOM					
1		<i>Linaria vulgaris</i>	(PD) Nick V. Kurzenko, CAPH	(PD) = Public Domain per photographer, credit requested CAPH = CalPhotos - Regents of the University of California, Berkeley	0000 0000 0304 0414	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0304+0414
1		<i>Melilotus officinalis</i>	(CC) BY-NC 3.0 John Doyen, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, describe major alters (found at CAPH)	0000 0000 0217 2605	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0217+2605

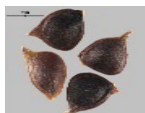
Page	Image	booklet label (plus description)	booklet attribution (with abbreviated permission text)	expanded attribution (expanded text)	full citation reference number	full citation weblink to source
1		<i>Caragana arborescens</i>	(CC) BY-NC hayleyeweb, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	176709567	https://www.inaturalist.org/photos/176709567?size=large
1		<i>Ranunculus repens</i>	(CC) BY 3.0 George Rembert, crop	(CC) BY = creative commons per photographer, credit photographer, give source (found at CAPH)	0000 0000 0505 0588	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0505+0588
1		<i>Taraxacum officinale</i>	© 2008 Kier Morse, (FU) CAPH	© = USA copyright (www.copyright.gov) (FU) = fair use thumbnail CalPhotos = Regents of the University of California, Berkeley	0000 0000 1108 0455	https://calphotos.berkeley.edu/cgi/img_query?where-kwid=0000+0000+1108+0455
1		<i>Ranunculus acris</i>	(CC) BY-NC Mart Hughes, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	39012638	https://www.inaturalist.org/photos/39012638
1		<i>Sorbus aucuparia</i>	(CC) BY Thomas Ebner, crop, iNat	(CC) BY = creative commons, credit photographer, give source iNat = iNaturalist	130919205	https://www.inaturalist.org/photos/130919205
1		<i>Trifolium repens</i>	© 2015 Barry Breckling, (FU) CAPH	© = USA copyright (www.copyright.gov) (FU) = fair use thumbnail CalPhotos = Regents of the University of California, Berkeley	0000 0000 0515 1905	https://calphotos.berkeley.edu/cgi/img_query?where-kwid=0000+0000+0515+1905

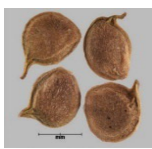
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1		<i>Melilotus albus</i>	(CC) BY-NC Krylenko VV, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	178826431	https://www.inaturalist.org/photos/178826431?size=large
1		<i>Trifolium hybridum</i>	(CC) BY-NC ellery_h, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	49938651	https://www.inaturalist.org/photos/49938651
1		<i>Trifolium hybridum</i>	(CC) BY-NC aemoor22, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	109305179	https://www.inaturalist.org/observations/109305179
1		<i>Plantago major</i>	(CC) BY-NC Kit Howard, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	54121080	https://www.inaturalist.org/photos/54121080
	COMMON DANDELION					
2		Common growth form	(CC) BY-NC aquayu, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	56095267	https://www.inaturalist.org/photos/56095267
2		Flower	© 2008 Kier Morse, (FU) CAPH	© = USA copyright (www.copyright.gov) (FU) = fair use thumbnail CalPhotos = Regents of the University of California, Berkeley	0000 0000 1108 0455	equals&where-kwid=0000+0000+1108+0455">https://calphotos.berkeley.edu/cgi/img_query?where-rel-kwid>equals&where-kwid=0000+0000+1108+0455

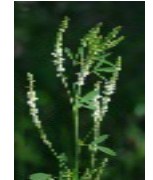
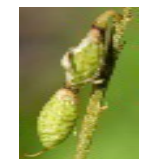
Page	Image	booklet label (plus description)	booklet attribution (with abbreviated permission text)	expanded attribution (expanded text)	full citation reference number	full citation weblink to source
2		Seed head	(CC) BY 3.0 George Rembert, crop, CAPH	(CC) BY = creative commons per photographer, credit photographer, give source (found at CAPH)	0000 0000 0405 0754	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0405+0754
2		Leaf variations	(CC) BY-NC 3.0 Zoya Akulova, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, describe major alters (found at CAPH)	0000 0000 0214 0691	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0214+0691
2		Immature growth form	(CC) BY-NC 4.0 Nick Brodin, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	61738038	https://www.inaturalist.org/photos/61738038
3		Seeds	(CC) BY 3.0 Jean Pawek, CAPH	(CC) BY = creative commons per photographer, credit photographer, give source (found at CAPH)	0000 0000 1113 0616	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+1113+0616
3		Invasive, <i>T. officinale</i>	(CC) BY-NC Madeskad, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	1020723110 no longer on site	https://www.inaturalist.org/photos/1020723110 (no longer on web site)
3		Native, <i>T. ceratophorum</i>	(CC) BY-NC 3.0 Steve Matson, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, give source, no commercial use (found at CAPH)	0000 0000 0816 0212	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0816+0212
3		Native, <i>T. lyratum</i>	(CC) BY-NC Pyak Andrei, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	96800530	https://www.inaturalist.org/photos/96800530

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3		Native, <i>T. alaskanum</i>	(CC) BY-NC jozien, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	88814833	https://www.inaturalist.org/photos/88814833
	YELLOW TOADFLAX					
4		Common growth form	(CC) BY-NC Nela Bartoníčková, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	78951884	https://www.inaturalist.org/photos/78951884?size=large
4		Flower	(PD) Nick Kurzenko, CAPH	(PD) = Public Domain per photographer, credit requested CAPH = CalPhotos - Regents of the University of California, Berkeley	0000 0000 0304 0414	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0304+0414
4		Fruiting body	© 2016 Kier Morse, (FU) CAPH	© = USA copyright (www.copyright.gov) (FU) = fair use thumbnail CalPhotos = Regents of the University of California, Berkeley	0000 1111 2222 2218	https://calphotos.berkeley.edu/cgi/img_query?where-kwid=0000+1111+2222+2218
4		Immature growth form	(CC) BY-NC beol, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	126652175	https://www.inaturalist.org/photos/126652175
4		Dried seed capules	(CC) BY-NC mobbini, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	56639204	https://www.inaturalist.org/photos/56639204?size=medium

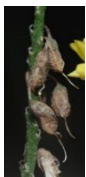
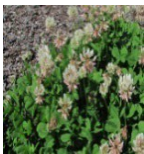
Page	Image	booklet label (plus description)	booklet attribution (with abbreviated permission text)	expanded attribution (expanded text)	full citation reference number	full citation weblink to source
5		Seeds	(PD) Steve Hurst, USDA	(PD) = public domain per photographer USDA = US Dept. of Agriculture, NRCS, PLANTS database	LIVU2	https://plants.usda.gov/home/plantProfile?symbol=LIVU2
5		Spurred flower shape	(CC) BY-NC Alexander Baransky, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	70867092	https://www.inaturalist.org/photos/70867092?size=large
	TALL BUTTERCUP					
6		Common growth form	(CC) BY-NC Oleg, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	180763319	https://www.inaturalist.org/photos/180763319
6		Flower	(CC) BY-NC Mart Hughes, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	39012638	https://www.inaturalist.org/photos/39012638?size=large
6		Seed head	(CC) BY Christian Berg, crop, iNat	(CC) BY = creative commons, credit photographer, give source iNat = iNaturalist	92613165	https://www.inaturalist.org/photos/92613165
6		Leaf shape	(CC) BY-NC anneschaef, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	24757376	https://www.inaturalist.org/photos/24757376
6		Immature growth form	(CC) BY-NC Aaron Hulsey, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	70571963	https://www.inaturalist.org/photos/70571963?size=large

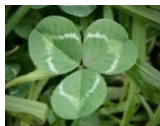
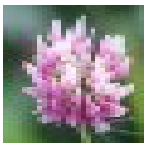
Page	Image	booklet label (plus description)	booklet attribution (with abbreviated permission text)	expanded attribution (expanded text)	full citation reference number	full citation weblink to source
7		Seeds	© 2014 SIG-CFIA	© = Canada copyright SIG-CFIA = Seed Identification Guide, Canadian Food Inspection Agency	1405359 978183	https://inspection.canada.ca/plant-health/seeds/seed-testing-and-grading/seeds-identification/ranunculuss-repens/eng/1405359977292/1405359978183
7		Native, <i>R. uncinatus</i> Terminal leaves...	(CC) BY-NC Mart Hughes, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	7721068	https://www.inaturalist.org/photos/7721068?size=large
7		Native, <i>R. uncinatus</i> Petals are separate	(CC) BY-NC Erin Kutzmarski, crop, iNat	(CC) BY-NC = creative commons, credit photographer, describe if alter, no commercial use iNat = iNaturalist	128748822	https://www.inaturalist.org/photos/128748822?size=large
7		Native, <i>R. uncinatus</i> ...long, curved tips...	(CC) BY-NC Alex Abair, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	7379740	https://www.inaturalist.org/photos/7379740
	CREeping BUTTERCUP					
8		Common growth form	(CC) BY-NC Pavel Kacil, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	132067584	https://www.inaturalist.org/photos/132067584
8		Flower	(CC) BY 3.0 George Rembert, crop, CAPH	(CC) BY = creative commons per photographer, credit photographer, give source (found at CAPH)	0000 0000 0505 0588	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0505+0588

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8		Seed head	(CC) BY Patrick Hacker, crop, iNat	(CC) BY = creative commons, credit photographer, give source iNat = iNaturalist	79855567	https://www.inaturalist.org/photos/79855567
8		Leaf shape	(CC) BY-NC aladiaz, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	179217035	https://www.inaturalist.org/photos/179217035?size=large
8		Immature growth form	(CC) BY-NC 3.0 Zoya Akulova, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, give source, no commercial use (found at CAPH)	0000 0000 0221 2647	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0221+2647
8		Seedling	(CC) BY-NC Dave, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	31213423	https://www.inaturalist.org/photos/31213423
9		Seeds	© 2014 SIG-CFIA	© = Canada copyright SIG-CFIA = Seed Identification Guide, Canadian Food Inspection Agency	1405359 978183	https://inspection.canada.ca/plant-health/seeds/seed-testing-and-grading/seeds-identification/ranunculuses-repens/eng/1405359977292/1405359978183
9		Native, <i>R. macounii</i>	(CC) BY-NC Tamar, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	143878742	https://www.inaturalist.org/photos/143878742?size=large
9		Invasive, <i>R. repens</i>	(CC) BY-NC DeeF, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	185776361	https://www.inaturalist.org/photos/185776361?size=original

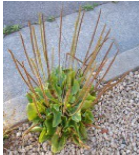
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9		Native, <i>R. gemelinii</i> (flower)	(CC) BY Quinten Wiegiersma, crop, iNat	(CC) BY = creative commons, credit photographer, give source iNat = iNaturalist	24092755	https://www.inaturalist.org/photos/24092755
9		Native, <i>R. gemelinii</i> (leaf)	(CC) BY-NC Jason Headley, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	107867484	https://www.inaturalist.org/photos/107867484
	WHITE SWEETCLOVER					
10		Common growth form	(CC) BY-NC Andy Fyon, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	55957733	https://www.inaturalist.org/photos/55957733
10		Flower	(CC) BY-NC Krylenko VV, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	178826431	https://www.inaturalist.org/photos/178826431?size=large
10		Fruit	(CC) BY-NC Вадим, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	110746261	https://www.inaturalist.org/photos/110746261?size=large
10		Dried fruit	(CC) BY-NC Pat Enright, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	6484162	https://www.inaturalist.org/photos/6484162?size=large
10		Leaf shape	(CC) BY-NC Krylenko VV, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	178826447	https://www.inaturalist.org/photos/178826447?size=large

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10		Immature growth form	(CC) BY-NC James, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	42397317	https://www.inaturalist.org/photos/42397317?size=large
11		Seeds	(PD) T.Walters & C.Southwick, TGWD	(PD) = public domain per photographers TGWD = Identification Tool to Weed Disseminules of California Central Valley Table Grape Production Areas	Mel-alb-seed	http://idtools.org/id/table_grape/weed-tool/key/GrapeSeedKey/Media/Html/fact_sheets/Mel-alb.html
11		Reticulately nerved fruit	(PD) T.Walters & C.Southwick, TGWD	(PD) = public domain per photographers TGWD = Identification Tool to Weed Disseminules of California Central Valley Table Grape Production Areas	Mel-alb-fruit	http://idtools.org/id/table_grape/weed-tool/key/GrapeSeedKey/Media/Html/fact_sheets/Mel-alb.html
	YELLOW SWEETCLOVER					
12		Common growth form	(CC) BY-NC Sergey Mayorov, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	79309154	https://www.inaturalist.org/photos/79309154?size=large
12		Flower	(CC) BY-NC Joey Santore, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	97588367	https://www.inaturalist.org/photos/97588367?size=large
12		Fruit	(CC) BY-NC petr_kosachev, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	107578099	https://www.inaturalist.org/photos/107578099?size=large

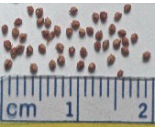
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12		Dried fruit	(CC) BY-NC Felix Riegel, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	109997391	https://www.inaturalist.org/photos/109997391?size=large
12		Leaf shape	(CC) BY-NC Irene Saltini, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	45347329	https://www.inaturalist.org/photos/45347329?size=large
13		no label	(CC) BY Ben Keen, iNat	(CC) BY = creative commons, credit photographer, give source iNat = iNaturalist	81279611	https://www.inaturalist.org/photos/81279611?size=large
13		Seeds	(CC) BY 3.0 Jean Pawek, CAPH	(CC) BY = creative commons per photographer, credit photographer, give source (found at CAPH)	0000 0000 1013 1891	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+1013+1891
	WHITE CLOVER					
14		Common growth form	(CC) BY-NC Gennadiy Okatov, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	64586864	https://www.inaturalist.org/photos/64586864?size=large
14		Additional flower color	© 2015 Barry Breckling, (FU) CAPH	© = USA copyright (www.copyright.gov) (FU) = fair use thumbnail CalPhotos = Regents of the University of California, Berkeley	0000 0000 0515 1905	https://calphotos.berkeley.edu/cgi/img_query?where=kwid=0000+0000+0515+1905

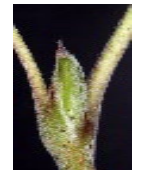
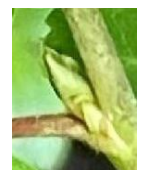
Page	Image	booklet label (plus description)	booklet attribution (with abbreviated permission text)	expanded attribution (expanded text)	full citation reference number	full citation weblink to source
14		Internal color variations	(CC) BY-NC Ashley M Bradford, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	63707799	https://www.inaturalist.org/photos/63707799?size=large
14		Dried seed head	(CC) BY-NC 3.0 Zoya Akulova, crop, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, describe major alters (found at CAPH)	0000 0000 0617 0675	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0617+0675
14		Leaf shape	(CC) BY Joselin Listur, crop, iNat	(CC) BY = creative commons per photographer, credit photographer, give source (found at iNat)	94695752	https://www.inaturalist.org/photos/94695752?size=large
15		Seeds	(CC) BY-NC 3.0 Zoya Akulova, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, describe major alters (found at CAPH)	0000 0000 0811 2245	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0811+2245
15		Roots at nodes	(CC) BY-NC fang2016, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	3355083	https://www.inaturalist.org/photos/3355083?size=original
	ALSIKE CLOVER					
16		Common growth form	(CC) BY-NC Zoya Akulova, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, describe major alters (found at CAPH)	0000 0000 1012 1279	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+1012+1279
16		Flower variations (bright pink)	(CC) BY-NC Dina Nesterkova, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	31043202	https://www.inaturalist.org/photos/31043202?size=large

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16		Flower variations (cream)	(CC) BY-NC jey42, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	81522010	https://www.inaturalist.org/photos/81522010
16		Flower variations (pale pink)	(CC) BY-NC lwtalp, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	86364154	https://www.inaturalist.org/photos/86364154
16		Dried seed head	(CC) BY-NC 3.0 Zoya Akulova, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, describe major alters (found at CAPH)	0000 0000 0619 0289	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0619+0289
16		Leaf variations (marked)	(CC) BY-NC 3.0 Zoya Akulova, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, describe major alters (found at CAPH)	0000 0000 0518 1242	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0518+1242
16		Leaf variations (unmarked)	© 2008 Kier Morse, (FU) CAPH	© = USA copyright (www.copyright.gov) (FU) = fair use thumbnail CalPhotos = Regents of the University of California, Berkeley	0000 0000 1108 0487	https://calphotos.berkeley.edu/cgi/img_query?where-kwid=0000+0000+1108+0487
16		Basal growth form	(CC) BY-NC Barbara L. Wilson, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	101151814	https://www.inaturalist.org/photos/101151814?size=large
17		Seeds	(CC) BY 3.0 Jean Pawek, CAPH	(CC) BY = creative commons per photographer, credit photographer, give source (found at CAPH)	0000 0000 1113 0642	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+1113+0642

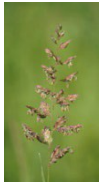
Page	Image	booklet label (plus description)	booklet attribution (with abbreviated permission text)	expanded attribution (expanded text)	full citation reference number	full citation weblink to source
17		Lack of rooting at branch nodes	(CC) BY-NC 3.0 Zoya Akulova, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, describe major alters (found at CAPH)	0000 0000 0817 2048	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0817+2048
	COMMON PLANTAIN					
18		Common growth form	(CC) BY-NC 3.0 Zoya Akulova, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, describe major alters (found at CAPH)	0000 0000 1110 0302	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+1110+0302
18		Flower	(CC) BY-NC Kit Howard, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	54121080	https://www.inaturalist.org/photos/54121080
18		Fruiting body	(CC) BY-NC Wyatt, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	48074077	https://www.inaturalist.org/photos/48074077
18		Leaf shape (top)	(CC) BY-NC Ilya Bogachyov, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	51991126	https://www.inaturalist.org/photos/51991126
18		Leaf shape (bottom)	(CC) BY-NC Ilya Bogachyov, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	51991130	https://www.inaturalist.org/photos/51991130
18		Immature growth form	(CC) BY-NC 3.0 Zoya Akulova, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, describe major alters (found at CAPH)	0000 0000 0117 3810	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0117+3810

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19		Seeds	(CC) BY 3.0 Jean Pawek, CAPH	(CC) BY = creative commons per photographer, credit photographer, give source (found at CAPH)	0000 0000 1013 1862	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+1013+1862
19		Native, <i>P. maritima</i>	(CC) BY-NC Andy Fyon, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	85968363	https://www.inaturalist.org/photos/85968363
19		Invasive, <i>P. major</i>	(CC) BY-NC Anna Kichapina, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	83013323	https://www.inaturalist.org/photos/83013323
	COMMON SHEEP SORREL					
20		Common growth form	(CC) BY-NC Andy Fyon, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	63170010	https://www.inaturalist.org/photos/63170010?size=large
20		Flower	© 2008 Kier Morse, (FU) CAPH	© = USA copyright (www.copyright.gov) (FU) = fair use thumbnail CalPhotos = Regents of the University of California, Berkeley	0000 0000 1108 0816	https://calphotos.berkeley.edu/cgi/img_query?where-kwid=0000+0000+1108+0816
20		Fruiting body	(CC) BY-NC James Bailey, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	43908872	https://www.inaturalist.org/photos/43908872?size=large

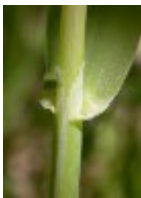
Page	Image	booklet label (plus description)	booklet attribution (with abbreviated permission text)	expanded attribution (expanded text)	full citation reference number	full citation weblink to source
20		Leaf shape	(CC) BY-NC Serge M. Appolonov, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	32124199	https://www.inaturalist.org/photos/32124199
20		Basal growth form	(CC) BY-NC Cailin O'Connor, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	25500449	https://www.inaturalist.org/photos/25500449
21		Seeds	(CC) BY 3.0 Jean Pawek, CAPH	(CC) BY = creative commons per photographer, credit photographer, give source (found at CAPH)	0000 0000 1113 0645	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+1113+0645
21		Invasive, <i>R. acetosella</i> Leaves hastate...	(CC) BY-NC Paolo Mazzei, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	67417422	https://www.inaturalist.org/photos/67417422
	EUROPEAN MOUNTAIN ASH					
22		Common growth form	(CC) BY-NC alina_surmach, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	186375753	https://www.inaturalist.org/photos/186375753?size=large
22		Flower	(CC) BY-NC Joanne Siderius, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	3643774	https://www.inaturalist.org/photos/3643774?size=original

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22		Fruit	(CC) BY-NC 3.0 Zoya Akulova, CAPH	(CC) BY-NC = creative commons per photographer, credit photographer, describe major alters (found at CAPH)	0000 0000 0117 2781	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0117+2781
22		Sapling	(CC) BY-NC Sonia Paź-Dyderska, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	122208256	https://www.inaturalist.org/photos/122208256
22		Leaflet arrangement	(CC) BY-NC les-caquous, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	18654084	https://www.inaturalist.org/photos/18654084
23		Native, <i>S. scopulina</i> bud	(PD) Russ Kleinman et al., WNMU	(PD) = public domain WNMU = Western New Mexico University Department of Natural Sciences and the Dale A. Zimmerman Herbarium	sorbus_scopulina	http://web.wnmu.edu/academic/nspages/gilaflora/sorbus_scopulina.html
23		Native, <i>S. scopulina</i> leaf	(CC) BY-NC bperdue, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	75838169	https://www.inaturalist.org/photos/75838169
23		Native, <i>S. sitchensis</i> bud	(CC) BY-NC tbakeror, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	141248475	https://www.inaturalist.org/photos/141248475?size=original
23		Native, <i>S. sitchensis</i> leaf	(CC) BY-NC Thomas Barbin, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	92730117	https://www.inaturalist.org/photos/92730117

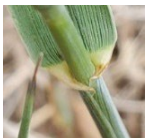
Page	Image	booklet label (plus description)	booklet attribution (with abbreviated permission text)	expanded attribution (expanded text)	full citation reference number	full citation weblink to source
23		Invasive, <i>S. aucuparia</i> bud	(CC) BY-NC Owen Clarkin, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	13932638	https://www.inaturalist.org/photos/13932638
23		Invasive, <i>S. aucuparia</i> leaf	(CC) BY-NC Aleksandr_Levon, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	179521564	https://www.inaturalist.org/photos/179521564?size=large
	SIBERIAN PEASHRUB					
24		Common growth form	(CC) BY-NC truewest. crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	79168439	https://www.inaturalist.org/photos/79168439
24		Flower	(CC) BY-NC hayleyeweb, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	176709567	https://www.inaturalist.org/photos/176709567?size=large
24		Fruit	(CC) BY-NC Mary Krieger, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	8630267	https://www.inaturalist.org/photos/8630267?size=large
24		Dried, split fruit pod	(CC) BY-NC Degtyarev Nikolai Ivanovic, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	64400252	https://www.inaturalist.org/photos/64400252

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24		Emerging leaf buds	(CC) BY-NC Serge M. Appolonov, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	34002039	https://www.inaturalist.org/photos/34002039
24		Leaflet arrangement	(CC) BY-NC eknuth, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	3665562	https://www.inaturalist.org/photos/3665562?size=large
25		Seeds	(CC) BY-NC Degtyarev Nikolai Ivanovich, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	64400257	https://www.inaturalist.org/photos/64400257
25		Spiny stipules	(CC) BY-NC Kutushev Radik, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	32039425	https://www.inaturalist.org/photos/32039425?size=large
	REED CANARY GRASS					
26		Common growth form	(CC) BY-NC Ольга Курякова, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	82867270	https://www.inaturalist.org/photos/82867270
26		Opened flower stem	(CC) BY-NC Sara Rall, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	133545522	https://www.inaturalist.org/photos/133545522?size=large
26		Dense flower stem	(CC) BY-NC wynaturalist, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	47127085	https://www.inaturalist.org/photos/47127085?size=large

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26		Spikelets	(CC) BY-NC wynaturalist, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	47127048	https://www.inaturalist.org/photos/47127048
26		Leaf shape	(CC) BY-NC Elise Heinen, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	53126161	https://www.inaturalist.org/photos/53126161?size=large
26		Leaf arrangement	(CC) BY-NC Elise Heinen, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	53126147	https://www.inaturalist.org/photos/53126147?size=large
27		Native, <i>Hordeum jublatum</i> spikelet	(CC) BY 3.0 Jean Pawek, CAPH	(CC) BY = creative commons per photographer, credit photographer, give source (found at CAPH)	0000 0000 0720 1974	https://calphotos.berkeley.edu/cgi/img_query?enlarge=0000+0000+0720+1974
27		Native, <i>Hordeum jublatum</i> ligule	(CC) BY-NC lae730, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	59493362	https://www.inaturalist.org/photos/95064367?size=original
27		Invasive, <i>Phalaris arundinacea</i> spikelet	© 2011 Steve Matson, (FU) CAPH	© = USA copyright (www.copyright.gov) (FU) = fair use thumbnail CalPhotos = Regents of the University of California, Berkeley	0000 0000 0311 3304	https://calphotos.berkeley.edu/cgi/img_query?seq_num=367265&one=T

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27		Invasive, <i>Phalaris arundinacea</i> ligule	© 2008 Kier Morse, (FU) CAPH	© = USA copyright (www.copyright.gov) (FU) = fair use thumbnail CalPhotos = Regents of the University of California, Berkeley	0000 0000 0208 0345	https://calphotos.berkeley.edu/cgi/img_query?seq_num=237099&one=T
	KENTUCKY BLUEGRASS					
28		Common growth form	(CC) BY Jim Morefield, crop, iNat	(CC) BY = creative commons per photographer, credit photographer, give source (found at iNat)	101800323	https://www.inaturalist.org/photos/101800323?size=large
28		Spikelets	(CC) BY-NC jim_keesling, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	58018822	https://www.inaturalist.org/photos/58018822?size=large
28		Dried seed head	(PD) Tracey Slotta, USDA	(PD) = public domain per photographer USDA = US Dept. of Agriculture, NRCS, PLANTS database	POPRP2	https://plants.sc.egov.usda.gov/home/plantProfile?symbol=POPRP2
28		Spikelet	(CC) BY-NC Andrey Zharkikh, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	167521629	https://www.inaturalist.org/photos/167521629
	ANNUAL BLUEGRASS					
30		Common growth form	(CC) BY-NC Татьяна Ильина, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	119487803	https://www.inaturalist.org/photos/119487803

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30		Spikelets	(CC) BY-NC fernsrfriends, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	169294347	https://www.inaturalist.org/photos/169294347?size=original
30		Leaves	(CC) BY-NC Kathryn Wells, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	186960769	https://www.inaturalist.org/photos/186960769?size=original
30		Early growth form	(CC) BY-NC Serhii Koniakin, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	185485806	https://www.inaturalist.org/photos/185485806?size=large
30		Spikelet	(PD) Doug Goldman, crop, USDA	(PD) = public domain per photographer USDA = US Dept. of Agriculture, NRCS, PLANTS database	POAN	https://plants.sc.egov.usda.gov/home/plantProfile?symbol=POAN
	QUACK GRASS					
32		Common growth form	(CC) BY-NC Eduard Garin, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	82022319	https://www.inaturalist.org/photos/82022319?size=large
32		Dried spikelets	(CC) BY-NC cassthorpe, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	157250139	https://www.inaturalist.org/photos/157250139?size=large
32		Spikelets	(CC) BY-NC Alexey P. Seregin, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	198572438	https://www.inaturalist.org/photos/198572438?size=original

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32		Closed spikelets	(CC) BY-NC Kutushev Radik, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	82280373	https://www.inaturalist.org/photos/82280373
32		Leaf arrangement	(CC) BY-NC Kutushev Radik, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	82280475	https://www.inaturalist.org/photos/82280475?size=large
32		Spikelet	(CC) BY-NC Chantel, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	80065386	https://www.inaturalist.org/photos/80065386?size=large
33		Pointed, protruding growths...	(CC) BY-NC Chantel, crop, iNat	(CC) BY-NC = creative commons, credit photographer, give source, no commercial use iNat = iNaturalist	80065351	https://www.inaturalist.org/photos/80065351?size=large

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1201 Oakridge Drive, Suite 150
Fort Collins, CO 80525