

Plants of Villanueva State Park, San Miguel County, New Mexico

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Plant Community Distribution

The vegetation of the south (north-facing) canyon slope consists of open woodland dominated by two-needle piñon and one-seed juniper. Scattered among these conifers are numerous wavy-leaf oaks and a few Gambel's oaks. Cacti, especially *Opuntia phaeacantha* and *O. polyacantha*, are common, along with a variety of shrubs, herbaceous plants, and grasses. On sheltered banks, mats of spikemosses cover areas of several square yards, and several species of ferns grow in rock crevices and in spikemoss mats.

On the north (south-facing) canyon slope, two-needle piñons and one-seeded junipers are also dominant, with numerous shrubs and occasional small trees of gray oak. Cacti, especially *Opuntia engelmannii*, are common.

Along the river banks, dense stands of coyote willow occur, together with box elders, cottonwoods, Russian olives, Siberian elms, and occasional salt cedars.

The recreational areas are dominated by large cottonwoods, box elders, black locust (planted) and ponderosa pines (planted). A variety of weedy native and exotic plants occur, including some designated New Mexico noxious weeds such as Scotch thistle and spotted knapweed.

The nomenclature in this list is based on: Kelly W. Allred. 2010. Flora Neomexicana. I: The Vascular Plants of New Mexico. New Mexico State University, Las Cruces, New Mexico. Symbols: E = exotic.

This list includes 234 species, belonging to 54 vascular plant families.

**Ferns and Fern Allies**

Equisetaceae

*Equisetum arvense* Linnaeus, field horsetail

*Equisetum laevigatum* A. Braun, smooth horsetail, scouring rush

Pteridaceae

*Argyrochosma limitanea* (Maxon) Windham, southwestern cloakfern

*Astrolepis sinuata* (Lagasca ex Swartz) D.M. Benthham & Windham, wavy cloakfern, cloakfern

*Cheilanthes eatonii* Baker, Eaton's lipfern

*Cheilanthes feei* Moore, Fee's lipfern

*Notholaena standleyi* Maxon, Standley's cloak-fern

*Pellaea atropurpurea* (Linnaeus) Link, purple cliffbrake

*Pellaea wrightiana* Hooker, Wright cliffbrake

Selaginellaceae

*Selaginella densa* Rydberg var. *densa*, dense spikemoss

*Selaginella mutica* D.C. Eaton ex Underwood var. *mutica*, blunt-leaf spikemoss

**Conifers**

Cupressaceae

*Juniperus monosperma* (Engelmann) Sargent, one-seed juniper

Pinaceae

*Pinus edulis* Engelmann, piñon pine

*Pinus scopulorum* (Engelmann) Lemmon, western yellow pine (planted)

**Flowering Plants: Dicotyledons**

Amaranthaceae

*Amaranthus blitoides* S. Watson, prostrate pigweed (E)

*Guilleminea densa* (Humboldt & Bonpland ex Willdenow) Moquin-Tandon, small matweed

Anacardiaceae

*Rhus trilobata* Nuttall var. *pilosissima* Engelmann, skunkbrush sumac

Apiaceae

*Conium maculatum* Linnaeus, poison-hemlock (E)

Apocynaceae

*Apocynum cannabinum* Linnaeus, Indian-hemp

Asclepiadaceae

*Asclepias asperula* (Decaisne) Woodson, antelope-horns

*Asclepias macrotis* Torrey, long-eared milkweed

*Asclepias oenotheroides* Chamisso & Schlechtendal, zizotes milkweed

*Asclepias subverticillata* (Gray) Vail, horsetail milkweed

*Funastrum hartwegii* (Vail) Schlechtendal, Hartweg's milkvine

Asteraceae

*Ageratina herbacea* (Gray) R. M. King & H. E. Robinson, fragrant snakeroot

*Amauriopsis dissecta* (Gray) Rydberg, ragged-leaf bahia

*Ambrosia psilostachya* A. P. de Candolle, perennial ragweed

*Artemisia frigida* Willdenow, fringed sage, estafiata

*Artemisia ludoviciana* Nuttall, Louisiana wormwood

*Baccharis salicina* Torrey & Gray, Great Plains seep-willow

*Berlandiera lyrata* Benthams, chocolate-flower, lyre-leaf greeneyes

*Brickellia brachyphylla* Gray, plumed brickell-bush

*Brickellia californica* (Torrey & Gray) Gray, California brickell-bush

*Brickellia eupatorioides* (Linnaeus) Shinnars, false boneset

*Centaurea stoebe* Linnaeus, spotted knapweed (E)  
*Chaetopappa ericoides* (Torrey) Nesom, sand-aster  
*Cirsium neomexicanum* Gray, New Mexico thistle  
*Cirsium ochrocentrum* Gray var. *ochrocentrum*, yellow-spine thistle  
*Conyza canadensis* (Linnaeus) Cronquist, horseweed (E)  
*Erigeron traceyi* Greene, running fleabane  
*Gaillardia pinnatifida* Torrey, red-dome blanket flower  
*Grindelia squarrosa* (Pursh) Dunal, curly-cup gumweed  
*Gutierrezia sarothrae* (Pursh) Britton & Rusby, broom snakeweed  
*Haploesthes greggii* Gray, var. *texana* (Coulter) I.M. Johnson, false broomweed ??  
*Helianthus annuus* Linnaeus, common sunflower  
*Heterotheca villosa* (Pursh) Shinnery, hairy golden-aster  
*Lactuca serriola* Linnaeus, prickly lettuce (E)  
*Machaeranthera tanacetifolia* (Kunth) Nees, Tahoka-daisy  
*Melampodium leucanthum* Torrey & Gray, plains blackfoot-daisy  
*Onopordum acanthium* Linnaeus, Scotch-thistle (E)  
*Pseudognaphalium canescens* (A. P. de Candolle) W. A. Weber, Wright's rabbit-tobacco  
*Psilostrophe tagetina* (Nuttall) Greene, paper-flower  
*Pyrropappus pauciflorus* (D. Don) A. P. de Candolle, Texas false-dandelion  
*Ratibida columnifera* (Nuttall) Wootton & Standley, Mexican-hat  
*Ratibida tagetes* (James) Barnhart, green Mexican-hat  
*Rudbeckia laciniata* Linnaeus, green-head coneflower  
*Scorzonera laciniata* Linnaeus, cut-leaf vipergrass (E)  
*Senecio flaccidus* Lessing var. *flaccidus*, thread-leaf groundsel  
*Solidago gigantea* Aiton, late goldenrod  
*Sonchus asper* (Linnaeus) Hill, spiny-leaf sow-thistle (E)  
*Stephanomeria pauciflora* (Torrey) A. Nelson, few-flowered wire-lettuce  
*Taraxacum officinale* G.H. Weber ex F.H. Wiggers, common dandelion (E)  
*Tetrandeum argentea* (Torrey) Greene, perky-Sue  
*Tetrandeum scaposum* (A. P. de Candolle) Greene, naked rubberweed  
*Thelaspisma megapotamicum* (Sprengel) Kuntze, Navajo-tea, Hopi-tea  
*Townsendia exscapa*, stemless Townsend-daisy  
*Tragopogon dubius* Scopoli, yellow salsify (E)  
*Tragopogon pratensis* Linnaeus, meadow salsify (E)  
*Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*, lacy sleep-daisy  
*Zinnia grandiflora* Nuttall, plains zinnia

#### Bignoniaceae

*Chilopsis linearis* (Cavanilles) Sweet, desert-willow (planted)

#### Boraginaceae

*Cryptantha crassisejala* (Torrey & Gray) Greene, thick-sepal cat's-eye  
*Lappula occidentalis* (S. Watson) Greene, spiny sheepbur  
*Lithospermum incisum* Lehmann, fringed gromwell  
*Lithospermum multiflorum* Torrey ex Gray, many-flowered gromwell

#### Brassicaceae

*Boechera fendleri* (S. Watson) W.A. Weber, Fendler's rock-cress

*Descurainia obtusa* (Greene) O. E. Schulz, blunt tansy-mustard  
*Descurainia sophia* (Linnaeus) Webb ex Prantl, flixweed (E)  
*Lepidium densiflorum* Schrader var. *densiflorum*, miner's pepperweed  
*Pennellia longifolia* (Bentham) Rollins, long-leaf thelypody (siliques hanging)  
*Hesperidanthus linearifolius* (Gray) Rydberg, slim-leaf plains-mustard (*Schoenocrambe*)  
*Sisymbrium altissimum* Linnaeus, tall hedge-mustard (E)  
*Turritis glabra* Linnaeus, tower-mustard

#### Cactaceae

*Cylindropuntia imbricata* (Haworth) F.M. Knuth, cane cholla  
*Echinocereus coccineus* Engelm., scarlet hedgehog cactus  
*Echinocereus triglochidiatus* Engelm., claret-cup cactus  
*Echinocereus viridiflorus* Engelm., nylon hedgehog-cactus  
*Mammillaria heyderi* Muhlenpfordt, Heyder's nipple cactus  
*Mammillaria wrightii* Engelm., Wright's nipple-cactus  
*Opuntia engelmannii* Salm-Dyck ex Engelm., Engelm.'s prickly-pear  
*Opuntia phaeacantha* Engelm., plains prickly-pear  
*Opuntia polyacantha* Haworth var. *polyacantha*, starvation prickly-pear

#### Cannabaceae

*Celtis reticulata* Torrey, netleaf hackberry

#### Chenopodiaceae

*Chenopodium fremontii* S. Watson, Fremont's goosefoot  
*Chenopodium leptophyllum* Nuttall, narrowleaf goosefoot  
*Kochia scoparia* (Linnaeus) Roth, kochia  
*Salsola collina* P.S. Pallas, slender Russian-thistle (E)  
*Salsola tragus* Linnaeus, prickly Russian-thistle (E)

#### Convolvulaceae

*Convolvulus arvensis* Linnaeus, field bindweed (E)  
*Convolvulus equitans* Benth., Texas bindweed  
*Evolvulus* sp., morning-glory

#### Cucurbitaceae

*Cucurbita foetidissima* Kunth, buffalo gourd

#### Eleagnaceae

*Eleagnus angustifolia* Linnaeus, Russian olive (E)

#### Euphorbiaceae

*Chamaesyce fendleri* (Torrey & Gray) Small, Fendler's spurge  
*Chamaesyce serpens* (Humboldt, Bonpland, & Kunth) Small, matted spurge  
*Croton texensis* (Klotzsch) Müller Argoviensis, Texas croton  
*Tragia ramosa* Torrey, branched noseburn

#### Fabaceae

*Acaciella angustissima* (Miller) Kuntze, prairie acacia

*Astragalus lotiflorus* Hooker, lotus milkvetch  
*Astragalus mollissimus* Torrey var. *mollissimus*, woolly locoweed  
*Astragalus nuttalianus* A. P. de Candolle var. *austrinus* (Small) Barneby, Nuttall's milkvetch  
*Calliandra humilis* Bentham, dwarf stick-pea  
*Dalea candida* Muhlenberg ex Willdenow, white prairie-clover  
*Dalea formosa* Torrey, feather-plume  
*Dalea jamesii* (Torrey) Torrey & Gray, James' prairie-clover  
*Dalea nana* Torrey ex Gray, dwarf prairie-clover  
*Dalea purpurea* Ventenat, purple prairie-clover  
*Desmanthus cooleyi* (Eaton) Trelease, Cooley's bundle-flower  
*Glycyrrhiza lepidota* Nuttall ex Pursh, American licorice  
*Hoffmannseggia drepanocarpa* Gray, sickle-pod hog-potato  
*Lathyrus eucosmus* Butters & St. John, bush sweetpea  
*Medicago lupulina* Linnaeus, black medic (E)  
*Medicago polymorpha* Linnaeus toothed medic (E)  
*Medicago sativa* Linnaeus, alfalfa (E)  
*Melilotus albus* Medikus, white sweet-clover (E)  
*Melilotus officinalis* (Linnaeus) Pallas, yellow sweet-clover (E)  
*Psoraleidium tenuifolium* (Pursh) Rydberg, scurf-pea  
*Robinia pseudo-acacia* Linnaeus, black locust (E)

#### Fagaceae

*Quercus gambelii* Nuttall, Gambel's oak  
*Quercus grisea* Liebman, gray oak  
*Quercus turbinella* Greene, desert scrub oak  
*Quercus x undulata* Torrey, pro. sp., wavy-leaf oak

#### Geraniaceae

*Erodium cicutarium* (Linnaeus) L'Heretier ex Aiton, red-stem storkbill, filaree (E)

#### Lamiaceae

*Hedeoma drummondii* Bentham, Drummond's false-pennyroyal  
*Monarda pectinacea* Nuttall, plains beebalm

#### Linaceae

*Linum neomexicanum* Greene, New Mexico yellow flax  
*Linum puberulum* (Engelmann) Heller, plains flax

#### Malvaceae

*Malva neglecta* Wallroth, dwarf cheeseweed (E)  
*Sphaeralcea angustifolia* (Cavanilles) G. Don, narrowleaf globemallow  
*Sphaeralcea coccinea* (Nuttall) Rydberg, scarlet globemallow  
*Sphaeralcea fendleri* Gray, Fendler's globemallow

#### Nyctaginaceae

*Mirabilis albida* (Walter) Heimerl, white four-o'clock  
*Mirabilis linearis* (Pursh) Heimerl, var. *linearis*, ribbon four-o'clock

*Mirabilis multiflora* (Torrey) Gray, Colorado four-o'clock

Oleaceae

*Menodora scabra* Gray, rough menodora

Onagraceae

*Oenothera albicaulis* Pursh, white-stem evening-primrose

*Oenothera cespitosa* Nuttall ex Fraser, tufted evening-primrose

*Oenothera curtiflora* W.L. Wagner & Hoch, velvetweed

*Oenothera hartwegii* (Benth.) Raven, Hartweg's sundrops

*Oenothera primiveris* Gray, early evening-primrose

*Oenothera suffrutescens* (Seringe) W.L. Wagner & Hoch, scarlet bee-blossom

Orobanchaceae

*Castilleja integra* Gray, southwestern paintbrush

Oxalidaceae

*Oxalis latifolia* Trelease, broad-leaf wood-sorrel

Plantaginaceae

*Penstemon barbatus* (Cavanilles) Roth, ssp. *torreyi* (Benth.) Keck, southwestern beardtongue

*Penstemon fendleri* Torrey & Gray, Fendler's beardtongue

*Penstemon jamesii* Benth., James's beardtongue

*Plantago lanceolata* Linnaeus, English plantain (E)

*Plantago patagonica* Jacquin, woolly plantain

Polemoniaceae

*Ipomopsis laxiflora* (Coulter) V. Grant, iron skyrocket

*Phlox nana* Nuttall, Santa Fe phlox

Polygonaceae

*Eriogonum jamesii* Benth., James's wild-buckwheat

*Eriogonum tenellum* Torrey, tall wild-buckwheat

*Polygonum aviculare* Linnaeus, yard knotweed (E)

*Rumex crispus* Linnaeus, curly dock (E)

Portulacaceae

*Portulaca oleracea* Linnaeus, garden purslane (E)

Ranunculaceae

*Clematis ligusticifolia* Nuttall, traveller's-joy

Rosaceae

*Fallugia paradoxa* (D. Don) Endlicher ex Torrey, Apache-plume

Salicaceae

*Populus deltoides* H. Marshall, ssp. *monilifera* (Aiton) Eckenwalder,  
cottonwood  
*Salix exigua* Nuttall, sandbar willow  
*Salix goodingii* Ball, Gooding's willow

eastern

Sapindaceae

*Acer negundo* Linnaeus, boxelder

Scrophulariaceae

*Verbascum thapsus* Linnaeus, common mullein (E)

Solanaceae

*Physalis hederifolia* Gray, ivy-leaf ground-cherry  
*Physalis virginiana* Miller, Virginia ground-cherry  
*Solanum eleagnifolium* Cavanilles, silverleaf nightshade

Tamaricaceae

*Tamarix chinensis* Loureiro, saltcedar, tamarisk (E)

Ulmaceae

*Ulmus pumila* Linnaeus, Siberian elm (E)

Verbenaceae

*Aloysia wrightii* (Gray) Heller ex Abrams, Wright's beebush  
*Verbena bracteata* Lagasca & Rodríguez, weed verbena, carpet vervain

Viscaceae

*Phoradendron juniperum* Engelmann, juniper mistletoe

Vitaceae

*Parthenocissus vitacea* (Knerr) A.S. Hitchcock, thicket creeper  
*Vitis arizonica* Engelmann, canyon grape

Zygophyllaceae

*Tribulus terrestris* Linnaeus, puncture-vine (E)

**Flowering Plants: Monocotyledons**

Agavaceae

*Yucca baccata* Torrey, banana yucca  
*Yucca baileyi* Wooton & Standley var. *intermedia* (McKelvey) Reveal, Bailey's yucca

Commelinaceae

*Commelina erecta* Linnaeus var. *angustifolia* (Michaux) Fernald, white-mouth dayflower  
*Tradescantia occidentalis* (Britton) Smyth var. *occidentalis*, western spiderwort

## Cyperaceae

- Carex aquatilis* Wahlenberg, leafy tussock sedge
- Carex geophila* Mackenzie, White Mountain sedge
- Cyperus fendlerianus* Boeckeler, Fendler's flat-sedge

## Juncaceae

- Juncus arcticus* Willdenow var. *balticus* (Willdenow) Trautvetter, Baltic rush

## Nolinaceae

- Nolina texana* S. Watson, Texas beargrass, sacahuista

## Poaceae

- Achnatherum scribneri* (Vasey) Barkworth, Scribner's needlegrass
- Aristida purpurea* Nuttall var. *fendleriana* (Steudel) Vasey, Fendler threeawn
- Aristida purpurea* Nuttall var. *longiseta* (Steudel) Vasey, red threeawn
- Bothriochloa laguroides* (A. P. de Candolle) Herter, silver bluestem
- Bothriochloa springfieldii* (Gould) Parodi, Springfield's bluestem
- Bouteloua curtipendula* (Michaux) Torrey, sideoats grama
- Bouteloua dactyloides* (Nuttall) J.T. Columbus, buffalo grass
- Bouteloua eriopoda* (Torrey) Torrey, black grama
- Bouteloua gracilis* (Willdenow ex Kunth) Lagasca ex Griffiths, blue grama
- Bouteloua hirsuta* Lagasca, hairy grama
- Bromus catharticus* Vahl, rescuegrass (E)
- Bromus inermis* Leysser, smooth brome (E)
- Bromus japonicus* Thunberg ex Murray, Japanese brome (E)
- Bromus lanatipes* (Shear) Rydberg, shaggy brome
- Bromus tectorum* Linnaeus, cheatgrass (E)
- Chloris verticillata* Nuttall, tumble windmillgrass
- Cynodon dactylon* (Linnaeus) Persoon, Bermudagrass (E)
- Dactylus glomerata* Linnaeus, orchardgrass (E)
- Distichlis spicata* (Linnaeus) Greene, inland saltgrass
- Elymus canadensis* Linnaeus, Canada wildrye
- Elymus longifolius* (Smith) Gould, longleaf squirreltail
- Elymus smithii* (Rydberg) Gould, western wheatgrass
- Eragrostis curvula* (Schrader) Nees var. *curvula*, weeping lovegrass
- Eragrostis intermedia* A.S. Hitchcock, plains lovegrass
- Festuca arundinacea* Schreber, tall fescue (E)
- Festuca thurberi* Vasey, Thurber's fescue
- Hesperostipa comata* (Trinius & Ruprecht) Barkworth, needle-and-thread
- Hesperostipa neomexicana* (Thurber) Barkworth, New Mexico feathergrass
- Hopia obtusa* (Kunth) Zuloaga & Morrone, vine mesquite
- Hordeum murinum* Linnaeus, wall barley (E)
- Koeleria macrantha* (Ledebour) J.A. Schultes, Junegrass
- Lycurus setosus* (Nuttall) C. Reeder, bristly wolftail
- Muhlenbergia asperifolia* (Nees & Meyer ex Trinius) Parodi, scratchgrass
- Muhlenbergia porteri* Schribner ex Beal, bush muhly
- Pleuraphis jamesii* Torrey, galleta
- Poa fendleriana* (Steudel) Vasey, Fendler muttongrass



*Poa pratensis* Linnaeus, Kentucky bluegrass (E)  
*Schizachyrium scoparium* (Michaux) Nash, little bluestem  
*Setaria leucopila* (Scribner & Merrill) K. Schumann, plains bristlegrass  
*Sporobolus airoides* (Torrey) Torrey, alkali sacaton  
*Sporobolus cryptandrus* (Torrey) Gray, sand dropseed  
*Vulpia octoflora* (Walter) Rydberg, sixweeks-fescue

Nomenclature revised 14 July 2011