

# **Lake Powell Pipeline Project Draft Environmental Impact Statement**

## **Supplement Number 1 Vegetation: Species of Tribal Concern**

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This LPP Supplement number one provides new data and analysis regarding the cultural importance of the traditional use plants, the nature of ethnobotany as ethnographic study, the methodology used here to determine which traditional plants and plant communities are within the LPP APE, and a table of plants organized by science, common, and Southern Paiute names.

This is an analysis of Southern Paiute plants found along the LPP APE, prepared for Project Lead Rick Baxter and Vegetation Resource Specialist Tom Davidowicz of the Bureau of Reclamation. The Southern Paiute Advisory Committee (SPAC) completed this document with assistance from researchers from the Bureau of Applied Research in Anthropology, School of Anthropology within the University of Arizona (UArizona). In total there are 391 identified Southern Paiute plants in the immediate region of the LPP. We are confident that 138 of these plants are in the LPP APE. Additionally, there are some variations in number and types of plants present in the Southern Alternative and Highway Alternative for the LPP. Of the 138 Southern Paiute plants in the LPP APE, 44 were observed in the Southern Alternative APE, and 61 were observed in the Highway Alternative APE. Of these, 27 plants are identified in both alternatives, whereas the Southern Alternative contains 17 plants not observed in the Highway Alternative, and the Highway Alternative contains 34 plants not observed in the Southern Alternative. The analysis does not measure the cultural significance of these plants but such an analysis would be useful.

The following Table 1 presents new data and analysis.

**Table 1 Southern Paiute Plant Analysis**

Condition	Total
Identified Southern Paiute Plants in the Region	391
Identified Southern Paiute Plants Observed in the APE	138
Identified Southern Paiute Plants Observed in the Southern Alternative APE	44
Identified Southern Paiute Plants Observed in the Highway Alternative APE	61
Identified Southern Paiute Plants Exclusively in the Southern Alternative APE	17
Identified Southern Paiute Plants Exclusively in the Highway Alternative APE	34

Source: SPAC 2010, SPAC 2011, Stoffle et al. 1999a, Stoffle et al. 1999b, Stoffle et al. 2019

### **Ethnography of Southern Paiute Plants**

Ethnobotany involves understanding the significance of traditional plants in the collective belief systems of a people who share a cultural relationship with botanical resources, plant communities, and areas where plants have grown for generations or even thousands of years. Ethnographic studies of plants and people document culturally complex relationships that have co-developed as people and plants have lived together and come to understand each other; a process called co-adaptation. In cases of ancient relationships both the people's lives and culture and the biocomplexity and biodiversity of plants and their communities are mutually modified.

Southern Paiute traditional use plants must be understood in the context of Southern Paiute culture and their presence in these aboriginal Southern Paiute lands since Time Immemorial. Southern Paiute people recognize plants as living beings with agency and residents of this land. Having provided for Indian people in the region since time immemorial, the relationship between plants and the Southern Paiute people is deeply rooted in historical occupation and use. That relationship is a two-way system

in which the Southern Paiute people acknowledges their role as stewards of plants and the plants recognize their role in protecting, curing, and bringing balance to people.

Traditional plant knowledge, or *puchuxwavaats uapi* (literally translates to know about plants), is highly valued in Southern Paiute culture (Stoffle et al. 1999b). This type of knowledge is intimate and an important resource for survival; it is essential to their transhumant adaptive strategy (Stoffle and Evans 1976) and conducive to living and thriving in semiarid desert ecosystems. Through transmission via oral history, the cultural continuity of plant knowledge documents the long-term occupation of Southern Paiute traditional lands—their place of origin. These traditional use plants continue to be used by Southern Paiute people for food, medicine, crafts, and ceremonies today as they have for over 10,000 years.

Plants are also a natural resource who (because they are beings) contribute to the meaning and cultural importance of place. For example, the Tribe deemed an area in the LPP APE to the east of the Hurricane Cliffs in Gould's Pond Basin as an area of critical plant habitat due to the abundant concentration of important use plants (SPAC 2010; SPAC 2011). Areas like this serve as significant gathering locations and hold evidence of historic patterns of land use. Alternatively, places also emphasize the importance of some plant resources. Plants located near a sacred site may contain certain properties or higher potency than similar plants in adjacent areas, necessitating access to these locations and the unharmed resources. The Ghost Dance Site located less than two miles from the Southern Alternative is one such example. The historical activities that took place here—and according to Southern Paiute ontology, continue to take place through other dimensions—manifest within the physical resources themselves. The Tribe maintains that pilgrimages to this area continue today to gather paint, foods, and medicine (SPAC 2011), providing a source of powerful cultural resources that aide in reconnecting people to their past. The cultural importance of a plant must therefore be understood in the context of their history and the broader cultural landscape.

Because plants are living beings with agency, Southern Paiute people treat plants as fellow persons requiring appropriate interactions. As persons with individual personalities and scopes of existence, there are unique individuals within plant communities as well, such as the Grandmother Tree located on the northern slope of Five Mile Mountain along Highway 89 (SPAC 2011). This old juniper tree holds a high level of cultural significance due to its age and ability to thrive; like humans, experience and wisdom contribute to the status of this entity. Thus, as special individuals, Grandmother Trees are regarded within Southern Paiute kinship systems, and are celebrated through pilgrimage, offerings, and ceremony (Stoffle et al. 2018). The recent destruction of a Grandfather Tree in Delta, Colorado, demonstrates how Indian people are impacted by the removal of these beings; when the Ute people, close relatives of the Southern Paiutes, were informed of the decision to kill their living relative and testament to Ute historical occupation of the area, they responded by coming together and praying (Stoffle et al. 2018). The resulting trauma of killing and removing the Grandfather Tree was highly evident in the performances and discussions of the Ute people (Stoffle et al. 2018). The Tribe's belief systems need to be considered when proceeding with development projects. Continuing development without a holistic approach to understanding these belief systems leads to an epistemological divide, and causes irrevocable harm to the history, spirituality, and identity of impacted peoples (Stoffle and Minnis 2008).

## **Mitigation of Plant Impacts**

When proceeding with development projects, two strategies can be implemented to reduce harm to significant resources: mitigation and avoidance. Numerous actions can take place to mitigate resource damage, central to which is ongoing consultation with the Tribe as the project proceeds. To reduce impacts to plant communities, revegetation is one strategy that is culturally appropriate and has had demonstrably positive effects. Such restoration projects have taken place through the combined efforts of the Nevada Field Office (NFO) and the Consolidated Group of Tribes and Organizations (CGTO)—a group of which the Tribe is associated with—to revegetate 92 acres of land at the Nevada National Security Site Area 5 Radioactive Waste Management Complex (DOE 2016). This effort combined both government-to-government consultation and traditional ecological knowledge to improve plant communities through field visits for restoration efforts and continued monitoring (DOE 2016). These projects in Nevada, which bare resemblance to techniques implemented by the USFS and FWS, were noted by Southern Paiute people as desirable projects aimed at balancing the land (Wendel 2014). This is evident in the results; revegetation projects have not only improved vegetation but also reduced erosion and contributed to fauna in the area (Wendel 2014).

Avoidance is another important strategy that should be considered when the plant resources in question hold high spiritual significance to the Tribe. A segment of the Devers-Palo Verde High Voltage Transmission Line serves as one example of avoidance to preserve important traditional use plants. A horticultural patch that contained significant Indian plants including tobacco and devil's claw was identified during consultation and resulting recommendations were to avoid this important location (Cultural Systems Research, Inc. 1978). As a result, the transmission line was diverted and damage to these resources was avoided. Avoidance is always the preferred method, but becomes increasingly important for significant sites or locations with irreplaceable resources. This can be the case for stands of specific plants, like tobacco, which is a highly valued and limited cultural resource. Similarly, some individual plants, like the Grandmother Tree located on Highway 89, cannot be replaced and thus should be avoided at all costs.

## **New Plant Data**

This list is a comprehensive and evolving database, identified through numerous ethnobotanical studies conducted throughout Southern Paiute aboriginal territory. These studies utilized appropriate and increasingly sophisticated methodologies to identify plant resources and calculate the cultural significance of these resources using an iterative approach involving field interviews, advisory committees, and collective discussions and confirmations with official Tribal representatives. Three separate reports in the LPP APE were used to identified Southern Paiute plants potentially impacted by the LPP. Two of the reports were developed as a result of the LPP EIS (SPAC 2010; SPAC 2011), and one was from an Ethnographic Overview and Assessment funded by the NPS (Stoffle et al. 1999a). The following table of plants is based on in field ethnographic research. Two additional sources were incorporated to strengthen the comprehensive list of Southern Paiute names for traditional plants (DOE Nevada Operations Office 1996; Stoffle et al. 1999b).

The following table lists identified Southern Paiute plant resources in alphabetical order of their scientific name, present in the first column. Although most plants are identified by species and genus, some plants are only identified by species, signifying that all plants within this species are Tribal use plants, sometimes with a specific genus identified due to properties associated with that plant. The

Decision Draft, Vegetation

common name and, where available, Southern Paiute name are also provided, presented in columns two and three respectively. The fourth column is marked to indicate whether the identified plant was observed in the LPP APE by the Tribe. Due to the alternative selection process for the LPP, the sixth and seventh columns are provided to indicate if the plant was identified in the Southern Alternative and Highway Alternative. This is done to highlight the different plants present along either alternative, demonstrating that the selection process will impact ethnobotanical resources differently and thus consultation is essential to maintaining the integrity of these Southern Paiute cultural resources.

Table 2 Southern Paiute Plant Table

Scientific Name	Common Name	S. Paiute Name	APE	S Alt	H Alt
<i>Abies concolor</i>	White Fir	ca-ta-vee	X	-	-
<i>Abies lasiocarpa</i>	Balsam Fir	NA	X	-	-
<i>Abronia fragrans</i>	Fragrant Sand-Verbena	NA	-	-	-
<i>Abronia turbinata</i>	White Sand Verbena	NA	-	-	-
<i>Acer</i> spp.	Box Elder, Maple	NA	-	-	-
<i>Achillea millefolium</i>	Milfoil Yarrow	l'itsikwasipi	-	-	-
<i>Achnatherum hymenoides</i>	Indian Ricegrass	wa-i, wa'iv, wa'ir, wa'ai	X	X	X
<i>Aconitum columbianum</i>	Wolfsbane, Columbian Monkshood	NA	X	-	-
<i>Agastache urticifolia</i>	Horse Mint	NA	-	-	-
<i>Agave utahensis</i> var. <i>kaibabensis</i>	Kaibab Agave	kaiva uusiv	-	-	-
<i>Agave utahensis</i> var. <i>utahensis</i>	Utah Agave	yaant, yant, nanta	-	-	-
<i>Agropyron smithii</i>	Western Wheatgrass	NA	-	-	-
<i>Agropyron</i> spp.	Wheatgrass	paxankua	X	X	-
<i>Agrostis exarata</i>	Spike Bentgrass	NA	-	-	-
<i>Allium bicepstrum</i>	Palmer's Onion	NA	-	-	-
<i>Allium macropetalum</i>	San Juan Onion	NA	-	-	-
<i>Allium nevadense</i>	Nevada Onion	kwichasi	X	-	-
<i>Amaranthus albus</i>	Pale Pigweed	toki-mont, tokimont	-	-	-
<i>Amaranthus powellii</i>	Powell's Amaranth, Pigweed	kumutuf, pun-kont	-	-	-
<i>Amaranthus retroflexus</i>	Redroot pigweed	kumutuf	-	-	-
<i>Ambrosia artemisiifolia</i>	Ragweed	NA	-	-	-
<i>Ambrosia dumosa</i>	White Bursage, Burrobush	kutsiav, tumpisangwav	X	-	-
<i>Amelanchier alnifolia</i>	Saskatoon Serviceberry	toyabe, tuvwampu	-	-	-
<i>Amelanchier utahensis</i>	Utah Serviceberry	tungwump, tuvwampu, kwiyav, toyaba	X	X	X
<i>Amorpha fruticosa</i>	False Indigo Bush	NA	X	-	-
<i>Amsinckia tessellata</i>	Bristly Fiddleneck, Western Fiddleneck	NA	X	X	-

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Androsace spp.	Jasmine, Rock Jasmine	NA	X	-	-
Androstephium breviflorum	Funnel-Lily	NA	-	-	-
Anemone tuberosa	Desert Thimbleweed, Windflower	NA	-	-	-
Anemopsis californica	Yerba Mansa	cheu-pahn-iv, tchupaniv	-	-	-
Angelica spp.	Angelica	to'nchavi, kibah nati-zuah, tontsabi, bogo	-	-	-
Antennaria marginata	Sandstone Pussytoes	NA	-	-	-
Apocynum cannabinum	Dogbane, Indian Hemp	NA	X	-	-
Aquilegia formosa	Red Columbine	NA	-	-	-
Aquilegia spp.	Columbine	NA	-	-	-
Arabis pulchra	Pretty Rockcross	ak, ahk	-	-	-
Arceuthobium spp.	Mistletoe	San-hap' o-tsav	-	-	-
Arctostaphylos patula	Greenleaf Manzanita	ararmpipi	X	-	-
Arctostaphylos pungens	Pointleaf Manzanita, Mexican Manzanita	ararmpipi, ada'dimpipi	-	-	-
Arenaria spp.	Sandwort	NA	-	-	-
Argemone spp.	Prickly Poppy	esha-ah-goo-wha	-	-	-
Artemisia bigelovii	Bigelow Sagebrush	sangwav	X	-	X
Artemisia dracunculus	Tarragon	sangwavi, pas	-	-	-
Artemisia filifolia	Sand Sagebrush	NA	X	-	X
Artemisia ludoviciana	White Sagebrush	hipata-sangwav	X	-	X
Artemisia nova	Black Sagebrush	sangwav, sua'piv	X	-	-
Artemisia spinescens	Bud Sage, Button Brush	kuh-eeb tah-cun-oh-guah, kuh-wepit-tuh-cun-o-guah	-	-	-
Artemisia tridentata	Big Sagebrush	po-ho'-be, sahng-wav', sah-wahb', sangwav, pah-eesh sah-wavvy, pah-hoe-be, sangwavi, sangwa, sanwa'bi, pah-wavvy, sah-wah-be, sah-wavvy	X	X	-
Asclepias spp.	Milkweed	hewovey, wa-na	X	-	-
Aster frondosus	Leafy Aster	tods-e-tonega	-	-	-
Astragalus praelongus	Rattleweed Locoweed	NA	X	-	X
Astragalus ssp.	Milkvetch, Locoweed	NA	X	X	-
Atriplex canescens	Fourwing Saltbush	skump, tono, murunibi	X	X	X
Atriplex confertifolia	Shadscale	NA	-	-	-
Atriplex hymenelytra	Desert Holly	NA	X	X	-
Atriplex lentiformis	Big Saltbush	NA	-	-	-
Avena sativa	Wild Oats	hoo-w v'	-	-	-

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<i>Baccharis salicifolia</i>	Mule Fat	NA	-	-	-
<i>Baccharis</i> spp.	Seepwillow	koauw, kanav	-	-	-
<i>Baileya multiradiata</i>	Desert Marigold	NA	-	-	-
<i>Balsamorhiza sagittata</i>	Arrowleaf Balsamroot	NA	X	-	-
<i>Balsamorhiza</i> spp.	Balsamroot	key-gah-da-goop, ah-ku-pah, coo-see quah-soop, pah-kuk	-	-	-
<i>Berberis fremontii</i>	Freemont's Barberry	tonip	-	-	-
<i>Berberis repens</i>	Creeping Barberry	cor-ren-nup pah-vee, poo-heg-wee-dah	X	-	-
<i>Betula</i> spp.	Birch	um-gai-yu-nin-jump, kai-shu-imp	-	-	-
<i>Bouteloua gracilis</i>	Blue grama	NA	X	-	-
<i>Brickellia ablongifolia</i>	Mohave Brickell Bush	NA	-	-	-
<i>Brodiaea pulchella</i>	Desert Hyacinth	NA	-	-	-
Bryophytes	Moss	NA	X	-	-
<i>Calliandra eriophylla</i>	Fairy Duster	NA	X	-	-
<i>Calochortus bruneanus</i>	Bruneau Mariposa Lily	sixo'o	-	-	-
<i>Calochortus flexuosus</i>	Weakstem Mariposa Lily	sixo'o	-	-	-
<i>Calochortus nuttallii</i>	Sego Lily	sigo'o	X	X	X
<i>Carduus nutans</i>	Milk Thistle	NA	X	-	-
<i>Carex</i> spp.	Sedge	sambiv	X	-	X
<i>Castilleja chromosa</i>	Northwestern Indian Paintbrush	NA	-	-	-
<i>Castilleja linariaefolia</i>	Wyoming Indian Paintbrush	NA	-	-	-
<i>Castilleja martinii</i>	Narrowleaf Paintbrush	NA	-	-	-
<i>Castilleja</i> spp.	Indian Paintbrush	NA	X	X	-
<i>Caulanthus crassicaulis</i>	Thickstem Wild Cabbage	NA	-	-	-
<i>Ceanothus</i> spp.	Buck Brush	NA	X	-	X
<i>Cercocarpus ledifolius</i>	Mauntain Mohogany	tonmpi, dunumbe(mp), toobe, dunmbe, too-pee, toobe-buh-ah	-	-	-
<i>Cercocarpus montanus</i>	Birch-leaf Mountain Mohogany	NA	X	-	-
<i>Chaenactis douglasii</i>	Douglas Dusty-Maiden	hoot-se-eva, toh-hoe-quah, si-af-iv	-	-	-
<i>Chaenactis</i> spp.	Dusty-Maiden	NA	-	-	-
<i>Chamaebatiaria millefolium</i>	Fernbush	par-o-wah tah-cun-o-quah	-	-	-
<i>Chenopodium fremontii</i>	Freemont Goosefoot	sax'watikup	-	-	-
<i>Chenopodium</i> spp.	Goosefoot	sax'watikup	X	-	X
<i>Chorizanthe rigida</i>	Rigid Spine-Flower	sanuv, kamuhurusanuv, kanumuvusanuv	-	-	-

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Chorizanthe spp.	Spine-Flower	Sanuv, kamunuru	-	-	-
Chrysothamnus nauseosus	Rubber Rabbitbrush	koo-chum'-ahv, koo-tsam'-mah, hav', sikomp, sikump, s'kump	X	X	X
Chrysothamnus viscidiflorus	Yellow Rabbitbrush	koo-chum'-ahv, koo-tsam'-mah, hav', sikomp, sikump, sikump, s'kump	X	-	-
Cirsium mohavense	Virgin Thistle	tsiev	-	-	-
Cirsium spp.	Plume Thistle	manavip, tsiev	-	-	-
Claytonia spp.	Spring Beauty	NA	-	-	-
Clematis ligusticifolia	Virgin's Bower	esha-wanna	-	-	-
Clematis spp.	Leather Flower	NA	-	-	-
Coleogyne ramosissima	Blackbrush	NA	X	-	-
Comandra umbellata var. pallida	Bastard Toadflax	NA	-	-	-
Cordylanthus spp.	Birdsbeak	NA	-	-	-
Cornus sericea	Red-Osier Dogwood	NA	-	-	-
Coryphantha vivipara	Fishhook Cactus	manav, yuav	-	-	-
Crepis spp.	Hawksbeard	NA	-	-	-
Cryptantha spp.	Cryptantha	NA	X	-	X
Cucurbita foetidissima	Coyote Gourd, Missouri Gourd	ankompi, ahn-no-quav, arno-cup, ahn-noquav	X	-	X
Cuscuta spp.	Dodder	canaza-kwee-sha, too-vah-saah	-	-	-
Cymopterus globosus	Golfball Spring Parsley	ya-duts, ye-luts	-	-	-
Cymopterus hendersonii	Spring Parsley	nampip	-	-	-
Dalea spp.	Prairie-Clover	kaatamonp, i-era-midja, i-eramidja	-	-	-
Datura spp.	Sacred Detura, Jimsonweed	mu-maup', moa-nump, momomp, momompu, mimip, main-oph-weep, man-op-weep, mainophweep, manopweep	X	X	X
Delphinium parishii	Larkspur	NA	-	-	-
Descurainia pinnata	Tansy Mustard	aku, hahck, ku'u, ak, ok	X	X	X
Descurainia sophia	Herb Sophia	ahk	X	X	X
Dichelostemma pulchellum	Bluedicks	NA	-	-	-
Distichlis spicata	Saltgrass	e-soov', mo-nump	-	-	-
Dyssodia pentachaeta	Scale Glandweed	sakwapi	-	-	-
Echinocactus polycephalus	Cotton-Top Cactus	tash	-	-	-
Echinocactus spp.	Barrel Cactus	pavio, tumar, tamar	-	-	-



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<i>Echinocereus engelmannii</i>	Strawberry Hedgehog Cactus	usivwuits, tule, manav	X	-	X
<i>Echinocereus</i> spp.	Hedgehog Cactus	tutule, chuamanav l'mamanavi, usivwuits, ova'xobi, cacuusov'xobi, usirwuits	-	-	-
<i>Echinocereus triglochidiatus</i>	Claretcup Hedgehog Cactus	chumanav l'mammanavi, ova'xobi, cacuusov'xobi	-	-	-
<i>Echinochloa</i> spp.	Cockspur	NA	-	-	-
<i>Eleocharis palustris</i>	Spikerush	NA	-	-	-
<i>Elymus canadensis</i>	Canada Wild Rye	NA	-	-	-
<i>Elymus cinereus</i>	Great Basin Wild Rye	NA	-	-	-
<i>Elymus elymoides</i>	Squirrel Tail	saxwanartotsivuaium	X	-	X
<i>Elymus triticoides</i>	Beardless Wild Rye, Creeping Wild Rye	NA	-	-	-
<i>Encelia farinosa</i>	White Brittlebrush	NA	X	-	-
<i>Encelia frutescens</i> var. <i>resinosa</i>	Sticky Brittlebrush	sana ich, tuwich	-	-	-
<i>Enceliopsis nudicaulis</i>	Nakedstem Sunray	NA	X	X	-
<i>Envelia virginensis</i>	Virgin Brittlebrush	sana ich, suopiv, tuwich	-	-	-
<i>Ephedra nevadensis</i>	Nevada Indian Tea	tup, tup; hutuup; tu'up; tutuupi; tutupi; tu-tupe; tutupe; utuupi; u'tuup; yatup	X	-	X
<i>Ephedra torreyana</i>	Torrey Indian Tea	tutuupi, tutu'pi, tu-tupe, u'tup, tupi	-	-	-
<i>Ephedra viridis</i>	Green Indian Tea	tup, tutuupi, soo-roop-ee, too-roop-ee, tutu'pi, utuupi, u'tuup, too-toop-ee	X	X	X
<i>Equisetum laevigatum</i>	Smooth Scouring Rush	sakwa-'ivi-p, paxwav	-	-	-
<i>Equisetum</i> spp.	Horsetail	NA	-	-	-
<i>Eragrostis</i> spp.	Love Grass	NA	-	-	-
<i>Eriastrum eremicum</i>	Mohave eriastrum	NA	-	-	-
<i>Erigeron</i> spp.	Daisy	booie na-tizuah, dootsie tah-bah-she-up, kah-noop-ah, too-bee-man-ob	-	-	-
<i>Eriodictyon augustifolium</i>	Narrow Leaf Yerba Santa	wee-poo-en-ub, weepoo-enub, kutsa'rimpi, pa'sinipi	-	-	-
<i>Eriodictyon</i> spp.	Yerba Santa	NA	X	-	-
<i>Eriogonum caespitosum</i>	Buckwheat Brush	NA	-	-	-
<i>Eriogonum desertorum</i>	Great Basin Desert Buckwheat	NA	X	-	-

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Eriogonum inflatum var. inflatum	Desert Trumpet	papakurum, papakurum	X	X	X
Eriogonum microthecum	Slender Buckwheat	pee-wee-guy-womb-mutz-zee	X	X	-
Eriogonum ovalifolium	Butterballs	ya-paw-taw-the	-	-	-
Eriogonum umbellatum	Sulphur Flower	na-ka-donip, wadda-e-goh	-	-	-
Erodium cicutarium	Storksbill, Heronbill	wyuvimp	X	-	X
Euphorbia albomarginata	Spurge, Rattlesnake Weed	tuvika'xaiv, tuvipukaxi, tuvipukaxi tava'namu'obi, tuvipaxghaiv	X	-	-
Euphorbia brachycera	Shorthern Spurge	NA	-	-	-
Fallugia paradoxa	Apache Plume (Indian Spinach)	muup	X	-	X
Forsellesia nevadensis	Nevada greasebush	bas-uh-dook nut-zoo	-	-	-
Frasera albomarginata	White-margined swertia	NA	-	-	-
Fraxinus anomala	Singleleaf ash	tav, tuav	-	-	-
Fraxinus pennsylvanica	Velvet Ash	NA	-	-	-
Fraxinus sp.	Ash	wam-p p, wan-pimp, tav	-	-	-
Fritillaria atropurpurea	Spotted missionbells, Leopard-lily	NA	-	-	-
Galium stellatum	Shrubby bedstraw	NA	-	-	-
Garrya flavescens	Ashy silktassel	ka'ninkwap	-	-	-
Gaura coccinea	Scarlet beeblossom	NA	X	-	X
Glycyrrhiza lepidota	Desert Root, American Licorice	NA	-	-	-
Grayia spinosa	Spiny Hop Sage	NA	-	-	-
Grindelia squarrosa	Gumweed	oha tonega, sah-nah tonegan	X	-	-
Gutierrezia microcephala	Threadleaf Snakeweed	yainup, waarump	X	X	-
Gutierrezia sarothrae	Broom Snakeweed	s'kump	X	-	X
Haplopappus acaulis	Stemless Goldenweed	pau'p, apu'p	-	-	-
Haplopappus ssp.	Goldenbush	pau'p, apu'p	-	-	-
Helianthus annuus	Common Sunflower	ah-kump, bah-kuk	X	-	X
Helianthus ssp.	Sunflower	ah-kump, akmp	-	-	-
Heliotropium convolvulaceum	Bindweed Heliotrope	NA	-	-	-
Heliotropium curassavicum	Salt Heliotrope	tube-manabe, wa'ateyowimpi, tu-manabe	-	-	-
Hesperostipa comata	Needle-and-thread	NA	-	-	-
Heuchera rubescens	Pink Alumroot	NA	-	-	-
Hilaria jamesii	James' Galleta Grass	NA	X	-	X

Decision Draft, Vegetation

<i>Hilaria rigida</i>	Big Galleta Grass	NA	-	-	-
<i>Holodiscus dumosus</i>	Bush Oceanspray	oh-na-nut-tiz-u-wabbe, tah-see-vuh, wah-poose- oh-guay	-	-	-
<i>Hymenoclea salsola</i>	White Cheesebush, Burrobush	paiab	-	-	-
<i>Ipomoea</i> ssp.	Morning Glory	NA	-	-	-
<i>Ipomopsis aggregata</i>	Scarlet Gilia, Skyrocket	anka'siti, soh-noy tah- cun-oh-quah, pah-wah- gopish, para-give	-	-	-
<i>Ipomopsis congesta</i>	Ballhead Gilia	quoy-hee nooma natiz- u-ah	-	-	-
<i>Ipomopsis inconspicua</i>	Floccose Gilia	NA	-	-	-
<i>Ipomopsis</i> ssp.	Gilia	eck-quee-hu-binga, sigh-yah-gava, si-yah- gum, too-bee man-a-ba, too-bee too-ben-aba, too-man-aba	-	-	-
<i>Iris missouriensis</i>	Wild iris	pah-see-toob-ah, poo- gooey-roop, poo-gooey- rub	-	-	-
<i>Iris</i> sp.	Iris	NA	-	-	-
<i>Iva axillaris</i>	Poverty weed	quee-duh-tee-nava, too- ha-babba	-	-	-
<i>Juncus</i> ssp.	Rush	NA	-	-	-
<i>Juniperus communis</i>	Common Juniper	pawa'ap, pah-wap-o-ruit, dootsie pah-wap-pee, pahwaporuit, pah-wap- o-ruitz, wap-pee	-	-	-
<i>Juniperus osteosperma</i>	Utah Juniper	wa'ap, wa'apu, wa'apu, wa'apumpi, wa'apumpi, noo-ahntup, noo-ahn- tup	X	X	X
<i>Juniperus scopulorum</i>	Rocky Mountain Red Cedar	bah-sah-mabe, bas-um- ah-be	X	-	-
<i>Krameria parvifolia</i>	Range ratany	nagavaronump	-	-	-
<i>Krameria</i> sp.	Ratany	nah-kah-vah dah-tohnub	-	-	-
<i>Krascheninnikovia lanata</i> var. <i>lanata</i>	Winterfat	boo-see-ah-wah-be, she-shu-bah	X	-	-
<i>Lappula occidentalis</i>	Stickseed	NA	-	-	-
<i>Larrea divaricata</i>	Chaparral	yah-temp	-	-	-
<i>Larrea tridentata</i>	Creosote Bush, Greasewood	yatumpi, yatump, yatump, yatamp, ya'tampi, yatumb, yah- temp, yahtemp,	X	-	-

Decision Draft, Vegetation

		ys'ya'mip, ya'ta'mpi, yatampi			
Lepidium fremontii	Fremont's Peppergrass	NA	-	-	-
Lepidium lasiocarpum	Desert Pepperweed	NA	-	-	-
Lepidium montanum	Mountain Pepperplant	NA	X	-	X
Lewisia rediviva	Bitterroot	NA	-	-	-
Lichen	Lichen	timpap suchiku	X	-	-
Linum lewisii	Blue Flax	booie-ah-nooma, booie na-tizuah, po-eena-tiz- uah	-	-	-
Linum ssp.	Flax	NA	-	-	-
Lithospermum ruderale	Gromwell, Stoneseed	NA	-	-	-
Lomatium parryi	Parry's Lomatium	NA	-	-	-
Lomatium spp.	Biscuitroot, Indianroot	NA	-	-	-
Lupinus aridus	Desert Lupine	quee-duh-kwana	X	X	-
Lupinus spp.	Lupine	quee-duh-kwana	-	-	-
Lycium andersonii	Anderson's Wolfberry	u'upwivi, u'up, pa'up, u'upi, hu'up, u'up	X	X	X
Lycium pallidum	Pale Wolfberry	u'upi, pa'up	X	-	X
Lycium spp.	Wolfberry	u'up, pa'up, hu'up, u'upwivi, u'up, u'upi, pa'up	-	-	-
Machaeranthera ssp.	Aster	NA	X	-	X
Mahonia repens	Creeping Barberry	NA	-	-	-
Mahonia ssp.	Barberry	NA	-	-	-
Marrubium vulgare	Common Horehound	quee-ban-oob	X	-	X
Melilotus alba	White Sweet-Clover	NA	-	-	-
Melilotus indicus	Yellow Sweet-Clover	NA	X	-	X
Melilotus spp.	Clover	NA	X	-	-
Menodora spinescens	Spiny Menodora	NA	-	-	-
Menodora spp.	Menodora	NA	-	-	-
Mentha arvensis	Field Mint, American Wild Mint	NA	-	-	-
Mentha sp.	Mint	paxwa'nanimpi, pah- quanna, pah-quanna-ah, paxananmpi, pah- quanna-ay, quee-boh- nay, toh-see-ten-ava	-	-	-
Mentzelia albicaulis	White-Stem Blazingstar	ku'u	-	-	-
Mentzelia laevicaulis	Giant Blazingstar	NA	-	-	-
Mentzelia oreophila	Argus Blazingstar	ku'u	-	-	-

Decision Draft, Vegetation

Mentzelia ssp.	Blazingstar	ku'u	X	-	X
Mimulus guttatus	Monkey Flower	NA	-	-	-
Mirabilis alipes	Winged Four O'Clock	he-wov-bee, hewovey	X	X	-
Mirabilis multiflora	Colorado Four O'Clock	toxo'owatsiv, tukwivi	X	X	X
Monardella odoratissima	Western Bee Balm	see-boo moh-goon-up, too-buzz-see-be	-	-	-
Muhlenbergia asperfolia	Scratchgrass	wichavi ma'ap	-	-	-
Muhlenbergia sp.	Muhly	nutavi	-	-	-
Nasturtium officinale	Watercress	pamavu, paunaxunanar	-	-	-
Nicotiana attenuata	Coyote Tobacco	koapi, koap, koap, tsaw-wap, koap, bah- moh, poo-ee-bah-hoon, poo-ee-bah-moh, poo- wee-buh-hoon, toh- quoh-quah	X	-	-
Nicotiana trigonophylla var. trigonophylla	Desert Tobacco	koapi, nungwukoap, nungwukoap, saxwaxwapi, koap	X	X	X
Oenothera pallida	Pale Evening-Primrose	Sixo	X	-	X
Oenothera ssp.	Evening-Primrose	NA	-	-	-
Opuntia aurea	Golden Prickly Pear	NA	X	-	-
Opuntia basilaris	Beavertail Cactus	manav, yuavi, yuavimp, yuavimpu, yuavimpi, navump	X	X	X
Opuntia echinocarpa	Golden Cholla, Silver Cholla	NA	X	X	X
Opuntia erinacea	Mojave Prickly Pear	yuavip, manavi, manav	-	-	-
Opuntia phaeacantha	Tulip Prickly Pear	manav	X	X	X
Opuntia polyacantha	Central Prickly Pear	usivuuits	-	-	-
Orobanche corymbosa	Flat-Top Broomrape	tu'u	-	-	-
Orobanche fasciculata	Clustered Broomrape	tu'u	-	-	-
Orobanche ludoviciana var. cooperi	Cooper's Broomrape	tu'u	-	-	-
Osmorhiza occidentalis	Sweetroot	pah-wah-cape, pah-wah- capish, pah-wah-gah- bish, wadda-eye-gop, worra-eye-gob	-	-	-
Panicum sp.	Panicgrass	NA	-	-	-
Parthenocissus sp.	Virginia Creeper	patowanamauv	-	-	-
Pedicularis sp.	Lousewort, Elephant Head	NA	X	-	-
Penstemon eatonii	Eaton's Penstemon	kwichasi	X	-	-
Penstemon floridus	Panamint Beardtongue	NA	-	-	-
Penstemon lentus	Abajo Penstemon	NA	-	-	-

Decision Draft, Vegetation

Penstemon pahutensis	Pahute Beardtongue	NA	-	-	-
Penstemon palmeri	Firecracker Penstemon	toxowatsip	X	X	X
Penstemon spp.	Penstemon, Beardtongue	toxowatsip, too-buzz- sah-wop, toh-quoh-wat- ziv, toxowatsip, toe- buzz-see-bee	X	-	-
Peraphyllum ramosissimum	Wild Crab Apple	suovi	-	-	-
Phacelia spp.	Phacelia	NA	-	-	-
Phlox hoodii	Carpet Phlox	NA	-	-	-
Phlox ssp.	Phlox	NA	-	-	-
Phragmites australis	Common Reed	po'-ru, pa-gump, pahgump, hoh-goh-koh, paxamp, hohgohkoh	X	-	-
Phragmites spp.	Reed	po'-ru, pa-gump, pahgump, hoh-goh-koh, paxamp, hohgohkoh	-	-	-
Physalis crassifolia	Yellow Nightshade Groundcherry	NA	-	-	-
Physaria chambersii	Chambers' Twinpod	tah-rah-gee-noob	-	-	-
Physaria newberryi	Newberry Twinpod	NA	X	-	-
Physaria ssp.	Twinpod	NA	-	-	-
Pinus edulis	Colorado Pinyon	tu-wop', tu-vap', toov', tū-bah'-kah-bub, yu- vim', ö-gump', yu-wim'p, tuva, tivah, tuva, tuvap, tu'uv, tuvwap	X	X	X
Pinus monophylla	Singleleaf Pinyon	tu-wop', tu-vap, toov', tū-bah'-kah-bub, yu- vim', ö-gump', yu-wim'p, tuva, tivah, tuva, tuvap, tu'uv, tuvwap, tu-bap-ee, wah-pee	X	-	-
Pinus ponderosa	Ponderosa Pine	yu-vim, -gump, yu-wim p	X	-	-
Plantago major	Common Plantain	NA	X	-	-
Plantago patagonica	Wolly plantain	NA	-	-	-
Pleiocanthus spinosus	Thorn Skeletonweed, Indian Gum Plant	i-goon-zon-um, pee-ee- ah-gub, see-ko-pe, too- man-abbe, too-wan-oo- pah	X	-	-
Pluchea sericea	Arrowweed	NA	-	-	-
Poa bigelovii	Bigelow's Bluegrass	NA	-	-	-
Poa fendleriana	Muttongrass	uxwishuv	-	-	-
Populus fremontii	Fremont Cottonwood	sovip	-	-	-

Decision Draft, Vegetation

Populus spp.	Cottonwood	sho-wīp',so-vwīp, sovip, só-vip, sah'-vip, sah'-vip'	X	X	X
Populus tremuloides	Quaking Aspen	NA	X	-	-
Populus trichocarpa	Black Cottonwood	NA	-	-	-
Porophyllum gracile	Odora	pa'kwitupip	-	-	-
Porophyllum spp.	Odora	pa-guidobe	-	-	-
Portulaca spp.	Purslane	topuene, to-puene	-	-	-
Prosopis glandulosa var. torreyana	Torrey Mesquite	opimp, 'op, opimp, o'pimb	-	-	-
Prosopis pubescens	Screwbean Mesquite	kwiyarū, wi'ump, kwierum, 'opimpu, quee- et-umb	-	-	-
Prosopis spp.	Mesquite	'op, opimp, 'opimpu, kwiyarū, quee-et-umb, quee-etumb	X	-	-
Prunus andersonii	Desert Peach	sahn-avvie, sahn-nab- bee	-	-	-
Prunus fasciculata	Desery Almond	tonopi, tonapi	-	-	-
Prunus spp.	Chokecherry	tonap, tonapi, tonopi	X	-	-
Prunus virginiana var. melanocarpa	Western Chokecherry	tonap, doh-ish-ah-boo- e, tonapi	-	-	-
Psathyrotes annua	Annual Psathyrotes	sebu-moh-goon-a-bu	-	-	-
Psathyrotes ramosissima	Velvet Turtleback	ka-sigh-yah-gave, sebu- moh-goon-a-bu, see- boh mo-goon-ub, sigh- yah-gava	-	-	-
Pseudotsuga menziesii var. glauca	Douglas-Fir	NA	X	-	-
Psoralea spp.	Scruf-Pea	kwaovi	-	-	-
Psorothamnus fremontii	Fremont Indigobrush	kaatamonup, i-era-midja, i-eramidga	-	-	-
Psorothamnus polydenius	Dotted Dalea	NA	-	-	-
Psorothamnus spp.	Indigobush	ma-good-du-hoo , ma- good-tu-hoo , moh- goon-du-hoop, moh- goon-du-hoopie, kaatamonup, i-era-midja, i-eramidja	X	-	-
Psycalis spp.	Groundcherry	NA	-	-	-
Purshia glandulosa	Desert Bitterbrush	u'nup	X	X	X
Purshia mexicana	Mexican Cliffrose	unapu, uh-nop, hunap, uhnop	X	-	-
Purshia stansburiana	Stansbury's Cliffrose	unapu, uh-nop, hunap, uhnop	X	X	X

Decision Draft, Vegetation

<i>Purshia tridentata</i>	Antelope Bitterbrush	unap, huh-na-bee	X	X	-
<i>Quercus gambelii</i>	Gamble Oak	tuav, kwiav	X	X	-
<i>Quercus</i> spp.	Oak	kwi'-uv, to-mum-piv, hem'-pah, kwe'-av, we- am'-pe, tomumpi, tuav, kwiav, tomump, tomumpi	X	-	X
<i>Rhus aromatica</i>	Fragrant sumac	l'is, su'uv, u'up	-	-	-
<i>Rhus trilobata</i>	Three-leaf Sumac, Skunkbush	e-is', i'isi, i-siv', shen- pimp', suuv, shuuvi, siuvimpu, huupi, see-a- wimp, huiupi, su'uvimpu, suuvimp, i'is, see-a- wimp, su'uv, su'uv	X	X	X
<i>Ribes aureum</i>	Golden Currant	bo-gumbe, poh-oh-bis	-	-	-
<i>Ribes cereum</i>	White Squaw Currant	NA	X	-	-
<i>Ribes velutinum</i>	Desert Gooseberry	NA	-	-	-
<i>Robinia neomexicana</i>	New Mexico Locust	NA	-	-	-
<i>Rorippa islandica</i> var. <i>hispida</i>	Hairy Yellowcress	NA	-	-	-
<i>Rorippa</i> spp.	Watercress	NA	-	-	-
<i>Rosa</i> spp.	Wild Rose	tsi-am-p v, pikikurump, s'impipi	-	-	-
<i>Rosa woodsii</i>	Woods' Rose	pikikurump, see-avvie	X	-	X
<i>Rubus</i> spp.	Raspberry	nagauvwunatumpipi	-	-	-
<i>Rumex crispus</i>	Curly Dock, Wild Rhubarb	nambitu, enga-pah-wee- ub, pah-wee-ah, pah- wee-ub	-	-	-
<i>Rumex hymenosepalus</i>	Tanner's Dock, Wild Rhubarb	NA	-	-	-
<i>Rumex</i> spp.	Indian Rhubarb	nambitu, tuha-kono-be, ku'u, tuha-kono-gip	X	-	-
<i>Salazaria mexicana</i>	Bladder Sage	NA	-	-	-
<i>Salix exigua</i>	Coyote Willow	kanav, kah-nav, coo-see suh-ee-be, soo-vee, suh- ee-be, suh-ee-wee	X	-	X
<i>Salix gooddingii</i>	Gooddings Willow	pakanav	-	-	-
<i>Salix laevigata</i>	Red Willow	NA	-	-	-
<i>Salix</i> spp.	Willow	kahn-nahv, sah'b, kah- nahv', sah-kahv', kan-av', ka-nav, kanavi, kah-nav, kahnnav, pakanav, pawaxanav	X	X	-
<i>Salvia columbariae</i>	Chia Sage, California Sage	sangwav, saywav, pasiits, patsits	-	-	-



Decision Draft, Vegetation

Salvia dorrii	Purple Sage	koapi, nungwukoap, kwatamanum, kanarukoap	-	-	-
Salvia spp.	Sage	siguwiiipi, pasiits, sangwav, see-goo-we-up, seegoowe-up, nungwukoap, nungwukoap, kwatamanum, saywav, sigimwiap, kung-nuh sah-wabbe, too-bee she-gin-oop	X	X	-
Sambucus racemosa	Red Elderberry	NA	-	-	-
Sambucus spp.	Elderberry	koo-booie-du-ney, koon-oo-gip, ko-no-wip', who-booie, hoo-boo, koo-noo kunukwi, kunuxwi	-	-	-
Sarcobatus vermiculatus	Black Greasewood	yah-tahmp', tah-uh-be, toh-no-be, yah-tamp', tone-oh-bee	X	X	-
Scirpus acutus	Hard-Stem Bulrush	to'oivi	-	-	-
Scirpus spp.	Bullrush, Big Round Tule	he-taw, pow-ahv, to'oivi, manav	-	-	-
Scirpus validus	Soft-Stem Bulrush, Tule	to'oivi	-	-	-
Sclerocactus spp.	Fishhook Cactus, Pineapple Cactus	manav	-	-	-
Sclerocactus whipplei	Whipple Fishhook	NA	X	-	X
Selinocarpus diffusus	Moonpod	NA	-	-	-
Senecio multilobatus	Unita Groundsel	NA	X	-	-
Senecio spp.	Groundsel	NA	-	-	-
Shepherdia argentea	Buffaloberry	pa'a-u'op	X	-	-
Shepherdia rotundifolia	Roundleaf buffaloberry	pa'a-u'op	X	X	X
Sisymbrium altissimum	Tumble Mustard	wa'ai	X	-	X
Smilacina sp.	False Solomon-Seal, Coyote Berry		-	-	-
Smilacina stellata	Starry False Solomon-Seal	esha-tone-ub, pee-havvie, quoh-quavvie, quoy-quavvie	-	-	-
Solanum spp.	Nightshade	ah-dye-ee na-tizuah	-	-	-
Solanum triflorum	Cut-Leaf Nightshade	NA	-	-	-
Solidago spp.	Goldenrod	NA	-	-	-
Sonchus oleraceus	Common Sow-Thistle	mamoiv, mamuiv	-	-	-
Sphaeralcea ambigua	Desert Globemallow	tupwiv	X	X	X
Sphaeralcea spp.	Globemallow	tupqiv, kupinav, ku'pinav	-	-	-

Decision Draft, Vegetation

<i>Sporobolus airoides</i>	Alkali Sacton	NA	-	-	-
<i>Sporobolus</i> spp.	Dropseed	postushukunt, pas-tu-shu-kunt, kwakwai	-	-	-
<i>Stanleya pinnata</i>	Prince's Plume (Indian Spinach)	tumar, namvit, tumar, tumaru, who-goo-buh, nambitu, tumaru, nambitu, tumaru, whoo-goop	X	X	X
<i>Stephanomeria exigua</i>	Small Wire Lettuce	NA	X	-	X
<i>Stephanomeria tenuifolia</i>	Narrow-Leaved Wire Lettuce	tuwishanakoup	X	-	-
<i>Stipa speciosa</i>	Desert Needlegrass	NA	X	-	X
<i>Stipa</i> ssp.	Needle-and-thread grass	NA	X	-	-
<i>Streptanthella longirostris</i>	Wild Mustard, Long-Beak Fiddle-Mustard	NA	-	-	-
<i>Streptanthus cordatus</i>	Heartleaf Twistflower	NA	-	-	-
<i>Suaeda</i> spp.	Seepweed	ahrr, aah-ap-weep, sah-ap-weep	-	-	-
<i>Suaeda torreyana</i>	Bush Seepweed	ah-rumb	-	-	-
<i>Swertia albomarginata</i>	White-margined swertia	NA	X	-	X
<i>Swertia</i> spp.	Swertia	kwiu	-	-	-
<i>Symphoricarpos longiflorus</i>	Long-Flower Snowberry	sahn-ah-vee	X	-	-
<i>Symphoricarpos</i> ssp.	Snowberry	NA	-	-	-
<i>Taraxacum</i> spp.	Dandelion	NA	X	-	-
<i>Tetradymia canescens</i>	Gray Horsebrush	NA	-	-	-
<i>Tetradymia</i> sp.	Horsebrush	coo-see see-bupe, see-goop-e, too-hah-see-goop-ee	-	-	-
<i>Thalictrum fendleri</i>	Meadow Rue	NA	-	-	-
<i>Thamnosma montana</i>	Turpentine Broom	kaivai sixwana, mugru'upi	-	-	-
<i>Thelesperma megapotamicum</i>	Great Threads, Paiute Tea	NA	X	X	-
<i>Thelypodium integrifolium</i>	Wild Cabbage	nambitu	-	-	-
<i>Townsendia</i> spp.	Townsendia	NA	-	-	-
<i>Townsendia scapigera</i>	Eaton's Townsendia	NA	-	-	-
<i>Toxicodendron rydbergii</i>	Western poison uvy	NA	-	-	-
<i>Trifolium longipes</i> var. <i>rusbyi</i>	Rusby's clover	NA	-	-	-
<i>Typha domingensis</i>	Southern Cattail	NA	-	-	-
<i>Typha latifolia</i>	Broad-Leaf Cattail	taw-e-vah, to-oiv, to'iv, pantusahwav	-	-	-

Decision Draft, Vegetation

Typha spp.	Cattail	paxamp, pantu'sahwav, taw-e-vah, to-oiv, ta-oiv, tonovi, tonoz	X	-	-
Urtica spp.	Nettle	quee-bah-noop, quee-quawn-oop	-	-	-
Valeriana spp.	Valerian, Tobacco Root	NA	-	-	-
Verbascum thapsus	Woolly Mullen	NA	X	-	-
Veronica anagallis-aquatica	Speedwell	NA	-	-	-
Viguiera multiflora	Showy Goldeneye	NA	-	-	-
Vitis arizonica	Canyon Grape	l'av, kuripsup	-	-	-
Wyethia scabra	Rough Mule's Ear	NA	-	-	-
Wyethia spp.	Mule's Ear	taxuichaxantiip, tixu'si taxanti, taxu'itcaxantip, tikoitcixantipi, tixu'si taxantip	-	-	-
Xanthium spp.	Cocklebur	NA	X	-	-
Yucca angustissima	Narrowleaf Yucca	NA	-	-	-
Yucca baccata	Banana Yucca	cho-ram'-pik, sam-ah'-vip, tsam-a-vip, tcimpi, u'wivi, wiisiv, tachumpi, uusi, o-u-se, uusivi, tachumpi, uusiv, uus	X	X	X
Yucca kanabensis	Kanab Yucca	NA	X	-	X
Yucca schidigera	Mojave Yucca	tachump, u'vimp, tachumpi, uusivi, uusiv	X	-	-
Yucca spp.	Yucca	cho-ram-pik, sam-ah-vip, tsam-a-vip, u'wivi, wiisiv, tachmpi, uusi, o-u-se, uusivi, tachumpi, uusiv, uus	-	-	-
Zigadenus paniculatus	Foothill Death Camas	koggie-a-den-up, see-goh-oh, tah-besse-e-goh	X	-	-
Zigadenus ssp.	Death Camas	koggie-a-den-up, see-goh-oh	-	-	-

Source: SPAC 2010, SPAC 2011, Stoffle et al. 1999a, Stoffle et al. 1999b, Stoffle et al. 2019

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