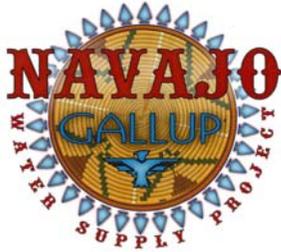


## ATTACHMENT H

Vegetation



## VEGETATION

### A VEGETATION CLASSIFICATION AND LAND COVER LEGEND FOR VEGETATION RESOURCES WITHIN THE NAVAJO-GALLUP WATER SUPPLY PROJECT AREA<sup>1</sup>

*Barren* – This classification includes bare soils or areas with vegetation cover less than 25 percent, typically with very light-colored soils. Dark soils may be classified as rock outcrop or a vegetation classification with cover as low as 10 percent.

*Basin/Playa* – This vegetation classification includes drainage basins, playas, and stock tanks. Small features may not be identified, and features lacking water or with very shallow water may be identified as barren soils. Features with substantial vegetation may be identified as wetland or lowland/swale grassland vegetation.

*Great Basin Broadleaf Deciduous Desert Scrub* – Shrub dominated by broadleaf deciduous shrubs that are cold and drought tolerant. The major cover types are four-wing saltbush (*Atriplex canescens*) and rubber rabbitbrush (*Chrysothamnus nauseosus*), with lesser amounts of shadscale (*Atriplex confertifolia*) and winterfat (*Ceratoides lanata*) cover types. Big sage (*Artemisia tridentata*) may be present, but is not dominant. Herbaceous cover is variable, ranging from very sparse to grassy. Characteristic species are Indian ricegrass (*Oryzopsis hymenoides*), and western wheatgrass (*Agropyron smithii*), mallow (*Sphaeralcea parvifolia*). This vegetation classification is found at elevations from 3500 to 7200 feet.

*Great Basin Foothill-Piedmont Grassland* – Grasslands of mountain foothills, mesa tops, and piedmont slopes. Major cover types are Galleta (*Hilaria jamesii*) and Indian ricegrass. Shrubs are common and include four-wing saltbush, greene rabbitbrush (*Chrysothamnus greenii*), and big sage. This vegetation classification is found at elevations from 4500 to 7200 feet.

---

<sup>1</sup> Developed from the report entitled “A Vegetation Classification and Land Cover Legend for Application to New Mexico Gap Analysis” produced by the New Mexico Cooperative Fish and Wildlife Resource Unit (Muldavin et al., 1996).

*Great Basin Lowland/Swale Grassland* – Swale and basin bottom grasslands make up this classification type. The primary component is alkali sacaton (*Sporobolus airoides*), and vegetation diversity is low. Occasionally, four-wing saltbush, big sage, and giant sacaton (*Sporobolus giganteus*) occur. This vegetation type is found from 3500 to 7200 feet in elevation and often occurs in a matrix with desert scrub and open conifer woodlands.

*Great Basin Microphyllous Desert Scrub* – Small-leaved, cold- and drought-tolerant shrubs dominate this vegetation classification. Big sagebrush, black sagebrush (*Artemisia nova*), and Bigelow's sagebrush (*Artemisia begelovii*) are the major species. Four-wing saltbush (*Atriplex canescens*), shadscale (*Atriplex confertifolia*), greasewood (*Sarcobatus vermiculatus*), and winterfat are also common. Herbaceous cover ranges from very sparse to grassy. Common forbs include Indian ricegrass, western wheatgrass, and mallow (*Sphaeralcea* sp.). This vegetation classification is found from 5250 to 7200 feet in elevation.

*Irrigated Agriculture* – Cultivated fields with cash crops such as alfalfa, corn, melons, and irrigated pastures comprise this cover type. This classification may also include remnants of native riparian vegetation in river valleys or plowed fields. The Gap Analysis<sup>2</sup> vegetation data may underestimate the area covered by this habitat type because some areas have been recently converted to agriculture.

*Mid-Grass Prairie* – Grasslands dominated by grasses generally greater than 1.5 feet and less than 3 feet tall, but may be grazed much shorter. The major cover types are sideoats gramma (*Bouteloua curtipendula*), New Mexico needlegrass (*Stipa neomexicana*), western wheatgrass, little bluestem (*Schizachyrium scoparium*), and sand dropseed (*Sporobolus cryptandrus*). Other common subdominant grass species include vine-mesquite grass (*Panicum obtusum*), plains lovegrass (*Eragrostis intermedia*), and plains bistlegrass (*Setaria macrostachya*). Important forbs include slender scurfpea (*Psoralea tenuiflora*) and white prairie clover (*Petalostemon candidum*). This vegetation classification ranges in elevations from 4000 to 8000 feet.

*Riverine/Lacustrine* – Rivers, streams, and lakes are included in this cover type. Streams and rivers less than 98 feet in width will exhibit breaks or not be recognized. Very small, dry, weedy, or shallow ponds may not be mapped.

*Rock Outcrop* – This vegetation classification bare surfaces only if substantial bare surface is facing skyward. It also may include areas of bare soils.

---

<sup>2</sup> A comparison of the distribution of elements of biodiversity with that of areas managed for their long-term viability to identify elements with inadequate representation.

*Rocky Mountain/Great Basin Closed Conifer Woodland* – Woodlands dominated by rounded crown, low-statured conifers that form moderately closed to moderately open canopies (>60 percent) canopy cover. The major cover type is pinyon pine (*Pinus edulis*). Junipers (*Juniperus monosperma*, *J. osteosperma*, *J. scopulorum*, and *J. deppeana*) are common canopy associates. The undergrowth is variable with elements not only from the Rocky Mountains, but also the Great Basin biogeographic province. Some communities are dominated by shrubby oaks (*Quercus gambelii*, *Q. undulate*, *Q. grisea*, *Q. turbinella*) or other shrubs such as mountain mahogany (*Cercocarpus montanus*) and big sage. Other communities are distinctly grassy and, at higher elevations, are commonly dominated by cool-season grasses such as western needlegrass (*Stipa Columbiana*), Scribner needlegrass (*Stipa scribnerii*), Arizona fescue (*Festuca arizonica*), and mutton bluegrass (*Poa fendleriana*). At lower elevations, warm-season grasses such as blue grama (*Bouteloua gracilis*) or sand bluestem (*Andropogon hallii*) can predominate. Common forbs are wholeleaf paintbrush (*Castilleja integra*), skyrocket (*Ipomopsis aggregate*), trailing fleabane (*Erigeron flagellaris*) and Colorado four o'clock (*Mirabilis multiflora*). This vegetation classification ranges in elevation from 6500 to 8000 feet.

*Rocky Mountain/Great Basin Open Conifer Woodland* – This vegetation classification is characterized by low-growing, round-crowned conifers. Junipers are often dominant, with canopy cover from 25 to 50 percent. This habitat type also includes very open stands, often referred to as savanna, with 10 to 25 percent canopy cover. Undergrowth is primarily warm-season grasses such as purple three awn (*Aristida longiseta*), blue gramma (*Bouteloua gracilius*), and galleta. In some communities, shrubs such as snakeweed (*Gutierrezia sarothrae*), big sage, winterfat, and rabbit brush (*Chrysothamnus* sp.) are well represented. James' wild buckwheat (*Eriogonum jamesii*) and stemless woollybase (*Hymenoxys acaulis*) are common forbs. This vegetation classification is found at elevations from 4000 to 8000 feet.

*Rocky Mountain Montane Deciduous Scrub* – Cold-tolerant, deciduous broadleaf shrubs characterize this vegetation classification. Major species include mountain mahogany (*Cercocarpus montanus*), gambel oak (*Quercus gambelii*), and wavyleaf oak (*Q. undulate*). Other associated species include snowberry (*Synporicarpos oreophilus*), buckbrush (*Ceanothus fendleri*), rose (*Rosa* sp.), scrub liveoak (*Q. turbinella*) and scrub gray oak (*Q. grisea*). Undergrowth is variable, and common small-leaved, cold- and drought-tolerant shrubs dominate this vegetation classification. Big sagebrush, black sagebrush (*Artemisia nova*), and Bigelow's sagebrush (*A. bigelovii*) are the major species. Four-wing saltbush, shadscale, greasewood (*Sarcobatus vermiculatus*), and winterfat are also common. Herbaceous cover ranges from very sparse to grassy. Common forbs and grass species include fringed brome (*Bromus ciliatus*), sideoats grama (*Bouteloua curtipendula*), green sprangletop (*Leptochloa dubia*), and Louisiana sagewort (*Artemisia ludoviciana*). Rocky Mountain montane deciduous scrub occurs at elevations from 6000 to 9000 feet.

*Rocky Mountain Lower Montane Conifer Forest* – Forests dominated by rounded crown conifers that form open to closed canopies. This vegetation classification in New Mexico is represented by the ponderosa pine (*Pinus ponderosa*) cover type; other tall conifers are usually accidental. Low-stature conifers, such as pinyon pine and junipers, and broadleaf trees such as gambel oak can occur in the subcanopy. Undergrowth is highly variable depending on moisture conditions and degree of canopy closure. Common shrubs include big sage, snowberry (*Symphoricarpos oreophila*), waveleaf oak, gambel oak, and woodrose (*Rosa woodsii*). Grasses and forbs include Ross sedge (*Carex rossii*), mutton bluegrass, junegrass (*Koeleria pyramidata*), paintbrush (*Castilleja rotundifolia*), purple geranium (*Geranium caespitosum*), and meadowrue (*Thalictrum fendleri*). Under more open canopies, undergrowth tends to be more grassy and dominated by such species as screwleaf muhly (*Muhlenbergia virescens*), mountain muhly (*M. Montana*), and Arizona fescue. This vegetation classification is found at elevations from 6500 to 9000 feet.

*Rocky Mountain Upper Mountain Conifer Forest* – Forests dominated by conical-crowned conifers that generally form closed canopies (occasional open canopies do occur). The major cover types are Douglas fir (*Psuedotsuga menziesii*), white fir (*Abies concolor*), and blue spruce (*Picea pungens*). Undergrowth is variable, ranging from sparse and moss dominated, to shrubby and forb rich, and is luxuriant in cover. Common species include Rocky Mountain maple (*Acer glabrum*), snowberry, mountain spray (*Holodiscus dumosus*), Canada violet (*Viola Canadensis*), pale geranium (*Geranium richardsonis*), elk sedge (*Carex geyeri*), and fringed brome (*Bromus ciliatus*). Elevations range from 8000 to 10,000 feet.

*Rocky Mountain Subalpine and Montane Grassland* – Mid- to high-elevation grasslands dominated by species associated with the Rocky Mountain biogeographic province. These grasslands are mapped in a limited, scattered distribution among the highest mountain tops of the State. Elevations usually exceed 10,000 feet.

*Rocky Mountain Subalpine Conifer Forest* – Closed-canopied forests dominated by evergreen needle-leaved, conical-crowned conifers. The major cover types are Englemann spruce (*Picea engelmannii*) and subalpine fir (*Abies lasiocarpa*). Douglas fir and white fir can be significant successional components in the stands. Undergrowth can range from being exceedingly sparse and low diversity (mostly moss) to luxuriant and rich in species. Common characteristic species include myrtle huckleberry (*Vaccinium myrtillus*), thimbleberry (*Rubus parviflorus*), foeny sedge (*Carex foenea*), forest fleabane (*Erigeron eximius*), Jacob's ladder (*Polemonium pulcherriumum*), osha (*Ligusticum porteri*), and twinflower (*Linnaea borealis*). Elevations for this vegetation classification range from 9500 to 12,000 feet.

*Short-Grass Steppe* – This vegetation classification is dominated by grasses generally less than 1.5 feet tall. Blue gramma and hairy gramma (*Bouteloua hirsute*) are the principal species. Other co-dominate grasses include purple threeawn, western wheatgrass, and galleta. Shrubs such as winterfat, prairie prickly pear (*Opuntia phaeacantha*), and yucca (*Yucca* sp.) may also be present. Common forbs include milkvetch (*Astragalus* sp.), buckwheat (*Eriogonum* sp.), curly gumweed (*Grindella squarrosa*), and prairie coneflower (*Helianthus petiolaris*). Short-grass steppe is found at elevations from 4000 to 7500 feet.

*Southwestern Plains and Forested/Shrub Wetlands* – Vegetation dominated by woody species primarily associated with the interior Southwest and Plains biogeographic provinces. The Southwestern and Plains Broadleaf Forest includes forests dominated by broadleaf, cold deciduous trees. Major cover types are fremont cottonwood (*Populus fremontii*), plains cottonwood (*P. sargentii*), Arizona walnut (*Juglans major*), netleaf hackberry (*Celtis reticulata*), and Arizona sycamore (*Platanus wrightii*). Southwestern and Plains Shrub Wetlands include shrublands dominated by cold deciduous shrubs. Major cover types in coyote willow (*Salix exigua*) and seepwillow (*Baccharis glutinosa*). Russian olive (*Elaeagnus angustifolia*) and saltcedar (*Tamarix* spp.) are major exotic cover types. Elevation for this vegetation classification ranges from 3000 to 7000 feet.

*Urban Vegetated* – Includes areas classified as vegetative cover within the urban boundary. Most agriculture and riparian vegetation retained their original classification.

This page intentionally left blank

Scientific Name	Common Name	Farmington to Shiprock	Hogback to Gallup	Cutter Dam to Starlake
<i>Abronia fragrans</i>	fragrant sand verbena	X	X	X
<i>Aegilops cylindrica</i>	jointed goatgrass		X	X
<i>Agropyron cristatum</i>	crested wheatgrass	X	X	X
<i>Agrostis stolonifera</i>	redtop		X	X
<i>Allionia incarnata</i>	trailing four o'clock	X		
<i>Allium macropetalum</i>	largeflower onion		X	
<i>Allium</i> sp.	wild onion	X		
<i>Alopecurus aequalis</i>	shortawn foxtail		X	
<i>Alyssum minus</i>	small alyssum	X	x	
<i>Amaranthus blitoides</i>	prostrate pigweed	X	X	
<i>Amaranthus retroflexus</i>	redroot pigweed	X	X	
<i>Ambrosia acanthicarpa</i>	bur ragweed	X	X	X
<i>Ambrosia trifida</i>	giant ragweed	X		
<i>Amelanchier utahensis</i>	Utah serviceberry		X	X
<i>Andropogon gerardii</i>	big bluestem		X	X
<i>Androstephium breviflorum</i>	purple funnel-lily	X	X	
<i>Apocynum cannabinum</i>	dogbane		X	
<i>Arabis</i> sp.	rockcress	X	X	X
<i>Arctium minus</i>	burdock		X	
<i>Arenaria fendleri</i>	fendler sandwort			X
<i>Aristida purpurea</i>	purple threeawn	X	X	X
<i>Artemisia bigelovii</i>	Bigelow sagebrush	X	X	X
<i>Artemisia dracunculus</i>	terragon		X	X
<i>Artemisia filifolia</i>	sand sagebrush		X	X
<i>Artemisia frigida</i>	fringed sagebrush		X	X
<i>Artemisia ludoviciana</i>	Louisiana wormwood	X	X	X
<i>Artemisia nova</i>	black sagebrush		X	X
<i>Artemisia spinescens</i>	budsage	X	X	
<i>Artemisia tridentata</i>	big sagebrush	X		X
<i>Asclepias speciosa</i>	showy milkweed	X	X	X
<i>Asclepias involucrata</i>	dwarf wilkweed			X
<i>Asclepias sanjuanensis</i>	San Juan milkweed	X	X	
<i>Asclepias subverticillata</i>	whorled milkweed	X	X	X
<i>Asparagus officinalis</i>	asparagus	X		
<i>Aster falcatus</i>	prairie aster	X		
<i>Aster occidentalis</i>	western aster	X		
<i>Astragalus amphioxys</i>	crescent milkvetch	X	X	X
<i>Astragalus calycosus</i>	torrey milkvetch	X	X	
<i>Astragalus ceramicus</i>	painted milkvetch	X	X	X
<i>Astragalus emoryanus</i>	emory milkvetch		X	
<i>Astragalus flavus</i>	yellow milkvetch		X	X
<i>Astragalus fucatus</i>	Hopi milkvetch	X	X	
<i>Astragalus kentrophyta</i>	spiny milkvetch		X	X
<i>Astragalus lentiginosus</i>	freckled milkvetch		X	X
<i>Astragalus lonchocarpus</i>	great rushy milkvetch	X		X
<i>Astragalus mollissimus</i>	wooly locoweed	X	X	X

Scientific Name	Common Name	Farmington to Shiprock	Hogback to Gallup	Cutter Dam to Starlake
<i>Astragalus newberryi</i>	newberry milkvetch		X	
<i>Astragalus nuttallianus</i>	small-flowered milkvetch	X	X	X
<i>Astragalus praelongus</i>	stinking milkvetch		X	
<i>Astragalus proximus</i>	Aztec milkvetch			X
<i>Astragalus sabulorum</i>	gravel milkvetch	X	X	
<i>Atriplex canescens</i>	four-wing saltbush	X	X	X
<i>Atriplex confertifolia</i>	shadscale	X	X	X
<i>Atriplex corrugata</i>	mat-saltbush	X	X	
<i>Atriplex powellii</i>	Powell orach	X	X	
<i>Atriplex saccaria</i>	stalked orach	X	X	X
<i>Atriplex gardneri</i>	castle valley saltbush	X	X	
<i>Atriplex obovata</i>	New Mexico saltbush	X	X	
<i>Avena fatua</i>	oats	X	X	
<i>Bahia dissecta</i>	cutleaf		X	
<i>Bassia hyssopifolia</i>	five-hook bassia	X	X	X
<i>Bouteloua barbata</i>	sixweeks grama	X	X	X
<i>Bouteloua curtipendula</i>	sideoats grama		X	
<i>Bouteloua eriopoda</i>	black grama		X	
<i>Bouteloua gracilis</i>	blue grama	X	X	X
<i>Brickellia longifolia</i>	longleaf brickellbush	X		X
<i>Brickellia microphylla</i>	rough brickellbush			X
<i>Brickellia oblongifolia</i>	mohave brickellbush			X
<i>Bromus anomalus</i>	nodding brome	X		X
<i>Bromus inermis</i>	smooth brome	X	X	
<i>Bromus japonicus</i>	Japanese brome	X	X	X
<i>Bromus tectorum</i>	cheatgrass	X	X	X
<i>Calochortus flexuosus</i>	straggling mariposa		X	
<i>Calochortus nuttallii</i>	sego lily		X	
<i>Camissonia scapoidea</i>	Paiute suncup		X	
<i>Capsella bursa-pastoris</i>	shepherds purse	X		
<i>Cardaria draba</i>	whitetop		X	
<i>Carduus nutans</i>	musk thistle	X	X	
<i>Carex</i> sp.	sedge	X		X
<i>Castilleja chromosa</i>	common paintbrush	X	X	X
<i>Castilleja integra</i>	wholeleaf paintbrush			X
<i>Castilleja linariifolia</i>	narrowleaf paintbrush	X	X	X
<i>Cenchrus longispinus</i>	field sandbur	X	X	
<i>Centaurea repens</i>	russian knapweed	X	X	X
<i>Ceratoides lanata</i>	winterfat	X	X	X
<i>Cercocarpus montanus</i>	mountain mahogany			X
<i>Chaenactis stevioides</i>	stevia dusty-maiden	X	X	X
<i>Chamaesaracha coronopus</i>	green false nightshade		X	X
<i>Chenopodium fremontii</i>	fremont goosefoot		X	X
<i>Chenopodium leptophyllum</i>	narrowleaf goosefoot	X	X	X

Scientific Name	Common Name	Farmington to Shiprock	Hogback to Gallup	Cutter Dam to Starlake
<i>Chloris virgata</i>	feather fingergrass	X	X	
<i>Chorispora tenella</i>	musk-mustard	X	X	X
<i>Chrysothamnus Greenei</i>	Greene rabbitbrush	X	X	X
<i>Chrysothamnus linifolius</i>	spreading rabbitbrush	X		X
<i>Chrysothamnus nauseosus</i>	rubber rabbitbrush	X	X	X
<i>Chrysothamnus viscidiflorus</i>	viscid rabbitbrush		X	X
<i>Cichorium intybus</i>	chickory	X	X	
<i>Cirsium arvense</i>	Canada thistle	X		
<i>Cirsium undulatum</i>	gray thistle			X
<i>Clematis ligusticifolia</i>	white virgins-bower		X	
<i>Cleome serrulata</i>	Rocky Mountain beeplant		X	X
<i>Cleomella palmeriana</i>	Rocky Mountain stickweed		X	
<i>Collinsia parviflora</i>	blue-eyed mary	X		X
<i>Comandra umbellata</i>	bastard toadflax		X	X
<i>Convolvulus arvensis</i>	bindweed	X		X
<i>Conyza canadensis</i>	horseweed	X	X	X
<i>Cordylanthus wrightii</i>	wright birdsbeak			X
<i>Coryphantha vivipara</i>	purple ballcactus	X	X	
<i>Coryphantha vivipara</i>	ball cactus			X
<i>Cowania mexicana</i>	cliffrose		X	X
<i>Crepis occidentalis</i>	western hawksbeard			X
<i>Cryptantha cinerea</i>	James cryptanth	X	X	X
<i>Cryptantha confertifolia</i>	golden cryptanth			X
<i>Cryptantha crassisepala</i>	plains cryptanth	X	X	X
<i>Cryptantha flava</i>	yellow cryptanth			X
<i>Cryptantha flavoculata</i>	yellow-eye cryptanth			X
<i>Cryptantha fulvocanescens</i>	yellow-hair cryptanth			X
<i>Cryptantha gracilis</i>	slender cryptanth			X
<i>Cuscuta</i> sp.	dodder		X	
<i>Cymopterus acaulis</i>	plains spring-parsley	X		
<i>Cymopterus bulbosus</i>	onion spring-parsley		X	
<i>Cymopterus purpurascens</i>	widewing spring-parsley	X		
<i>Cynodon dactylon</i>	bermuda grass	X	X	
<i>Dactylis glomerata</i>	orchard grass	X	X	
<i>Dalea lanata</i>	wooly dalea		X	
<i>Dalea oligophylla</i>	western prairie-clover		X	X
<i>Delphinium andersonii</i>	anderson larkspur	X	X	X
<i>Descurainia pinnata</i>	pinate tansy-mustard	X	X	
<i>Descurainia sophia</i>	flixweed tansy-mustard	X	X	X
<i>Dicora brandegei</i>	brandege sandplant		X	
<i>Distichlis spicata</i>	desert saltgrass	X	X	
<i>Dithyrea wislizenii</i>	spectacle pod	X	X	X
<i>Draba cuneifolia</i>	wedgeeaf	X		X
<i>Dracocephalum parviflorum</i>	common dragonhead	X	X	

Scientific Name	Common Name	Farmington to Shiprock	Hogback to Gallup	Cutter Dam to Starlake
<i>Dyssodia papposa</i>	pappose glandweed	X	X	X
<i>Echinocereus fendleri</i>	fendler strawberry cactus		X	
<i>Echinocereus triglochidiatus</i>	hedgehog cactus		X	X
<i>Echinochola crus-galli</i>	barnyard grass	X		
<i>Elaeagnus angustifolia</i>	Russian olive	X	X	X
<i>Eleocharis palustris</i>	creeping spikerush	X		X
<i>Elymus canadensis</i>	Canada wildrye	X	X	X
<i>Elymus elongatus</i>	tall wheatgrass	X	X	
<i>Elymus repens</i>	quackgrass	X	X	
<i>Elymus smithii</i>	western wheatgrass	X	X	X
<i>Elymus trachycaulus</i>	slender wheatgrass	X	X	X
<i>Ephedra cutleri</i>	cutler joint-fir		X	X
<i>Ephedra torreyana</i>	torrey joint-fir	X	X	X
<i>Ephedra viridis</i>	Mormon tea	X	X	X
<i>Equisetum arvense</i>	meadow horsetail	X		
<i>Equisetum hyemale</i>	common scouringrush	X		
<i>Eremopyrum triticeum</i>	annual wheatgrass	X	X	X
<i>Eriastrum diffusum</i>	spreading eriastrum	X	X	X
<i>Erigeron bellidiastrum</i>	pretty daisy		X	
<i>Erigeron divergens</i>	spreading daisy	X	X	X
<i>Erigeron flagellaris</i>	trailing daisy			X
<i>Erigeron pulcherrimus</i>	basin daisy			X
<i>Eriogonum alatum</i>	winged buckwheat		X	X
<i>Eriogonum cernuum</i>	nodding buckwheat		X	X
<i>Eriogonum corymbosum</i>	corymb buckwheat		X	X
<i>Eriogonum divaricatum</i>	spreading buckwheat	X	X	X
<i>Eriogonum gordonii</i>	gordon buckwheat	X	X	
<i>Eriogonum jamesii</i>	james buckwheat		X	X
<i>Eriogonum leptocladon</i>	sand buckwheat		X	X
<i>Eriogonum leptophyllum</i>	slenderleaf buckwheat	X	X	X
<i>Eriogonum microthecum</i>	slender buckwheat	X	X	
<i>Eriogonum salsuginosum</i>	smooth buckwheat	X	X	
<i>Eriogonum shockleyi</i>	shockley buckwheat	X		
<i>Eriogonum umbellatum</i>	sulfur buckwheat			X
<i>Eriogonum wetherillii</i>	wetherill buckwheat		X	
<i>Erioneuron pulchellum</i>	fluffgrass	X	X	
<i>Erodium cicutarium</i>	storksbill	X	X	X
<i>Erysimum asperum</i>	pretty wallflower			X
<i>Erysimum capitatum</i>	western wallflower			X
<i>Euphorbia fendleri</i>	fendler spurge	X	X	X
<i>Euphorbia glyptosperma</i>	ridgeseeded spurge		X	
<i>Euphorbia parryi</i>	parry spurge	X	X	X
<i>Evolvulus nuttallianus</i>	nuttall evolvulus	X		X
<i>Festuca octoflora</i>	sixweeks fescue	X	X	X

Scientific Name	Common Name	Farmington to Shiprock	Hogback to Gallup	Cutter Dam to Starlake
<i>Forestiera pubescens</i>	New Mexico desert olive	X	X	
<i>Frankenia jamesii</i>	james frankenia	X	X	
<i>Fraxinus anomala</i>	singleleaf ash		X	
<i>Fraxinus cuspidata</i>	flowering ash		X	
<i>Gaillardia pinnatifida</i>	Hopi blanketflower	X	X	X
<i>Gaillardia pulchella</i>	blanketflower		X	
<i>Gaura coccinea</i>	scarlet gaura		X	
<i>Gaura parviflora</i>	willow gaura	X	X	
<i>Gilia aggregata</i>	scarlet gilia			X
<i>Gilia formosa</i>	Aztec glia			X
<i>Gilia gunnisonii</i>	gunnison gilia		X	
<i>Gilia haydenii</i>	hayden gilia		X	X
<i>Gilia leptomeria</i>	slender gilia	X		X
<i>Gilia multiflora</i>	blue starflower			X
<i>Glycyrrhiza lepidota</i>	licorice	X	X	
<i>Grindelia squarosa</i>	curly gumweed	X	X	
<i>Gutierrezia sarothrae</i>	broom snakeweed	X	X	X
<i>Halogeton glomeratus</i>	halogeton	X	X	X
<i>Haplopappus armerioides</i>	thrifty goldenweed			X
<i>Haplopappus drummondii</i>	drummond goldenweed		X	X
<i>Haplopappus spinulosus</i>	spiny goldenweed		X	X
<i>Helianthus annuus</i>	common sunflower	X	X	
<i>Helianthus petiolaris</i>	prairie sunflower	X	X	X
<i>Heterotheca villosa</i>	hairy goldenaster	X	X	X
<i>Hilaria jamesii</i>	galleta	X	X	X
<i>Hilaria rigida</i>	big galleta		X	
<i>Hordeum jubatum</i>	foxtail barley	X	X	X
<i>Hordeum murinum</i>	rabbit barley		X	
<i>Hordeum pusillum</i>	little barley	X	X	X
<i>Hymenopappus filifolius</i>	hyalineherb	X	X	X
<i>Hymenoxys acaulis</i>	stemless woolybase	X	X	X
<i>Hyoscyamus niger</i>	henbane		X	
<i>Ipomopsis longiflora</i>	whiteflower false gilia			X
<i>Iva axillaris</i>	poverty weed		X	
<i>Juncus balticus</i>	wire rush	X		X
<i>Juncus ensifolius</i>	swordleaf rush	X		
<i>Juncus sp.</i>	rush		X	
<i>Juniperus osteosperma</i>	Utah juniper	X		X
<i>Kochia scoparia</i>	summer-cypress	X	X	X
<i>Lactuca serriola</i>	prickly lettuce	X	X	
<i>Lappula occidentalis</i>	western stickseed	X	X	X
<i>Lathyrus sp.</i>	sweetpea		X	
<i>Lepidium montanum</i>	pepperweed		X	
<i>Lepidium perfoliatum</i>	peppergrass			X

Scientific Name	Common Name	Farmington to Shiprock	Hogback to Gallup	Cutter Dam to Starlake
<i>Leptodactylon pungens</i>	granite prickly gilia	X		X
<i>Lesquerella fendleri</i>	fendler bladderpod			X
<i>Lesquerella</i> sp.	bladderpod	X		
<i>Leucelene ericoides</i>	rose-heath	X	X	X
<i>Linum perenne</i>	blue flax		X	
<i>Linum puberulum</i>	plains flax	X	X	X
<i>Lithospermum incisum</i>	showy stoneseed		X	X
<i>Lupinus pusillus</i>	dwarf lupine	X	X	X
<i>Lycium pallidum</i>	pale wolfberry	X	X	X
<i>Lygodesmia grandiflora</i>	showy rushpink	X	X	X
<i>Machaeranthera canescens</i>	hoary aster	X	X	X
<i>Machaeranthera grindelioides</i>	gumweed aster		X	X
<i>Machaeranthera tanacetifolia</i>	tansyleaf aster	X	X	
<i>Malcomia africana</i>	African mustard		X	
<i>Malacothrix sonchoides</i>	sow-thistle desert dandelion		X	
<i>Malva neglecta</i>	common mallow	X	X	
<i>Marrubium vulgare</i>	common horehound	X	X	X
<i>Medicago lupulina</i>	black medick	X	X	X
<i>Medicago sativa</i>	alfalfa	X	X	
<i>Melilotus albus</i>	white sweetclover	X	X	
<i>Melilotus officinalis</i>	yellow sweetclover	X	X	X
<i>Mentzelia albicaulis</i>	stickleaf	X	X	X
<i>Mentzelia pumila</i>	dwarf stickleaf	X	X	X
<i>Microsteris gracilis</i>	slender false phlox	X		X
<i>Mirabilis linearis</i>	narrowleaf umbrellawort	X	X	X
<i>Mirabilis multiflora</i>	Colorado four o'clock		X	X
<i>Monolepis nuttalliana</i>	povertyweed		X	X
<i>Muhlenbergia pungens</i>	sandhill muhly	X	X	X
<i>Muhlenberia asperifolia</i>	scratchgrass muhly	X	X	X
<i>Munroa squarrosa</i>	alse buffalograss	X	X	X
<i>Nama hispidum</i>	bristly nama		X	X
<i>Oenothera caespitosa</i>	morning lily	X	X	X
<i>Oenothera pallida</i>	pale evening primrose	X	X	
<i>Oenothera albicaulis</i>	whitestem evening primrose		X	X
<i>Opuntia phaeacantha</i>	engelmann prickly pear		X	X
<i>Opuntia polycantha</i>	pricklypear cactus	X	X	X
<i>Opuntia whipplei</i>	whipple chola cactus	X	X	X
<i>Orobancha fasciculata</i>	cluster cancerroot	X	X	
<i>Orobancha ludoviciana</i>	broomrape			X
<i>Oryzopsis hymenoides</i>	indian ricegrass	X	X	X
<i>Oxytropis lambertii</i>	lambert locoweed	X		X
<i>Penstemon angustifolius</i>	narrowleaf penstemon	X	X	X
<i>Penstemon breviculus</i>	narrow mouth penstemon			X
<i>Penstemon eatonii</i>	eaton penstemon		X	

Scientific Name	Common Name	Farmington to Shiprock	Hogback to Gallup	Cutter Dam to Starlake
<i>Petalostemon purpureum</i>	prairie-clover		X	
<i>Petradoria pumila</i>	rock goldenrod			X
<i>Phacelia crenulata</i>	torrey scorpionweed	X	X	X
<i>Phacelia integrifolia</i>	crenateleaf scorpionweed	X	X	X
<i>Phleum pratense</i>	timothy	X	X	X
<i>Phlox hoodii</i>	carpet phlox			X
<i>Phlox longifolia</i>	longleaf phlox	X		X
<i>Phoradendron juniperinum</i>	juniper mistletoe			X
<i>Phragmites australis</i>	common reed	X	X	X
<i>Physalis sp.</i>	ground cherry	X	X	
<i>Physaria newberryi</i>	newberry twinpod		X	X
<i>Pinus edulis</i>	pinyon			X
<i>Plantago lanceolata</i>	buckhorn plantain	X	X	X
<i>Plantago major</i>	broadleaf plantain	X	X	X
<i>Plantago patagonica</i>	wooly plantain	X	X	X
<i>Platyschkuhria integrifolia</i>	oblongleaf bahia	X	X	X
<i>Poa annua</i>	annual bluegrass		X	X
<i>Poa fendleriana</i>	muttongrass			X
<i>Poa palustris</i>	fowl bluegrass	X		
<i>Poa pratensis</i>	Kentucky bluegrass	X		
<i>Poliomintha incana</i>	purple sage		X	
<i>Polygonum aviculare</i>	knotweed	X	X	X
<i>Polypogon monspeliensis</i>	rabbitfoot grass	X	X	X
<i>Populus acuminata</i>	lanceleaf cottonwood	X		
<i>Populus fremontii</i>	fremont cottonwood	X	X	X
<i>Portulaca oleracea</i>	purslane	X	X	X
<i>Psoralidium lanceolatum</i>	dune scurfpea	X		X
<i>Puccinellia distans</i>	weeping alkaligrass		X	X
<i>Puccinellia nuttalliana</i>	nuttall alkaligrass		X	X
<i>Purshia tridentata</i>	antelope bitterbrush		X	X
<i>Quercus gambelii</i>	gambel oak		X	X
<i>Ranunculus cymbalaria</i>	marsh buttercup	X	X	
<i>Ranunculus testiculatus</i>	bur buttercup	X		X
<i>Ratibida columnifera</i>	prairie coneflower	X	X	
<i>Rhus aromatica</i>	skunkbush sumac	X	X	
<i>Rumex crispus</i>	curled dock	X	X	X
<i>Rumex hymenosepalus</i>	canaigre dock		X	X
<i>Salix exigua</i>	coyote willow	X	X	X
<i>Salix sp.</i>	willow	X		
<i>Salsola iberica</i>	tumbleweed	X	X	X
<i>Sarcobatus vermiculatus</i>	greasewood	X	X	X
<i>Schoenrambe linifolia</i>	flaxleaf plains mustard			X
<i>Scirpus pungens</i>	common threesquare	X		X
<i>Sclerocactus cloveriae</i>	clover fishhook cactus			X

Scientific Name	Common Name	Farmington to Shiprock	Hogback to Gallup	Cutter Dam to Starlake
<i>Sclerocactus mesa-verde</i>	Mesa Verde cactus		X	
<i>Sclerocactus parviflorus</i>	devil's claw	X	X	
<i>Senecio douglasii</i>	Douglas groundsel	X	X	X
<i>Senecio multilobatus</i>	Uinta groundsel	X		X
<i>Senecio spartioides</i>	broom groundsel	X	X	X
<i>Setaria glauca</i>	yellow bristlegrass	X		
<i>Setaria verticillata</i>	bur bristlegrass		X	
<i>Sisymbrium altissimum</i>	tumbling mustard	X	X	X
<i>Sitanion hystrix</i>	squirreltail grass	X	X	X
<i>Solanum elaeagnifolium</i>	silverleaf nightshade		X	
<i>Solanum rostratum</i>	buffalobur	X	X	
<i>Solanum triflorum</i>	cutleaf nightshade	X	X	
<i>Solidago canadensis</i>	goldenrod	X		
<i>Sonchus oleraceus</i>	common sow-thistle	X		X
<i>Sophora stenophylla</i>	silvery sophora		X	
<i>Sorghum halepense</i>	johnson grass		X	
<i>Sphaeralcea coccinea</i>	common globemallow	X	X	X
<i>Sphaeralcea fendleri</i>	fendlers globemallow			X
<i>Sphaeralcea parviflora</i>	nelson globemallow	X	X	
<i>Sporobolus airoides</i>	alkali saccaton	X	X	X
<i>Sporobolus contractus</i>	spike dropseed	X	X	X
<i>Sporobolus cryptandrus</i>	sand dropseed	X	X	X
<i>Sporobolus flexuosus</i>	mesa dropseed	X		
<i>Sporobolus giganteus</i>	giant dropseed	X	X	X
<i>Stanleya pinnata</i>	prince's plume		X	X
<i>Stephanomeria exigua</i>	annual wirelettuce	X		X
<i>Stipa comata</i>	needle and thread grass	X	X	X
<i>Stipa neomexicana</i>	New Mexico feathergrass		X	X
<i>Streptanthella longirostris</i>	blackpod nippletwist			X
<i>Streptanthus cordatus</i>	heartleaf twistflower			X
<i>Suaeda torreyana</i>	torrey seepweed	X	X	X
<i>Swertia utahensis</i>	Utah swertia			X
<i>Tamarix ramosissima</i>	saltcedar	X	X	X
<i>Taraxacum officinale</i>	common dandelion	X	X	X
<i>Tetradymia canescens</i>	gray horsebrush		X	X
<i>Thelesperma megapotamicum</i>	Hopi tea greenthread	X	X	X
<i>Thelypodopsis aurea</i>	durango tumblemustard		X	X
<i>Townsendia annua</i>	annual townsendia		X	X
<i>Townsendia incana</i>	hoary townsendia	X	X	X
<i>Tragia ramosa</i>	noseburn		X	
<i>Tragopogon dubius</i>	yellow salsify	X	X	X
<i>Tragopogon pratensis</i>	goatsbeard		X	
<i>Tribulus terrestris</i>	puncture vine	X		
<i>Triglochin maritima</i>	maritime arrowgrass			X

<b>Scientific Name</b>	<b>Common Name</b>	<b>Farmington to Shiprock</b>	<b>Hogback to Gallup</b>	<b>Cutter Dam to Starlake</b>
<i>Tripterocalyx carneus</i>	wooton sand verbena	X	X	
<i>Typha latifolia</i>	broad-leaved cattail	X		X
<i>Ulmus pumila</i>	Chinese elm	X	X	
<i>Verbascum thapsus</i>	wooly mullein	X		
<i>Verbena bipinnatifida</i>	Dakota vervain			X
<i>Verbena bracteata</i>	prostrate vervain	X		X
<i>Wyethia scabra</i>	rough mulesears		X	
<i>Xanthium strumarium</i>	cocklebur	X	X	X
<i>Yucca angustissima</i>	narrow-leaved yucca	X		X
<i>Yucca bacata</i>	broadleaf yucca			X
<i>Yucca harimaniae</i>	Harriman yucca	X		X