

Annotated List of the Vascular Plants  
of Rancho de Las Cabras National Historic Site,  
Wilson County, Texas  
October 2002 Draft

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The Nature Conservancy of Texas

This list is based on observations during surveys conducted on 30 May, 25 July, 14 and 23 August, 17 and 21 September, 30-31 October 2001 and 25-26 March, 22-23 April, 17 and 20 May, 13 and 18 June, 11 and 24 July, 12-13 August, 23 and 26 September, and 23 and 29 October 2002. It will be expanded and otherwise modified following future surveys. Scientific names follow Jones, Wipff & Montgomery (1997); pertinent synonyms, particularly those used in Correll & Johnston (1970), are provided in brackets. Common names follow Diggs, Lipscomb & O'Kennon (1999), Hatch, Gandhi & Brown (1990) and various other sources.

FERNS AND FERN ALLIES

Equisetaceae Horsetail Family

*Equisetum laevigatum* A. Braun. Horsetail. Native perennial. Absent from most of riparian woodland but locally common on sandy bank of San Antonio River in NE corner of property. Voucher: Carr, Benesh & Gallyoun 21085. Photo: SAM-205. Line drawing: Diggs et al. (1999), p. 177.

Marsileaceae Water-clover Family

*Marsilea macropoda* Engelm. ex A. Br. Water-clover. Native perennial. Occasional colonies in clay in bed and on banks of Picoso Creek ca. 0.2-0.3 mi N of its mouth at San Antonio River; conspicuous only after rains. Voucher: Carr 19904. Photo: SAM-435. Line drawing: Diggs et al. (1999), p. 187.

Pteridaceae Maidenhair Fern Family

*Cheilanthes alabamensis* (Buckl.) Kunze. Alabama lipfern. Native perennial. Rare on crumbly siltstone and sandstone exposures in gully heads. Voucher: Carr & Westlund 20649. Photo: SAM-748. Line drawing: Diggs et al. (1999), p. 197.

*Pellaea atropurpurea* (L.) Link. Purple cliffbrake. Native perennial. Rare on crumbly siltstone exposures in canyon heads. Voucher: Carr & Westlund 20648. Photo: SAM-750. Line drawing: Diggs et al. (1999), p. 199.

FLOWERING PLANTS

Acanthaceae Acanthus Family

*Carlowrightia texana* J. Henrickson & T. Daniel. Texas carlowrightia. Native perennial. Rare in opening in upper-slope shrublands. Voucher: Carr & Candee 20969-B. Photo: SAM-115, SAM-116, SAM-117. Line drawing: Diggs et al. (1999), p. 215.

*Dicliptera brachiata* (Pursh) Spreng. Dicliptera. Native perennial. Rare in riparian woodlands. Voucher: Carr 20401. Photo: SAM-508. Line drawing: Diggs et al. (1999), p. 215.

*Dyschoriste linearis* (T. & G.) O. Ktze. Snake-herb. Native perennial. Rare, local in upper-slope shrublands at N29°06.002', W098°10.017' +/- 11.3 ft. Voucher: Carr 21213. Photo: SAM-1072. Line drawing: Diggs et al. (1999), p. 215.

*Justicia pilosella* (Nees) Hilsenbeck [*Siphonoglossa pilosella* Nees]. Hairy tubetongue. Native perennial. Quite common in upland woodlands and openings; frequent in upper-slope shrublands; occasional elsewhere. Voucher: Carr 20239. Photos: SAM-092, SAM-148, SAM-299, SAM-300, SAM-793. Line drawing: Diggs et al. (1999), p. 217.

*Ruellia nudiflora* (Engelm. ex Gray) Urban var. *nudiflora*. Wild-petunia. Native perennial. Locally common on banks and terraces along Picoso Creek. Voucher: Carr & Carré 19841. Photo: SAM-044, SAM-045, SAM-046. Line drawing: Diggs et al. (1999), p. 217.

#### Aceraceae Maple Family

*Acer negundo* L. var. *texanum* F. Pax. Box-elder maple. Native tree. Frequent in deciduous woodlands on river terraces. Voucher: Carr & Candee 20943. Photo: SAM-505. Line drawing: Diggs et al. (1999), p. 223.

#### Agavaceae Agave Family

*Manfreda maculosa* (Hook.) Rose [*Polianthes maculosa* (Hook.) Shinnery]. Spotted false-aloe. Native perennial. Rare in upper-slope shrublands. Voucher: Carr & Candee 20956. Photos: SAM-864, SAM-865. Line drawing: a similar species, *Manfreda virginica*, appears on p. 1081 of Diggs et al. (1999).

*Yucca constricta* Buckl. Buckley yucca. Native shrub. Occasional in upland woodlands and upper-slope shrublands. Voucher: Carr & Candee 20959. Photo: SAM-040, SAM-041, SAM-042. Line drawing: Diggs et al. (1999), p. 1081.

*Yucca treculeana* Carr. Spanish dagger. Native shrub. Occasional in upland woodlands and upper-slope shrublands. Voucher: Carr & Benesh 20511. Photo: SAM-322, SAM-323, SAM-1134. Line drawing: Diggs et al. (1999), p. 1089.

#### Amaranthaceae Amaranth Family

*Alternanthera philoxeroides* (Mart.) Grisebach. Alligator-weed. Naturalized perennial. Rare on sunny sandy lower bank of San Antonio River, at and in vicinity of N29°05.960', W098°09.608'. Voucher: Carr, Benesh & Gallyoun 21084. Photo: SAM-905. Line drawing: Diggs et al. (1999), p. 223.

*Amaranthus polygonoides* L. [*Amaranthus berlandieri* (Moq.) Uline & Bray; *Amaranthus polygonoides* L. var. *berlandieri* (Moq.) Thell.] Berlandier amaranth, tropical amaranth. Native annual. Locally common (in July 2002) in parking area at monument. Voucher: Carr & Benesh 21172. Photo: SAM-941, SAM-992. Line drawing: Diggs et al. (1999), p. 229.

*Celosia nitida* Vahl. Albahaca. Native perennial. Rare on shaded gully slopes. Voucher: Carr 21368. Photo: SAM-898.

*Froelichia gracilis* (Hook.) Moq. Slender snake-cotton. Native annual. Rare (at least in spring 2002) in opening in upper-slope shrubland. Voucher: Carr 21142. Photo: SAM-767. Line drawing: Diggs et al. (1999), p. 229.

#### Anacardiaceae Pistachio Family

*Toxicodendron radicans* (L.) Kuntze [*Toxicodendron rydbergii* (Small ex Rydb.) Greene; *Rhus radicans* var. *vulgaris* (Michx.) A. DC.]. Poison ivy. Native woody vine. Occasional in riparian woodland along Picoso Creek, more common in woodland along San Antonio River. Voucher: Carr, Benesh & Gallyoun 21088. Photo: SAM-126, SAM-127.

#### Apiaceae (Umbelliferae) Carrot Family

- Bowlesia incana* Ruiz & Pav. Hoary bowlesia. Native annual. Abundant during early spring in riparian woodlands, apparently shunned by cattle and increasing under current grazing regime. Voucher: Carr 20528. Photo: SAM-587, SAM-694, SAM-695. Line drawing: Diggs et al. (1999), p. 245.
- Chaerophyllum tainturieri* Hook. var. *tainturieri*. Chervil. Native annual. Occasional in riparian woodlands; also occasional in various upland sites. Voucher: Carr 20518. Photo: SAM-575, SAM-576. Line drawing: Diggs et al. (1999), p. 247.
- Daucus pusillus* Michx. Little carrot, rattlesnake weed. Native annual. Frequent in open areas on uplands and upper slopes. Voucher: Carr 20687. Photos: SAM-772, SAM-773. Line drawing: Diggs et al. (1999), p. 251.
- Torilis arvensis* (Huds.) Link. Tall sockbane, hedge-parsley. Naturalized annual. Occasional to locally common throughout. Photos: SAM-800, SAM-801. Line drawing: Diggs et al. (1999), p. 263.

#### Apocynaceae Dogbane Family

- Apocynum cannabinum* L. Dogbane. Native perennial. Rare, one colony of numerous plants along E bank of Picoso Creek ca. 0.2 mi N of San Antonio River (within view of new N fenceline), at N029°05.969', W098°09.840' +/- 20.0 ft. Line drawing: Diggs et al. (1999), p. 267.

#### Aristolochiaceae Birthwort Family

- Aristolochia erecta* L. [*Aristolochia longiflora* Engelm. & Gray]. Swanflower, grassleaf pipevine. Native perennial. Rare in old fields and openings in upland woodlands and upper-slope shrublands. Voucher: Carr 21141. Photo: SAM-123, SAM-124, SAM-757, SAM-758.

#### Asclepiadaceae Milkweed Family

- Asclepias oenotheroides* (Cham.) Schlecht. Hierba de zizotes. Native perennial. Rare in old fields and openings in upland woodlands. Voucher: Carr 20211. Photos: SAM-388, SAM-389, SAM-390, SAM-808, SAM-967. Line drawing: Diggs et al. (1999), p. 279.
- Cynanchum barbigerum* (Scheele) Shinn. Bearded swallow-wort. Native herbaceous perennial vine. Occasional in upper-slope shrublands. Voucher: Carr 20227. Photo: SAM-794. Line drawing: Diggs et al. (1999), p. 281.
- Matelea reticulata* (Engelm. ex Gray) Woodson. Pearl milkvine. Native herbaceous perennial vine. Rare in woodlands and shrublands throughout. Voucher: Carr 20232. Photo: SAM-752, SAM-753. Line drawing: Diggs et al. (1999), p. 286.
- Sarcostemma cynanchoides* Dcne. [*Funastrum cynanchoides* (Dcne.) Schltr.] White twinevine. Native herbaceous perennial vine. Rare in old fields, upland woodlands and riparian woodlands. Voucher: Carr 20080. Photo: SAM-1101. Line drawing: Diggs et al. (1999), p. 285.

#### Asteraceae (Compositae) Sunflower Family

- Amblyolepis setigera* DC. Huisache daisy. Native annual. Common during spring in upland woodlands and upper-slope shrublands; locally abundant in roadbeds and mown firebreaks along fencelines. Voucher: Carr & Benesh 20495. Photo: SAM-625, SAM-626, SAM-652. Line drawing: Diggs et al. (1999), p. 311.
- Ambrosia confertiflora* A. DC. Field ragweed. Native perennial. Locally common in old fields, upland woodland and upper slope shrublands. Voucher: Carr 20396. Photo: SAM-980. Line drawing: Diggs et al. (1999), p. 311.
- Ambrosia psilostachya* DC. [*Ambrosia cumanensis* Kunth in H. B. K.] Western ragweed. Native perennial. Occasional to locally common in old fields, upland woodlands, upper slope shrublands. Voucher: Carr 21217. Photo: SAM-201, SAM-202. Line drawing: Diggs et al. (1999), p. 311.

- Ambrosia trifida* L. Giant ragweed. Native annual. Common in riparian woodlands and along drainages. Voucher: Carr 21236. Photo: SAM-377. Line drawing: Diggs et al. (1999), p. 311.
- Aphanostephus ramosissimus* DC. Plains lazy-daisy. Native annual. Occasional in old fields, upland woodlands, and upper-slope shrublands. Voucher: Carr & Benesh 20494. Photo: SAM-584, SAM-585, SAM-590, SAM-629, SAM-727. Line drawing: Diggs et al. (1999), p. 313.
- Aphanostephus riddellii* T. & G. Riddell's lazy-daisy. Native perennial. Frequent to locally abundant in open areas in upper slope shrublands. Vouchers: Carr 20405; Carr & Westlund 20668. Photo: SAM-741, SAM-742. Line drawing: Diggs et al. (1999), p. 313.
- Aphanostephus skirrhobasis* (DC.) Trel. Arkansas lazy-daisy. Native annual. Locally common on Wilco soils in regularly mown portions of old field just inside gate along county road; absent from balance of tract? Voucher: Carr 20696. Line drawing: Diggs et al. (1999), p. 313.
- Aster ericoides* L. [*Symphytotrichum ericoides* (L.) Nesom]. Heath aster. Native perennial. Rare in upland woodlands and upper slope shrublands. Voucher: Carr 20397. Photo: SAM-521, SAM-522, SAM-525. Line drawing: Diggs et al. (1999), p. 317.
- Aster subulatus* Michx. var. *ligulatus* Shinnery. Hierba del marrano. Native perennial. Rare in old field. Voucher: Carr 21365. Photo: SAM-1123. Line drawing: Diggs et al. (1999), p. 323.
- Aster lanceolatus* Willd. Woodland aster. Native perennial. Rare in riparian woodlands. Voucher: Carr 20403. Photo: SAM-561. Line drawing: Diggs et al. (1999), p. 317.
- Astranthium integrifolium* (Michx.) Nutt. Western daisy. Native annual. Rare (at least during dry spring 2002) in mown areas on Wilco soils and in openings in upper-slope shrublands. Voucher: Carr & Westlund 20664; Carr 20971. Photo: SAM-785.
- Baccharis neglecta* Britt. Roosevelt weed, jara dulce, willow baccharis. Native shrub. Rare on property, noted only in bottom of quarry and in fenceline along entrance easement. Voucher: Carr & Candee 21250. Photo: SAM-1089. Line drawing: Diggs et al. (1999), p. 323.
- Baccharis texana* (T. & G.) Gray. Prairie baccharis. Native shrub. Locally common in upper-slope shrublands; occasional in upland woodlands; rare in old fields. Vouchers: Carr 20082, Carr 20085, Carr 20215. Photo: SAM-464. Line drawing: Diggs et al. (1999), p. 323.
- Calyptocarpus vialis* Less. Prostrate lawnflower, straggler daisy. Native perennial. Frequent in riparian woodlands; occasional elsewhere. Vouchers: Carr 20706, Carr & Candee 20938. Photo: SAM-506, SAM-791. Line drawing: Diggs et al. (1999), p. 331.
- Centaurea melitensis* L. Malta star-thistle. Naturalized annual or biennial. Rare along roadbed through upland woodland. Vouchers: Carr 20711, Carr 20978. Photo: SAM-812. A line drawing, which makes this easily-overlooked weed appear to be some kind of monster thistle, appears on p. 331 of Diggs et al. (1999).
- Chaptalia texana* Greene [*Chaptalia nutans* (L.) Polák var. *texana* (Greene) Burkhart]. Nodding lettuce. Native perennial. Occasional in upper-slope shrublands. Voucher: Carr 20513. Photo: SAM-691. Line drawing: Diggs et al. (1999), p. 337.
- Chloracantha spinosa* (Benth.) Nesom var. *spinosa* [*Aster spinosus* Benth.; *Erigeron ortegae* Blake var. *spinosa* (Benth.) Sundberg]. Spiny aster. Native perennial. Occasional on banks of Picoso Creek; rare in riparian woodlands. Voucher: Carr 20402. Photo: SAM-436. Line drawing: Diggs et al. (1999), p. 337.
- Cirsium texanum* Buckl. Texas thistle. Native annual. Common in upland areas but also present on slopes and bottoms. Voucher: Carr & Westlund 20669. Photo: SAM-745. Line drawing: Diggs et al. (1999), p. 343.
- Conyza canadensis* (L.) Cronq. Horseweed. Native annual. Rare in old fields and openings in riparian woodlands on sandy soils. Voucher: Carr & Candee 20930. Photo: SAM-001, SAM-002. Line drawing: Diggs et al. (1999), p. 343.
- Coreopsis nuecensis* Heller. Crown coreopsis. Native annual. Rare, a few dozen plants observed on 23 April 2002 in one small area in old field on entrance easement, ca. 300-400 ft. NE of gate on county road, ca. 300 ft. SW of drainage that bisects easement, at N29°05.506', W098°10.641' +/- 13.7 ft. Voucher: Carr 20693. Photos: SAM-783, SAM-784.

- Coreopsis wrightii* (Gray) Smith [*Coreopsis basalis* (Dietr.) Blake var. *wrightii* (Gray) Blake]. Rock coreopsis. Native annual. Occasional on uplands and upper slopes. Voucher: Carr & Westlund 20639. Photo: SAM-763. Line drawing: Diggs et al. (1999), p. 343.
- Dyssodia pentachaeta* (DC.) Small [*Thymophylla pentachaeta* (DC.) Small] Parralena, dogweed. Native annual or short-lived perennial. Rare in upper-slope shrublands. Voucher: Carr 20407. Line drawing: Diggs et al. (1999), p. 425.
- Dyssodia tenuiloba* (DC.) B. L. Robinson [*Thymophylla tenuiloba* (DC.) Small]. Bristleleaf dyssodia, tiny Tim. Native annual or short-lived perennial. Rare, local in old fields. Vouchers: Carr 20389, Carr 20390; these vouchers seem to represent two varieties. Photo: SAM-815. Line drawing: Diggs et al. (1999), p. 425.
- Erigeron philadelphicus* L. Philadelphia fleabane. Native perennial. Occasional in riparian woodlands and San Antonio River. Voucher: Carr 20517. Photo: SAM-605. Line drawing: Diggs et al. (1999), p. 355.
- Eupatorium serotinum* Michx. Late boneset, late thoroughwort. Native perennial. Rare on bank of Picoso Creek and along drainage crossing entrance easement. Voucher: Carr 21238. Photo: SAM-1102. Line drawing: Diggs et al. (1999), p. 357.
- Evax verna* Raf. [*Evax multicaulis* DC.] Roundhead rabbit-tobacco. Native annual. Occasional in open upland sites. Photo: SAM-814. Line drawing: Diggs et al. (1999), p. 357.
- Fleischmannia incarnata* (Walt.) King & Robinson [*Eupatorium incarnatum* Walt.]. Scandent thoroughwort. Native perennial herbaceous vine. Occasional under mesquite in upland woodlands, in shrub thickets on upper slopes, and in woodlands on terraces. Vouchers: Carr 20398; Carr 21336. Photo: SAM-1130. Line drawing: Diggs et al. (1999), p. 355.
- Florestina tripteris* DC. [*Palafoxia tripteris* (DC.) Shinnery] White palafoxia. Native annual. Rare in bed of road along N fenceline and in upland woodland near monument. Voucher: Carr & Candee 21245. Photo: SAM-528, SAM-529, SAM-1111.
- Gaillardia pulchella* Foug. Firewheels, Indian blanket. Native annual. Frequent in upland sites. Voucher: Carr & Westlund 20656. Photo: SAM-782. Line drawing: Diggs et al. (1999), p. 361.
- Gamochaeta pensylvanica* (Willd.) Cabrera [*Gnaphalium pensylvanicum* Willd.] Pennsylvania cudweed. Native annual. Rare on sandy bank of San Antonio River. Voucher: Carr & Candee 20942. Line drawing: Diggs et al. (1999), p. 361.
- Gutierrezia texana* (A. DC.) T. & G. [*Xanthocephalum texanum* (A. DC.) Shinnery]. Broomweed. Native annual. Common to locally abundant in upland woodlands and on open upper slopes. Voucher: Carr 20214. Photo: SAM-1103. Line drawing: Diggs et al. (1999), p. 367.
- Helenium microcephalum* DC. Smallhead sneezeweed. Native annual. Locally common on partially unshaded clay slopes within riparian woodland along Picoso Creek; less common on terraces of San Antonio River. Voucher: Carr, Benesh & Gallyoun 21075. Photo: SAM-888. Line drawing: Diggs et al. (1999), p. 367.
- Helianthus annuus* L. Common sunflower. Native annual. Occasional in dry sunny disturbed sites. Voucher: Carr 20237. Photo: SAM-038. Line drawing: Diggs et al. (1999), p. 371.
- Heterotheca subaxillaris* (Lam.) Britt. & Rusby [*Heterotheca latifolia* Buckl.]. Camphor goldenaster. Native annual. Rare in upland woodlands. Voucher: Carr 20236. Photo: SAM-490, SAM-491. Line drawing: Diggs et al. (1999), p. 373.
- Krigia cespitosa* (Raf.) K. L. Chambers [*Krigia oppositifolia* Raf.]. Dwarf-dandelion. Native annual. Occasional during spring in old fields and road beds. Voucher: Carr & Benesh 20482. Line drawing: Diggs et al. (1999), p. 379.
- Lactuca* sp. Wild-lettuce. Native annual. Rare in riparian woodlands.
- Liatris mucronata* DC. Blazing star. Native perennial. Surprisingly frequent in shrublands on upper slopes. Voucher: Carr 20089. Photo: SAM-431. Line drawing: Diggs et al. (1999), p. 385.
- Lygodesmia texana* (T. & G.) Greene. Texas skeletonplant. Native perennial. Occasional in shrublands on upper slopes. Voucher: Carr & Westlund 20653. Photo: SAM-731, SAM-1007. Line drawing: Diggs et al. (1999), p. 385.

- Parthenium confertum* Gray. Lyreleaf parthenium. Native perennial. Occasional in upper-slope shrublands. Voucher: Carr 21239. Photo: SAM-991.
- Parthenium hysterophorus* L. False ragweed. Native annual. Occasional in upland woodlands and upper-slope shrublands. Vouchers: Carr 20235; Carr 21338. Photo: SAM-008, SAM-009, SAM-183, SAM-184, SAM-1136. Line drawing: Diggs et al. (1999), p. 395.
- Pinaropappus roseus* (Less.) Less. Rock-lettuce. Native perennial. Rare in upper-slope shrublands. Photo: SAM-648, SAM-649. Line drawing: Diggs et al. (1999), p. 395.
- Pyrrhopappus pauciflorus* (D. Don) DC. [*Pyrrhopappus multicaulis* DC.] Texas false-dandelion, pata de leon. Native annual. Frequent in old fields and upland woodlands. Voucher: Carr & Benesh 20490. Photo: SAM-619, SAM-620. Line drawing: Diggs et al. (1999), p. 401.
- Ratibida columnifera* (Nutt.) Woot. & Standl. [*Ratibida columnaris* (Sims) D. Don]. Mexican hats. Native annual. Occasional in upland woodlands. Photo: SAM-090, SAM-091. Line drawing: Diggs et al. (1999), p. 401.
- Rudbeckia hirta* L. var. *angustifolia* (Moore) Perdue. Black-eyed Susan. Native annual. Frequent in upland woodlands; occasional in old fields. Voucher: Carr & Candee 20931. Photo: SAM-788. Line drawing: Diggs et al. (1999), p. 401.
- Senecio ampullaceus* Hook. Texas groundsel. Native annual. Rare, noted only on pile of sandy soil in parking area near monument. Voucher: Carr 20530. Line drawing: Diggs et al. (1999), p. 405.
- Simsia calva* (Engelm. & Gray) Gray. Bush sunflower. Native perennial. Common in upper-slope shrublands. Voucher: Carr 20231. Photos: SAM-445, SAM-446, SAM-761, SAM-762. Line drawing: Diggs et al. (1999), p. 407.
- Sonchus asper* (L.) Hill. Sow thistle. Naturalized annual. Occasional in old fields, upland woodlands and riparian woodlands. Voucher: Carr 20535. Photo: SAM-101, SAM-101, SAM-616. Line drawing: Diggs et al. (1999), p. 417.
- Tetraneuris scaposa* (DC.) Greene [*Hymenoxys scaposa* DC.]. Stemless bitterweed. Native perennial. Occasional in upper-slope shrublands. Voucher: Carr & Benesh 20508. Photo: SAM-641; SAM-646, SAM-647.
- Thelesperma ambiguum* Gray. Greenthread. Native perennial. Rare in shrublands on upper slopes. Vouchers: Carr & Westlund 20652; Carr & Benesh 21173. Photo: SAM-740. Line drawing: Diggs et al. (1999), p. 423.
- Verbesina encelioides* (Cav.) Benth & Hook. f. ex Gray. Cowpen daisy. Native annual. Rare in upland old field. Voucher: Carr 20392. Photos: SAM-546, SAM-547. Line drawing: Diggs et al. (1999), p. 429.
- Verbesina virginica* L. Frostweed, iceplant. Native perennial. Occasional in upland woodlands, upper-slope shrublands and riparian woodlands. Voucher: Carr 20230. Photo: SAM-492, SAM-1065, SAM-1066. Line drawing: Diggs et al. (1999), p. 429.
- Wedelia texana* (Gray) B. L. Turner [*Wedelia hispida* of Texas authors; *Zexmenia hispida* of Texas authors]. Texas zexmenia. hairy zexmenia. Native perennial. Common in upper-slope shrublands; occasional in upland woodlands. Voucher: Carr 20225. Photo: SAM-448. Line drawing: Diggs et al. (1999), p. 431.
- Xanthisma texanum* DC. Sleepy-daisy. Native annual. Occasional in old fields on sandier soils. Voucher: Carr 20206. Photo: SAM-458. Line drawing: Diggs et al. (1999), p. 431.
- Xanthium strumarium* L. Abrojo, cocklebur, porcupine eggs. Native annual. Occasional in bed of Picoso Creek. Voucher: Carr & Candee 21255. Photo: SAM-1116. Line drawing: Diggs et al. (1999), p. 431.

#### Berberidaceae Barberry Family

- Berberis trifoliolata* Moric. [*Mahonia trifoliolata* (Moric.) Fedde] Agarito. Native shrub. Occasional in upland woodlands and upper-slope shrublands. Voucher: Carr & Benesh 20502. Photo: SAM-671. Line drawing: Diggs et al. (1999), p. 435.

#### Bignoniaceae Catalpa Family

*Campsis radicans* (L.) Seeman ex Bureau. Trumpet creeper. Native woody vine. Common in riparian woodlands, climbing into trees but also creeping through ground layer on heavily grazed portions on heavy clay soils along Picoso Creek. Voucher: Carr, Benesh & Gallyoun 21080. Photo: SAM-200. Line drawing: Diggs et al. (1999), p. 447.

#### Boraginaceae Borage Family

*Cryptantha texana* (A. DC.) Greene. Texas hiddenflower. Native annual. Rare, noted only on pile of sandy soil in parking area near monument. Voucher: Carr 20531. Line drawing: Diggs et al. (1999), p. 449.

*Heliotropium indicum* L. India turnsole, alacrancillo. Naturalized annual. Rare in cracked clay exposed in dry bed of Picoso Creek. Voucher: Carr 19902. Photo: SAM-889. Line drawing: Diggs et al. (1999), p. 451.

*Lithospermum mirabile* Small. Yellow puccoon. Native perennial. Rather frequent in upper-slope shrublands; occasional in upland woodlands. Voucher: Carr 20513. Photo: SAM-642, SAM-643, SAM-645.

*Tetradlea coulteri* Gray. Coulter tetradlea. Native perennial. Frequent in openings in upper-slope shrublands. Vouchers: Carr 20092; Carr 21344. Photos: SAM-432, SAM-433, SAM-747.

#### Brassicaceae (Cruciferae) Mustard Family

*Arabis petiolaris* (Gray) Gray. Brazos rock-cress. Native annual. Rare in shrublands on upper slopes. Observed on 30 May 2001 (prior to beginning of project); not encountered during 2002. Line drawing: Diggs et al. (1999), p. 461.

*Capsella bursa-pastoris* (L.) Medik. Shepherd's purse. Naturalized winter annual. Rare in riparian woodlands. Voucher: Carr 20527. Line drawing: Diggs et al. (1999), p. 463.

*Descurainia pinnata* (Walt.) Britt. Tansy mustard. Native annual. Rare in fencelines along edges of old fields. Voucher: Carr & Benesh 20478. Line drawing: Diggs et al. (1999), p. 467.

*Lepidium austrinum* Small. Southern pepperweed. Native annual. Occasional in upland woodlands and upper-slope shrublands. Voucher: Carr 20532. Photo: SAM-705, SAM-706. Line drawing: Diggs et al. (1999), p. 471.

*Lesquerella argyraea* (Gray) Wats. Bladderpod. Native annual. Rare in upper-slope shrublands. Voucher: Carr & Benesh 20507. Photo: SAM-650, SAM-651.

#### Bromeliaceae Bromeliad Family

*Tillandsia recurvata* L. Ballmoss. Native perennial epiphyte. Occasional in trees throughout, more common in riparian woodlands. Voucher: Carr & Candee 20969. Photo: SAM-326. Line drawing: Diggs et al. (1999), p. 1097.

#### Buddlejaceae Buddleja Family

*Polypremum procumbens* L. Juniperleaf, polly-prim. Native perennial. Rare in old field on sandy soils near gate along county road. Voucher: Carr 20682. Photo: SAM-781. Line drawing: Diggs et al. (1999), p. 483.

#### Cactaceae Cactus Family

*Ferocactus setispinus* (Engelm.) Benson [*Thelocactus setispinus* (Engelm.) E. F. Anderson. Hedgehog cactus, fish-hook cactus. Native shrub. Rare in slope shrublands, noted only in bed of old roadbed at N29°05.791', W098°09.927' +/- 21.4 ft. Photo: SAM-055, SAM-056, SAM-867, SAM-993, SAM-1055. Line drawing: Diggs et al. (1999), p. 495.

*Opuntia engelmannii* Salm-Dyck var. *lindheimeri* (Engelm.) Parfitt & Pinkava [*Opuntia lindheimeri* Engelm]. Lindheimer pricklypear. Native shrub. Occasional in upland woodlands and upper-slope shrublands. Photo: SAM-293, SAM-325. Line drawing: Diggs et al. (1999), p. 493.

*Opuntia leptocaulis* DC. Tasajillo, Christmas cactus, pencil cactus. Native shrub. Occasional in shrublands on upper slopes. Photo: SAM-261, SAM-869. Line drawing: Diggs et al. (1999), p. 493.

*Opuntia macrorhiza* Engelm. Plains pricklypear. Native shrub. Rare in old fields. Photo: SAM-870. Line drawing: Diggs et al. (1999), p. 493.

#### Campanulaceae Bellflower Family

*Triodanis perfoliata* (L.) Nieuw. var. *biflora* (Ruiz & Pav.) T. R. Bradley [*Triodanis biflora* (Ruiz & Pav.) Greene]. Venus' looking-glass. Native annual. Rare to occasional throughout. Vouchers: Carr & Benesh 20500; Carr 20679. Photo: SAM-804. Line drawing: Diggs et al. (1999), p. 505.

#### Caprifoliaceae Honeysuckle Family

*Sambucus canadensis* L. var. *canadensis*. Elderberry. Native shrub. Rare in riparian woodlands, mostly (only?) along San Antonio River. Voucher: Carr, Benesh & Gallyoun 21081. Photo: SAM-130, SAM-131, SAM-132, SAM-133, SAM-879, SAM-914. Line drawing: Diggs et al. (1999), p. 515.

#### Caryophyllaceae Pink Family

*Polycarpon tetraphyllum* (L.) L. Fourleaf manyseed. Naturalized annual. Rare, noted only in mown old field on Wilco soils along fenceline along county road. Voucher: Carr 20689. Photo: SAM-776. Line drawing: Diggs et al. (1999), p. 523.

*Silene antirrhina* L. Sticky catchfly, sleepy catchfly. Native annual. Rare in old fields and upland woodlands. Voucher: Carr 20684. Line drawing: Diggs et al. (1999), p. 526.

*Stellaria media* (L.) Vill. Common chickweed. Naturalized annual. Occasional in riparian woodlands. Voucher: Carr 20520. Photo: SAM-721. Line drawing: Diggs et al. (1999), p. 527.

*Stellaria prostrata* Baldw. Baldwin chickweed. Native annual. Rare in shaded gully headers. Voucher: Carr & Westlund 20650.

#### Celastraceae Staff-tree Family

*Schaefferia cuneifolia* Gray. Desert yaupon, panalero. Native shrub. Rare in upper slope shrublands around gully heads, e.g., at N29°05.860', W098°10.087' +/- 15.9 ft. Voucher: Carr 21138. Photo: SAM-514.

#### Chenopodiaceae Goosefoot Family

*Chenopodium berlandieri* Moq. Berlandier goosefoot. Native annual. Rare in upland woodlands and old fields. Vouchers: Carr & Carré 19839; Carr 21215. Photo: SAM-1042. Line drawing: Diggs et al. (1999), p. 537.

#### Commelinaceae Dayflower Family



- Commelina erecta* L. var. *angustifolia* (Michx.) Fern. Common dayflower. Native perennial. Rare in upper-slope shrublands and terrace woodlands. Voucher: Carr 20081. Photo: SAM-072, SAM-073, SAM-074. Line drawing: Diggs et al. (1999), p. 1099.
- Tinantia anomala* (Torr.) C. B. Clarke [*Commelinantia anomala* (Torr.) Tharp] Widow's tears, false dayflower. Native annual. Frequent in riparian woodlands. Voucher: Carr & Westlund 20643. Photo: SAM-574, SAM-603, SAM-719. Line drawing: Diggs et al. (1999), p. 1103.
- Tradescantia* sp. Spiderwort. Native perennial. Occasional along margins of old fields and in upland woodlands. Voucher: Carr & Benesh 20496. Photo: SAM-633, SAM-634.

#### Convolvulaceae Morning-glory Family

- Convolvulus equitans* Benth. Common bindweed. Native perennial herbaceous vine. Occasional in upland old fields and woodlands. Voucher: Carr & Westlund 20660. Photo: SAM-079, SAM-080, SAM-081. Line drawing: Diggs et al. (1999), p. 553.
- Dichondra recurvata* Tharp & M. C. Johnston. Tharp's ponyfoot. Native perennial. Occasional in old fields and upland woodlands. Voucher: Carr & Benesh 20479; Carr 20704. Photo: SAM-1076. Line drawing: Diggs et al. (1999), p. 553.
- Evolvulus sericeus* Swartz var. *sericeus*. Silky evolvulus. Native perennial. Occasional to frequent in upland woodlands and upper-slope shrublands. Voucher: Carr 21135. Photo: SAM-746. Line drawing: Diggs et al. (1999), p. 557.
- Ipomaea cordatotriloba* Dennstaedt [*Ipomaea trichocarpa* Ell. var. *trichocarpa*; *Ipomaea trichocarpa* Ell. var. *australis* O'Donnell; *Ipomaea trichocarpa* Ell. var. *torreyana* (Gray) Shinnery]. Common morning-glory. Native perennial herbaceous vine. Occasional in old fields and upper-slope shrublands. Voucher: Carr 20972. Photo: SAM-075, SAM-076, SAM-077, SAM-180, SAM-181, SAM-182. Line drawing: Diggs et al. (1999), p. 557.

#### Cornaceae Dogwood Family

- Cornus drummondii* C. A. Mey. Roughleaf dogwood. Native shrub. Occasional in riparian woodlands. Voucher: Carr & Candee 20937. Photo: SAM-129, SAM-139, SAM-140; SAM-816. Line drawing: Diggs et al. (1999), p. 563.

#### Cucurbitaceae Gourd Family

- Ibervillea lindheimeri* (Gray) Greene. Balsam gourd, Lindheimer balsam-apple. Native perennial herbaceous vine. Rare, one plant in fence line at gate on county road and a few plants in upland woodlands. Voucher: Carr 20688. Photos: SAM-515, SAM-775; SAM-909. Line drawing: Diggs et al. (1999), p. 571.
- Melothria pendula* L. Melonette, meloncito. Native annual herbaceous vine. Rare in riparian woodlands. Voucher: Carr & Candee 20936. Photo: SAM-417, SAM-418. Line drawing: Diggs et al. (1999), p. 571.

#### Cuscutaceae Dodder Family

- Cuscuta* sp. Dodder. Native annual vine. Apparently rare in area, only a few plants noted during surveys of 2001-2002; parasitic on *Liatris mucronata* in openings in upper-slope shrublands. Voucher: Carr 21342. Photo: SAM-1142.

#### Cyperaceae Sedge Family

- Carex bulbostylis* Mack. Globose caric-sedge. Native perennial. Frequent in riparian woodlands, heavily grazed by cattle. Voucher: Carr & Westlund 20672. Line drawing: Diggs et al. (1999), p. 1117.
- Carex planostachys* Kunze. Cedar sedge. Native perennial. Frequent in upper-slope shrublands. Voucher: Carr & Benesh 20503. Line drawing: Diggs et al. (1999), p. 1129.
- Carex tetrastachya* Scheele [*Carex brittoniana* Bailey]. Britton sedge. Native perennial. Occasional to frequent in riparian woodlands. Voucher: Carr & Westlund 20673. Photo: SAM-806. Line drawing: Diggs et al. (1999), p. 1129.
- Carex* sp. [Sect. *Phaestoglochin*.] Sedge. Native perennial. Occasional in upland woodlands and upper-slope shrublands. Voucher: Carr & Westlund 20674.
- Cyperus ochraceus* Vahl. Umbrella-sedge. Native perennial. Rare in riparian woodlands. Photo: SAM-218, SAM-219.
- Cyperus retroflexus* Buckl. [*Cyperus uniflorus* T. & H.] One-flower flat-sedge. Native perennial. Occasional in old fields along easement road. Voucher: Carr & Benesh 21166. Photo: SAM-982. Line drawing: Diggs et al. (1999), p. 1141.
- Cyperus rotundus* L. Purple nutsedge. Naturalized perennial. Occasional in old fields along easement road. Voucher: Carr & Benesh 21187. Photo: SAM-404, SAM-405, SAM-966. Line drawing: Diggs et al. (1999), p. 1141.
- Cyperus* sp. Umbrella-sedge. Native perennial. Occasional in old fields along easement road along easement road. (cf. *globulosus*)

#### Ebenaceae Ebony Family

- Diospyros texana* Scheele. Texas persimmon. Native shrub. Common in upper slope shrublands but also present in upland woodlands and terrace woodlands. Voucher: Carr & Benesh 20501. Photo: SAM-310, SAM-516, SAM-1059. Line drawing: Diggs et al. (1999), p. 583.

#### Euphorbiaceae Spurge Family

- Acalypha ostryifolia* Riddell. Hornbeam copperleaf. Native annual. Rare in upland woodlands. Voucher: Carr 21216. Photo: SAM-501. Line drawing: Diggs et al. (1999), p. 587.
- Argythamnia humilis* (Engelm & Gray) Muell. Arg. var. *humilis* [*Ditaxis humilis* (Engelm. & Gray) Pax var. *humilis*]. Low wild-mercury. Native perennial. Occasional in small openings in upland woodland. Voucher: Carr 21140. Photo: SAM-949. Line drawing: Diggs et al. (1999), p. 603.
- Cnidioscolus texanus* (Muell. Arg.) Small. Texas bull-nettle. Native perennial. Rare in opening in upper-slope shrubland along upper margin of shallow drainage at N29°05.775', W098°10.008'. Voucher: Carr & Candee 21249. Photo: SAM-947. Line drawing: Diggs et al. (1999), p. 601.
- Croton capitatus* Michx. Hog croton. Native annual. Occasional in old fields; rare in upland woodlands and on clay bars in bed of Picoosa Creek. Voucher: Carr, Benesh & Gallyoun 21078. Photo: SAM-455. Line drawing: Diggs et al. (1999), p. 601.
- Croton glandulosus* L. Toothed croton. Native annual. Rare in old fields and upland woodlands. Voucher: Carr & Benesh 21184. Photo: SAM-984. Line drawing: Diggs et al. (1999), p. 601.
- Croton monanthogynus* Michx. One-seed croton, prairie tea. Native annual. Common in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr 20206-B. Photo: SAM-1000. Line drawing: Diggs et al. (1999), p. 603.
- Euphorbia dentata* Michx. [*Poinsettia dentata* (Michx.) Kl. & Gke.] Toothed spurge. Native annual. Occasional throughout. Voucher: Carr 20223. Photos: SAM-078, SAM-371, SAM-372, SAM-969. Line drawing: Diggs et al. (1999), p. 607.
- Euphorbia glyptosperma* Engelm. [*Chamaesyce glyptosperma* (Engelm.) Small]. Spurge. Native annual. Occasional in sandy clay of roadbeds and openings in upland woodlands and upper-slope shrublands. Vouchers: Carr 19900; Carr 20715; Carr 20975; Carr 21244; Carr 21343. Line drawing: Diggs et al. (1999), p. 595.

- Euphorbia nutans* Lag. [*Chamaesyce nutans* (Lag.) Small] Eyebane, nodding spurge. Native annual. Curiously rare, one vegetative plant observed in clay exposed in dry bed of Picoso Creek, 13 June 2002. Photo: SAM-375, SAM-376, SAM-997, SAM-1148. Line drawing: Diggs et al. (1999), p. 597.
- Euphorbia peplidion* Engelm. [*Tithymalus peplidion* (Engelm.) Small] Low spurge. Native annual. Rare on tract, noted only in fenceline along old field easement near gate. Voucher: Carr & Benesh 20489.
- Euphorbia prostrata* Ait. [*Chamaesyce prostrata* (Ait.) Small]. Hairy matspurge. Native annual. Frequent in roadbeds; rare in clay in dry bed of Picoso Creek. Vouchers: Carr 19903, Carr 20209, Carr 20238. Line drawing: Diggs et al. (1999), p. 597.
- Euphorbia serpens* Kunth [*Chamaesyce serpens* (Kunth) Small]. Smooth matspurge. Native annual. Apparently rare in old fields. Voucher: Carr 20391. Photo: SAM-1074, SAM-1105. Line drawing: Diggs et al. (1999), p. 597.
- Euphorbia spathulata* Lam. [*Tithymalus spathulatus* (Lam.) Weber] Warty spurge. Native annual. Rare in riparian woodland, one moldy plant observed on 26 Mar 2002. Line drawing: Diggs et al. (1999), p. 609.
- Jatropha dioica* Cerv. Rubberstem, sangre de drago. Native shrub. Rare in upper-slope shrubland, noted only on old roadbed on ridge on E side of quarry pit, N29°05.791', W098°09.927' and vicinity. Voucher: Carr & Westlund 20640. Photo: SAM-053, SAM-054.
- Phyllanthus polygonoides* Spreng. Knotweed leaf-flower. Native perennial. Rare in old fields, more common in upper slope shrublands and openings in upland woodlands. Vouchers: Carr & Westlund 20647; Carr 20982. Photo: SAM-998. Line drawing: Diggs et al. (1999), p. 613.
- Tragia brevispica* Engelm. & Gray. Climbing noseburn. Native perennial herbaceous vine. Occasional in upper-slope shrublands; rare in fenceline along easement road. Voucher: Carr 20229; Carr 21335. Photo: SAM-1100, SAM-1131. Line drawing: Diggs et al. (1999), p. 615.

#### Fabaceae (Leguminosae) Legume Family

- Acacia greggii* Gray var. *greggii*. Gregg acacia. Native shrub. Occasional in shrublands on upper slopes, e.g. at N29°05.835', W098°10.027' +/- 11.5 ft. Voucher: Carr & Candee 20957. Photo: SAM-868.
- Acacia minuata* (M. E. Jones) Beauchamp [*Acacia smallii* Isely; *Acacia farnesiana* of Texas authors]. Huisache. Native tree or large shrub. Occasional in old fields and riparian woodlands. Voucher: Carr 21092. Photo: SAM-868. Line drawing: Diggs et al. (1999), p. 627.
- Acacia rigidula* Benth. Blackbrush, chaparro prieto. Native shrub. Frequent in shrublands on upper slopes. Voucher: Carr 21099. Photo: SAM-910.
- Astragalus nuttallianus* DC. var. *trichocarpus* T. & G. Nuttall's milkvetch. Native annual. Occasional in less recently plowed portions of old fields. Vouchers: Carr & Benesh 20477; Carr 20720. Photos: SAM-670; SAM-797.
- Astragalus nuttallianus* DC. var. ?? Nuttall's milkvetch. Native annual. Occasional in upper-slope shrublands. [Smaller in all respects than the preceding; in flower (not fruit), 25 March 2002.]
- Chamaecrista fasciculata* (Michx.) Greene [*Cassia fasciculata* Michx.] Partridge-pea. Native annual. Occasional in old fields along easement road. Voucher: Carr 20205. Photo: SAM-457. Line drawing: Diggs et al. (1999), p. 641.
- Dalea emarginata* (T. & G.) Shinnars [*Petalostemum emarginatum* T. & G.] Prairie-clover. Native perennial. Locally common in old field at SW end of entrance easement, i.e., just inside gate along county road. Vouchers: Carr 20690; Carr 20882. Photo: SAM-780.
- Dalea pogonathera* Gray. Bearded dalea, hierba de corazo. Native perennial. Occasional in openings in upland woodlands and upper-slope shrublands. Voucher: Carr 20395. Photo: SAM-1070, SAM-1104.
- Desmanthus velutinus* Scheele. Velvet bundleflower. Native perennial. Rare in upland woodlands and upper-slope shrublands. Vouchers: Carr 20090; Carr & Candee 20962. Photo: SAM-887. Line drawing: Diggs et al. (1999), p. 653.

- Desmanthus virgatus* (L.) Willd. var. *depressus* (Humb. & Bonpl.) B. L. Turner. Sharp-pod bundleflower. Native perennial. Occasional in old fields. Voucher: Carr 20974. Photo: SAM-137, SAM-138, SAM-1162. Line drawing: Diggs et al. (1999), p. 653.
- Eysenhardtia texana* Scheele. Texas kidneywood. Native shrub. Common in upper-slope shrublands; occasional in upland woodlands. Voucher: Carr 20219. Photos: SAM-411, SAM-412, SAM-447, SAM-488. Line drawing: Diggs et al. (1999), p. 659.
- Medicago lupulina* L. Black medick. Naturalized annual. Occasional in openings in riparian woodlands. Voucher: Carr 20516. Line drawing: Diggs et al. (1999), p. 675.
- Medicago polymorpha* L. California burclover. Naturalized annual. Occasional in roadbeds and openings in riparian woodlands. Vouchers: Carr & Benesh 20498; Carr 20515. Line drawing: Diggs et al. (1999), p. 675.
- Melilotus indicus* (L.) All. Yellow sweet-clover. Naturalized annual. Common in roadbeds and old fields; occasional in upland woodlands. Voucher: Carr & Benesh 20497. Photo: SAM-631. Line drawing: Diggs et al. (1999), p. 675.
- Mimosa borealis* Gray. Fragrant mimosa. Native shrub. Rare in upper-slope shrublands. Voucher: Carr 21367. Line drawing: Diggs et al. (1999), p. 679.
- Mimosa latidens* (Small) B. L. Turner [*Schrankia latidens* (Small) K. Schum.] Sensitive-briar. Native perennial. Rare in old fields and upper-slope shrublands. Voucher: Carr, Benesh & Gallyoun 21074. Photo: SAM-737, SAM-886.
- Prosopis glandulosa* Torr. var. *glandulosa*. Honey mesquite. Native tree. Common in upland woodlands; frequent in upper-slope shrublands and also present in terrace woodlands. Voucher: Carr 21100. Photo: SAM-031, SAM-032. Line drawing: Diggs et al. (1999), p. 689.
- Rhynchosia senna* Hook. var. *texana* (T. & G.) M. C. Johnst. [*Rhynchosia texana* T. & G.] Texas snoutbean. Native perennial herbaceous vine. Rare in upper-slope shrublands. Voucher: Carr & Candee 21248. Photo: SAM-933. Line drawing: Diggs et al. (1999), p. 693.
- Senna pumilio* (Gray) Irwin & Barneby [*Cassia pumilio* Gray]. Dwarf senna. Native perennial. Apparently rare, two plants observed in upper-slope shrubland on 22 April 2002, neither collected. Photo: SAM-754. Line drawing: Diggs et al. (1999), p. 695.
- Sesbania* sp. Sesbania. Native annual. Rare, local on clay exposed in dry bed of Picoso Creek just S of northern fenceline. [Vegetative, 13 June 2002.]
- Vicia ludoviciana* Nutt. subsp. *leavenworthii* (T. & G.) Lasseter & Gunn [*Vicia leavenworthii* T. & G.] Leavenworth vetch. Native annual herbaceous vine. Occasional in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr & Benesh 20480. Line drawing: Diggs et al. (1999), p. 709.
- Vicia ludoviciana* Nutt. subsp. *ludoviciana*. Louisiana vetch. Native annual herbaceous vine. Occasional in riparian woodlands, particularly on sandy slopes along San Antonio River. Voucher: Carr 20521. Line drawing: Diggs et al. (1999), p. 709.

#### Fagaceae Beech Family

- Quercus* sp. (*Quercus virginiana* Mill. var. *virginiana*, *Quercus virginiana* Mill. var. *fusiformis* (Small) Sarg., or member of hybrid swarm). (Some kind of) Live oak. Native tree. Occasional but important in riparian woodlands; several large specimens along Picoso Creek. Voucher: Carr & Candee 21247. Photo: SAM-977. Line drawing: Diggs et al. (1999), p. 721.

#### Fumariaceae Fumitory Family

- Corydalis* sp. Scrambled eggs. Native annual. Rare in riparian and upland woodlands. Photo: SAM-597. Line drawing: Diggs et al. (1999), p. 721.

#### Gentianaceae Gentian Family

*Sabatia campestris* Nutt. Prairie rose-gentian. Native annual. Rare in old field on Wilco soils near gate along county road. Voucher: Carr 20692. Photo: SAM-779. Line drawing: Diggs et al. (1999), p. 729.

#### Geraniaceae Geranium Family

*Geranium texanum* (Trel.) A. Heller. Texas wild-geranium. Native annual. Occasional throughout in early spring. Voucher: Carr & Benesh 20488. Photo: SAM-672. Line drawing: Diggs et al. (1999), p. 731.

#### Hydrophyllaceae Waterleaf Family

*Nama hispidum* Gray. Sandbell, rough nama. Native annual. Rare in old fields and openings in upper-slope shrublands. Line drawing: Diggs et al. (1999), p. 745.

*Nama jamaicense* L. Fiddleleaf nama. Native annual. Occasional throughout. Voucher: Carr 20710. Photo: SAM-235, SAM-702. Line drawing: Diggs et al. (1999), p. 745.

*Nemophila phacelioides* Nutt. Blue eyes. Native annual. Occasional in riparian woodlands. Voucher: Carr 20525. Photo: SAM-582, SAM-583, SAM-688, SAM-689. Line drawing: Diggs et al. (1999), p. 745.

*Phacelia congesta* Hook. Blue curls. Native annual. Rare in shrublands on upper slopes. Photo: SAM-828. Line drawing: Diggs et al. (1999), p. 745.

#### Iridaceae Iris Family

*Sisyrinchium langloisii* Greene [incl. *Sisyrinchium pruinosum* Bickn.] Blue-eyed grass. Native perennial. Apparently rare, noted only in fenceline along margin of old fields. Voucher: Carr & Benesh 20491. Photo: SAM-674.

#### Juglandaceae Walnut Family

*Carya illinoensis* (Wang) K. Koch. Pecan. Native tree. Occasional but important in riparian woodlands. Voucher: Carr & Candee 20948. Photo: SAM-212. Line drawing: Diggs et al. (1999), p. 751.

#### Krameriaceae Ratany Family

*Krameria lanceolata* Torr. Trailing ratany. Native perennial. Rare in openings in upper-slope shrublands. Voucher: Carr & Westlund 20665. Photo: SAM-768. Line drawing: Diggs et al. (1999), p. 757.

#### Lamiaceae (Labiatae) Mint Family

*Hedeoma drummondii* Benth. Limoncillo. Native perennial. Frequent in upland woodlands and upper-slope shrublands. Voucher: Carr & Westlund 20654. Photo: SAM-530. Line drawing: Diggs et al. (1999), p. 761.

*Hedeoma hispida* Pursh. Rough hedeoma. Native annual. Rare in upper-slope shrublands. Voucher: Carr & Westlund 20666. Line drawing: Diggs et al. (1999), p. 761.

*Lamium amplexicaule* L. Henbit. Naturalized annual. Occasional during spring in riparian woodlands. Photo: SAM-588, SAM-589, SAM-722. Line drawing: Diggs et al. (1999), p. 761.

*Monarda punctata* L. Spotted beebalm. Native annual. Occasional in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr 20691. Photo: SAM-778. Line drawing: Diggs et al. (1999), p. 771.

- Salvia ballotiflora* Benth. Meajorana, shrubby blue sage. Native shrub. Rare in upper slope shrublands. Voucher: Carr & Westlund 20641. Photo: SAM-760, SAM-1112.
- Salvia coccinea* Buch. Scarlet sage, tropical sage. Native annual. Rare in riparian woodlands along Picoso Creek. Photo: SAM-437, SAM-1163. Line drawing: Diggs et al. (1999), p. 775.
- Scutellaria drummondii* Benth. Annual skullcap. Native annual. Occasional in upland woodlands and upper-slope shrublands. Voucher: Carr 20705. Photo: SAM-635. Line drawing: Diggs et al. (1999), p. 781.
- Scutellaria ovata* Hill. Eggleaf skullcap. Native perennial. Rare in riparian woodlands. Voucher: Carr & Candee 20950. Line drawing: Diggs et al. (1999), p. 781.
- Stachys crenata* Raf. Shade betony. Native annual. Rare in riparian woodlands. Voucher: Carr 20529. Line drawing: Diggs et al. (1999), p. 785.

#### Lemnaceae Duckweed Family

- Lemna aequinoctialis* Welw. Duckweed. Native annual. Floating among flotsam on surface of Picoso Creek 50-75 ft. N of confluence with San Antonio River. Voucher: Carr & Candee 21254. Photos: SAM-1114, SAM-1115. Line drawing: Diggs et al. (1999), p. 1188.

#### Liliaceae Lily Family

- Allium canadense* L. var. *canadense*. Canada wild-onion. Native perennial. Rare in riparian woodlands. Photo: SAM-720, SAM-723. Line drawing: Diggs et al. (1999), p. 1195.
- Allium drummondii* Regel. Drummond wild-garlic. Native perennial. Rare in upland woodlands and upper-slope shrublands. Voucher: Carr & Benesh 20510. Line drawing: Diggs et al. (1999), p. 1199.
- Cooperia drummondii* Herb. Drummond rain-lily, cebolleta. Native perennial. Occasional in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr 20234. Photo: SAM-367, SAM-368, SAM-374, SAM-973. Line drawing: Diggs et al. (1999), p. 1203.
- Cooperia pedunculata* Herb. Giant rain-lily. Native perennial. Occasional in upland woodlands, upper-slope shrublands and riparian woodlands. Voucher: Carr & Benesh 20512. Photo: SAM-690. Line drawing: Diggs et al. (1999), p. 1203.
- Habranthus tubispathus* (L'Her.) Traub [*Habranthus texanus* (Herb.) Steud., *Zephyranthes texana* Hook.] Copper rainlily, atamosco lily. Naturalized perennial. Rare in opening in upland woodland. Voucher: Carr 20216. Photo: SAM-465. Line drawing: Diggs et al. (1999), p. 1203.
- Nothoscordum bivalve* (L.) Britt. False garlic, crow poison. Native perennial. Occasional in upland woodlands and upper-slope shrublands. Voucher: Carr & Benesh 20509. Photo: SAM-632, SAM-1095. Line drawing: Diggs et al. (1999), p. 1209.
- Schoenocaulon drummondii* Gray. Drummond green-lily, Drummond sabadilla. Native perennial. Rare in upland woodlands at N29°05.941', W098°10.080' and N29°05.935', W098°10.081'; observed with leaves and green fruit, 30 Oct 2001 and 12 August 2002. Voucher: Carr 21214. Photo: SAM-1073.

#### Linaceae Flax Family

- Linum imbricatum* (Raf.) Shinnars. Shingle flax. Native annual. Occasional in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr & Benesh 20505. Photo: SAM-618, SAM-638, SAM-639.

#### Malvaceae Mallow Family

- Abutilon fruticosum* Guillemin & Perrottet [*Abutilon incanum* (Link.) Sweet]. Texas Indian-mallow. Native perennial. Occasional in upper-slope shrublands. Photo: SAM-533. Line drawing: Diggs et al. (1999), p. 803.

- Abutilon wrightii* Gray. Wright abutilon. Native perennial. Rare in upper slope shrublands. Voucher: Carr & Candee 21246. Photo: SAM-1113.
- Callirhoe leiocarpa* Martin. Poppy mallow. Native annual. Occasional in upland woodlands and upper-slope shrublands. Voucher: Carr, Benesh, Elliott & Carré 19754; Carr & Westlund 20657. Line drawing: Diggs et al. (1999), p. 809.
- Malvastrum coromandelianum* (L.) Gke. Threelobe false-mallow. Native perennial. Occasional throughout. Voucher: Carr, Benesh & Gallyoun 21086. Photo: SAM-007, SAM-262, SAM-263. Line drawing: Diggs et al. (1999), p. 813.
- Malvaviscus arboreus* Cav. var. *drummondii* (T. & G.) Schery. Turk's cap. Native perennial. Locally frequent in riparian woodlands; occasional in upland woodlands. Voucher: Carr 21218. Photo: SAM-003, SAM-004. Line drawing: Diggs et al. (1999), p. 817.
- Rhynchosida physocalyx* (Gray) Fryxell [*Sida physocalyx* Gray]. Spearleaf sida. Native perennial. Apparently rare on tract, noted only in roadbed through old fields on easement. Voucher: Carr 20717. Photos: SAM-093, SAM-094, SAM-297, SAM-298; SAM-795. Line drawing: Diggs et al. (1999), p. 819.
- Sida abutifolia* H. B. K. [*Sida filicaulis* T. & G.]. Creeping yellow sida. Native perennial. Occasional in old fields. Voucher: Carr & Candee 20967. Photo: SAM-329. Line drawing: Diggs et al. (1999), p. 819.
- Sida spinosa* L. Prickly sida. Native perennial. Occasional in old fields. Vouchers: Carr & Carré 19840; Carr & Benesh 21188. Photo: SAM-329, SAM-987, SAM-988. Line drawing: Diggs et al. (1999), p. 819.

#### Meliaceae Mahogany Family

- Melia azedarach* L. Chinaberry. Naturalized tree. Apparently rather uncommon at present in riparian woodlands: rare along Picoso Creek and only occasional along San Antonio River (e.g., at N29°05.903', W098°09.633', where 5-10 mature but small trees were observed on 13 June 2002). Voucher: Carr, Benesh & Gallyoun 21082. Photo: SAM-395, SAM-396, SAM-805. Line drawing: Diggs et al. (1999), p. 825.

#### Molluginaceae Carpetweed Family

- Mollugo verticillata* L. Green carpetweed. Native annual. Frequent in old fields and roadbeds on sandier soils; also on clay exposed in dry bed of Picoso Creek. Vouchers: Carr 20222; Carr, Benesh & Gallyoun 21079; Carr 21243. Photo: SAM-986, SAM-1108. Line drawing: Diggs et al. (1999), p. 829.

#### Moraceae Mulberry Family

- Morus alba* L. White mulberry, Asian mulberry. Naturalized tree. Occasional in riparian woodlands. Voucher: Carr & Candee 20944. Photo: SAM-170, SAM-174. Line drawing: Diggs et al. (1999), p. 833.
- Morus rubra* L. Red mulberry. Native tree. Occasional in riparian woodlands. Voucher: Carr, Benesh, Elliott & Carré 19753. Photo: SAM-1147. Line drawing: Diggs et al. (1999), p. 833.

#### Nyctaginaceae Four-o'clock Family

- Acleisanthes longiflora* Gray. Angel trumpets. Native perennial. Common in upland woodlands and upper-slope shrublands. Voucher: Carr 20220. Photo: SAM-489, SAM-1098. Line drawing: Diggs et al. (1999), p. 837.

- Acleisanthes obtusa* (Choisy) Standl. Berlandier trumpets. Native perennial. Occasional to locally common in upland woodlands and upper-slope shrublands. Voucher: Carr & Candee 20111, Carr 20207. Photo: SAM-156, SAM-157, SAM-459, SAM-460, SAM-461, SAM-463, SAM-511, SAM-512.
- Mirabilis linearis* (Pursh) Heimerl. Slenderleaf four-o'clock, umbrella-wort. Native perennial. Rare in old fields. Voucher: Carr 20383. Photo: SAM-084, SAM-085, SAM-086, SAM-369. Line drawing: Diggs et al. (1999), p. 843.
- Nyctaginea capitata* Choisy. Scarlet muskflower. Native perennial. Occasional in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr 20210. Photo: SAM-014, SAM-015, SAM-016, SAM-017, SAM-103, SAM-104, SAM-105, SAM-106. Line drawing: Diggs et al. (1999), p. 843.

#### Oleaceae Olive Family

- Forestiera angustifolia* Torr. Panalero, narrowleaf elbowbush, desert olive. Native shrub. Rather rare in upper-slope shrublands. Voucher: Carr & Candee 20963. Photo: SAM-1062.
- Fraxinus berlandieriana* DC. Fresno, ash. Native tree. Apparently rare in riparian woodland on terrace of San Antonio River; one mature tree and numerous seedlings at N29°05.837', W098°09.756 +/- 16.3 ft. Voucher: Carr & Candee 21252. Photo: SAM-847.
- Menodora heterophylla* (Moric.) DC. Redbud menodora. Native perennial. Occasional in old fields and along margins of upland woodlands. Voucher: Carr & Westlund 20641. Photos: SAM-756, SAM-802, SAM-803. Line drawing: Diggs et al. (1999), p. 853.

#### Onagraceae Evening-Primrose Family

- Gaura brachycarpa* Small. Shortfruit gaura. Native annual. Frequent in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr 20694. Line drawing: Diggs et al. (1999), p. 853.
- Gaura parviflora* Doug. Smallflower gaura. Native annual. Occasional in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr 20699. Photo: SAM-790. Line drawing: Diggs et al. (1999), p. 857.
- Oenothera laciniata* Hill. Cutleaf evening-primrose. Native annual. Rare in old fields. Voucher: Carr & Benesh 20485. Photo: SAM-621, SAM-622. Line drawing: Diggs et al. (1999), p. 867.
- Oenothera speciosa* Nutt. Pink evening-primrose. Native perennial. Occasional in old fields. Voucher: Carr & Benesh 20484. Photo: SAM-673. Line drawing: Diggs et al. (1999), p. 867.

#### Oxalidaceae Wood-Sorrel Family

- Oxalis dichondrifolia* Gray. Ponyfoot oxalis. Native perennial. Occasional in upper-slope shrublands. Voucher: Carr & Westlund 20659. Photo: SAM-430, SAM-636, SAM-637.
- Oxalis dillenii* Jacq. [*Oxalis stricta* L.] Yellow sour-clover. Native annual. Occasional throughout. Voucher: Carr & Candee 20939. Photo: SAM-393. Line drawing: Diggs et al. (1999), p. 871.
- Oxalis drummondii* Gray. Drummond wood-sorrel. Native perennial. Frequent in upland woodlands and upper-slope shrublands; occasional in riparian woodlands. Voucher: Carr 21237. Photo: SAM-402, SAM-403, SAM-1092. Line drawing: Diggs et al. (1999), p. 871.

#### Papaveraceae Poppy Family

- Argemone sanguinea* Greene. Prickly-poppy. Native annual. Occasional in openings in upland woodlands. Voucher: Carr 20712. Photo: SAM-640.

#### Passifloraceae Passionflower Family



*Passiflora tenuiloba* Engelm. Slimlobe passionflower. Native perennial herbaceous vine. Occasional in upper-slope shrublands. Vouchers: Carr 21210 (vegetative); Carr 21241 (flowering). Photo: SAM-739, SAM-1106. Line drawing: Diggs et al. (1999), p. 879.

Phytolaccaceae Pokeweed Family

*Rivina humilis* L. Pigeonberry. Native perennial. Rare in riparian woodlands. Voucher: Carr & Candee 20960. Photo: SAM-400, SAM-401, SAM-425, SAM-426, SAM-1137. Line drawing: Diggs et al. (1999), p. 885.

Plantaginaceae Plantain Family

*Plantago hookeriana* Fisch. & Mey. Hooker plantain. Native annual. Occasional in old fields and openings in upper-slope shrublands. Vouchers: Carr 20681. Photo: SAM-769. Line drawing: Diggs et al. (1999), p. 887.

*Plantago rhodosperma* Dcne. Redseed plantain. Native annual. Frequent in old fields, upland woodlands and riparian woodlands. Voucher: Carr 20519. Photo: SAM-700. Line drawing: Diggs et al. (1999), p. 887.

*Plantago wrightiana* Dcne. Wright plantain. Native annual. Rare in old fields. Voucher: Carr & Westlund 20667; Carr 20695. Line drawing: Diggs et al. (1999), p. 889.

Poaceae (Gramineae) Grass Family

*Aristida purpurea* Nutt. var. *longiseta* (Steud.) Vasey [*Aristida longiseta* Steud.] Long-awn threeawn, dogtowngrass. Native perennial. Occasional to locally common in old fields and upper-slope shrublands. Vouchers: Carr 20384; Carr & Westlund 20655. Photo: SAM-1075. Line drawing: Diggs et al. (1999), p. 1245.

*Aristida purpurea* Nutt. var. *purpurea* [incl. *Aristida roemeriana* Scheele]. Purple threeawn. Native perennial. Occasional in upland woodlands and upper-slope shrublands. Voucher: Carr 20387; Carr & Westlund 20670. Photo: SAM-922. Line drawing: Diggs et al. (1999), p. 1245.

*Avena sativa* L. Oats. Introduced annual. Occasional volunteer in old fields. Voucher: Carr 20719. Photo: SAM-796. Line drawing: Diggs et al. (1999), p. 1249.

*Bothriochloa ischaemum* (L.) Keng var. *songarica* (Rupr.) Celerier & Harlan. King Ranch bluestem. Naturalized perennial. Frequent to locally abundant in upland woodlands and upper-slope shrublands. Voucher: Carr 20226. Photo: SAM-969. Line drawing: Diggs et al. (1999), p. 1249.

*Bothriochloa laguroides* (DC.) Herter subsp. *torreyana* (Steud.) Allred & Gould [*Bothriochloa saccharoides* (Sw.) Rydb. var. *torreyana* (Steud.) Gould]. Silver bluestem. Native perennial. Occasional to frequent in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr 20977. Photo: SAM-534. Line drawing: Diggs et al. (1999), p. 1249.

*Bouteloua curtispindula* (Michx.) Rydb. Sideoats grama. Native perennial. Frequent in upper-slope shrublands. Voucher: Carr 20228. Photos: SAM-344, SAM-345. Line drawing: Diggs et al. (1999), p. 1249.

*Bouteloua rigidiseta* (Steud.) Hitchc. Texas grama, mesquitegrass. Native perennial. Occasional in upland woodlands and upper-slope shrublands. Vouchers: Carr 20393, Carr & Westlund 20641. Photo: SAM-1068. Line drawing: Diggs et al. (1999), p. 1251.

*Bouteloua trifida* Thurb. Red grama. Native perennial. Locally frequent in upper-slope shrublands. Vouchers: Carr 21139; Carr 21345. Photo: SAM-948, SAM-1140. Line drawing: Diggs et al. (1999), p. 1251.

*Bromus catharticus* Vahl [*Bromus unioloides* (Willd.) Kunth]. Rescuegrass. Naturalized annual. Occasional to frequent throughout. Voucher: Carr 20534. Photo: SAM-678. Line drawing: Diggs et al. (1999), p. 1251.

- Bromus japonicus* Thunb. ex Murr. Japanese brome. Naturalized annual. Occasional in old fields. Voucher: Carr 20535. Line drawing: Diggs et al. (1999), p. 1255.
- Buchloe dactyloides* (Nutt.) Engelm. Buffalograss. Native perennial. Noted only in bottom of quarry but presumably also present, perhaps mixed with *Hilaria belangeri*, in upland sites. Voucher: Carr 21340. Photo: SAM-1045, SAM-1139. Line drawing: Diggs et al. (1999), p. 1255.
- Cenchrus spinifex* Cav. [*Cenchrus incertus* Curtis]. Sandbur grass. Native perennial. Occasional in old fields and upland woodlands. Voucher: Carr 20202. Photo: SAM-452. Line drawing: Diggs et al. (1999), p. 1255.
- Chasmanthium latifolium* (Michx.) Yates. Creek oats, inland sea oats. Native perennial. Occasional in riparian woodlands. Voucher: Carr & Candee 20949. Photo: SAM-125. Line drawing: Diggs et al. (1999), p. 1257.
- Chloris ciliata* Sw. Fringed chloris. Native perennial. Occasional in openings in upland woodlands and upper-slope shrublands. Voucher: Carr 20086.
- Chloris cucullata* Bisch. Hooded windmillgrass. Native perennial. Frequent in upland woodlands. Voucher: Carr 20201. Photo: SAM-153, SAM-154, SAM-453. Line drawing: Diggs et al. (1999), p. 1257.
- Chloris verticillata* Nutt. Tumble windmillgrass. Native perennial. Occasional in openings in upland woodlands. Voucher: Carr 20208. Photo: SAM-1063. Line drawing: Diggs et al. (1999), p. 1257.
- Cynodon dactylon* (L.) Pers. var. *dactylon*. Bermudagrass. Naturalized perennial. Common throughout except on slopes. Voucher: Carr & Candee 20946. Photo: SAM-033. Line drawing: Diggs et al. (1999), p. 1261.
- Dichanthium annulatum* (Forsk.) Stapf. var. *annulatum*. Kleberg bluestem. Naturalized perennial. Occasional in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr 20224. Photo: SAM-067, SAM-068. Line drawing: Diggs et al. (1999), p. 1265.
- Dichanthium sericeum* (R. Br.) A. Camus. Silky bluestem. Naturalized perennial. Locally common in old fields. Voucher: Carr 20077. Photo: SAM-362, SAM-363, SAM-531.
- Digitaria ciliaris* (Retz.) Koel. [*Digitaria adscendens* (H.B.K.) Henrard]. Southern crabgrass. Naturalized perennial. Occasional in old fields, upland woodlands and riparian woodlands. Vouchers: Carr 20079; Carr 21235. Line drawing: Diggs et al. (1999), p. 1265.
- Digitaria cognata* (Schult.) Pilger subsp. *cognata* [*Leptoloma cognatum* (Schult.) Chase]. Fall witchgrass. Native perennial. Occasional in old fields and upper-slope shrublands. Voucher: Carr 20388. Photo: SAM-950. Line drawing: Diggs et al. (1999), p. 1265.
- Elymus virginicus* L. var. *virginicus*. Virginia wildrye. Native perennial. Common in riparian woodlands. Voucher: Carr & Westlund 20671. Photos: SAM-764, SAM-765. Line drawing: Diggs et al. (1999), p. 1271.
- Eragrostis barrelieri* Daveau. Mediterranean lovegrass. Naturalized annual. Rare in bed of road through entrance easement. Voucher: Carr 21366. Photo: SAM-1053. Line drawing: Diggs et al. (1999), p. 1271.
- Eragrostis curtipedicellata* Buckl. Gummy lovegrass. Native perennial. Occasional in old fields. Voucher: Carr 20076. Photo: SAM-1002. Line drawing: Diggs et al. (1999), p. 1271.
- Eragrostis intermedia* A. S. Hitchc. Plains lovegrass. Native perennial. Occasional in old fields, upland woodlands and upper-slope shrublands. Vouchers: Carr 20075; Carr 20385; Carr 20386. Photo: SAM-1057. Line drawing: Diggs et al. (1999), p. 1273. Some of these specimens approach *Eragrostis hirsuta* (Michx.) Nees (bigtop lovegrass), another native perennial.
- Eragrostis secundiflora* Presl. subsp. *oxylepis* (Torr.) S. D. Koch [*Eragrostis oxylepis* (Torr.) Torr. Red lovegrass. Native perennial. Frequent in old fields on sandier soils. Voucher: Carr 20204. Photo: SAM-454. Line drawing: Diggs et al. (1999), p. 1275.
- Eragrostis sessilispica* Buckl. Tumble lovegrass. Native perennial. Rare, noted only in sandy outwash from old quarry pit. Voucher: Carr 20404. Photo: SAM-1138. Line drawing: Diggs et al. (1999), p. 1275.

- Eriochloa sericea* (Scheele) Munro. Silky cupgrass. Native perennial. Rare in upper-slope shrublands. Voucher: Carr 21337. Photo: SAM-1132. Line drawing: Diggs et al. (1999), p. 1275.
- Hilaria belangeri* (Steud.) Nash. Curlymesquite. Native perennial. Frequent in upper-slope shrublands; occasional in upland woodlands. Voucher: Carr 20394. Line drawing: Diggs et al. (1999), p. 1279.
- Hordeum pusillum* Nutt. Little barley, southwestern barley. Native annual. Occasional throughout. Voucher: Carr & Westlund 20697. Photo: SAM-787. Line drawing: Diggs et al. (1999), p. 1279.
- Leptochloa dubia* (Kunth) Nees. Green sprangletop. Native perennial. Apparently rare, noted only in shade of mesquite along top of gully header. Voucher: Carr 21341. Photo: SAM-1099, SAM-1143. Line drawing: Diggs et al. (1999), p. 1283.
- Limnodea arkansana* (Nutt.) L. H. Dewey. Ozarkgrass. Native annual. Occasional to frequent in all habitats except heavily grazed riparian woodlands. Voucher: Carr & Westlund 20662. Photo: SAM-730. Line drawing: Diggs et al. (1999), p. 1283.
- Nassella leucotricha* (Trin. & Rupr.) Pohl [*Stipa leucotricha* Trin. & Rupr.]. Texas wintergrass, speargrass. Native perennial. Common in upland woodlands, occasional elsewhere. Voucher: Carr 20701. Photo: SAM-971. Line drawing: Diggs et al. (1999), p. 1289.
- Panicum capillarioides* Vasey. Southern witchgrass. Native perennial. Rare, noted only in mown parking area near monument. Voucher: Carr 21334. Photo: [take photo of specimen when mounted].
- Panicum hallii* Vasey. Hall's panicum. Native perennial. Occasional in old fields and openings in upper-slope shrublands. Vouchers: Carr 20088; Carr 20698. Photo: SAM-370. Line drawing: Diggs et al. (1999), p. 1301.
- Panicum oligoanthes* Schult. [*Dichantherium oligoanthes* (Scribn.) Gould]. Fewflower panicgrass. Native perennial. Occasional in riparian woodlands, mostly on sandier soils of San Antonio River terrace. Voucher: Carr, Benesh & Gallyoun 21083. Line drawing: Diggs et al. (1999), p. 1303.
- Paspalum langei* (Fourn.) Nash. Rustyseed paspalum. Native perennial. Rare in riparian woodlands. Voucher: Carr & Candee 20932. Photos: SAM-1047, SAM-1048. Line drawing: Diggs et al. (1999), p. 1307.
- Paspalum pubiflorum* Fourn. Hairyseed paspalum. Native perennial. Occasional in riparian woodlands. Voucher: Carr & Candee 20945. Photo: SAM-440. Line drawing: Diggs et al. (1999), p. 1309.
- Paspalum urvillei* Steud. Vaseygrass. Naturalized perennial. Occasional in riparian woodlands. Line drawing: Diggs et al. (1999), p. 1309.
- Pennisetum ciliare* (L.) Link [*Cenchrus ciliaris* L.]. Buffelgrass. Naturalized perennial. Rare, a few plants in old field immediately inside gate along county road. Voucher: Carr 20984. Photo: SAM-340.
- Phalaris caroliniana* Walt. Carolina canarygrass. Native annual. Common in old fields and upland woodlands; rare in grazed riparian woodlands. Voucher: Carr 20680. Photo: SAM-771. Line drawing: Diggs et al. (1999), p. 1313.
- Setaria leucopila* (Scribn. & Merr.) K. Schum. Plains bristlegrass. Native perennial. Occasional in upland woodlands and upper-slope shrublands. Voucher: Carr 20983. Photo: SAM-951. Line drawing: Diggs et al. (1999), p. 1321.
- Setaria ramiseta* (Scribn.) Pilg. [*Panicum ramisetum* Scribn.]. Bristlegrass. Native perennial. Rare in upland woodlands and upper-slope shrublands. Voucher: Carr 20714. Photo: SAM-985. Line drawing: Diggs et al. (1999), p. 1323.
- Setaria scheelei* (Steud.) Hitchc. Southwestern bristlegrass. Native perennial. Occasional in upland woodlands, upper-slope shrublands and riparian woodlands. Voucher: Carr 20221. Photo: SAM-173, SAM-175. Line drawing: Diggs et al. (1999), p. 1323.
- Sorghum halepense* (L.) Pers. Johnsongrass. Naturalized perennial. Common in old fields where probably planted as hay crop; also in upland woodlands. Voucher: Carr 20973. Photo: SAM-036, SAM-037. Line drawing: Diggs et al. (1999), p. 1325.
- Sporobolus compositus* (Poir.) Merr. var. *compositus* [*Sporobolus asper* (Michx.) Kunth var. *drummondii* (Trin.) Vasey] Meadow dropseed. Native perennial. Common in upper-slope shrublands. Voucher: Carr 21211. Photo: SAM-1069. Line drawing: Diggs et al. (1999), p. 1325.

- Sporobolus cryptandrus* (Torr.) Gray. Sand dropseed. Native perennial. Common in old fields on sandy soils; frequent in openings in upland woodlands and upper-slope shrublands. Vouchers: Carr 20074, Carr 20087. Line drawing: Diggs et al. (1999), p. 1325.
- Trichloris pluriflora* Fourn. [*Chloris pluriflora* (Fourn.) Clayton] Manyflower false-Rhodesgrass. Native perennial. Rare in upper-slope shrublands. Voucher: Carr & Candee 20952. Photo: SAM-994.
- Tridens albescens* (Vasey) Woot. & Standl. White tridens. Native perennial. Local in depressional areas in bottom of quarry. Voucher: Carr & Candee 21251. Photo: SAM-798. Line drawing: Diggs et al. (1999), p. 1331.
- Tridens eragrostoides* (Vasey & Scribn.) Nash. Lovegrass tridens. Native perennial. Rare in gully headers. Voucher: Carr 20406. Photo: SAM-1056.
- Tridens muticus* (Torr.) Nash var. *muticus* [*Triodia mutica* (Torr.) Scribn.] Slim tridens. Native perennial. Occasional in upper-slope shrublands. Voucher: Carr 21136. Photo: SAM-1067. Line drawing: Diggs et al. (1999), p. 1331.
- Tridens texanus* (S. Wats.) Nash [*Triodia texana* S. Wats.] Texas tridens. Native perennial. Common in upper-slope shrublands; occasional in upland woodlands. Voucher: Carr 20218. Photo: SAM-467, SAM-1058. Line drawing: Diggs et al. (1999), p. 1333.
- Urochloa ciliatissima* (Buckl.) R. D. Webster [*Brachiaria ciliatissima* Buckl.]. Fringed signalgrass. Native perennial. Rare, local in old field on Wilco soils just inside gate along county road. Voucher: Carr 20678. Line drawing: Diggs et al. (1999), p. 1333.
- Urochloa fasciculata* (Swartz) Webster [*Brachiaria fasciculata* (Swartz) Parodi; *Panicum fasciculatum* Swartz]. Browntop signalgrass. Native annual. Common in old fields; occasional in upland woodlands. Voucher: Carr 20212. Photo: SAM-363, SAM-382, SAM-383. Line drawing: Diggs et al. (1999), p. 1333.
- Urochloa texana* (Buckl.) Webster [*Brachiaria texana* (Buckl.) Blake; *Panicum texanum* Buckl.] Texas signalgrass, Texas millet. Native annual. Common in old fields, particularly those on sandier soils; occasional in upland woodlands. Voucher: Carr 20078. Photo: SAM-451. Line drawing: Diggs et al. (1999), p. 1337.
- Vulpia octoflora* (Walt.) Rydb. Sixweeksgrass. Native annual. Rare in old field at gate. Line drawing: Diggs et al. (1999), p. 1337.

#### Polemoniaceae Phlox Family

- Gilia incisa* Benth. Cutleaf gilia. Native perennial. Occasional in upper-slope shrublands. Voucher: Carr & Westlund 20661. Photo: SAM-728. Line drawing: Diggs et al. (1999), p. 889.
- Phlox drummondii* Hook. Drummond phlox. Native annual. Rare, noted (in 2002) only along fenceline near gate. Voucher: Carr & Benesh 20483. Photo: SAM-617. Line drawing: Diggs et al. (1999), p. 893.

#### Polygalaceae Milkwort Family

- Polygala alba* Nutt. White milkwort. Native perennial. Occasional in upper-slope shrublands; local on rock outcrops in old quarry. Voucher: Carr & Westlund 20655-B. Photo: SAM-736. Line drawing: Diggs et al. (1999), p. 895.
- Polygala lindheimeri* Gray. Lindheimer milkwort. Native perennial. Rare in upper-slope shrublands. Voucher: Carr 21212. Photo: SAM-1071. Line drawing: Diggs et al. (1999), p. 895.

#### Polygonaceae Knotweed Family

- Polygonum punctatum* Ell. [*Persicaria punctata* (Ell.) Small] Dotted smartweed. Native annual. Locally abundant on banks of Picoso Creek. Voucher: Carr & Candee 20113. Photo: SAM-4340. Line drawing: Diggs et al. (1999), p. 903.

*Polygonum ramosissimum* Michx. Knotweed. Native annual. Occasional on banks of Picoso Creek; in flower and early fruit, 14 Aug 2001, 21 Sep 2001. Voucher: Carr 19901. Line drawing: Diggs et al. (1999), p. 903.

*Rumex pulcher* L. Fiddle Dock. Naturalized perennial. Rare in bed of Picoso Creek and in minor drainages across entrance easement; also on sandy terrace of San Antonio River. Voucher: Carr 20970. Line drawing: Diggs et al. (1999), p. 907.

#### Portulacaceae Portulaca Family

*Portulaca pilosa* L. [*Portulaca mundula* I. M. Johnston] Chisme, shaggy portulaca. Native perennial. Rare in old field along easement road. Voucher: Carr 20203. Photo: SAM-952, SAM-1118. Line drawing: Diggs et al. (1999), p. 909.

*Portulaca umbraticola* H.B.K. Wingpod purslane, Chinese hat. Native annual. Rare along road through old field on entrance easement and around parking area at monument. Voucher: Carr & Benesh 21170. Photo: SAM-990. Line drawing: Diggs et al. (1999), p. 909.

*Talinum aurantiacum* Engelm. [*Talinum angustissimum* (Gray) Woot. & Standl.] Orange flameflower. Native perennial. Occasional in mesquite-dominated upland woodlands. Voucher: Carr 20093. Photo: SAM-466. Line drawing: Diggs et al. (1999), p. 909.

#### Primulaceae Primrose Family

*Anagallis arvensis* L. Scarlet pimpernel. Naturalized annual. Occasional in old fields. All individuals observed in 2002 were of the form sporting a dark blue or violet (rather than salmon-colored) corolla. Voucher: Carr & Benesh 20481. Photo: SAM-777. Line drawing: Diggs et al. (1999), p. 915.

#### Ranunculaceae Crowfoot Family

*Anemone berlandieri* Pritz. [*Anemone heterophylla* Nutt.] Tenpetal anemone. Native perennial. Occasional in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr 20702. Photo: SAM-668, SAM-789. Line drawing: Diggs et al. (1999), p. 919.

*Clematis drummondii* T. & G. Old man's beard. Native perennial herbaceous vine. Occasional throughout. Voucher: Carr & Candee 20966. Photo: SAM-108, SAM-109, SAM-110; SAM-120, SAM-121, SAM-122. Line drawing: Diggs et al. (1999), p. 919.

*Clematis pitcheri* T. & G. Purple leatherflower. Native perennial herbaceous vine. Occasional in riparian woodlands. Photo: SAM-419, SAM-420, SAM-421. Line drawing: Diggs et al. (1999), p. 919.

*Delphinium carolinianum* Walt. White delphinium, larkspur. Native perennial. Rare in openings in upper-slope shrublands and in fencelines along old fields. Voucher: Carr & Westlund 20663. Photo: SAM-766. Line drawing: Diggs et al. (1999), p. 925.

#### Rhamnaceae Buckthorn Family

*Colubrina texensis* (T. & G.) Gray var. *texensis*. Texas colubrina, hog plum. Native shrub. A common component of shrublands on upper slopes; occasional in other habitats. Vouchers: Carr 20220-B; Carr 20703. Photo: SAM-039, SAM-734, SAM-738. Line drawing: Diggs et al. (1999), p. 935.

*Condalia hookeri* M. C. Johnston var. *hookeri*. Brasil, bluewood condalia. Native tree or tall shrub. A common component of shrublands on upper slopes; occasional in other habitats. Voucher: Carr 20399. Photo: SAM-313, SAM-314. Line drawing: Diggs et al. (1999), p. 935.

*Ziziphus obtusifolius* (Hook. ex T. & G.) Gray. Lotebush. Native shrub. Occasional in upper-slope shrublands and upland woodlands. Voucher: Carr & Candee 20955. Photo: SAM-312. Line drawing: Diggs et al. (1999), p. 939.

## Rosaceae Rose Family

- Crataegus* sp. Hawthorn. Native tree or large shrub. Similar to downy haw (*Crataegus mollis* Scheele). Occasional in riparian woodlands. Voucher: Carr & Carré 19840-B. Photo: SAM-047, SAM-048, SAM-698. Line drawing: Diggs et al. (1999), p. 943.
- Prunus texana* Dietr. [*Prunus glandulosa* T. & G.] Texas peachbush. Native shrub. One individual with four shrubby clumps, the largest ca. 2 ft. tall, observed on 17 Sep 2001 and 23 April 2002, in old field on sandy soils, ca. 10-20 ft. SE of NE-SW road along entrance easement ca. 500 ft. NE of gate on County Rd. 144, at GPS point N029°05.537', W098°10.612' +/- 11.9 ft. Voucher: Carr 20081. Photo: SAM-449.
- Rubus riograndis* Bailey [*Rubus trivialis* Michx.] Southern dewberry. Native woody shrub. Occasional in riparian woodlands. Voucher: Carr 20524. Photo: SAM-532, SAM-701. Line drawing: Diggs et al. (1999), p. 957.

## Rubiaceae Madder Family

- Cephalanthus occidentalis* L. var. *californicus* Benth. Common buttonbush. Native shrub. Occasional on banks of Picoso Creek. Voucher: Carr, Benesh & Gallyoun 21087. Photo: SAM-880. Line drawing: Diggs et al. (1999), p. 963.
- Galium aparine* L. Clingon bedstraw, cleavers. Native annual. Occasional in riparian woodlands; rare along drainage through old fields. Vouchers: Carr 20523; Carr 20700. Photo: SAM-1146. Line drawing: Diggs et al. (1999), p. 963.
- Galium virgatum* Nutt. Wand bedstraw. Native annual. Occasional in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr & Benesh 20487. Photo: SAM-735. Line drawing: Diggs et al. (1999), p. 965.
- Hedyotis nigricans* (Lam.) Fosb. var. *nigricans* [incl. *Hedyotis nigricans* var. *filifolia* (Chapm.) Shinnery]. Prairie bluets. Native perennial. Rare in upper-slope shrublands. Voucher: Carr & Candee 20961. Photo: SAM-811. Line drawing: Diggs et al. (1999), p. 965.
- Houstonia parviflora* Holzinger ex Greenman [*Hedyotis greenmanii* Fosberg]. Greenman's bluet. Native annual. Rare in upper-slope shrublands. Voucher: Carr & Benesh 20506.
- Richardia tricocca* (T. & G.) Standl. [*Diodia tricocca* T. & G.] Prairie buttonweed. Native annual. Rare in old field on Wilco soils and in bottom of quarry pit. Voucher: Carr & Benesh 21185; Carr 21339. Photo: SAM-984, SAM-1135. Line drawing: Diggs et al. (1999), p. 971.

## Rutaceae Citrus Family

- Ptelea trifoliata* L. Wafer ash. Native tree. Frequent in upper-slope shrublands and riparian woodlands. Voucher: Carr & Westlund 20651. Photo: SAM-128, SAM-315, SAM-751. Line drawing: Diggs et al. (1999), p. 977.
- Thamnosma texanum* (Gray) Torr. Texas desert-rue, Dutchman's breeches. Native perennial. Frequent in upper-slope shrublands; occasional in upland woodlands. Voucher: Carr & Benesh 20504. Photo: SAM-680. Line drawing: Diggs et al. (1999), p. 977.
- Zanthoxylum hirsutum* Buckl. Toothache tree, tickle-tongue. Native shrub or small tree. Rare, a few immature shrubs in fenceline along county road. Voucher: Carr 21090. Photo: SAM-981.

## Salicaceae Willow Family

- Populus deltoides* Bart. ex Marsh. subsp. *deltoides*. Eastern cottonwood. Native tree. Occasional on high banks of San Antonio River and Picoso Creek. Voucher: Carr & Candee 20934. Photo: SAM-134, SAM-699. Line drawing: Diggs et al. (1999), p. 977.

*Salix nigra* Marsh. Black willow. Native tree. Occasional on banks of San Antonio River. Voucher: Carr & Candee 20935. Photo: SAM-206, SAM-207, SAM-715. Line drawing: Diggs et al. (1999), p. 981.

#### Sapindaceae Soapberry Family

*Cardiospermum halicacabum* L. Balloonvine. Native annual vine. Rare on bank of Picoso Creek; one plant observed on 14 Aug 2001. GPS point: N029°06.006', W098°09.832' +/- 21.7 ft. Photo: SAM-1159. Line drawing: Diggs et al. (1999), p. 981.

*Sapindus saponaria* L. var. *drummondii* (Hook. & Arn.) L. Benson [*Sapindus drummondii* Hook. & Arn.]. Western soapberry. Native tree. Occasional in riparian woodlands. Voucher: Carr & Benesh 21174. Photo: SAM-286, SAM-287, SAM-288, SAM-291, SAM-292. Line drawing: Diggs et al. (1999), p. 985.

#### Sapotaceae Sapodilla Family

*Sideroxylon lanuginosum* Michx. [*Bumelia lanuginosa* (Michx.) Pers.] Coma, gum bumelia, woolly-bucket bumelia. Native shrub or small tree. Occasional in upper-slope shrublands; fairly common as understory shrub in riparian woodlands. Voucher: Carr & Candee 20954. Photo: SAM-018, SAM-019, SAM-316, SAM-317. Line drawing: Diggs et al. (1999), p. 985.

#### Scrophulariaceae Figwort Family

*Agalinis strictifolia* (Benth.) Penn. [*Gerardia strictifolia* Benth.] South Texas gerardia. Native perennial. Frequent in old fields and upland woodlands; occasional in upper-slope shrublands. Voucher: Carr & Candee 20110. Photo: SAM-442, SAM-443, SAM-456.

*Castilleja indivisa* Engelm. Annual paintbrush. Native annual. Occasional in old fields, upper-slope shrublands and upland woodlands. Voucher: Carr & Benesh 20486. Photo: SAM-623, SAM-624. Line drawing: Diggs et al. (1999), p. 997.

*Maurandya antirrhiniflora* Willd. Snapdragonvine. Native perennial herbaceous vine. Occasional in upper-slope shrublands. Voucher: Carr & Candee 20964. Photos: SAM-444, SAM-749. Line drawing: Diggs et al. (1999), p. 1005.

*Nuttallanthus texanus* (Scheele) D. A. Sutton [*Linaria texana* Scheele]. Texas toadflax. Native annual. Rare in old fields. Voucher: D. Benesh s.n. Line drawing: Diggs et al. (1999), p. 1009.

*Veronica peregrina* L. Wandering veronica. Native annual. Occasional on mud bed of Picoso Creek and on sandy slopes along San Antonio River. Voucher: Carr 20526. Photo: SAM-696. Line drawing: Diggs et al. (1999), p. 1013.

#### Smilacaceae Greenbriar Family

*Smilax bona-nox* L. Saw greenbriar. Native woody vine. Occasional in upper-slope shrublands and riparian woodlands. Voucher: Carr & Candee 20953. Photo: SAM-809. Line drawing: Diggs et al. (1999), p. 1347.

#### Solanaceae Nightshade Family

*Bouchetia erecta* DC. Erect bouchetia. Native perennial. Rare in opening in upper-slope shrubland. Voucher: Carr & Westlund 20644. Line drawing: Diggs et al. (1999), p. 1019.

*Capsicum annuum* L. var. *aviculare* (Dierb.) D'Arcy & Eschbaugh [*Capsicum annuum* L. var. *glabriusculum* (Dun.) Heiser & Pickersgill] Chilipiquín, bird pepper. Native shrub. Rare in upland woodlands, upper-slope shrublands and riparian woodlands. Voucher: Carr 20233. Photo: SAM-1049, SAM-1050, SAM-1093. Line drawing: Diggs et al. (1999), p. 1019.

- Chamaesaracha coronopus* (Dun.) Gray. Green false ground-cherry. Native perennial. Rare in openings in upland woodlands and upper-slope shrublands. Vouchers: Carr & Westlund 20645; Carr 20709; Carr 21242. Photo: SAM-755, SAM-1107.
- Lycium berlandieri* Dun. Berlandier wolf-berry. Native shrub. Occasional in upper-slope shrublands; also in gully thickets. Voucher: Carr, Benesh & Gallyoun 21073. Photo: SAM-517, SAM-1160.
- Physalis angulata* L. Purplevein groundcherry. Native annual. Rare on clay exposed in dry bed of Picoso Creek and on sandy unshaded lower banks of San Antonio River. Voucher: Carr, Benesh & Gallyoun 21076. Photo: SAM-890. Line drawing: Diggs et al. (1999), p. 1025.
- Physalis cinarascens* (Dun.) Hitch. var. *cinarens* [*Physalis viscosa* L. var. *cinarens* (Dun.) Waterfall]. Clammy ground-cherry. Native annual. Rare to occasional in old fields, upland woodlands and upper-slope shrublands. Voucher: Carr & Westlund 20658. Photos: SAM-378, SAM-379. Line drawing: Diggs et al. (1999), p. 1025.
- Solanum elaeagnifolium* Cav. Silverleaf nightshade. Native perennial. Locally common in old field on Colibro soils; occasional in upland woodlands and upper-slope shrublands. Voucher: Carr 21093. Photo: SAM-327, SAM-328, SAM-333. Line drawing: Diggs et al. (1999), p. 1033.
- Solanum triquetrum* Cav. Texas nightshade. Native shrub. Occasional in upland woodlands and upper-slope shrublands. Voucher: Carr 20217. Photo: SAM-438, SAM-439. Line drawing: Diggs et al. (1999), p. 1033.

#### Sterculiaceae Cacao Family

- Hermannia texana* Gray. Mexican mallow. Native perennial. Occasional in upper-slope shrublands. Vouchers: Carr 20091, Carr 20980. Photo: SAM-946.

#### Ulmaceae Elm Family

- Celtis laevigata* Willd. var. *laevigata*. Sugar hackberry. Native tree. Common in riparian woodlands; occasional elsewhere. Voucher: Carr & Candee 21253. Photo: SAM-284, SAM-384, SAM-385, SAM-686. Line drawing: Diggs et al. (1999), p. 1037.
- Celtis laevigata* Willd. var. *reticulata* (Torr.) Benson [*Celtis reticulata* Torr.]. Netleaf hackberry. Occasional in upland woodlands and gully headers. Voucher: Carr 21208. Photo: SAM-936, SAM-1064. Line drawing: Diggs et al. (1999), p. 1037.
- Celtis pallida* Torr. Granjeno, spiny hackberry. Native tree or large shrub. Frequent in upland woodlands and upper-slope shrublands; occasional in riparian woodlands. Vouchers: Carr 20213; Carr 20708. Photo: SAM-306. SAM-885.
- Ulmus americana* L. American elm. Native tree. Rare in riparian woodlands; one large old tree on terrace along San Antonio River. Voucher: Carr & Candee 20933. Photo: SAM-892. Line drawing: Diggs et al. (1999), p. 1041.
- Ulmus crassifolia* Nutt. Cedar elm. Native tree. Common in riparian woodlands; rare in upper-slope shrublands. Voucher: Carr & Candee 20112. Photo: SAM-441. Line drawing: Diggs et al. (1999), p. 1041.

#### Urticaceae Nettle Family

- Parietaria pensylvanica* Muhl. Cucumberweed, pellitory. Native annual. Frequent in riparian woodlands; occasional elsewhere. Voucher: Carr 20713. Photo: SAM-601, SAM-601, SAM-712. Line drawing: Diggs et al. (1999), p. 1045.
- Urtica chamaedryoides* Pursh. Stinging nettle. Native annual. Rare in riparian woodlands. Voucher: Carr 20522. Photo: SAM-697. Line drawing: Diggs et al. (1999), p. 1045.

#### Verbenaceae Vervain Family



- Aloysia gratissima* (Gill. & Hook.) Troncoso. Whitebrush. Native shrub. Rare in upper-slope shrublands and upland woodlands. Voucher: Carr 20707. Photo: SAM-792. Line drawing: Diggs et al. (1999), p. 1051.
- Glandularia bipinnatifida* (Nutt.) Nutt. [*Verbena bipinnatifida* Nutt.] Dakota vervain. Native perennial. Occasional in old fields and upland woodlands. Voucher: Carr & Benesh 20493. Photo: SAM-807. Line drawing: Diggs et al. (1999), p. 1051.
- Glandularia pumila* (Rydb.) Umber [*Verbena pumila* Rydb.]. Pink vervain, low vervain. Native annual. Occasional in old fields and upland woodlands. Voucher: Carr 20718. Photo: SAM-573. Line drawing: Diggs et al. (1999), p. 1051.
- Glandularia quadrangulata* (Heller) Umber. [*Verbena quadrangulata* Heller]. Small white vervain. Native annual. Frequent in old fields and upland woodlands. Voucher: Carr & Benesh 20492. Photo: SAM-586, SAM-627, SAM-628.
- Lantana urticoides* von Hayek [*Lantana horrida* of Texas authors, not Kunth]. Texas lantana. Native shrub. Occasional in upper-slope shrublands. Voucher: Carr 20685. Photos: SAM-347, SAM-348, SAM-450. Line drawing: Diggs et al. (1999), p. 1057.
- Phyla nodiflora* (L.) Greene [*Lippia nodiflora* (L.) Michx.; incl. *Phyla incisa* Small]. Fogfruit or frogfruit. Native perennial. Occasional in riparian woodlands. Voucher: Carr & Candee 20947. Photo: SAM-842. Line drawing: Diggs et al. (1999), p. 1057.
- Verbena canescens* Kunth. Gray vervain. Native perennial. Rare in upland woodlands and upper-slope shrublands. Line drawing: Diggs et al. (1999), p. 1059.
- Verbena halei* Small [*Verbena officinalis* L. subsp. *halei* (Small) Barber]. Texas vervain. Native perennial. Occasional in old fields, upland woodlands and openings in riparian woodlands. Voucher: Carr 20686. Photo: SAM-786. Line drawing: Diggs et al. (1999), p. 1059.
- Verbena plicata* Greene. Fanleaf vervain. Native perennial. Frequent in roadbeds, old fields, upland woodlands and upper-slope shrublands. Voucher: Carr & Benesh 20499. Photo: SAM-630, SAM-1141. Line drawing: Diggs et al. (1999), p. 1059.

#### Violaceae Violet Family

- Hybanthus verticillatus* (Ort.) Baill. Whorled green-violet. Native perennial. Rare in old field on Wilco soils near gate along county road. Voucher: Carr 20683. Photos: SAM-770, SAM-799. Line drawing: Diggs et al. (1999), p. 1063.
- Viola* sp. Violet. Native perennial. Rare in riparian woodland on sandy soils of San Antonio River terrace near NE corner of tract.

#### Viscaceae Mistletoe Family

- Phoradendron tomentosum* (DC.) Gray subsp. *mentosum*. Mistletoe. Native woody parasite. Occasional in trees throughout, most commonly in older mesquite. Voucher: Carr 20400. Photo: SAM-249, SAM-1133. Line drawing: Diggs et al. (1999), p. 1067.

#### Vitaceae Grape Family

- Ampelopsis arborea* (L.) Koehne. Peppervine. Native woody vine. Occasional in riparian woodlands. Voucher: Carr & Candee 20940. Photo: SAM-134, SAM-135, SAM-191, SAM-192. Line drawing: Diggs et al. (1999), p. 1076.
- Cissus incisa* (Nutt.) Des Moul. Ivy tree-bine, cow-itch. Native woody vine. Rare in upper-slope shrublands and riparian woodlands. Voucher: Carr 21091. Photos: SAM-295, SAM-296, SAM-774, SAM-1144. Line drawing: Diggs et al. (1999), p. 1067.

- Parthenocissus quinquefolia* (L.) Planch. Virginia creeper. Native woody vine. Occasional in riparian woodlands. Voucher: Carr & Candee 20941. Photo: SAM-846. Line drawing: Diggs et al. (1999), p. 1071.
- Vitis mustangensis* Buckl. Mustang grape. Native woody vine. Frequent in riparian woodlands; occasional upslope. Voucher: Carr & Candee 20965. Photo: SAM-881. Line drawing: Diggs et al. (1999), p. 1073.

#### Zygophyllaceae Caltrop Family

- Guaiacum angustifolium* Engelm. [*Porlieria angustifolia* (Engelm.) Gray]. Guayacán. Native shrub. Occasional in upper-slope shrublands and on slopes of gullies. Voucher: Carr & Westlund 20638. Photo: SAM-318, SAM-319, SAM-320, SAM-759. Line drawing: Diggs et al. (1999), p. 1075.
- Kallstroemia parviflora* Nort. Warty caltrop. Native annual. Locally common in disturbed soils in roadbeds and parking area near monument. Voucher: Carr & Benesh 21169. Photo: SAM-989. Line drawing: Diggs et al. (1999), p. 1075.
- Tribulus terrestris* L. Puncture-vine, abrojo de flor amarilla. Naturalized annual. Rare in parking area at monument. Voucher: Carr & Benesh 21171. Photo: SAM-099, SAM-100. Line drawing: Diggs et al. (1999), p. 1075.

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