

Appendix E

Air Quality and Greenhouse Gas



Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad IS (Ascension Mtn. (3711978) OR Cherry Lake South (3711988) OR Lake Eleanor (3711987) OR Ackerson Mtn. (3711977) OR El Portal (3711967) OR Kinsley (3711968) OR Buckhorn Peak (3712061) OR Jawbone Ridge (3712071) OR Duckwall Mtn. (3712081))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Agrostis humilis</i> mountain bent grass	PMPOA040P0	None	None	G4Q	S2	2B.3
<i>Allium tribracteatum</i> three-bracted onion	PMLIL022D0	None	None	G2	S2	1B.2
<i>Allium yosemitense</i> Yosemite onion	PMLIL022L0	None	Rare	G3	S3	1B.3
<i>Anaxyrus canorus</i> Yosemite toad	AAABB01040	Threatened	None	G2G3	S2S3	SSC
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G5	S3	SSC
<i>Aplodontia rufa californica</i> Sierra Nevada mountain beaver	AMAF01013	None	None	G5T3T4	S2S3	SSC
<i>Atractelmis wawona</i> Wawona riffle beetle	IICOL58010	None	None	G1G3	S1S2	
<i>Balsamorhiza macrolepis</i> big-scale balsamroot	PDAST11061	None	None	G2	S2	1B.2
<i>Banksula tuolumne</i> Tuolumne cave harvestman	ILARA14090	None	None	G1	S1	
<i>Big Tree Forest</i> Big Tree Forest	CTT84250CA	None	None	G3	S3.2	
<i>Bombus caliginosus</i> obscure bumble bee	IIHYM24380	None	None	G4?	S1S2	
<i>Bombus crotchii</i> Crotch bumble bee	IIHYM24480	None	Candidate Endangered	G3G4	S1S2	
<i>Bombus occidentalis</i> western bumble bee	IIHYM24250	None	Candidate Endangered	G2G3	S1	
<i>Brasenia schreberi</i> watershield	PDCAB01010	None	None	G5	S3	2B.3
<i>Calicina conifera</i> Crane Flat harvestman	ILARAU8030	None	None	G1	S1	
<i>Carex limosa</i> mud sedge	PMCYP037K0	None	None	G5	S3	2B.2
<i>Carex tompkinsii</i> Tompkins' sedge	PMCYP03DR0	None	Rare	G3G4	S3S4	4.3
<i>Carex viridula ssp. viridula</i> green yellow sedge	PMCYP03EM5	None	None	G5T5	S2	2B.3



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Cinna bolanderi</i> Bolander's woodreed	PMPOA1H040	None	None	G2G3	S2S3	1B.2
<i>Clarkia australis</i> Small's southern clarkia	PDONA05040	None	None	G2	S2	1B.2
<i>Clarkia biloba ssp. australis</i> Mariposa clarkia	PDONA05051	None	None	G4G5T3	S3	1B.2
<i>Clarkia lingulata</i> Merced clarkia	PDONA050P0	None	Endangered	G1	S1	1B.1
<i>Corynorhinus townsendii</i> Townsend's big-eared bat	AMACC08010	None	None	G3G4	S2	SSC
<i>Diplacus pulchellus</i> yellow-lip pansy monkeyflower	PDSCR1B280	None	None	G2	S2	1B.2
<i>Empidonax traillii</i> willow flycatcher	ABPAE33040	None	Endangered	G5	S1S2	
<i>Emys marmorata</i> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<i>Eriophyllum congdonii</i> Congdon's woolly sunflower	PDAST3N030	None	Rare	G2	S2	1B.2
<i>Eriophyllum nubigenum</i> Yosemite woolly sunflower	PDAST3N0A0	None	None	G2	S2	1B.3
<i>Erythranthe filicaulis</i> slender-stemmed monkeyflower	PDSCR1B150	None	None	G2	S2	1B.2
<i>Erythronium taylorii</i> Pilot Ridge fawn lily	PMLIL0U0S0	None	None	G1	S1	1B.2
<i>Erythronium tuolumnense</i> Tuolumne fawn lily	PMLIL0U0H0	None	None	G2G3	S2S3	1B.2
<i>Euderma maculatum</i> spotted bat	AMACC07010	None	None	G4	S3	SSC
<i>Eumops perotis californicus</i> western mastiff bat	AMACD02011	None	None	G5T4	S3S4	SSC
<i>Falco peregrinus anatum</i> American peregrine falcon	ABNKD06071	Delisted	Delisted	G4T4	S3S4	FP
<i>Haliaeetus leucocephalus</i> bald eagle	ABNKC10010	Delisted	Endangered	G5	S3	FP
<i>Helminthoglypta allynsmithi</i> Merced Canyon shoulderband	IMGASC2020	None	None	G1	S1	
<i>Horkelia parryi</i> Parry's horkelia	PDR0S0W0C0	None	None	G2	S2	1B.2
<i>Hulsea brevifolia</i> short-leaved hulsea	PDAST4Z020	None	None	G3	S3	1B.2
<i>Hydromantes brunus</i> limestone salamander	AAAAD09010	None	Threatened	G2G3	S2S3	FP



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010	None	None	G5	S3S4	
<i>Lasiurus blossevillii</i> western red bat	AMACC05060	None	None	G5	S3	SSC
<i>Lasiurus cinereus</i> hoary bat	AMACC05030	None	None	G5	S4	
<i>Lewisia congonii</i> Congdon's lewisia	PDPOR04040	None	Rare	G2	S2	1B.3
<i>Lomatium congonii</i> Congdon's lomatium	PDAP11B0B0	None	None	G2	S2	1B.2
<i>Margaritifera falcata</i> western pearlshell	IMBIV27020	None	None	G4G5	S1S2	
<i>Mielichhoferia elongata</i> elongate copper moss	NBMUS4Q022	None	None	G5	S3S4	4.3
<i>Mielichhoferia shevockii</i> Shevock's copper moss	NBMUSA1010	None	None	G2	S2	1B.2
<i>Monadenia yosemitensis</i> Yosemite Mariposa sideband	IMGASZ3010	None	None	G1	S1S2	
<i>Myotis evotis</i> long-eared myotis	AMACC01070	None	None	G5	S3	
<i>Myotis thysanodes</i> fringed myotis	AMACC01090	None	None	G4	S3	
<i>Myotis volans</i> long-legged myotis	AMACC01110	None	None	G5	S3	
<i>Myotis yumanensis</i> Yuma myotis	AMACC01020	None	None	G5	S4	
<i>Navarretia miwukensis</i> Mi-Wuk navarretia	PDPLM0C210	None	None	G1G2	S1S2	1B.2
<i>Orthotrichum holzingeri</i> Holzinger's orthotrichum moss	NBMUS560E0	None	None	G3G4	S2	1B.3
<i>Pekania pennanti</i> fisher - West Coast DPS	AMAJF01021	None	Threatened	G5T2T3Q	S2S3	SSC
<i>Picoides arcticus</i> black-backed woodpecker	ABNYF07090	None	None	G5	S2	
<i>Plagiobothrys torreyi</i> var. <i>torreyi</i> Yosemite popcornflower	PDBOR0V152	None	None	G4T3Q	S3	1B.2
<i>Potamogeton epihydrus</i> Nuttall's ribbon-leaved pondweed	PMPOT03080	None	None	G5	S2S3	2B.2
<i>Potamogeton robbinsii</i> Robbins' pondweed	PMPOT030Z0	None	None	G5	S3	2B.3
<i>Rana boylei</i> foothill yellow-legged frog	AAABH01050	None	Candidate Threatened	G3	S3	SSC



Selected Elements by Scientific Name
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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Rana draytonii</i> California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
<i>Rana sierrae</i> Sierra Nevada yellow-legged frog	AAABH01340	Endangered	Threatened	G1	S1	WL
<i>Rhynchospora capitellata</i> brownish beaked-rush	PMCYP0N080	None	None	G5	S1	2B.2
<i>Schoenoplectus subterminalis</i> water bulrush	PMCYP0Q1G0	None	None	G4G5	S3	2B.3
<i>Stellaria obtusa</i> obtuse starwort	PDCAR0X0U0	None	None	G5	S4	4.3
<i>Strix nebulosa</i> great gray owl	ABNSB12040	None	Endangered	G5	S1	
<i>Stygobromus wengerorum</i> Wengerors' Cave amphipod	ICMAL05620	None	None	G1	S1	
<i>Tetrix sierrana</i> Sierra pygmy grasshopper	IIORT27010	None	None	G1G2	S1S2	
<i>Vulpes vulpes necator</i> Sierra Nevada red fox	AMAJA03012	Candidate	Threatened	G5T1T2	S1	

Record Count: 69



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:

May 05, 2020

Consultation Code: 08ESMF00-2020-SLI-0278

Event Code: 08ESMF00-2020-E-05604

Project Name: Yosemite Under Canvas

Subject: Updated list of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

Project Summary

Consultation Code: 08ESMF00-2020-SLI-0278

Event Code: 08ESMF00-2020-E-05604

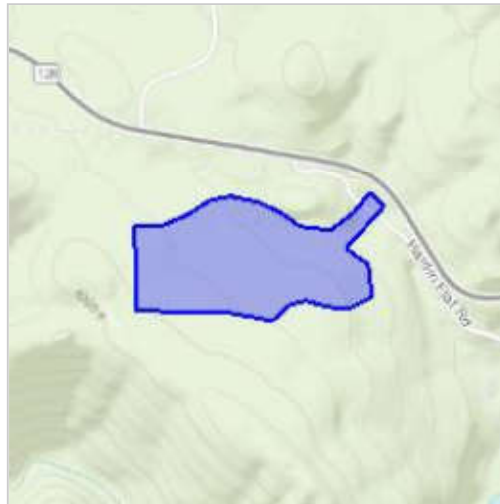
Project Name: Yosemite Under Canvas

Project Type: RECREATION CONSTRUCTION / MAINTENANCE

Project Description: "Glamping" project in Tuolumne County

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/37.81943129539806N119.9625538703454W>



Counties: Tuolumne, CA

Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Fisher <i>Pekania pennanti</i> Population: West coast DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3651	Proposed Threatened

Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891 Species survey guidelines: https://ecos.fws.gov/ipac/guideline/survey/population/205/office/11420.pdf	Threatened

Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/321	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

*The database used to provide updates to the Online Inventory is under construction. [View updates and changes made since May 2019 here.](#)

Plant List

51 matches found. [Click on scientific name for details](#)

Search Criteria

Found in Quads 3712081, 3711988, 3711987, 3712071, 3711978, 3711977, 3712061 3711968 and 3711967;

[Modify Search Criteria](#) [Export to Excel](#) [Modify Columns](#) [Modify Sort](#) [Display Photos](#)

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Agrostis humilis	mountain bent grass	Poaceae	perennial herb	Jul-Sep	2B.3	S2	G4Q
Allium sanbornii var. sanbornii	Sanborn's onion	Alliaceae	perennial bulbiferous herb	May-Sep	4.2	S3S4	G4T3T4
Allium tribracteatum	three-bracted onion	Alliaceae	perennial bulbiferous herb	Apr-Aug	1B.2	S2	G2
Allium yosemitense	Yosemite onion	Alliaceae	perennial bulbiferous herb	Apr-Jul	1B.3	S3	G3
Balsamorhiza macrolepis	big-scale balsamroot	Asteraceae	perennial herb	Mar-Jun	1B.2	S2	G2
Bolandra californica	Sierra bolandra	Saxifragaceae	perennial herb	Jun-Jul	4.3	S4	G4
Brasenia schreberi	watershield	Cabombaceae	perennial rhizomatous herb (aquatic)	Jun-Sep	2B.3	S3	G5
Bulbostylis capillaris	thread-leaved beakseed	Cyperaceae	annual herb	Jun-Aug	4.2	S3	G5
Carex buxbaumii	Buxbaum's sedge	Cyperaceae	perennial rhizomatous herb	Mar-Aug	4.2	S3	G5
Carex limosa	mud sedge	Cyperaceae	perennial rhizomatous herb	Jun-Aug	2B.2	S3	G5
Carex tompkinsii	Tompkins' sedge	Cyperaceae	perennial rhizomatous herb	May-Jul	4.3	S3S4	G3G4
Carex viridula ssp. viridula	green yellow sedge	Cyperaceae	perennial herb	(Jun)Jul-Sep(Nov)	2B.3	S2	G5T5
		Rhamnaceae		May-Jul	4.3	S4	G4

<u>Ceanothus fresnensis</u>	Fresno ceanothus		perennial evergreen shrub				
<u>Cinna bolanderi</u>	Bolander's woodreed	Poaceae	perennial herb	Jul-Sep	1B.2	S2S3	G2G3
<u>Clarkia australis</u>	Small's southern clarkia	Onagraceae	annual herb	May-Aug	1B.2	S2	G2
<u>Clarkia biloba ssp. australis</u>	Mariposa clarkia	Onagraceae	annual herb	Apr-Jul	1B.2	S3	G4G5T3
<u>Clarkia lingulata</u>	Merced clarkia	Onagraceae	annual herb	May-Jun	1B.1	S1	G1
<u>Clarkia virgata</u>	Sierra clarkia	Onagraceae	annual herb	May-Aug	4.3	S3	G3
<u>Claytonia parviflora ssp. grandiflora</u>	streambank spring beauty	Montiaceae	annual herb	Feb-May	4.2	S3	G5T3
<u>Cordylanthus rigidus ssp. brevibracteatus</u>	short-bracted bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	Jul-Aug(Oct)	4.3	S3	G5T3
<u>Cypripedium montanum</u>	mountain lady's-slipper	Orchidaceae	perennial rhizomatous herb	Mar-Aug	4.2	S4	G4
<u>Diplacus pulchellus</u>	yellow-lip pansy monkeyflower	Phrymaceae	annual herb	Apr-Jul	1B.2	S2	G2
<u>Eriophorum gracile</u>	slender cottongrass	Cyperaceae	perennial rhizomatous herb (emergent)	May-Sep	4.3	S4	G5
<u>Eriophyllum congdonii</u>	Congdon's woolly sunflower	Asteraceae	annual herb	Apr-Jun	1B.2	S2	G2
<u>Eriophyllum nubigenum</u>	Yosemite woolly sunflower	Asteraceae	annual herb	May-Aug	1B.3	S2	G2
<u>Erythranthe filicaulis</u>	slender-stemmed monkeyflower	Phrymaceae	annual herb	Apr-Aug	1B.2	S2	G2
<u>Erythranthe inconspicua</u>	small-flowered monkeyflower	Phrymaceae	annual herb	May-Jun	4.3	S4	G4
<u>Erythranthe laciniata</u>	cut-leaved monkeyflower	Phrymaceae	annual herb	Apr-Jul	4.3	S4	G4
<u>Erythronium taylorii</u>	Pilot Ridge fawn lily	Liliaceae	perennial bulbiferous herb	Apr-May	1B.2	S1	G1
<u>Erythronium tuolumnense</u>	Tuolumne fawn lily	Liliaceae	perennial bulbiferous herb	Mar-Jun	1B.2	S2S3	G2G3
<u>Horkelia parryi</u>	Parry's horkelia	Rosaceae	perennial herb	Apr-Sep	1B.2	S2	G2
<u>Hulsea brevifolia</u>	short-leaved hulsea	Asteraceae	perennial herb	May-Aug	1B.2	S3	G3
<u>Jensia yosemitana</u>	Yosemite tarplant	Asteraceae	annual herb	(Apr)May-Jul	3.2	S3	G3
<u>Lewisia congdonii</u>	Congdon's lewisia	Montiaceae	perennial herb	Apr-Jun	1B.3	S2	G2
<u>Lomatium congdonii</u>	Congdon's lomatium	Apiaceae	perennial herb	Mar-Jun	1B.2	S2	G2
<u>Lupinus spectabilis</u>	shaggyhair lupine	Fabaceae	annual herb	Apr-May	1B.2	S2	G2
<u>Lycopus uniflorus</u>		Lamiaceae	perennial herb	Jul-Sep	4.3	S4	G5

	northern bugleweed						
<u>Mielichhoferia elongata</u>	elongate copper moss	Mielichhoferiaceae	moss		4.3	S4	G5
<u>Mielichhoferia shevockii</u>	Shevock's copper moss	Mielichhoferiaceae	moss		1B.2	S2	G2
<u>Orthotrichum holzingeri</u>	Holzinger's orthotrichum moss	Orthotrichaceae	moss		1B.3	S2	G3
<u>Piperia colemanii</u>	Coleman's rein orchid	Orchidaceae	perennial herb	Jun-Aug	4.3	S4	G4
<u>Plagiobothrys torreyi var. perplexans</u>	chaparral popcornflower	Boraginaceae	annual herb	Apr-Sep	4.3	S3?	G4T3?
<u>Plagiobothrys torreyi var. torreyi</u>	Yosemite popcornflower	Boraginaceae	annual herb	Apr-Jun	1B.2	S3	G4T3Q
<u>Potamogeton epiphydrus</u>	Nuttall's ribbon- leaved pondweed	Potamogetonaceae	perennial rhizomatous herb (aquatic)	(Jun)Jul- Sep	2B.2	S2S3	G5
<u>Potamogeton robbinsii</u>	Robbins' pondweed	Potamogetonaceae	perennial rhizomatous herb (aquatic)	Jul-Aug	2B.3	S3	G5
<u>Pseudostellaria sierrae</u>	Sierra starwort	Caryophyllaceae	perennial rhizomatous herb	May-Aug	4.2	S3	G3G4
<u>Rhynchospora californica</u>	California beaked-rush	Cyperaceae	perennial rhizomatous herb	May-Jul	1B.1	S1	G1
<u>Rhynchospora capitellata</u>	brownish beaked-rush	Cyperaceae	perennial herb	Jul-Aug	2B.2	S1	G5
<u>Schoenoplectus subterminalis</u>	water bulrush	Cyperaceae	perennial rhizomatous herb (aquatic)	Jun- Aug(Sep)	2B.3	S3	G4G5
<u>Stellaria obtusa</u>	obtuse starwort	Caryophyllaceae	perennial rhizomatous herb	May- Sep(Oct)	4.3	S4	G5
<u>Wyethia elata</u>	Hall's wyethia	Asteraceae	perennial herb	May-Aug	4.3	S4	G4

Suggested Citation

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Questions and Comments

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