

A CHECKLIST FOR THE VASCULAR PLANTS OF PADRE ISLAND NATIONAL SEASHORE

I.G. NEGRETE¹, A.D. NELSON², J.R. GOETZE³,
L. MACKE², T. WILBURN², and A. DAY²

¹*Department of Biology, Box 158
Texas A&M University-Kingsville
Kingsville, TX 78363, U.S.A.*

²*Department of Biological Sciences, Box T-0100
Tarleton State University
Stephenville, TX 76402, U.S.A.*

³*Science Department
Laredo Community College
Laredo, TX 78040, U.S.A.*

ABSTRACT

The flowering plants of Padre Island National Seashore (PINS) were sampled over a two year period in three different regions of the island. Specimens from our investigation and plants reported for PINS from the literature were compiled into a checklist. The flora contains both *Flaveria brownii* and *Sporobolus tharpaii* which are endemics of the western Gulf of Mexico barrier islands. *Lycium carolinianum* var. *quadrifidum*, reported only along bayshores in Texas, was found in the tidal flat community. Two hundred and fifty-nine genera and 456 species of flowering plants were identified as part of the PINS flora. These occur in 77 families with the Poaceae (95 spp.), Asteraceae (57 spp.), Fabaceae (44 spp.) and Cyperaceae (29 spp.) most common.

RESUMEN

Se han tomado muestras de las angiospermas del parque nacional "Padre Island National Seashore" (PINS) durante un período de dos años, en tres áreas diferentes de la isla. Se hizo un catálogo de los "especímenes" de nuestra investigación y de las plantas citadas a PINS procedentes de una serie de artículos. La flora contiene tanto *Flaveria brownii* como *Sporobolus tharpaii* que son endémicas de las islas de barrera del Oeste en el Golfo de México. Se ha encontrado en la comunidad de la zona mareal plana *Lycium carolinianum* var. *quadrifidum* que antes solamente se había citado a lo largo de las bahías de Texas. 259 géneros y 456 especies de angiospermas fueron identificados en la flora de PINS. Las plantas mencionadas pertenecen a 77 familias siendo las familias Poaceae (95 especies), Asteraceae (57 esp.), Fabaceae (44 esp.), y Cyperaceae (29 esp.) las más abundantes.

INTRODUCTION

The Texas Coast is framed by sandy barrier islands which are floristically similar to other barrier islands of the Gulf of Mexico and Atlantic Coast. However, upland sites on Texas barrier islands often grade into extensive

grassland areas (Duncan & Duncan 1987). Padre Island National Seashore (PINS) encompasses most of the barrier island often referred to as northern Padre Island (Figure 1) and contains extensive grassland areas between its foredune ridges on the eastern gulf side and tidal flats bordering the western Laguna Madre. Southern Padre Island has been considered separately from northern Padre Island in terms of floristic analysis (Judd et al. 1977; Lonard et al. 1978; Lonard & Judd 1980) and is physically separated by the Mansfield Ship Channel. In contrast, Corpus Christi Pass once separated Padre Island from Mustang Island but this pass is now filled and the two islands are joined (Weise & White 1980). There have been a number of investigations involving the vegetation of upland and wetland habitats on northern Padre Island. Most recently, Nelson et al. (1997, 1999) examined four communities in regard to vegetational ecology and floristics near Big Ball Hill on PINS (Fig. 1). Drawe and Ortega (1996) examined effects of seismic survey vehicles on vegetation from five different communities on the northern one-third of the island during October 1988 as well as April and September, 1989. Also, Brown et al. (1989) compiled a vegetative history of the island summarizing early historical accounts and scientific works. Carls et al. (1991) assessed the impact of oil industry activities on three plant communities on the northern one-third of the island, and McAtee and Drawe (1975, 1980, 1981) examined the impacts of vehicular and pedestrian traffic patterns on the northern one-third of the island. However, the most comprehensive ecological treatment of PINS vegetation was done by Baccus and Horton (1979) and Baccus et al. (1977). They examined vegetation along the entire length of PINS and focused on areas with differing amounts of vehicular and pedestrian traffic. Drawe et al. (1981) and Kattner (1973) conducted comprehensive vegetation studies of five habitats about 13 km south of the PINS Ranger Station during each of six seasons from winter 1972 to spring 1973. Higginbotham (1972) analyzed vegetation data from four habitats in the northern one-third of the National Seashore, and Otteni et al. (1972) investigated dune vegetation near the PINS Ranger Headquarters.

PINS was established in 1963 and since that time a considerable number of ecological investigations have been conducted, whereas only four floristic studies have been completed. Rabalais (1975) produced a list of the flora of PINS using work by Jones et al. (1961), Jones (1966), and Rechenthin and Passey (1967). A checklist incorporating data from the aforementioned ecological and floristic studies has never been published. The purpose of this investigation was to produce a checklist for PINS using data from the literature as well as our own field studies of the island. A checklist can aid researchers in identifying plants, provide data for the development of a flora or manual, and allow for biogeographic comparisons with other islands (Nelson Goetze & Lucksinger, unpublished data).

METHODS AND MATERIALS

Areas known as Big Ball Hill, Ranger Road, and Bird Island Basin were sampled during the investigation (Fig. 1). In the Big Ball Hill region, floristic surveys were conducted in May and August through November of 1996, as well as January through March and May of 1997. The Ranger Road and Bird Island Basin regions were sampled from January through April of 1998. Sampling was done by establishing approximately 500m belt transects in each community type with the aid of a Magellan GIS navigator. Communities identified for sampling included coppice dunes, foredunes, barrier flats and secondary dunes, tidal flats (Nelson et al. 1998), and disturbed areas such as roadside ditches. Transects in each community were walked and plants in flower within sight of the transect were sampled. In a few instances, woody vegetation was sampled that was not in flower. Plants collected along the transects were identified by using Jones (1982), Correll and Johnston (1970), Gould (1975), and Gould and Box (1965). Species nomenclature was updated to Jones et al. (1997). Common names were taken from Correll and Johnston (1970) taking into account nomenclatural changes based on Jones et al. (1997). Vouchers were deposited in the herbarium at Texas A&M University-Kingsville (TAIC) and Tarleton State University (TAC) in Stephenville, Texas. In addition to our field data, information from the investigations summarized in the introduction were used in compiling the checklist. Rechenthin and Passey (1967) reported several specimens only as genera; these records were not included in our checklist. These include *Allium*, *Abutilon*, *Callirhoe*, *Desmodium*, *Penstemon*, *Polygonum*, *Rumex*, and *Tragia*. The checklist is arranged alphabetically by and within family and includes the scientific name, authority, common names (if available), herbarium, collector (if available), and collection number. Acronyms used for Texas herbaria include: C.C. Museum (Corpus Christi Museum), PINS (Padre Island National Seashore, Corpus Christi), TAC, and TAIC. When collection data are not available, the abbreviation NSA (No specimen available) is used and investigations where this species was reported are listed. Following the collection data are annotations on habit, endemism, and habitat. Plants that are woody are listed as such; plants without this designation are herbaceous in habit. When known, habitat designations of coppice dunes (CD), foredunes (FD), barrier flat (BF), and tidal flat (TF) (Nelson et al. 1997, 1999) are used.

RESULTS AND DISCUSSION

Seventy-seven families, 259 genera, and 456 species are reported from PINS. The five most common families are Poaceae (20.8%), Asteraceae (12.5%), Fabaceae (9.6%), Cyperaceae (6.4%), and the Euphorbiaceae (4.2%). The flora of PINS primarily represents a subset of the flora of the South Texas

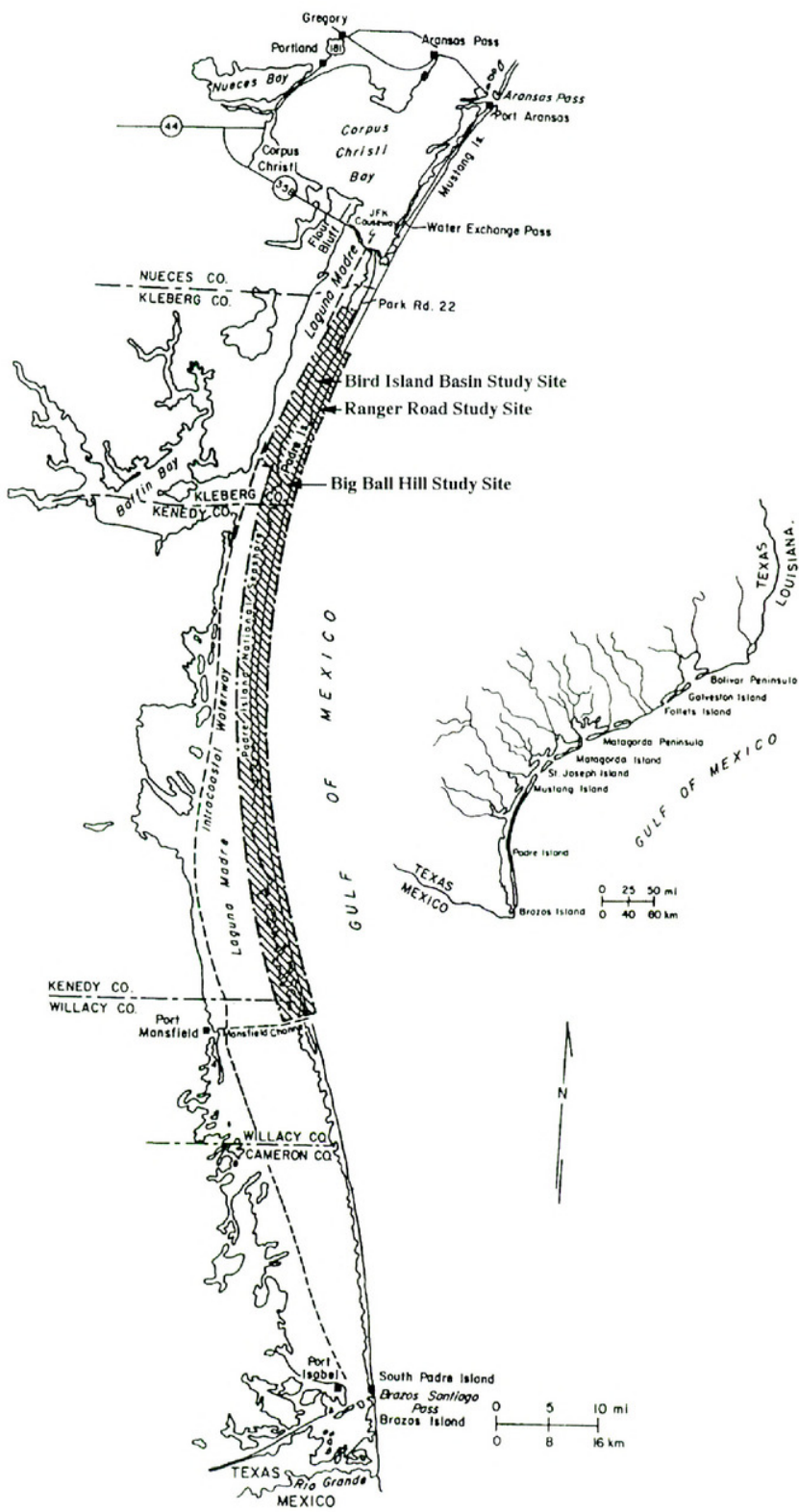


FIG. 1. Map (Weise & White 1980) indicating the location of the study sites. Hatched lines indicate the boundaries of Padre Island National Seashore. Inset shows location of Padre Island National Seashore in Texas.

mainland with the exception of *Flaveria brownii* and *Sporobolus tharpii*, which are reported as possible endemics on Padre Island and the Tamaulipan barrier islands of northern Mexico (Britton & Morton 1989). *Lycium carolinianum* var. *quadrifidum*, reported only along bayshores in Texas (Britton & Morton 1989), was found in the tidal flat community of PINS.

The lack of woody vegetation is a striking feature in regard to the PINS flora. Less than 10% of the species from PINS are considered subshrubs, shrubs, or trees. When one considers the populations of these species in comparison to the total vegetative community of the island, it is estimated that less than 1.0% of the vegetation is woody. Based on historical accounts prior to the early nineteenth century, it appears that woody forms of vegetation have always been scarce on the island (Brown et al. 1989). Britton and Morton (1989) point out that this is not typical of all barrier islands as those of the eastern Gulf and Atlantic shores often support oak- or pine- dominated woodlands. Arid climate is a likely factor in the lack of woody vegetation but is not the only factor as a number of northern Mexico barrier islands have dense stands of thorn-scrub woodland (Britton & Morton 1989). Northern Padre Island may have supported some scattered oak mottes that have declined through time (Britton & Morton 1989; Brown 1989) but is primarily a grassland ecosystem. Therefore, central and southern Texas barrier islands are unique in having a herb-dominated flora and PINS is an excellent example of this type of ecosystem. PINS also has the richest flora of the four barrier island ecosystems that have been studied in Texas (Nelson, unpublished data). A forthcoming investigation will use data from this checklist to elucidate a common flora for four South Texas barrier islands, examine community similarities among the islands, and discuss unique floral components for Matagorda Island, Mustang Island, northern Padre Island, and southern Padre Island (Nelson, unpublished data).

CHECKLIST OF THE VASCULAR FLORA OF PADRE ISLAND NATIONAL SEASHORE

Plants that are woody are listed as such; plants without this designation are herbaceous in habit. Habitat designations: coppice dunes (CD), foredunes (FD), barrier flat (BF), and tidal flat (TF) (Nelson et al. 1997, 1999).

ACANTHACEAE

Ruellia corzoi Tharp & Barkl., PINS, Lee 2532.

AGAVACEAE

Yucca constricta Buckley, Beargrass, Spanish bayonet. PINS, Jones 756. Shrub. BF and FD.

Yucca treculeana Carr., Spanish dagger, Palma pita. NSA; Jones (1966), Rabalais (1975). Shrub. BF and FD.

AIZOACEAE

Mollugo verticillata L., Indian chick weed. PINS, Jones 499.

Sesuvium maritimum (Walt.) Britton, Sterns, & Poggenb., Sea purslane. NSA; Rechenthin and Passey (1967).

Sesuvium portulacastrum (L.) L., Cenicilla. TAIC, Nelson and Odvody N293. CD.

Sesuvium trianthemoides Correll, Sea purslane.

TAC, Nelson, Macke, and Wilburn N697. BF.

Sesuvium verrucosum Raf., Sea purslane. PINS, Jones 6400.

Trianthema portulacastrum L., Horse purslane. PINS, Jones 498.

ALISMATACEAE

Echinodorus heteroi (Spreng.) Fassett, Burhead. PINS, 1153.

AMARANTHACEAE

Amaranthus arenicola I. M. Johnst., Sandhills amaranth. PINS, 6662.

Amaranthus blitum L., NSA; Rabalais (1975).

Amaranthus greggii S. Watson, Pigweed, Amaranth. TAIC, Nelson N514. CD.

Amaranthus polygonoides L., Tropical amaranth. PINS, 500.

Blutaparon vermiculare (L.) Mears, Silver head. TAIC, Nelson and Hornsby N398. TF.

Celosia nitida Vahl, PINS, Whistler 2470.

Froelichia drummondii Moq., Snake cotton, Cottonweed. NSA; Jones (1966).

Froelichia floridana (Nutt.) Moq. var. *floridana*, Snake cotton, Cottonweed. PINS, 6689.

Tidestromia lanuginosa (Nutt.) Standl. var. *lanuginosa*, Espanta vaqueros. TAIC, Nelson N417. BF.

APIACEAE

Centella asiatica (L.) Urb., PINS, Jones 893.

Hydrocotyle bonariensis Commers. ex Lam., Sombrierillo. TAIC, Nelson and Perez-Johnson N318. FD and BF.

Hydrocotyle umbellata L., Ombligo de Venus. PINS, Jones 1390.

ASCLEPIDACEAE

Asclepias emoryi (Greene) Vail, Milkweed, Silkweed. NSA; Jones (1966).

Asclepias oenotheroides Cham. & Schltdl., Hierba de zizotes. TAIC, Nelson N328. FD.

Asclepias viridiflora Raf., Milkweed, Silkweed. NSA; Rechenhth and Passey (1967).

Cynanchum angustifolium Pers., PINS, 924.

ASTERACEAE

Ambrosia artemisiifolia L., Short ragweed, Altamisa. NSA; Baccus and Horton

(1979), Higginbotham (1972), Rabalais (1975).

Ambrosia psilostachya DC., Western ragweed. TAIC, Nelson and McKeller N352. FD, BF, and TF.

Amphiachyris dracunculoides (DC.) Nutt., Broomweed, Snakeweed. NSA, Rabalais (1975).

Aphanostephus skirrbobasis (DC.) Trel. var. *thalassius* Shinnars, Lazy daisy. TAIC, Nelson and Guerra N375. BF.

Baccharis neglecta Britton, Roosevelt weed, New Deal weed, Jara dulce. PINS, M. I. 7227. Shrub.

Baccharis salicina Torr. & A. Gray, Seep willow, Jara, Water-wally. NSA; Rechenhth and Passey (1967). Shrub.

Borrchia frutescens (L.) DC., Sea ox-eye daisy. TAIC, Nelson and Goodridge N365. Subshrub to shrub. BF and TF.

Centaurea americana Nutt., Basketflower, Thornless thistle, Cardo del valle. NSA; Rechenhth and Passey (1967).

Chrysopsis pilosa Nutt., Golden aster, Camphor weed. C.C. Museum, Jones 6265.

Cirsium horridulum Michx. var. *elliottii* Torr. & A. Gray, Bull thistle, Yellow thistle. TAC, Nelson, Macke, and Wilburn N717. BF.

Cirsium texanum Buckley, Thistle, Plumed thistle. NSA; Rabalais (1975).

Conoclinium betonicifolium (Mill.) King & Rob., TAIC, Nelson and Martinez N383. FD, BF, and TF.

Conyza canadensis (L.) Cronquist, Horseweed. PINS, 7925.

Conyza ramosissima Cronquist, NSA; McAtee (1975).

Coreopsis tinctoria Nutt., Coreopsis, Tickseed. TAC, Nelson, Macke, and Wilburn N655. TF.

Croptilon divaricatum (Nutt.) Raf., Scratch-daisy. TAIC, CSP 44.

Croptilon rigidifolium (E. B. Sm.) E. B. Sm., Scratch-daisy. TAC, Nelson, Macke, and Wilburn N636. FD.

Dyssodia pentachaeta (DC.) Robins. var. *pentachaeta*, Parralena. TAC, Nelson, Macke, and Wilburn N648. BF.

Dyssodia tenuiloba (DC.) Robins., Dogweed, Fetid marigold. TAIC, Perkins 4.
Eclipta prostrata (L.) L., C.C. Museum, Jones 6913.
Erigeron procumbens (Houst. ex Mill.) Nesom, Fleabane. TAIC, Nelson N624. BF and FD.
Eupatorium compositifolium Walter, Yankee weed. PINS, Jones 5871.
Euthamia leptcephala (Torr. & A. Gray) Greene, PINS, 6264.
Evax verna Raf., Rabbit-tobacco, Cotton-rose. PINS, Jones and Baker 6407.
Flaveria brownii Powell, Longleaf flaveria. TAIC, Nelson N495. Endemic. BF.
Gaillardia pulchella Foug., Indian blanket, Firewheel. TAIC, Nelson and Soto N361. FD, BF, and TF.
Gamochaeta falcata (Lam.) Cabrera, Cudweed, Everlasting. PINS, Jones and Baker 6409.
Gamochaeta pensilvanica (Willd.) Cabrera, Cudweed, Everlasting. NSA; Jones (1966).
Helenium amarum (Raf.) H. Rock var. *amarum*, C.C. Museum, Jones 7927.
Helianthus annuus L., Common sunflower, Mirasol. PINS, 548.
Helianthus argophyllus Torr. & A. Gray, Silverleaf sunflower. PINS, 2516.
Helianthus debilis Nutt. subsp. *cucumerifolius* (Torr. & A. Gray) Heiser, Cucumberleaf sunflower. TAC, Nelson, Macke, and Wilburn N684. TF.
Helianthus praecox Engelm. & A. Gray subsp. *runyonii* (Heiser) Heiser, Sunflower PINS, 2364.
Heterotheca subaxillaris (Lam.) Britton & Rusby, Camphorweed. TAIC, Nelson and Resendez N307. CD and FD.
Iva annua L., Sumpweed, Marsh-elder, Pelocote. NSA; Rechenthin and Passey (1967).
Iva imbricata Walter, Sumpweed, Marsh elder. NSA; Jones (1966), Rabalais (1975).
Iva texensis R. R. Johnson, Sump-weed, Marsh-elder. TAIC, Nelson N483. BF and TF.
Krigia occidentalis Nutt., Dwarf dandelion. NSA; Jones (1966), Rabalais (1975).

Liatris elegans (Walter) Michx. var. *elegans*, Gay-feather, Button-snakeroot, Blazing star. PINS, 1180.
Machaeranthera phyllocephala (DC.) Shinnars, Camphor daisy. TAIC, Nelson N420. BF and TF.
Palafoxia hookeriana Torr. & A. Gray, PINS, 1383.
Palafoxia rosea (Bush) Cory var. *rosea*, NSA; Jones (1966).
Palafoxia texana DC. var. *ambigua* (Shinnars) B.L. Turner & M. I. Morris, C.C. Museum, Jones 6776.
Pluchea purpurascens (Sw.) DC., Canela. PINS, 2424.
Ratibida peduncularis (Torr. & A. Gray) Barnh. var. *peduncularis*, Mexican hat. PINS, 530.
Rudbeckia hirta L. var. *angustifolia* (Moore) Perdue, Brown-eyed Susan, Cone flower. NSA; Jones (1966), Rabalais (1975).
Senecio riddellii Torr. & A. Gray, Groundsel, Ragwort, Squaw-weed. TAIC, Nelson N502. FD.
Solidago odora Aiton var. *odorata*, Sweet goldenrod. PINS, 1248.
Solidago sempervirens L., Seaside goldenrod. PINS, Jones 1256.
Sonchus asper (L.) Hill, Achicoria dulce. NSA; Jones (1966).
Sonchus oleraceus L., Sow thistle. TAC, Nelson, Macke, and Wilburn N653. BF.
Symphytotrichum divaricatum (Nutt.) Nesom, Hierba del marrano. PINS, Lee 2471.
Tetragonotheca repanda (Buckley) Small, Nerve-ray. NSA; Rabalais (1975).
Thelesperma filifolium (Hook.) A. Gray, Green-thread. PINS, Whistler and Norfleet 1864.
Thelesperma nuecense B. L. Turner, Green-thread. PINS, Jones 1348.
Verbesina encelioides (Cav.) Benth. & Hook. ex A. Gray, Cowpen daisy. C.C. Museum, Jones 7585.
Xanthium strumarium L., Abrojo. NSA; Jones (1966), Rabalais (1975).

AVICENNIACEAE

Avicennia germinans (L.) L., Black-mangrove, Mangle blanco. PINS, 6668. Shrub.

BATACEAE

Batis maritima L., Vidrillos. TAIC, *Nelson and Hornsby* N393. Subshrub. TF.

BORAGINACEAE

Heliotropium convolvulaceum (Nutt.) A. Gray, NSA; Rechenthin and Passey (1967).
Heliotropium curassavicum L. var. *curassavicum*, Seaside heliotrope, Cola del mico. TAC, *Nelson, Macke, and Wilburn* N681. TF.
Heliotropium racemosum Rose & Standl., Turnsole, Heliotrope. PINS, 5958.

BRASSICACEAE

Cakile geniculata (Robins.) Millsp., Sea rocket. TAIC, *Taylor* 398.
Cakile lanceolata (Willd.) Schulz subsp. *pseudoconstricta* Rodman, TAC, *Nelson, Macke, and Wilburn* N635. TF.
Lepidium lasiocarpum T. Nutt. ex Torr. & A. Gray var. *wrightii* (A. Gray) C.L. Hitchc., Pepperwort, Peppergrass. PINS, *Jones* 1378.
Lepidium virginicum L., Lentejilla. TAC, *Nelson, Macke, and Wilburn* N652. BF.
Rorippa nasturtium-aquaticum (L.) Hayek, Water-cress. NSA; Baccus and Horton (1979).

BUDDLEJACEAE

Polypremum procumbens L., C.C. Museum, *Jones* 7568.

CACTACEAE

Opuntia engelmannii Salm-Dyck var. *lindheimeri* (Engelm.) B.D. Parfitt & Pinkava, Prickly pear, Cholla. NSA; *Jones* (1966), Rabalais (1975), Rechenthin and Passey (1967). Shrub.
Opuntia humifusa (Raf.) Raf. var. *humifusa*, Eastern prickly pear. NSA; *Jones* (1966), Rabalais (1975). Shrub.
Opuntia macrorhiza Engelm. var. *macrorhiza*, Plains prickly pear. TAIC, *Nelson and McKeller* N355. Shrub. BF.
Opuntia stricta (Haw.) Haw., Prickly pear, Cholla. NSA; Rabalais (1975). Shrub.

CAMPANULACEAE

Triodanis perfoliata (L.) Nieuwl., Venus looking glass. NSA; *Jones* (1966), Rabalais (1975).

CAPPARIDACEAE

Polanisia erosa (Nutt.) H.H. Iltis subsp. *breviglandulosa* H.H. Iltis, Clammy weed. NSA; *Jones* (1966).

CARYOPHYLLACEAE

Silene antirrhina L., Sleepy catchfly. NSA; Rabalais (1975).
Spergularia echinosperma (Celak.) Asch. & Graebn., Sand-spurrey. TAC, *Nelson, Macke, and Wilburn* N658. TF.
Spergularia marina (L.) Griseb., Salt-marsh sand-spurrey. C.C. Museum, *Jones* 6297.

CHENOPODIACEAE

Atriplex matamorenensis A. Nels., Quelite cenizo. NSA; Rabalais (1975).
Atriplex pentandra (Jacq.) Standl., Saltbush. NSA; Rabalais (1975).
Atriplex texana S. Watson, Saltbush. NSA; Rabalais (1975).
Chenopodium album L., Lamb's-quarters, Pigweed. NSA; Rechenthin and Passey (1967).
Chenopodium ambrosioides L. var. *ambrosioides*, Mexican tea, Wormseed, Epazote. PINS, 513.
Chenopodium berlandieri Moq., Pitseed goosefoot. C.C. Museum, *Jones* 6298.
Salicornia bigelovii Torr., Glasswort, Saladilla. TAIC, *Nelson and McKeller* N353. TF.
Salicornia virginica L., Glasswort, Saladilla. TAIC, *Nelson and French* N367. TF.
Suaeda conferta (Small) I. M. Johnst., Sea blite, Seepweed. NSA; Rabalais, 1975.
Suaeda linearis (Ell.) Moq., Sea blite, Seepweed. PINS, 7139.
Suaeda tampicensis (Standl.) Standl., Sea blite, Seepweed. NSA; Rabalais (1975).

CISTACEAE

Helianthemum georgianum Chapm., Rock-rose, Frostweed. PINS, 518.
Lechea mucronata Raf., Pin-weed. PINS, 6628.

CLUSIACEAE

Hypericum gentianoides (L.) Britton, Stems, & Poggenb., Orange grass, Pineweed. PINS, *Lee* 2430.
Hypericum hypericoides (L.) Crantz subsp.

hypericoides, St. Andrew's cross. PINS, Jones 721.

Hypericum pauciflorum Kunth, St. John's wort. PINS, O'Brien 2540.

COMMELINACEAE

Commelina erecta L. var. *angustifolia* (Michx.) Fern., Widow's-tears, day-flower. PINS, 521.

Commelina erecta L. var. *erecta*, Hierba del pollo. TAIC, Nelson and Hornsby N303. FD and BF.

Tradescantia humilis Rose, Spiderwort, spiderlily. PINS, 520.

CONVOLVULACEAE

Ipomoea cordatotriloba Dennst., Morning glory. PINS, Lee 2474.

Ipomoea imperati (Vahl) Griseb., Beach morning glory. TAIC, Nelson and Goodridge N289. CD and FD.

Ipomoea pes-caprae (L.) R. Brown subsp. *brasiliensis* (L.) v. Ooststr., Railroad vine, Goatfoot morning glory. NSA; Carls et al. (1991), Drawe et al. (1981), Jones (1966), Kattner (1973), McAtee (1975), McAtee and Drawe (1980), Rabalais (1975).

Ipomoea sagittata Poir., Morning glory. PINS, Lee 2391.

CUCURBITACEAE

Citrullus lanatus (Thunb.) Matsum. & Nakai var. *citroides* (L.H. Bailey) Mansf., Watermelon sandia. PINS, Jones 1382.

Cucumis melo L. var. *melo*, Muskmelon. NSA; Jones (1966), Rabalais (1975).

Cucurbita foetidissima Kunth, Buffalo-gourd, Calabacilla loca. NSA; Rechenthin and Passey (1967).

Ibervillea lindheimeri (A. Gray) Greene, Globe-berry. NSA; Jones (1966).

Melothria pendula L. var. *pendula*, Meloncito. C.C. Museum, Jones 7146.

CUSCUTACEAE

Cuscuta indecora Choisy, Pretty dodder. PINS, Jones 885.

Cuscuta pentagona Engelm., Dodder, Love-vine. NSA; Rabalais (1975).

CYMODOCEACEAE

Cymodocea filiformis (Kutz.) Correll, Manatee-grass. NSA; Rabalais (1975).

Halodule beaudettei (den Hartog) den Hartog, PINS, Pratt 2352.

CYPERACEAE

Cyperus croceus Vahl, Flatsedge. NSA; Jones (1966), Rabalais (1975).

Cyperus echinatus (L.) A.W. Wood, Flatsedge. NSA; Jones (1966), Rabalais (1975).

Cyperus esculentus L., Yellow nut-grass. TAIC, Nelson N494. TF.

Cyperus haspan L., Flatsedge. PINS, Jones 1381.

Cyperus polystachyos Rottb., Flatsedge. PINS, Whistler and Lee 2415.

Cyperus pseudothyrsiflorus (Kükenth.) R. Carter & S.D. Jones, Flatsedge. NSA; Jones (1966).

Cyperus retroflexus Buckley var. *retroflexus*, C.C. Museum, Jones, 6695.

Cyperus retrorsus Chapm., Flatsedge. TAIC, Nelson N627. FD and BF.

Cyperus rotundus L., Nut-grass, Tulillo. NSA; Carls et al. (1987), Carls et al. (1991).

Cyperus squarrosus L. var. *squarrosus*, Flatsedge. NSA; Jones (1966), Rabalais (1975), Rechenthin and Passey (1967).

Cyperus surinamensis Rottb., Flatsedge. TAC, Nelson, Macke, and Wilburn N641. FD and BF.

Eleocharis albida Torr., Spikerush. PINS, Jones 922.

Eleocharis atropurpurea (Retz.) J. & C. Presl, Spikerush. PINS, Jones 7416.

Eleocharis cellulosa Torr., Spikerush. NSA; Rabalais (1975).

Eleocharis flavescens (Poir.) Urb. var. *flavescens*, Spikerush. TAC, Nelson, Macke, and Wilburn N645. BF.

Eleocharis geniculata (L.) J. J. Roem. & Schult., Spikerush. TAC, Nelson, Macke, and Wilburn N638. BF.

Eleocharis interstincta (Vahl) Roem. & Schult., Spikerush. PINS, Lee 2475.

Eleocharis minima Kunth var. *minima*, Spikerush. C.C. Museum, Jones 7417.

Eleocharis montevidensis K. Kunth, Spikerush. TAIC, Nelson, N348.

Eleocharis parvula (Roem. & Schult.) Link ex Bluff, Nees & Schauer var. *anachaeta* (Torr.) Svenson, Spikerush. PINS, Jones 923.

Fimbristylis caroliniana (Lam.) Fern., TAIC, Nelson N418. BF.

Fimbristylis castanea (Michx.) Vahl, TAIC, Nelson N419. BE.

Fuirena scirpoidea Michx., C.C. Museum, Fall 76D457.

Fuirena simplex Vahl, Umbrella-grass. PINS, O'Brien 2512.

Lipocarpus micrantha (Vahl.) G.C. Tucker, PINS, Jones 891.

Rhynchospora colorata (L.) H. Pfeiff., White-topped umbrella grass. TAC, Nelson, Macke, and Wilburn N696. BE.

Schoenoplectus erectus (Poir.) Palla ex J. Raynal, Bullrush. PINS, Jones 6834.

Schoenoplectus pungens (Vahl) Palla var. *longispicatus* (Britton) S.G. Sm., Sword-grass, Three-squared-bullrush. TAC, Nelson, Macke, and Wilburn N654. BE.

Schoenoplectus saximontanus (Fern.) J. Raynal, Bullrush. NSA; Jones (1966); Rechenthin and Passey (1967).

DROSERACEAE

Drosera brevifolia Pursh, Sundew. PINS, Jones 6828.

ELATINACEAE

Elatine triandra Schkuhr., Waterwort. C.C. Museum, Jones 6833.

EUPHORBIACEAE

Acalypha radians Torr., Three-seeded mercury. PINS, Jones 6560.

Cnidoscolus texanus (Müll. Arg.) Small, Bull nettle, Mala mujer. C.C. Museum, Jones 7559.

Croton argyranthemus Michx., C.C. Museum, Jones 6541.

Croton capitatus Michx. var. *lindheimeri* (Engelm. & A. Gray) Müll. Arg., Woolly croton, Hogwort. TAIC, Nelson, N425. BE.

Croton coryi Croizat, PINS, Jones 959.

Croton glandulosus L. var. *lindheimeri* Müll. Arg., TAIC, McAtee.

Croton glandulosus L. var. *pubentissimus* Croizat, PINS, Lee 2414.

Croton glandulosus L. var. *septentrionalis* Müll. Arg., PINS, Lee 2388.

Croton monanthogynus Croton. Michx., PINS, Fall 1258.

Croton parksi Croizat, Croton. C.C. Museum, Jones 6670.

Croton punctatus Jacq., Hierba del jabali, Beach-tea. TAIC; Nelson and Guerra, N285. Subshrub. CD and FD.

Euphorbia bombensis Jacq., Spurge. PINS, Baker 1132.

Euphorbia cordifolia Elliott, Spurge. PINS, Whistler 2527.

Euphorbia corollata L., Spurge. NSA; Carls et al. (1987).

Euphorbia innocua Wheeler, Spurge. NSA; Jones (1966), Rabalais (1975).

Euphorbia maculata L., Spurge. PINS, Jones 1287.

Euphorbia serpens Kunth, Hierba de la golondrina. C.C. Museum, Jones 7687.

Phyllanthus abnormis Baill. var. *abnormis*, Leaf-flower. PINS, Fall 1250.

Phyllanthus polygonoides Nutt. ex Spreng., Leaf-flower. PINS, Jones and Baker 604.

Phyllanthus pudens Wheeler, Leaf-flower. NSA; Rabalais (1975).

Stillingia sylvatica Garden ex L. subsp. *sylvatica*, Queen's delight. PINS, Jones 617.

FABACEAE

Acacia minata (M. E. Jones) Beauch. subsp. *minata*, Huisache. NSA; Jones (1966), Rabalais (1975), Rechenthin and Passey (1967). Shrub or tree.

Aeschynomene viscidula Michx., Sticky jointvetch. PINS, Jones 745.

Astragalus brazoensis Buckley, Milk-vetch, Loco weed. PINS, Jones 6795.

Astragalus leptocarpus Torr. & A. Gray, Milk-vetch, Loco weed. PINS, Jones 7620.

Baptisia bracteata Nutt. var. *leucophaea* (Nutt.) Kartesz & Gandhi, Plains wild indigo. NSA; Rabalais (1975).

Baptisia bracteata Muhl. ex Elliott var. *laevicaulis* (A. Gray ex Canby) Isley, Plains wild indigo. TAIC, Nelson and Negrete N402. BE.

Canavalia rosea (Sw.) DC., Jackbean. Swordbean. PINS, Jones 919.

Centrosema virginianum (L.) Benth., Butterfly pea. PINS, Jones 747.

Chamaecrista fasciculata (Michx.) Greene, Partridge pea. TAIC, Nelson N489. FD and BE.

Clitoria mariana L. PINS, Lee 2400.

- Crotalaria sagittalis* L., Rattlepod. PINS, Jones 4092.
- Dalea emarginata* (Torr. & A. Gray) Shinnery, PINS, Nelson, Macke, and Wilburn N713. BF.
- Dalea lanata* Spreng., Woolly dalea. PINS, Jones and Baker 6562.
- Dalea obovata* (Torr. & A. Gray) Shinnery, Pussyfoot. PINS, Jones 738.
- Dalea pogonathera* A. Gray, Hierba del corazon, Bearded dalea. NSA; Carls et al. (1987).
- Desmanthus virgatus* (L.) Willd. var. *depressus* (Humb. & Bonpl. ex Willd.) B.L. Turner, PINS, Jones 850.
- Erythrina herbacea* L., Coral bean, Colorín. PINS, 734.
- Galactia canescens* Benth., Hoary milkpea. PINS, Lee 2420.
- Galactia marginalis* Benth., PINS, Whistler 2524.
- Glottidium vesicaria* (Jacq.) R.M. Harper, C.C. Museum, Jones 7748.
- Indigofera miniata* Ortega var. *leptosepala* (Nutt. ex Torr. & A. Gray) B.L. Turner, Scarlet pea. NSA; Drawe et al. (1981), Higginbotham (1972), Jones (1966).
- Indigofera miniata* Ortega var. *miniata*, Scarlet pea. TAIC, Nelson and Hornsby N301. FD and BF.
- Indigofera suffruticosa* Mill., C.C. Museum, Jones 6673. Shrub.
- Leucaena leucocephala* (Lam.) de Wit, C.C. Museum, Jones 7924. Shrub or tree.
- Medicago polymorpha* L., Bur-clover. PINS, Jones 751.
- Melilotus albus* Medik., White sweet clover, Huban. PINS, Whistler and Lee 248.
- Melilotus indicus* (L.) C. All., Sour clover, Alfalfa. TAC, Nelson, Macke, and Wilburn N692. BF.
- Mimosa latidens* (Small) B.L. Turner, Sensitive brier. PINS, Whistler 1837.
- Mimosa strigillosa* Torr. & A. Gray, Powderpuff, Vergonzosa. NSA; Jones (1966), Rabalais (1975).
- Neptunia lutea* (Leavenw.) Benth., Yellow-puff. NSA; Rechenbach and Passey (1967).
- Neptunia pubescens* Benth. var. *pubescens*, PINS, Jones and Baker 741.
- Parkinsonia aculeata* L., Retama. C.C. Museum, 79D096. Tree.
- Pediomelum rhombifolium* (Torr. & A. Gray) Rydb., C.C. Museum, 3563.
- Prosopis glandulosa* Torr. var. *glandulosa*, Honey mesquite. PINS, Jones 912. Shrub or tree.
- Rhynchosia americana* (Houst. ex Mill.) Metz, Snoutbean. TAIC, Nelson and Goodridge N321. FD and BF.
- Rhynchosia minima* (L.) DC., Snoutbean. TAIC, Nelson and Perez-Johnson N306. FD and BF.
- Rhynchosia reniformis* (Pursh) DC., Dollar-leaf. NSA; Rechenbach and Passey (1967).
- Rhynchosia senna* Gillies ex Hook. var. *texana*, Snoutbean. TAC, Nelson, Macke, and Wilburn N704. BF.
- Sesbania drummondii* (Rydb.) Cory, Rattlebush, Poison bean, Coffee bean. PINS, Jones 914. Shrub.
- Sesbania exaltata* (Raf.) Rydb. ex A. Hill, Bequilla. PINS, Tharp 233. Subshrub.
- Sophora tomentosa* L. var. *occidentalis* (L.) Isely, Yellow sophora. PINS, Tharp 40. Shrub.
- Strophostyles helvula* (L.) Elliot, Amberique bean. PINS, Pratt 2358.
- Strophostyles leiosperma* (Torr. & A. Gray) Piper, Sleek-seed bean. PINS, Jones 913.
- Stylosanthes viscosa* Sw., Pencil-flower. PINS, Lee 2383.
- Vigna luteola* (Jacq.) Benth., PINS, Jones 750.
- Zornia bracteata* J. F. Gmel., Viperina. PINS, Whistler and Lee 2401.

FAGACEAE

- Quercus minima* (Sarg.) Small., C.C. Museum, Jones 7922. Shrub.
- Quercus virginiana* Mill. var. *fusiformis* (Small) Sarg., Oak. TAIC, Nelson N562. Shrub or tree. BF.
- Quercus virginiana* Mill. var. *virginiana*, Live oak, encino. PINS, Jones 931. Tree.

FUMARIACEAE

- Corydalis micrantha* (Engelm. ex A. Gray) A. Gray subsp. *texensis* G. Ownbey, Scrambled eggs. NSA; Jones (1966), Rabalais (1975).

GENTIANACEAE

- Eustoma exaltatum* (L.) Salisb. ex G. Don,
Catchfly-gentian. PINS, Jones 883.
Sabatia arenicola Greenm., Rose-gentian.
TAIC, Nelson N625. FD and BF.
Sabatia campestris Nutt., Rose-gentian.
TAIC, Nelson N569. TF.

GOODENIACEAE

- Scaevola plumieri* (L.) Vahl, PINS, Tanner
1834. Subshrub.

HYDROCHARITACEAE

- Halophila engelmannii* Asch., PINS, Lee 2448.
Thalassia testudinum Banks & Soland. ex
König, Palmas del mar, Turtle-grass.
NSA; Rabalais (1975).

HYDROPHYLLACEAE

- Nama bispidum* A. Gray, NSA; Jones (1966),
Rabalais (1975).
Phacelia patuliflora (Engelm. & A. Gray)
A. Gray, NSA; Rabalais (1975).

IRIDACEAE

- Sisyrinchium biforme* E.P. Bicknell, Blue-
eyed grass. TAIC, Nelson and Martinez
N386. BF.
Sisyrinchium sagittiferum E. P. Bicknell, Blue-
eyed grass. PINS, Jones 724.

JUNCACEAE

- Juncus acuminatus* Michx., Rush, Bog-rush.
PINS, Jones 818.
Juncus brachycarpus Engelm., Rush, Bog-
rush. NSA; Jones (1966).
Juncus bufonius L. var. *bufonius*, Toad-rush.
C.C. Museum, Jones 1829.
Juncus marginatus Rostk., Rush, Bog-rush.
PINS, TAC, Nelson, Macke, and Wilburn
N664. TF.
Juncus megacephalus M. A. Curtis, Rush, Bog-
rush. TAC, Nelson, Macke, and Wilburn
N699. BF.
Juncus roemerianus Scheele, PINS, Whistler
2484.
Juncus scirpoides Lam., Neddlepod rush.
TAIC, Nelson N513. BF.
Juncus validus Coville var. *fasciatus* M.C.
Johnst., Rush, Bog-rush. PINS, Jones
6864.

LAMIACEAE

- Monarda punctata* L. var. *lasiodonta* A. Gray,

Spotted beebalm, Horsemint. C.C. Mu-
seum, Jones 7699.

Scutellaria drummondii Benth., Skullcap.
NSA; Jones (1966), Rabalais (1975).

Scutellaria muriculata Epl., Skullcap. PINS,
Jones 6566.

Teucrium cubense Jacq. var. *cubense*, Germander.
NSA; Rechenhain and Passey (1967).

LAURACEAE

Persea borbonia (L.) K. Spreng., Red bay.
PINS, Jones 905. Shrub or tree.

LENTIBULARIACEAE

Utricularia subulata L., Bladderwort. C.C.
Museum, Jones 6827.

LILIACEAE

Cooperia drummondii Herb., Cebolleta. NSA;
Rabalais (1975).

Nothoscordum bivalve (L.) Britton, Crow-
poison. NSA; Jones (1966).

LINACEAE

Linum alatum (Small) H.K.A. Winkl., Flax.
NSA; Drawe et al. (1981), Jones (1966),
Rabalais (1975).

Linum aristatum Engelm., Flax. NSA;
Rabalais (1975).

Linum imbricatum (Raf.) Shinnars, Tufted
flax. NSA; Rabalais (1975).

LOASACEAE

Mentzelia oligosperma Nutt. ex Sims, Stick-
leaf, Chicken thief, Pegajosa. NSA; Jones
(1966), Rabalais (1975).

LYTHRACEAE

Ammannia latifolia L., C.C. Museum, Jones
3377.

Lythrum alatum Pursh var. *lanceolataum*
(Elliott) Torr. & A. Gray ex Rothr.,
Loosestrife. TAIC, Nelson N424. TF.

Lythrum californicum Torr. & A. Gray, Hierba
del cancer. PINS, Whistler 2469.

Rotala ramosior (L.) Koehne, Tooth-cup.
PINS, Jones 6831.

MALVACEAE

Kosteletzkya virginica (L.) K. Presl ex A. Gray,
Salt marsh-mallow. C.C. Museum, Jones
6912.

Malvastrum americanum (L.) Torr., Malva
loca. PINS, Jones 916.

Malvastrum coromandelianum (L.) Garcke,
PINS, Jones 917.

Sida ciliaris L., Bracted sida. Whistler and
Lee 2417.

Sida cordifolia L., NSA; Rabalais (1975).

Sida lindheimeri Engelm. & A. Gray, PINS,
Jones 868.

Sphaeralcea lindheimeri A. Gray, False mallow,
Globe mallow. PINS, Baker 763.

MYRICACEAE

Morella cerifera (L.) Small, Wax-myrtle,
Candle-berry. PINS, Jones 764. Shrub.

NAJADACEAE

Najas guadalupensis (Spreng.) Magnus,
Common water-nymph. PINS, Hamby
and Jones 1152.

NYCTAGINACEAE

Boerhavia coccinea Mill., Scarlet spiderling.
NSA; Rabalais (1975).

Mirabilis albida (Walter) Heimerl., White
four-o'clock. PINS, Jones 6777.

ONAGRACEAE

Calylophus berlandieri Spach subsp. *pinifolius*
(Engelm. ex A. Gray) Towner, NSA; Jones
(1966).

Calylophus serrulatus (Nutt.) P.H. Raven,
Yellow evening primrose. TAIC, Nelson
and Perez-Johnson N343. TF.

Gaura longiflora Spach, NSA; Jones (1966),
Rabalais (1975).

Gaura parviflora Douglas ex Lehm., Lizard-
tail, Velvet-leaf gaura. NSA; Jones (1966),
Rabalais (1975).

Ludwigia glandulosa Walter, Cylindric-fruited
ludwigia. NSA; Jones (1966), Rabalais
(1975).

Oenothera drummondii Hook. subsp. *drum-*
mondii, Beach evening primrose. TAIC,
Nelson and Perez-Johnson N287. CD and
FD.

Oenothera grandis (Britton) Smyth, Evening
primrose. NSA; Jones (1966), Rabalais
(1975).

Oenothera laciniata Hill, Cut-leaved evening
primrose. TAIC; Nelson N566. BF and
TF.

Oenothera speciosa Nutt., PINS, Hamby 1195.

ORCHIDACEAE

Spiranthes vernalis Engelm. & A. Gray, Spring
ladies' tresses. TAIC, Nelson and Soto
N329. FD and BF.

OROBANCHACEAE

Orobanche ludoviciana Nutt. subsp. *multiflora*
(Nutt.) Collins, Broomrape. C.C. Mu-
seum, Jones 2040.

OXALIDACEAE

Oxalis dillenii Jacq. subsp. *dillenii*, Wood-
sorrel, lady's sorrel. NSA; Jones (1966),
Rabalais (1975).

Oxalis drummondii A. Gray, Wood-sorrel,
lady's sorrel. NSA; Rabalais (1975).

PAPAVERACEAE

Argemone albiflora Hornem. subsp. *texana*
G.B. Ownbey, White prickly poppy.
NSA; Higginbotham (1972).

Argemone sanguinea Greene, Red poppy.
NSA; Jones (1966), Rabalais (1975).

PHYTOLACCACEAE

Phytolacca americana L. var. *americana*,
Pokeweed, pokeberry. C.C. Museum,
Jones 7657.

PLANTAGINACEAE

Plantago heterophylla Nutt., Plantain. PINS,
Jones 6807.

Plantago hookeriana Fisch. & C.A. Mey.,
Tallow weed. TAC, Nelson, Macke, and
Wilburn N678. TF.

Plantago virginica L., Pale-seeded plantain.
TAIC, Nelson N565. TF.

PLUMBAGINACEAE

Limonium carolinianum (Walter) Britton,
Sea-lavender, Marsh-rosemary. TAIC,
Nelson N518. TF.

POACEAE

Andropogon gerardii Vitman, Big bluestem.
PINS, Whistler 2479.

Andropogon glomeratus (Walter) Britton,
Sterns, & Poggenb., Bushy beardgrass.
TAIC, Nelson and Resendez N381. TF.

Andropogon ternarius Michaux var. *ternarius*,
Splitbeard bluestem. PINS, Jones 1312.

Andropogon virginicus L., Broomsedge. PINS,
Jones 903.

- Aristida longespica* Poir. var. *geniculata* (Raf.) Fern., Three-awn grass. TAIC, *Nelson* N499. TF.
- Aristida oligantha* Michx., Prairie three-awn. NSA; Rechenthin and Passey (1967).
- Aristida purpurea* Nutt. var. *purpurea*, Purple three-awn. NSA; Rechenthin and Passey (1967).
- Arundo donax* L., Giant reed, Carrizo, Georgia cane. TAC, *Nelson, Macke, and Wilburn* N632. BF.
- Avena fatua* L., Oats. NSA; Jones (1966), Rabalais (1975).
- Bothriochloa barbinodis* (Lag.) Herter var. *barbinodis*, Beardgrass. TAIC, *Guerra* 00606.
- Bothriochloa ischaemum* L. var. *songarica* (Fisch. and C.A. Mey.) Celarier & Harlan, PINS, *Whistler* 2462.
- Bothriochloa laguroides* (DC.) Herter subsp. *torreyana* (Steud.) Hack., Silver beardgrass, Silver bluestem. PINS, *Jones* 7684.
- Bromus catharticus* Vahl, Rescue grass. NSA; Jones (1966), Rabalais (1975).
- Cenchrus echinatus* L., Cadillo. TAC, *Nelson, Macke, and Wilburn* N706. FD and BF.
- Cenchrus spinifex* Cav., Grassbur, Coast sandbur. TAIC, *Nelson and Odvody* N315. FD and BF.
- Chloris andropogonoides* Fourn., Fingergrass. PINS, *Jones* 6732.
- Chloris canterai* Arech. var. *canterai*, Fingergrass. NSA; Jones (1966), Rabalais (1975).
- Chloris cucullata* Bisch., Hooded fingergrass, Hooded windmill grass. NSA; Jones (1966), Rabalais (1975), Rechenthin and Passey (1967).
- Chloris gayana* Kunth, Rhodes grass. PINS, *Jones* 7147.
- Chloris verticillata* Nutt., Windmill fingergrass, Tumble windmill grass. NSA; Rechenthin and Passey (1967).
- Cynodon dactylon* (L.) Pers. var. *dactylon*, Bermudagrass, Pata de gallo. PINS, *Fall* 1242.
- Dactyloctenium aegyptium* (L.) Beauv., Crow-foot. NSA; Jones (1966), Rabalais (1975).
- Dichanthium annulatum* (Forssk.) Stapf var. *annulatum*, PINS, *Whistler* 2480.
- Dichanthium aristatum* (Poir.) C.E. Hubb., C.C. Museum, *Jones* 6733.
- Digitaria arenicola* (Swall.) A. Beetle, Crabgrass. TAC, *Nelson, Macke, and Wilburn* N713. FD.
- Digitaria bicornis* (Lam.) Roem. & Schult., C.C. Museum, *Jones* 7902.
- Digitaria cognata* (Schult.) Pilg., Crabgrass. PINS, *Fall* 1253.
- Digitaria sanguinalis* (L.) Scop., Northern crabgrass. NSA; Rechenthin and Passey (1967).
- Digitaria texana* Hitchc., Crabgrass. PINS, *Fall* 1267.
- Distichlis spicata* (L.) Greene, Saltgrass. PINS, *Whistler* 2478.
- Echinochloa crus-galli* (L.) Beauv. var. *crus-galli*, Barnyard grass. NSA; Rechenthin and Passey (1967).
- Echinochloa crus-pavonis* (Kunth) Schult., NSA; Rechenthin and Passey (1967).
- Echinochloa walteri* (Pursh.) A. Heller, NSA; Rechenthin and Passey (1967).
- Eragrostis barrelieri* Daveau, Lovegrass. C.C. Museum, *Jones* 7582.
- Eragrostis capillaris* (L.) Nees., Lacegrass. NSA; Rabalais (1975).
- Eragrostis curtispedicellata* Buckley, Gummy lovegrass. NSA; Rechenthin and Passey (1967).
- Eragrostis intermedia* Hitchc. var. *intermedia*, Lovegrass. NSA; Rechenthin and Passey (1967).
- Eragrostis lugens* Nees., Lovegrass. TAIC, *Estrello*.
- Eragrostis pectinacea* (Michx.) Nees., Lovegrass. NSA; Rechenthin and Passey (1967).
- Eragrostis secundiflora* J. Presl subsp. *oxylepis* (Torr.) S.D. Koch, Red lovegrass. TAC, *Nelson, Macke, and Wilburn* N707. CD, FD, and BF.
- Eragrostis sessilisipica* Buckley, Lovegrass. NSA; Jones (1966), Rabalais (1975), Rechenthin and Passey (1967).
- Eragrostis spectabilis* (Pursh) Steud., Lovegrass. PINS, *Jones* 1386.
- Eustachys petrea* (Sw.) Desv., TAC, *Nelson, Macke, and Wilburn* N642. BF.

- Hordeum pusillum* Nutt., Little barley. TAIC, Nelson N567. TF.
- Leersia hexandra* Sw., PINS, Whistler 2503.
- Leptochloa dubia* (Kunth) Nees., Green sprangletop. NSA; Jones (1966), Rabalais (1975).
- Leptochloa fascicularis* (Lam.) A. Gray var. *fasicularis*, Sprangletop. NSA; Baccus and Horton (1979), Jones (1966), Rabalais (1975).
- Leptochloa mucronata* (Michx.) Kunth, Red sprangletop. NSA; Rechenthin and Passey (1967).
- Lolium perenne* L., Ryegrass. NSA; Jones (1966), Rabalais (1975).
- Monanthochloe littoralis* Engelm., TAC, Nelson, Macke, and Wilburn N687. TF.
- Muhlenbergia capillaris* (Lam.) Trin., Gulf muhly. PINS, Whistler 2502.
- Nassella leucotricha* (Trin. & Rupr.) R. Pohl, Texas speargrass, Texas winter-grass. NSA; Jones (1966).
- Panicum aciculare* Desv. ex Poir. var. *angustifolium* (Elliot) Wipff and S. D. Jones, PINS, Jones 7621.
- Panicum acuminatum* Sw., Panic grass. PINS, Jones 3961.
- Panicum amarum* Elliot var. *amarulum* (A. Hitchc. & Chase) P. Palmer, Beach panic. TAC, Nelson N624. CD and FD.
- Panicum amarum* Elliot var. *amarum*, Beach panic. TAIC, Nelson N493. CD and FD.
- Panicum capillarioides* Vasey. Panic grass. TAIC, Nelson and Hornsby, N309. FD.
- Panicum nodatum* Hitchc. & Chase, Panic grass. PINS, Fall 1261.
- Panicum oligosanthos* Schult., PINS, Whistler 2513.
- Panicum portoricense* Desv. ex W. Hamilt., Panic grass. TAIC, Nelson and French N369. BF.
- Panicum sphaerocarpon* Elliott, Panic grass. TAIC, Nelson N560. BF.
- Panicum virgatum* L., PINS, Whistler 2508.
- Parapholis incurva* (L.) C.E. Hubb., Sicklegrass. TAIC, Alaniz.
- Paspalum monostachyum* Vasey, Paspalum. TAIC, Nelson, N486. FD and BF.
- Paspalum plicatulum* Michx. var. *plicatum*, Brownseed paspalum. PINS, Jones 899.
- Paspalum setaceum* Michx., Paspalum. TAIC, Nelson and McKeller N299. FD and BF.
- Paspalum vaginatum* Sw., Paspalum. PINS, Jones 1881.
- Pennisetum ciliare* (L.) Link var. *ciliare*, Buffelgrass. TAIC, Nelson and Hornsby, N297. FD.
- Pennisetum glaucum* (L.) R. Br., NSA; Rechenthin and Passey (1967).
- Phragmites australis* (Cav.) Trin. ex Steud. subsp. *australis*, Common reed. C.C. Museum, Jones 6768.
- Polypogon monspeliensis* (L.) Desf., Rabbitfoot grass. TAC, Nelson, Macke, and Wilburn N680. TF.
- Schedonnardus paniculatus* (Nutt.) W. Trel., Tumblegrass. NSA; Jones (1966), Rabalais (1975).
- Schizachyrium scoparium* (Michx.) Nash var. *littorale* (Nash) Gould, Seacoast bluestem. TAIC, Nelson and Cadena N314. FD and BF.
- Setaria leucopila* (Scribn. & Merr.) K. Schum., NSA; Jones (1966), Rabalais (1975).
- Setaria macrostachya* Kunth. NSA; Rechenthin and Passey (1967).
- Setaria parviflora* (Poir.) Kerguelen, NSA; Jones (1966), Rabalais (1975), Rechenthin and Passey (1967).
- Sorghastrum nutans* (L.) Nash, PINS, Whistler 2504.
- Sorghum halepense* (L.) R. Br., Johnson grass. NSA; Jones (1966), Rabalais (1975).
- Spartina alterniflora* Lois. var. *glabra* (Bigel.) Fern., Smooth cordgrass. C.C. Museum, Jones 6906.
- Spartina patens* (Ait.) Muhl., Saltmeadow cordgrass. TAIC, Nelson N423. BF.
- Spartina spartinae* (Trin.) Merr. ex Hitchc., Sacahuista, Gulf cordgrass. C.C. Museum, Jones 7181.
- Sphenopholis obtusata* (Michx.) F. Lamson., Prairie wedgescale. NSA; Jones (1966), Rabalais (1975).
- Sporobolus airoides* (Torr.) Torr. subsp. *airoides*, Alkali sacaton. NSA; Jones (1966),

Rabalais (1975), Rechenthin and Passey (1967).

Sporobolus cryptandrus (Torr.) A. Gray, Sand dropseed. NSA; Carls et al. (1987), Jones (1966), Rabalais (1975), Rechenthin and Passey (1967).

Sporobolus pyramidatus (Lam.) Hitchc., Dropseed. PINS, Pratt 2368.

Sporobolus tharpii Hitchc., Coastal sacaton. TAIC, Nelson N688. Endemic. CD and FD.

Sporobolus virginicus (L.) Kunth, Coastal dropseed. TAIC, Nelson and Hornsby N302. FD, BF, and TF.

Trichloris pluriflora Fourn., NSA; Jones (1966), Rabalais (1975).

Trichoneura elegans Swall., Silveus-grass. PINS, Jones 6719.

Tridens congestus (L. H. Dewey) Nash, Tridens. TAIC, Nelson N515. BF.

Triplasis purpurea (Walter) Chapm. var. *purpurea*, Purple sandgrass. PINS, Jones 896.

Uniola paniculata L., Sea oats, Espiga del mar. TAIC, Nelson and Cadena N291. CD and FD.

Urochloa ciliatissima (Buckley) R.D. Webster, TAC, Nelson, Macke, and Wilburn N708. FD.

Urochloa texana (Buckley) R.D. Webster, PINS, Whistler 2507.

Vaseyochloa multinervosa (Vasey) Hitchc., Texas grass. PINS, Jones 6713.

Vulpia octoflora (Walter) Rydb., Six-weeks fescue. TAIC, Kiddy.

POLEMONIACEAE

Phlox drummondii Hook., Phlox. TAC, Nelson, Macke, and Wilburn N630. FD.

Phlox glabriflora (Brand) Whitehouse subsp. *glabriflora*, Rio Grande phlox. C.C. Museum, Jones 6743.

Phlox glabriflora (Brand) Whitehouse subsp. *littoralis* (Cory) Wherry, Rio Grande phlox. PINS, Lee 2411.

POLYGALACEAE

Polygala alba Nutt., Polygala, Milkwort. TAIC, Nelson N626. FD and BF.

Polygala incarnata L., Polygala, Milkwort. TAC, Nelson, Macke, and Wilburn N637. BF.

Polygala verticillata L., Polygala, Milkwort. C.C. Museum, Jones 1980.

POLYGONACEAE

Eriogonum longifolium Nutt. var. *longifolium*, Wild buckwheat. NSA; McAtee (1975), Rabalais (1975).

Eriogonum multiflorum Benth., Wild buckwheat. TAC, Nelson, Macke, and Wilburn N628. FD and BF.

Polygonella polygama (Vent.) Engelm. & A. Gray, October-flower. PINS, Jones 6698.

PORTULACACEAE

Portulaca oleracea L. subsp. *oleracea*, Purslane, Verdolaga. PINS, Jones and Baker 780.

Portulaca pilosa L., Chisme. C.C. Museum, Jones 2339-A.

Talinum parviflorum Nutt., Flame-flower. C.C. Museum, Jones 2243.

PRIMULACEAE

Anagallis arvensis L., Pimpernel. TAC, Nelson, Macke, and Wilburn N651. BF.

Anagallis minima L., Chaffweed. C.C. Museum, Jones 6805.

Samolus ebracteatus Kunth, Water-pimpernel, Brookweed. TAIC, Nelson and Odvody N350. BF and TF.

RUBIACEAE

Cephalanthus occidentalis L. var. *californicus* Benth., Common buttonbush, Honey-balls, Globe-flowers. PINS, Jones 908. Shrub or small tree.

Diodia teres Walter var. *teres*, Poor Joe, Rough buttonweed. PINS, Jones 6559.

Hedyotis nigricans (Lam.) Fosberg, Bluets. TAC, Nelson, Macke, and Wilburn N685. BF.

Houstonia subviscosa (C. Wright ex A. Gray) A. Gray, Bluets. TAIC, Nelson and Martinez N335. FD.

Oldenlandia boscii (DC.) Chapm., Bluets. PINS, Jones 892.

Oldenlandia uniflora L., PINS, Jones 7441.

Richardia brasiliensis G6mes, PINS, Jones 7560.

RUPPIACEAE

Ruppia maritima L., Widgeon-grass. PINS, Jones and Baker 6552.

RUTACEAE

Zanthoxylum clava-berculis L., Pepperbark,

Hercules-club, Prickly ash, Tickle-tongue, Toothache tree. PINS, *Jones* 7058. Shrub or small tree.

Zanthoxylum hirsutum Buckley, Tickle-tongue, Toothache tree, Prickly ash. PINS, *Jones* 786. Shrub or small tree.

SALICACEAE

Salix nigra Marshall, Black willow, Saúz. TAIC, *Nelson* N563. Tree. BF.

SAXIFRAGACEAE

Lepuropetalon spathulatum Elliott, C.C. Museum, *Jones* 6808.

SCROPHULARIACEAE

Agalinis fasciculata (Elliott) Raf., C.C. Museum, *Jones* 7579.

Agalinis heterophylla (Nutt.) Small ex Britton, Prairie agalinis. TAIC, *Bogusch and Molby* 2402.

Agalinis maritima (Raf.) Raf. var. *glandiflora* (Benth.) Shinnery, Seaside gerardia, Salt marsh gerardia. TAIC, *Nelson and Negrete* N411. BF.

Agalinis strictifolia (Benth.) Pennell, PINS, *Lee and Whistler* 2390.

Bacopa caroliniana (Walter) Robins., Blue hyssop. NSA; Rechenstien and Passey (1967).

Bacopa monnieri (L.) Pennell, Water-hyssop. PINS, *Jones and Hambly* 1157.

Bacopa rotundifolia (Michx.) Wettst., PINS, *Whistler* 2467.

Buchnera americana L., Bluehearts. TAIC, *Nelson* N623. BF.

Castilleja indivisa Engelm., Indian paintbrush, Paintedcup. NSA; Rechenstien and Passey (1967).

Lindernia dubia (L.) Pennell var. *anagallidea* (Michx.) Cooperr., False pimpernel. PINS, *Jones* 6806.

Maurandya antirrhiniflora Humb. & Bonpl. ex Willd. subsp. *antirrhiniflora*, Snap-dragon vine. PINS, *Jones and Baker* 790.

Nuttallanthus texanus (Scheele) D.A. Sutton, Texas toad-flax. NSA; *Jones* (1966), Rabalais (1975).

Stemodia lanata Ses. & Moc. ex Benth., Woolly stemodia. TAIC, *Nelson and Negrete* N409. FD and BF.

SOLANACEAE

Capsicum annuum L. var. *aviculare* (Dierb.) D'Arcy & Eshbaugh, Bird pepper, Chilipequin, Chili pequín. NSA; Rabalais (1975). Subshrub or shrub.

Lycium carolinianum Walter var. *quadrifidum* (Dunal) Hitchc., Carolina wolfberry. TAIC, *Nelson* N490. Shrub. TF.

Nicotiana glauca Grah., Tree tobacco, Mustard tree, Rapé, Gigante, Buena moza. C.C. Museum, *Jones* 7584. Shrub or small tree.

Physalis cinerascens (Dunal) Hitchc. var. *spathulifolia* (Torr.) J. Sullivan, Ground cherry. TAIC, *Nelson and Martinez* N296. CD, FD, and BF.

Solanum americanum Mill., American nightshade, Hierba mora negra. PINS, *Jones* 7309.

Solanum rostratum Dunal, Buffalo bur, Kansas-thistle, Mala mujer. NSA; Rechenstien and Passey (1967).

TAMARICACEAE

Tamarix aphylla (L.) Karst., Tamarisk, Salt cedar. NSA; Rabalais (1975). Tree.

Tamarix canariensis Willd., Tamarisk, Salt cedar. NSA; Rabalais (1975). Shrub or tree.

Tamarix chinensis Lour., Tamarisk, Salt cedar. C.C. Museum, *Jones* 8147. Shrub or small tree.

Tamarix gallica L., Tamarisco, Rompevientos. PINS, *Jones* 6551. Shrub or small tree.

Tamarix ramosissima Ledeb., Tamarisk, Salt cedar. PINS, *Whistler and Lee* 2395. Shrub or small tree.

TYPHACEAE

Typha domingensis Pers., Tule. PINS, *Whistler and Lee* 2439.

Typha latifolia L., Common cat-tail, Tule espadilla. NSA; Higginbotham (1972), Rechenstien and Passey (1967).

URTICACEAE

Parietaria floridana Nutt., Pellitory. NSA; McAtee (1975), Rabalais (1975).

Parietaria pensylvanica Muhl. ex Willd. var. *obtusata* (Rydb. ex Small) Shinnery, Hammerwort. PINS, *Jones* 795.

Urtica chamaedryoides Pursh, Ortiguilla. NSA; *Jones* (1966), Rabalais (1975).

VERBENACEAE

Glandularia bipinnatifida (Nutt.) Nutt. var. *bipinnatifida*, PINS, Jones 1205.

Lantana camara L., West Indian lantana, Alfombrilla hedion. NSA; Rabalais (1975), Rechenthin and Passey (1966). Shrub.

Lantana urticoides Hayek, Texas lantana, Hierba de cristo, Calico bush. PINS, Jones 7310. Shrub.

Phyla lanceolata (Michx.) Greene, Northern frog-fruit. NSA; Rechenthin and Passey (1967).

Phyla nodiflora (L.) Greene, Common frog fruit, Cape-weed, Turkey-tangle, Mat-grass, Hierba de la Virgen María. TAIC, Nelson and Soto N320. FD and BF.

Verbena halei Small, Texas vervain. PINS, Jones 7063.

VITACEAE

Cissus incisa Des Moul., Marine-ivy treebine, Cow-itch, Hierba del buey. PINS, Jones 6771.

XYRIDACEAE

Xyris jupicai Rich., Yellow-eyed grass. PINS, Jones 7396.

ZYGOPHYLLACEAE

Kallstroemia hirsutissima Vail ex Small, Carpetweed. C.C. Museum, Jones 7583.

Tribulus terrestris L., Caltrop, Goat head, Puncture weed, Abrojo de flor amarilla, Cadillo. NSA; Rabalais (1975).

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