

FLORA OF THE UPLANDS AND ADJACENT CANADIAN RIVER FLOODPLAIN
in Far Eastern San Miguel County, New Mexico

by

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January 22, 2010

This list of plant species was compiled while performing a threatened and endangered plant survey on two proposed gravel pit sites and two proposed haulage roads on private property in eastern San Miguel County within 2 miles of the Quay County line. This location is about 9 miles north of Tucumcari, NM and is just south of the far western end of the Ute Reservoir. The survey took place June 6-7 and 17-18, 2008.

The recorded species are primarily upland species from the two proposed gravel pit sites and associated haulage roads. The two gravel pit sites lie on cobble and gravel deposits of Quaternary origin (New Mexico Bureau of Geology and Mineral Resources 2003).

The general vegetation in the uplands is a shrubby grassland. Perennial grasses, honey mesquite (*Prosopis glandulosa*) and yucca (*Yucca* spp.) are the dominant plants. The dominant perennial grasses include buffalo grass (*Buchloe dactyloides*), galleta (*Pleuraphis jamesii*) and burrograss (*Scleropogon brevifolius*). Fragrant mimosa (*Mimosa borealis*) is a common shrub in cobble-dominated areas. Bare ground (including cobbles) varies from 35 to 50%.

The edge of the Canadian River floodplain was briefly examined. The vegetation includes salt cedar (*Tamarix chinensis*) and coyote willow (*Salix exigua*) stands. Wetlands are present. Common plants in the wetlands include coyote willow, common threesquare bulrush (*Schoenoplectus pungens*), salt cedar, spikerush (*Eleocharis* sp), inland saltgrass (*Distichlis spicata* var. *stricta*), rabbit-foot grass (*Polypogon monspeliensis*), foxtail barley (*Hordeum jubatum*) and common sunflower (*Helianthus annuus*). Great Plains seep-willow (*Baccharis salicina*) is common in a drier location.

A small wetland dominated by common threesquare bulrush was found in a depression within the uplands. Jersey rabbit-tobacco (*Pseudognaphalium luteoalbum*) was exclusively found in this small wetland. The collected jersey rabbit-tobacco specimen has been reported in The New Mexico Botanist (McGrath 2009). The specimen is only the second record of this species reported in New Mexico (the other was from Hidalgo County).

SPECIES LIST. A total of 144 species were recorded during this survey and are listed below. A (W) following the species name indicates a species exclusively found in

wetlands. Nomenclature follows Allred (2007), but the author sometimes gets creative with common names or borrows common names from other sources.

SPECIES

TREES

<i>Celtis reticulata</i>	Western hackberry
<i>Juniperus monosperma</i>	One-seed juniper
<i>Populus deltoides</i> ssp. <i>monilifera</i> (W)	Eastern cottonwood
<i>Salix amygdaloides</i> (W)	Peachleaf willow
<i>Tamarix chinensis</i> (W)	Salt cedar

SHRUBS

<i>Artemisia filifolia</i>	Sand sage
<i>Atriplex canescens</i>	Four-wing saltbush
<i>Baccharis salicina</i> (W)	Great Plains seep-willow
<i>Dalea formosa</i>	Feather dalea
<i>Ephedra torreyana</i>	Torrey joint-fir
<i>Krascheninnikovia lanata</i>	Winterfat
<i>Mimosa borealis</i>	Fragrant mimosa
<i>Prosopis glandulosa</i>	Honey mesquite
<i>Rhus microphylla</i>	Littleleaf sumac
<i>Rhus trilobata</i>	Skunkbush sumac
<i>Salix exigua</i> (W)	Coyote willow
<i>Yucca campestris</i>	Plains yucca
<i>Yucca glauca</i>	Soapweed yucca

SUBSHRUBS AND CACTI

<i>Echinocereus viridiflorus</i>	Green pitaya
<i>Coryphantha vivipara</i>	Spinystar
<i>Cylindropuntia davisii</i>	Davis cholla
<i>Cylindropuntia imbricata</i>	Cane cholla
<i>Cylindropuntia leptocaulis</i>	Christmas cactus
<i>Gutierrezia sarothrae</i>	Broom snakeweed
<i>Krameria lanceolata</i>	Trailing ratany
<i>Opuntia phaeacantha</i>	Brown-spine prickly pear
<i>Opuntia polyacantha</i>	Starvation prickly pear

GRAMINOIDS (grasses and grass-like plants)

<i>Andropogon</i> sp.	Bluestem
<i>Aristida purpurea</i> var. <i>purpurea</i>	Purple threeawn
<i>Aristida purpurea</i> var. <i>nealleyi</i>	Nealley threeawn
<i>Bolboschoenus maritimus</i> ssp. <i>paludosus</i> (W)	Alkali bulrush
<i>Bothriochloa laguroides</i> ssp. <i>torreyana</i>	Silver bluestem
<i>Bouteloua curtipendula</i>	Side-oats grama
<i>Bouteloua gracilis</i>	Blue grama
<i>Bouteloua hirsuta</i>	Hairy grama

Bromus catharticus
Bromus inermis
Buchloe dactyloides
Cenchrus spinifex
Digitaria pubiflora
Distichlis spicata var. *stricta* (W)
Eleocharis sp. (W)
Elymus glaucus
Elymus longifolius
Erioneuron pilosum
Hordeum jubatum (W)
Hordeum pusillum
Juncus sp. (W)
Muhlenbergia porteri
Muhlenbergia torreyi
Munroa squarrosa
Pleuraphis jamesii
Polypogon monspeliensis (W)
Schizachyrium scoparium
Schoenoplectus acutus var. *occidentalis* (W)
Schoenoplectus pungens (W)
Scleropogon brevifolius
Setaria leucopila
Sphenopholis obtusata (W)
Sporobolus cryptandrus
Sporobolus wrightii
Typha angustifolia (W)
Typha domingensis (W)

FORBS

Abronia fragrans
Acleisanthes diffusa
Amaranthus wrightii
Ambrosia psilostachya
Apocynum sp. (W)
Artemisia ludoviciana
Asclepias asperula
Asclepias engelmanniana
Asclepias oenotheroides
Astragalus sp.
Berlandiera lyrata
Calylophus berlandieri subsp. *berlandieri*
Calylophus lavandulifolius
Cevallia sinuata
Chaetopappa ericoides
Chamaesyce fendleri

Rescue grass
Smooth brome
Buffalo grass
Common sandbur
Fall witchgrass
Inland saltgrass
Spikerush
Blue wild rye
Bottlebrush squirreltail
Hairy tridens
Foxtail barley
Little wild barley
Rush
Bush muhly
Ring muhly
False buffalo grass
Galleta
Rabbit-foot grass
Little bluestem
Hardstem bulrush
Common threesquare
Burrograss
Plains bristlegrass
Prairie wedgescale
Sand dropseed
Giant sacaton
Narrowleaf cattail
Southern cattail

Fragrant sand verbena
Spreading moonpod
Wright's amaranth
Western ragweed
Dogbane
Louisiana wormwood
Antelope horns
Engelmann milkweed
Zizotes milkweed
Milkvetch
Chocolate flower
Berlandier's sundrops
Lavender-leaf sundrops
Stinging serpent
Sand aster
Fendler spurge

<i>Chamaesyce lata</i>	Hoary spurge
<i>Chamaesyce serrula</i>	Saw-tooth spurge
<i>Chenopodium album</i>	Lamb's quarter
<i>Chenopodium incanum</i>	Mealy goosefoot
<i>Cirsium ochrocentrum</i>	Yellow spine thistle
<i>Convolvulus equitans</i>	Texas bindweed
<i>Corydalis aurea</i>	Golden smoke
<i>Croton pottsii</i>	Leatherweed
<i>Croton texensis</i>	Texas croton
<i>Cryptantha minima</i>	Little cat's-eye
<i>Cucurbita foetidissima</i>	Buffalo gourd
<i>Dalea jamesii</i>	James prairie clover
<i>Dalea purpurea</i>	Purple prairie clover
<i>Descurainia sophia</i>	Flixweed
<i>Engelmannia peristenia</i>	Engelmann's daisy
<i>Eriogonum tenellum</i>	Tall wild buckwheat
<i>Euphorbia strictior</i>	Panhandle spurge
<i>Gaillardia pulchella</i>	Firewheel
<i>Gaura coccinea</i>	Scarlet bee-blossom
<i>Helianthus annuus</i>	Common sunflower
<i>Helianthus petiolaris</i>	Plains sunflower
<i>Hoffmannseggia drepanocarpa</i>	Sicklepod hog potato
<i>Hoffmannseggia glauca</i>	Waxy rush-pea
<i>Hymenopappus flavescens</i>	Yellow woollywhite
<i>Ipomoea leptophylla</i>	Bush morning-glory
<i>Kochia scoparia</i>	Kochia
<i>Lappula occidentalis</i>	Stickseed
<i>Lepidium sp.</i>	Pepperweed
<i>Machaeranthera tanacetifolia</i>	Tahoka daisy
<i>Melampodium leucanthum</i>	Plains blackfoot-daisy
<i>Melilotus officinalis</i>	Yellow sweet clover
<i>Mentzelia multiflora</i>	Adonis blazing star
<i>Mentzelia sp. (M. nuda or M. decapetala)</i>	Blazing star
<i>Mimosa quadrivalvis var. occidentalis</i>	Western sensitive briar
<i>Mirabilis linearis</i>	Ribbon four o'clock
<i>Palafoxia rosea var. macrolepis</i>	Rosy palafox
<i>Paronychia jamesii</i>	James nailwort
<i>Penstemon ambiguus ssp. ambiguus</i>	Sand penstemon
<i>Physaria fendleri</i>	Fendler bladderpod
<i>Polanisia dodecandra ssp. trachysperma</i>	Clammyweed
<i>Polygala alba</i>	White milkwort
<i>Polygonum aviculare</i>	Yard knotweed
<i>Pomaria jamesii</i>	James hog potato
<i>Pseudognaphalium luteoalbum (W)</i>	Jersey rabbit-tobacco
<i>Psilostrophe tagetina</i>	Paper flower

<i>Psoralidium tenuiflorum</i>	Slender scurf pea
<i>Ratibida tagetes</i>	Short-ray coneflower
<i>Salsola tragus</i>	Tumbleweed
<i>Senecio flaccidus</i>	Threadleaf groundsel
<i>Senecio riddellii</i>	Riddell's groundsel
<i>Solanum elaeagnifolium</i>	Silverleaf nightshade
<i>Solanum rostratum</i>	Buffalo bur
<i>Sophora nuttalliana</i>	Silky sophora
<i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i>	Narrowleaf globe mallow
<i>Sphaeralcea coccinea</i>	Scarlet globemallow
<i>Stephanomeria pauciflora</i>	Few-flowered wire-lettuce
<i>Tetrandeum scaposum</i>	Naked rubberweed
<i>Teucrium laciniatum</i>	Lacy germander
<i>Thelesperma megapotamicum</i>	Indian tea
<i>Tidestromia lanuginosa</i>	Espanta vaquero
<i>Tragia nepetifolia</i>	Catnip noseburn
<i>Verbena bracteata</i>	Carpet vervain
<i>Xanthisma spinulosum</i>	Cutleaf goldenweed
<i>Xanthium strumarium</i> (W)	Cocklebur
<i>Zinnia grandiflora</i>	Plains zinnia

LITERATURE CITED

- Allred, K.W. 2007. A Working Index of New Mexico Vascular Plant Names. Interim draft version dated January 24, 2007. Range Science Herbarium, Dept. of Animal & Range Sciences, New Mexico State University, Las Cruces, NM.
- McGrath, J. 2009. Plant Distribution Reports. *The New Mexico Botanist* 47:7.
- New Mexico Bureau of Geology and Mineral Resources. 2003. Geologic Map of New Mexico. New Mexico Bureau of Geology and Mineral Resources, New Mexico Institute of Mining and Technology, Socorro, NM.