

SUPPLEMENTARY MATERIAL 1. List of species included in the traits data set at the time of publication.

Scientific name	Family	Habit	Native status
<i>Abronia elliptica</i>	Nyctaginaceae	Forb	Native
<i>Acacia greggii</i>	Fabaceae	Tree	Native
<i>Acer negundo</i>	Sapindaceae	Tree	Native
<i>Achnatherum hymenoides</i>	Poaceae	Grass	Native
<i>Agrostis exarata</i>	Poaceae	Grass	Native
<i>Agrostis stolonifera</i>	Poaceae	Grass	Introduced
<i>Alhagi maurorum</i>	Fabaceae	Shrub	Introduced
<i>Allionia incarnata</i>	Nyctaginaceae	Forb	Native
<i>Andropogon gerardii</i>	Poaceae	Grass	Native
<i>Andropogon glomeratus</i>	Poaceae	Grass	Native
<i>Apocynum cannabinum</i>	Apocynaceae	Forb	Native
<i>Argythamnia neomexicana</i>	Euphorbiaceae	Forb	Native
<i>Aristida arizonica</i>	Poaceae	Grass	Native
<i>Aristida purpurea</i>	Poaceae	Grass	Native
<i>Artemisia dracunculus</i>	Asteraceae	Forb	Native
<i>Artemisia ludoviciana</i>	Asteraceae	Forb	Native
<i>Artemisia tridentata</i>	Asteraceae	Shrub	Native
<i>Atriplex canescens</i>	Poaceae	Shrub	Native
<i>Astragalus nuttalianus</i>	Fabaceae	Forb	Native
<i>Atriplex canescens</i>	Amaranthaceae	Shrub	Native
<i>Baccharis brachyphylla</i>	Asteraceae	Shrub	Native
<i>Baccharis emoryi</i>	Asteraceae	Shrub	Native
<i>Baccharis salicifolia</i>	Asteraceae	Shrub	Native
<i>Baccharis sarothroides</i>	Asteraceae	Shrub	Native
<i>Baccharis sergiloides</i>	Asteraceae	Shrub	Native
<i>Bebbia juncea</i>	Asteraceae	Shrub	Native
<i>Boehmeria cylindrica</i>	Urticaceae	Forb	Native
<i>Boerhavia intermedia</i>	Nyctaginaceae	Forb	Native
<i>Boerhavia wrightii</i>	Nyctaginaceae	Forb	Native
<i>Bothriochloa barbinodis</i>	Poaceae	Grass	Native
<i>Bouteloua aristidoides</i>	Poaceae	Grass	Native
<i>Bouteloua barbata</i>	Poaceae	Grass	Native
<i>Brickellia californica</i>	Asteraceae	Shrub	Native
<i>Brickellia longifolia</i>	Asteraceae	Shrub	Native
<i>Bromus arvensis</i>	Poaceae	Grass	Introduced
<i>Bromus catharticus</i>	Poaceae	Grass	Introduced
<i>Bromus diandrus</i>	Poaceae	Grass	Introduced
<i>Bromus rubens</i>	Poaceae	Grass	Introduced
<i>Bromus tectorum</i>	Poaceae	Grass	Introduced
<i>Calystegia longipes</i>	Convolvulaceae	Forb	Native
<i>Carex emoryi</i>	Cyperaceae	Sedge	Native
<i>Celtis laevigata</i> var. <i>reticulata</i>	Cannabaceae	Tree	Native
<i>Centaurea calcitrapa</i>	Asteraceae	Forb	Introduced
<i>Centaurium arizonicum</i>	Gentianaceae	Forb	Native
<i>Cercis orbiculata</i>	Fabaceae	Tree	Native
<i>Chamaesyce glyptosperma</i>	Euphorbiaceae	Forb	Native
<i>Chloracantha spinosa</i>	Asteraceae	Forb	Native
<i>Chrysothamnus viscidiflorus</i>	Asteraceae	Shrub	Native
<i>Conyza canadensis</i>	Asteraceae	Forb	Introduced
<i>Cucurbita foetidissima</i>	Cucurbitaceae	Forb	Native
<i>Cynodon dactylon</i>	Poaceae	Grass	Introduced
<i>Dasyochloa pulchella</i>	Poaceae	Grass	Native
<i>Datura wrightii</i>	Solanaceae	Forb	Native
<i>Dicoria canescens</i>	Asteraceae	Forb	Native
<i>Digitaria californica</i>	Poaceae	Grass	Native
<i>Digitaria sanguinalis</i>	Poaceae	Grass	Introduced
<i>Distichlis spicata</i>	Poaceae	Grass	Native
<i>Echinocactus polycephalus</i>	Cactaceae	Succulent	Native
<i>Echinochloa crus-galli</i>	Poaceae	Grass	Introduced
<i>Elaeagnus angustifolia</i>	Elaeagnaceae	Tree	Introduced
<i>Eleocharis palustris</i>	Cyperaceae	Rush	Native
<i>Eleocharis rostellata</i>	Cyperaceae	Rush	Native
<i>Elymus canadensis</i>	Poaceae	Grass	Native

SUPPLEMENTARY MATERIAL 1. Continued.

Scientific name	Family	Habit	Native status
<i>Elymus elymoides</i>	Poaceae	Grass	Native
<i>Elymus trachycaulus</i>	Poaceae	Grass	Native
<i>Encelia farinosa</i>	Asteraceae	Shrub	Native
<i>Enneapogon desvauxii</i>	Poaceae	Grass	Native
<i>Ephedra nevadensis</i>	Ephedraceae	Shrub	Native
<i>Ephedra torreyana</i>	Ephedraceae	Shrub	Native
<i>Ephedra viridis</i>	Ephedraceae	Shrub	Native
<i>Equisetum arvense</i>	Equisetaceae	Forb	Native
<i>Equisetum hyemale</i>	Equisetaceae	Forb	Native
<i>Eragrostis cilianensis</i>	Poaceae	Grass	Introduced
<i>Eragrostis curvula</i>	Poaceae	Grass	Introduced
<i>Eragrostis lehmanniana</i>	Poaceae	Grass	Introduced
<i>Eragrostis pectinacea</i>	Poaceae	Grass	Native
<i>Ericameria nauseosa</i>	Asteraceae	Shrub	Native
<i>Eriogonum inflatum</i>	Polygonaceae	Forb	Native
<i>Erodium cicutarium</i>	Geraniaceae	Forb	Introduced
<i>Euthamia occidentalis</i>	Asteraceae	Forb	Native
<i>Fallugia paradoxa</i>	Rosaceae	Shrub	Native
<i>Festuca thurberi</i>	Poaceae	Grass	Native
<i>Fraxinus velutina</i>	Oleaceae	Tree	Native
<i>Funastrum cynanchoides</i>	Apocynaceae	Forb	Native
<i>Gutierrezia microcephala</i>	Asteraceae	Shrub	Native
<i>Gutierrezia sarothrae</i>	Asteraceae	Shrub	Native
<i>Hesperostipa comata</i>	Poaceae	Grass	Native
<i>Hordeum jubatum</i>	Poaceae	Grass	Native
<i>Imperata brevifolia</i>	Poaceae	Grass	Native
<i>Isocoma acradenia</i>	Asteraceae	Shrub	Native
<i>Juncus acutus</i>	Juncaeae	Rush	Native
<i>Juncus arcticus</i>	Juncaeae	Rush	Native
<i>Juncus articulatus</i>	Juncaeae	Rush	Native
<i>Juncus bufonius</i>	Juncaeae	Rush	Native
<i>Juncus confusus</i>	Juncaeae	Rush	Native
<i>Juncus ensifolius</i>	Juncaeae	Rush	Native
<i>Juncus nevadensis</i>	Juncaeae	Rush	Native
<i>Juncus torreyi</i>	Juncaeae	Rush	Native
<i>Juncus xiphoides</i>	Juncaeae	Rush	Native
<i>Kallstroemia californica</i>	Zygophyllaceae	Forb	Native
<i>Lactuca serriola</i>	Asteraceae	Forb	Introduced
<i>Larrea tridentata</i>	Zygophyllaceae	Shrub	Native
<i>Lepidium fremontii</i>	Brassicaceae	Shrub	Native
<i>Lepidium latifolium</i>	Brassicaceae	Forb	Introduced
<i>Lolium perenne</i>	Poaceae	Grass	Introduced
<i>Lotus wrightii</i>	Fabaceae	Forb	Native
<i>Lycium pallidum</i>	Solanaceae	Shrub	Native
<i>Machaeranthera canescens</i>	Asteraceae	Forb	Native
<i>Machaeranthera pinnatifida</i>	Asteraceae	Forb	Native
<i>Mammillaria grahamii</i>	Cactaceae	Succulent	Native
<i>Melilotus officinalis</i>	Fabaceae	Forb	Introduced
<i>Mentha arvensis</i>	Lamiaceae	Forb	Native
<i>Mimulus guttatus</i>	Scrophulariaceae	Forb	Native
<i>Mirabilis multiflora</i>	Nyctaginaceae	Forb	Native
<i>Muhlenbergia asperifolia</i>	Poaceae	Grass	Native
<i>Muhlenbergia microsperma</i>	Poaceae	Grass	Native
<i>Muhlenbergia pauciflora</i>	Poaceae	Grass	Native
<i>Muhlenbergia porteri</i>	Poaceae	Grass	Native
<i>Oenothera elata</i>	Onagraceae	Forb	Native
<i>Oenothera pallida</i>	Onagraceae	Forb	Native
<i>Panicum capillare</i>	Poaceae	Grass	Native
<i>Panicum obtusum</i>	Poaceae	Grass	Native
<i>Pascopyrum smithii</i>	Poaceae	Grass	Native
<i>Perityle emoryi</i>	Asteraceae	Forb	Native
<i>Phragmites australis</i>	Poaceae	Grass	Native
<i>Piptatherum millicium</i>	Poaceae	Grass	Introduced

SUPPLEMENTARY MATERIAL 1. Continued.

Scientific name	Family	Habit	Native status
<i>Plantago lanceolata</i>	Plantaginaceae	Forb	Introduced
<i>Plantago major</i>	Plantaginaceae	Forb	Introduced
<i>Plantago ovata</i>	Plantaginaceae	Forb	Native
<i>Plantago patagonica</i>	Plantaginaceae	Forb	Native
<i>Pleuraphis jamesii</i>	Poaceae	Grass	Native
<i>Pleuraphis rigida</i>	Poaceae	Grass	Native
<i>Pluchea sericea</i>	Asteraceae	Shrub	Native
<i>Poa pratensis</i>	Poaceae	Grass	Introduced
<i>Polypogon monspeliensis</i>	Poaceae	Grass	Introduced
<i>Polypogon viridis</i>	Poaceae	Grass	Introduced
<i>Populus fremontii</i>	Salicaceae	Tree	Native
<i>Porophyllum gracile</i>	Asteraceae	Shrub	Native
<i>Portulaca oleracea</i>	Portulacaceae	Forb	Introduced
<i>Prosopis glandulosa</i>	Fabaceae	Tree	Native
<i>Pseudognaphalium luteoalbum</i>	Asteraceae	Forb	Introduced
<i>Pseudognaphalium stramineum</i>	Asteraceae	Forb	Native
<i>Quercus turbinella</i>	Fagaceae	Shrub	Native
<i>Rumex crispus</i>	Polygonaceae	Forb	Introduced
<i>Salix exigua</i>	Salicaceae	Shrub	Native
<i>Salix goodingii</i>	Salicaceae	Tree	Native
<i>Salsola tragus</i>	Amaranthaceae	Forb	Introduced
<i>Sanvitalia abertii</i>	Asteraceae	Forb	Native
<i>Schedonorus arundinaceus</i>	Poaceae	Grass	Introduced
<i>Schismus arabicus</i>	Poaceae	Grass	Introduced
<i>Schizachyrium scoparium</i>	Poaceae	Grass	Native
<i>Schoenoplectus acutus</i>	Cyperaceae	Rush	Native
<i>Schoenoplectus americanus</i>	Cyperaceae	Rush	Native
<i>Schoenoplectus pungens</i>	Cyperaceae	Rush	Native
<i>Setaria grisebachii</i>	Poaceae	Grass	Native
<i>Sonchus asper</i>	Asteraceae	Forb	Introduced
<i>Sonchus oleraceus</i>	Asteraceae	Forb	Introduced
<i>Sporobolus airoides</i>	Poaceae	Grass	Native
<i>Sporobolus contractus</i>	Poaceae	Grass	Native
<i>Sporobolus cryptandrus</i>	Poaceae	Grass	Native
<i>Sporobolus flexuosus</i>	Poaceae	Grass	Native
<i>Sporobolus giganteus</i>	Poaceae	Grass	Native
<i>Stanleya pinnata</i>	Brassicaceae	Shrub	Native
<i>Stephanomeria pauciflora</i>	Asteraceae	Shrub	Native
<i>Suaeda suffrutescens</i>	Amaranthaceae	Shrub	Native
<i>Symphotrichum subulatum</i>	Asteraceae	Forb	Native
<i>Tamarix ramosissima</i>	Tamaricaceae	Tree	Introduced
<i>Taraxacum officinale</i>	Asteraceae	Forb	Introduced
<i>Thymophylla pentachaeta</i>	Asteraceae	Forb	Native
<i>Tribulus terrestris</i>	Zygophyllaceae	Forb	Introduced
<i>Trixis californica</i>	Asteraceae	Shrub	Native
<i>Typha domingensis</i>	Typhaceae	Forb	Native
<i>Typha latifolia</i>	Typhaceae	Forb	Native
<i>Verbena bracteata</i>	Verbenaceae	Forb	Native
<i>Veronica americana</i>	Plantaginaceae	Forb	Native
<i>Veronica anagalis-aquatica</i>	Plantaginaceae	Forb	Native
<i>Vulpia octoflora</i>	Poaceae	Grass	Native
<i>Wislizenia refracta</i>	Cleomaceae	Forb	Native
<i>Xanthium strumarium</i>	Asteraceae	Forb	Native