

# SUPPLEMENT TO FLORA OF THE TEXAS COASTAL BEND BY F. B. JONES

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During the years 1977–1979 I was employed by two large cattle companies in the Texas Coastal Bend region at sites not visited by Jones while preparing his *Flora* (Jones, per. communication). The ranches were managed primarily by F. B. Rooke and Sons of Woodsboro, Texas, and the M. E. O'Connor Trust of Victoria, Texas. The area studied includes large tracts of land on the coastal prairie and caliche hills in Victoria, Goliad, Refugio, and San Patricio Counties mostly between the Guadalupe River in the east and the Aransas River in the west, and north to Hwy. 59 in Goliad. This includes much of the eastern portion of Jones' *Flora of the Texas Coastal Bend*. It should be noted that the records from Victoria County extended the range covered by Jones. Using this work (Jones, 1977) and the *Manual of the Vascular Plants of Texas* (Correll & Johnston, 1970) as basic references, I have compiled a list of corrections, additions, and field observations to supplement Jones' *Flora*. The order followed in this paper correlates precisely with that of Jones' work and is page referenced to most easily annotate and supplement that publication.

I have included in this paper several non-indigenous species that have either escaped from cultivation into the native vegetation or have remained persistent at old house sites so that these would not be a mystery to the curious beginner. These plants were intentionally omitted by Jones.

Voucher specimens, cited by my personal collection numbers, have been deposited in several large herbaria indicated by acronyms in parentheses following *Index Herbariorum* (Holmgren & Keuken, 1974). In addition, collections are maintained by the O'Connor Trust at the Greta Ranch in Refugio, Texas (cited as 'oc') and at the McNamara Ranch in Goliad, Texas (cited as 'gol'), and by F. B. Rooke & Sons at Woodsboro, Texas (cited as 'r'). A few specimens are maintained in a research collection by P. A. Fryxell of Texas A&M University, College Station, Texas (cited as 'pf'). A more easily accessible set of specimens has been donated by the O'Connor Trust to Victoria College, Victoria, Texas (cited as 'vic') and is maintained in their library for study.

I would like to give special thanks to Fred Jones for his helpful comments on the manuscript. This is Scientific Article no. A-2838, Contribution no. 5889 of the Maryland Agricultural Experiment Station, Department of Botany.

## SYSTEMATIC LISTING

## POLYPODIACEAE (p. 1)

POLYPODIUM POLYPODIODES (L.) Watt. var. MICHAUXIANUM Weath. Epiphytic fern on live oak branches, shaded woodlands near creeks in Refugio and Goliad Counties. 6125 (gol, MARY, oc, TAES, vic, VT); 8126 (r).

THELYPTERIS KUNTHII (Desv.) Morton. Terrestrial fern on shaded creek banks, Woodsboro, Refugio County. 7316 (gol, MARY, oc, r, vic).

## TYPHACEAE (p. 2-3)

TYPHA ANGUSTIFOLIA L. Easily confused with *T. latifolia* and *T. domingensis*, the male and female spikes are separated and the leaves are 5-8 mm wide and dark green. Refugio County. 7562 (oc, r).

## POTAMOGETONACEAE (p. 3)

POTAMOGETON PUSILLUS L. Often confused with *P. pectinatus*, but the stipules are free from the leaf. Refugio County in ponds. 5684 (gol, oc, vic); 6008 (MARY, NO, VT).

## NAJADACEAE (p. 4)

Correction: NAJAS, genus omitted in text.

## CYPERACEAE (p. 6-18)

CAREX MUHLENBERGII Schkuhr. Similar to *C. cephalophora*, but bears bracts 1-3 (-20) cm long. Widespread. 4770 (oc, vic); 8241 (gol, MARY).

CYPERUS IRIA L. Weedy plant especially frequent in grain fields, found along ranch road in Goliad, Goliad County. 6461 (gol, MARY, oc, vic).

CYPERUS SESQUIFLORUS (Torr.) Mattf. & Kukenth. Sedge with a single thimble-shaped head, scarce along Melon Creek at the Greta Ranch, Refugio County. 5420 (oc, vic).

CYPERUS STRIGOSUS L. River bottoms, Refugio County. 5354 (oc); 5642 (vic); 7357 (r); 8483 (gol, r).

FIMBRISTYLIS ANNUA (All.) R. & S. Sandy roadside in Goliad County. 6322 (gol, oc, vic).

FIMBRISTYLIS VAHLII (Lam.) Link. Frequent in drying pond and creek beds, Refugio County. 6197 (MARY, oc, vic); 6380 (oc); 7226 (r, VT).

SCIRPUS KOILOLEPIS (Steud.) Kl. A dwarf sedge of moist sandy soil, widespread. 4774 (gol); 4865 (BM, oc, vic). Corrections: *Eleocharis acutisquamata* Buckl. (p. 13) is not in alphabetical order; the author of *Hemicarpha micrantha* is (Vahl) Britt.

## ARACEAE (a new family to insert on p. 19)

ARISAEMA DRACONTIUM (L.) Schott. A scarce plant of shaded Coleta Creek bottomland, Victoria County. 8368 (gol, MARY, NY, oc, TAES, vic, VT).



## LEMNACEAE (p. 19-20)

LEMMA TRINERVIS (Aust.) Small. Sometimes included in *L. minor* L., but the thallus is 3-nerved. Floating in pools along San Antonio River, Goliad County. 4854 (gol, MARY, oc, vic); 6267 (oc, vic).

## PONTEDERIACEAE (p. 24)

PONTEDERIA CORDATA L. var. LANCEOLATA (Nutt.) Griseb. Occasional in marshes on open prairie, Greta Ranch, Refugio County. 5418 (gol, oc, vic).

## LILIACEAE (p. 26-27)

NOLINA TEXANA Wats. A coarse grass-like plant of caliche hills along Hwy. 59, Goliad Co. 5742 (gol, oc, vic); 6489 (oc, vic); 8246 (gol, MARY, NY, VT).

Corrections: *Allium* (p. 28), *Nothoscordum* (p. 31) and *Yucca* (p. 27) are traditionally placed in this family rather than the Agavaceae or Amaryllidaceae. *Smilax tamnoides* L. var. *hispida* (Muhl.) Fern. is often treated as *Smilax hispida* Muhl. (p. 27).

## AMARYLLIDACEAE (p. 28-31)

Correction: the author of *Allium elmendorffii* is M. Ownbey; *A. runyonii* M. Ownbey is a corrected spelling.

## IRIDACEAE (p. 31-32)

NEMASTYLIS GEMINIFLORA Nutt. This plant has the appearance of a giant blue-eyed grass, and seems to be restricted to caliche in Refugio and Goliad Counties. 6683 (oc, r, vic); 8229 (gol); 8235 (MARY, oc, r, vic).

## JUGLANDACEAE (p. 34)

CARYA LEIODERMIS Sarg. Young trees only, occur along Medio Creek just above the Mission River, Refugio County. 7196 (MARY).

## FAGACEAE (p. 36)

Correction: a corrected spelling is: *Quercus marilandica* Muench.

## MORACEAE (p. 38)

FICUS CARICA L. Persistent after cultivation, appearing wild after many years, Refugio County. 8077 (gol, oc, r, vic); 8153 (oc).

MACLURA POMIFERA (Raf.) Schneid. Occasional armed tree in Coletto Creek bottoms, Victoria County. 8365 (gol, MARY, NY, oc, vic, VT); 8367 (gol, MARY, oc, vic, VT).

## URTICACEAE (p. 38)

URTICA URENS L. The most frequent stinging nettle, often confused with *U. chamaedryoides* which generally has wider leaves and is found in shaded bottomlands. Widespread. 4716 (MO, oc, vic); 4796 (gol); 6506 (r); 6514 (MARY).

## LORANTHACEAE (p. 38)

Correction: author correction: *Phoradendron tomentosum* (DC.) Gray.

## POLYGONACEAE (p. 39-42)

ANTIGONON LEPTOPUS H. & A. An escaped vine with coral-pink tepals, roadsides in Refugio County. 8076 (gol, MARY, oc, r, vic, VT); 8148 (oc).

Correction: the author of *Rumex hastatulus* (p. 41) is italicized in error.

## CHENOPODIACEAE (p. 43-45)

Correction: spelling correction: *Chenopodium ambrosioides* L. (p. 44).

## AMARANTHACEAE (p. 46-51)

ACNIDA (AMARANTHUS) CUSPIDATA Spreng. Occasional along Mission River, Refugio County. 5927 (oc).

AMARANTHUS SCLEROPOIDES Uline & Bray. Occasional field weed, Refugio County. 7545 (oc, r).

Correction: spelling correction: *Guilleminea lanuginosa* var. *rigidiflora* (Hook.). Mears (p. 50).

## AIZOACEAE (p. 54-55)

SESUVIUM MARITIMUM (Walt.) BSP. Occasional in estuarine flats along Mission River, Refugio County. 5916 (oc).

## CARYOPHYLLACEAE (p. 57-59)

CERASTIUM GLOMERATUM Thuill. Occasional yard weed, Refugio County. 4829 (oc); 6570 (r); 8221 (gol, MARY, oc, r, vic).

PARONYCHIA SETACEA T. & G. Occasional prairie herb, Goliad County near Sarco Creek. 5185 (gol, oc, vic); 8589 (gol, MARY, oc, vic).

Correction: spelling correction: *Cerastium brachypodum* (Engelm.) Robins. (p. 57).

## CERATOPHYLLACEAE (p. 59)

CERATOPHYLLUM DEMERSUM L. Leaflet divisions serrate on one side; frequent in ponds. Refugio County. 6007 (oc, vic); 7520 (MARY, r, TAES, VT).

## RANUNCULACEAE (p. 60-61)

RANUNCULUS CAROLINIANUS DC. Occasional stoloniferous herb, Coleta Creek bottoms, Victoria County. 8364 (gol, MARY, NY, oc, vic. VT).

Correction: corrected spelling: MYOSURUS (p. 61).

## BERBERIDACEAE (p. 61)

Correction: an alternate (preferred?) name for Agarito is *Mahonia trifoliolata* (Moric.) Fedde.

## PAPAVERACEAE (p. 62)

ARGEMONE ALBIFLORA Hornem. subsp. TEXANA G. Ownby. Occasional in



pasture near Coletto Creek, Victoria County. 8312 (gol, MARY, oc, vic).

#### CRUCIFERAE (BRASSICACEAE) (p. 64–67)

ARABIS PETIOLARIS Gray. Very local on caliche hills along Hwy 59, Goliad County. 5054 (gol, oc, vic).

LEPIDIUM RUDERALE L. Occasional ranch weed, Goliad County. 5566 (oc).

MYAGRUM PERFOLIATUM L. Occasional field weed with other mustards, River Ranch, San Antonio River floodplain, Goliad County. 5204 (gol, oc, vic).

Correction: in key (p. 67) *R. islandica*, *R. teres*.

#### ROSACEAE (p. 69–71)

PRUNUS PERSICA (L.) Batsch. Occasional escape. Widespread. 5438 (oc); 6531 (r); 6592 (gol, oc, vic); 7059 (oc).

#### LEGUMINOSAE (FABACEAE) (p. 72–92)

ASTRAGALUS DISTORTUS T. & G. Occasional, roadsides and prairie, Goliad County. 6602 (gol, MARY, oc, vic).

CALLIANDRA BIFLORA Tharp. Scarce, caliche hills at McNamara Ranch, Goliad County. 5550 (oc, vic); 6333 (gol, oc); 7711 (MARY, TAES).

DALEA ENNEANDRA Nutt. Scarce, San Antonio River bottoms, McNamara Ranch, Goliad County. 5913 (gol, MARY, oc, vic).

DESMANTHUS ACUMINATUS Benth. On caliche road fill, Refugio County. 5421 (oc, vic); 6977 (r).

DESMANTHUS VELUTINUS Scheele. Occasional on caliche hills, McNamara Ranch, Goliad County. 5898 (gol, oc, vic); 6121 (gol).

DESMODIUM CANUM (Gmel.) Schinz. & Thell. Occasional in prairie pasture, widespread. 5586 (oc, vic); 5716 (gol); 5854 (gol, MARY); 7018 (r, TAES).

GLEDITSIA TRIACANTHOS L. Local in bottomland, Coletto Creek, Victoria County. 6359 (gol, oc, vic); 8307 (gol, MARY, oc, vic, VT).

PETALOSTEMON PULCHERRIMUM (Heller) Heller. Occasional on caliche hills, Hwy. 59, Goliad County. 5557 (MARY); 5736 (gol, oc, vic).

TRIFOLIUM AMPHIANTHUM T. & G. Occasional on prairies, Victoria & Refugio Counties. 4897 (oc, vic); 8331 (gol, oc, r, vic).

TRIFOLIUM BEJARIENSE Moric. Frequent on sandy prairies, widespread. 4756 (NY, oc, vic); 4837 (gol); 8297 (gol, MARY, NY, oc, r, TAES, vic, VT).

TRIFOLIUM PRATENSE L. Occasionally cultivated and escaped, Refugio County. 8465 (gol, MARY, oc, r, vic).

VICIA DASycARPA Terr. Occasionally cultivated and escaped, Refugio County. 8463 (gol, MARY, oc, r, vic).

VICIA LUDOVICIANA Nutt. var. TEXANA (T. & G.) Shinnars. Widespread and frequent. 4667 (ENCB, oc, vic); 4758 (gol); 4836 (oc); 6629 (r); 6637 (r); 8272 (gol, MARY, vic).

VICIA MINUTIFLORA Dieter. Occasional, Refugio County. 6534 (r).

Corrections: spelling correction: *Dalea thyrsiflora* Gray (p. 81); author cor-

rection: *Desmanthus virgatus* var. *depressus* (H. & B. ex Willd.) Turner (p. 81); spelling correction: *Erythrina* (p. 82); the epithet of *Eysenhardtia texana* is capitalized in error (p. 82).

#### OXALIDACEAE (p. 92–93)

Correction: spelling correction in key and text: *Oxalis dichondriifolia* Gray.

#### ZYGOPHYLLACEAE (p. 94–95)

KALLSTROEMIA PARVIFLORA Nort. Pasture weed, Goliad County. 7990 (MARY, oc, r, TAES, vic).

#### MALPIGHIACEAE (p. 95)

Correction: nomenclatural change: *Thryallis angustifolia* (Benth.) O. Ktze.

#### RUTACEAE (p. 95–96)

CITRUS SINENSIS (L.) Osbeck. Occasionally escaped in oak mottes, Refugio and San Patricio Counties. 5839 (gol, oc, vic); 8128 (MARY, r, TAES, VT).

#### SIMAROUBACEAE (p. 97)

Correction: family name misspelled in key (p. xxiv) text, and index (p. 259).

#### POLYGALACEAE (p. 97–99)

POLYGALA POLYGAMA L. Occasional in sandy prairie pastures, Goliad County. 5173 (oc); 8585 (gol, vic).

#### EUPHORBIACEAE (p. 99–108)

ACALYPHA MONOCOCCA (Englem.) L. Mill. Infrequent, sandy prairie near Sarco Creek. Goliad County. 6442 (oc).

ARGYTHAMNIA SIMULANS J. Ingram. Local on caliche hills, Hwy. 59, Goliad County. 8610 (gol. MARY, oc, vic).

SAPIUM SEBIFERUM (L.) Roxb. Cultivated and often escaped, widespread tree. 5378 (gol, oc, vic); 5379 (gol. oc, vic); 7300 (r); 8328 (MARY, oc); 8632 (MARY, NY, r, TAES, VT).

Corrections: spelling correction: *Acalypha ostryifolia* Ridd. and *Bernardia myriciifolia* (Scheele) Wats. (p. 100); spelling corrections: *Croton monanthogynus* Michx. (p. 102) and 'capsule', l. 27 of key (p. 103).

#### CALLITRICHACEAE (p. 108)

CALLITRICHE NUTTALLII Torr. Wet sand in prairie, Goliad County. 6586a (oc).

#### ANACARDIACEAE (p. 109)

RHUS AROMATICA Ait. var. FLABELLIFORMIS Shinnars. Occasional on caliche hills, Hwy. 59, Goliad County. 5036 (oc); 8605 (gol, MARY, vic).

SCHINUS TEREBINTHIFOLIUS Raddi. Apparently an escape from cultivation,



Cayo del Oso, Flour Bluff, Nueces County. 8099 (MARY, VT).

Correction: author correction: *Rhus microphylla* Englem. (p. 109).

#### HIPPOCASTANACEAE (new family, insert p. 110)

AESCULUS PAVIA L. Shrub to small tree with red-orange flowers, San Antonio River bottoms at Hwy. 59, Goliad County, and Coletto Creek, Victoria County. 4815 (gol, oc, vic); 5511 (gol, oc, vic); 8201 (MARY, NY, TAES, NY).

#### RHAMNACEAE (p. 111)

CEANOTHUS HERBACEUS Raf. Infrequent low perennial on caliche hills, Hwy. 59, Goliad County. 8237 (gol, MARY, NY, oc, vic, VT).

#### MALVACEAE (p. 115–121)

HIBISCUS MOSCHEUTOS L. subsp. LASIOCARPUS (Cav.) Blanchard. St. Nicholas Lake, Greta Ranch, Refugio County. 6044 (gol, MARY, oc, pf, vic).

SIDA ELLIOTTII T. & G. Pasture, Melon Creek Ranch, Refugio County. 5310 (pf, TAES, VT).

Corrections: nomenclatural:

*Allowissadula lozanii* (Rose) Bates. This is incorrectly identified in the text as *Wissadula holosericea* (Scheele) Garcke which does not occur north of Cameron County.

*Hibiscus militaris* Cav. = *H. laevis* Allioni

*Sida filicaulis* T. & G. = *Abutilifolia* Miller

*Sida filipes* Gray = *Meximalva filipes* (Gray) Fryxell

*Sida physocalyx* Gray = *Rhynchosida physocalyx* (Gray) Fryxell

Correction in key: p. 116 l. 2 should read 'carpels 5'; it should be noted (p. 118) that *Malvastrum americanum* (L.) Torr. does not occur north of Corpus Christi. It seems that many taxa said to be widespread in the text actually do not reach the eastern portion of the range of the *Flora*.

#### PASSIFLORACEAE (p. 126)

PASSIFLORA SUBEROSA L. Infrequent vine in oak motte, Rooke Ranch, Woodsboro, Refugio County. 8617 (oc, r, vic).

#### LOASACEAE (p. 129)

Correction: 'Sand Lily' (*Mentzelia nuda* (Pursh) Torr. & Gray) as a common name should be capitalized to be consistent with the style of the *Flora*.

#### LYTHRACEAE (p. 133–135)

LAGERSTROEMIA INDICA L. Both persistent after cultivation and escaped. Refugio County. 6026 (gol, oc, vic).

#### ONAGRACEAE (p. 135–139)

OENOTHERA MEXICANA Spach. Occasional on sandy terraces, Refugio County. 6732 (MARY, MO, oc, r, vic).

## UMBELLIFERAE (APIACEAE) (p. 139-144)

HYDROCOTYLE VERTICILLATA Thumb. var. TRIRADIATA (A. Rich.) Fern. In mud along the Aransas River, San Patricio County. 6173 (oc, vic); 7021 (r).

LIMNOSCIADIUM PINNATUM (DC). Math. & Const. Occasional in marshy land, upright and larger than *L. pumilum*, widespread. 4978 (gol, oc, vic); 5256 (oc); 6759 (MARY, r); 8356 (gol, vic).

PTILIMNIUM NUTTALLII (DC.) Britt. Occasional in sandy openings, Goliad and Refugio Counties. 5149 (oc, vic); 5444 (oc, vic); 5526 (gol); 7050 (MARY, r, TAES, VT); 7254 (gol, MARY, r, VT).

## OLEACEAE (p. 146-147)

LIGUSTRUM JAPONICUM Thunb. Thick-leaved hedge plant, occasionally escaped. Widespread. 6025 (oc); 8396 (gol, oc, r, vic).

LIGUSTRUM LUCIDUM Ait. Tall shrub or tree, often escaped from cultivation. Widespread. 5437 (gol, oc, vic); 6566 (r); 7182 (r).

## LOGANIACEAE (p. 147)

CYNOCTONUM MITREOLA (L.) Britt. Fragile herb in wet areas. Melon Creek and the Aransas River, Refugio County. 6202 (oc, vic); 7389 (r); 7627 (r, TAES); 7766 (gol, oc, vic).

## APOCYNACEAE (p. 149-150)

NERIUM OLEANDER L. Persistent after cultivation at old house sites, widespread. 6024 (gol, oc, vic).

## ASCLEPIADACEAE (p. 150-152)

ASCLEPIAS ASPERULA (Dcne.) Woods. Local on caliche hills, Hwy. 59, Goliad County. 5000 (gol, oc, vic); 5469 (oc); 8231 (gol, vic).

ASCLEPIAS TUBEROSA L. Occasional in oak woodlands, Goliad County. 5528 (oc, vic); 8578 (gol, MARY, oc, vic).

## CONVOLVULACEAE (p. 153-158)

CUSCUTA OBTUSIFLORA H.B.K. var. GLANDULOSA Engelm. Occasional parasite on *Persicaria*, Greta Ranch, Refugio County. 6046 (gol, MARY, oc, vic, VT).

IPOMOEA PANDURATA (L.) Mey. Field weed, Refugio County. 7991 (MARY, r, vic); 8087 (oc, r).

## HYDROPHYLLACEAE (p. 159-161)

HYDROLEA OVATA Choisy. Occasional in marshy prairie sites, Refugio County. 6050 (gol, oc, vic); 7555 (MARY, r, TAES).

## BORAGINACEAE (p. 161-165)

BUGLOSSOIDES (LITHOSPERMUM) ARVENSE (L.) I. M. Johnst. Infrequent roadside weed, Goliad County. 6587 (gol, oc, vic).



ONOSMODIUM BEJARIENSE A. DC. Occasional on caliche hills, Hwy. 59, Goliad County. 5480 (gol, oc, vic); 8601 (gol, MARY, oc, vic).

Correction: key error: p. 161, l. 10, eliminate 'calyx not as above' after *Myosotis*. It leads nowhere.

#### VERBENACEAE (p. 165–168)

LANTANA CAMARA L. Outer flowers lavender, inner ones white or pink, frequent escape from cultivation, Refugio County. 6028 (oc); 8147 (gol, oc, vic); 8576 (MARY, r).

LANTANA MONTEVIDENSIS (Spreng.) Briq. Prostrate shrub, roadside escape near Mission River and Hwy. 77, Refugio County. 7998 (gol, MARY, r, vic, VT).

Corrections: key correction: p. 166, '*L. macropoda*'; author of *Verbena ciliata* (p. 168) should not be italicized.

#### LABIATAE (LAMIACEAE) (p. 169–174)

Corrections: spelling correction: *Micromeria brownei* var. *pilosiuscula* Gray (p. 170); species of *Teucrium* (p. 174) not in alphabetical order.

#### SOLANACEAE (p. 174–178)

Corrections: nomenclatural change: *Capsicum annum* L. var. *minimum* (Miller) Heiser (p. 175). author and spelling correction; *Physalis viscosa* L. var. *spatulifolia* (Torr.) Gray (p. 177); spelling correction: *Solanum elaeagnifolium* Cav. (p. 178).

#### SCROPHULARIACEAE (p. 179–183)

PENSTEMON TENUIS Small. Pasture on McNamara Ranch, Goliad. 5533 (oc).

Corrections: nomenclatural changes: *Gerardia* = *Agalinis* (p. 180–181) (*Gerardia* applies to a tropical genus in the Acanthaceae) *Agalinis fasciculata* (Ell.) Raf. *Agalinis maritima* (Raf.) Raf. *Agalinis heterophylla* (Nutt.) Small *Agalinis strictifolia* (Benth.) Penn.

#### BIGNONIACEAE (p. 183)

BIGNONIA CAPREOLATA L. Occasional vine in trees, Coleta Creek bottoms, Victoria County. 6366 (gol, oc, vic); 8369 (MARY, oc).

CATALPA SPECIOSA Warder. Infrequent tree, Coleta Creek bottoms, Victoria County. 8370 (gol, MARY, oc, vic, VT).

#### LENTIBULARIACEAE (p. 183–184)

UTRICULARIA GIBBA L. Probably misinterpreted as *U. biflora* Lam. in the text. Refugio County. 5975 (MARY); 5993 (gol, oc, vic).

#### ACANTHACEAE (p. 184–186)

RUELLIA HUMILIS Nutt. var. LONGIFLORA (Gray) Fern. Occasional on open prairie near Sarco Creek, Goliad County. 5708 (gol, oc, vic).

## PLANTAGINACEAE (p. 188)

Correction: the type face should be larger and the common name, 'Plantain Family', should have been included to be consistent with the text.

## RUBIACEAE (p. 188-192)

*GALIUM PROLIFERUM* Gray. Locally common on caliche hills, Hwy 59, Goliad County. 8620 (gol, MARY, NY, oc, TAES, vic, VT).

## VALERIANACEAE (new family, add p. 195)

*VALERIANELLA STENOCARPA* (Engelm.) Krok. var. *PARVIFLORA* Dyal. Occasional in bottomland and along Fleming Prairie Rd., Coletto Creek, Victoria County. 8294 (gol, MARY, NY, oc, TAES, vic, VT).

## COMPOSITAE (ASTERACEAE) (p. 195-230)

*ACHILLEA MILLEFOLIUM* L. Infrequent around ranch houses, River Ranch, Goliad County. 7058 (gol, MARY, oc, vic).

*ASTER TEXANUS* Burgess. Occasional in Coletto Creek bottoms, Victoria County. 6365 (oc, vic).

*CENTAUREA MELITENSIS* L. Roadside weed, caliche hills, Hwy. 59, Goliad County. 5483 (oc).

*CHAETOPAPPA BELLIDIFOLIA* (Gray & Engelm.) Shinners. Caliche hills, Hwy. 59, Goliad County. 5052 (gol, oc, OS, vic); 8242 (gol, MARY, oc, r, vic, VT).

*GRINDELIA SQUARROSA* (Pursh) Dun. Roadsides near McNamara Ranch, Goliad County. 6126 (gol, oc, vic).

*HELIANTHUS GROSSE-SERRATUS* Martens. Occasional in Coletto Creek bottoms, Victoria County. 6361 (gol, oc, vic).

*LACTUCA LUDOVICIANA* (Nutt.) Ridd. Occasional and widespread in pastures and roadsides. 5700 (oc, vic); 8421 (MARY, oc, vic, VT); 8550 (MARY, r).

*RATIBIDA TAGETES* (James) Barnh. Infrequent on caliche hill, Hwy 59, Goliad County. 5897 (oc).

*SOLIDAGO RADULA* Nutt. Occasional in pastures, Refugio County. Leaves very rough to the touch. 6316 (oc, vic); 6347 (gol, oc); 7898 (r).

*VERNONIA ALTISSIMA* Nutt. Infrequent along Melon Creek, Refugio County. 6205 (gol, oc, vic).

Observations: several plants listed in the text were 'not seen in recent years.' In the Compositae, the following have been relocated: *Marshallia caespitosa* Nutt. (p. 220), large colony along Hwy. 77A near Sarco Creek, Goliad County. 6295 (gol, oc, vic); 8627 (gol, MARY, NY, oc, vic, VT). *Thurovia triflora* Rose (p. 227), frequent on open prairie. Greta Ranch, Refugio County. 6377 (gol, MARY, oc, OSU, pf, TAES, TEX, vic, VT). *Vernonia missurica* Raf. (p. 227), occasional at Melon Creek south of Hwy. 774, Refugio County. 5963 (oc).



Correction: key correction: p. 198. l. 7–13, a lead has been left out in this key causing problems in procedure. The proper sequence of leads with the missing lead inserted is as follows:

"Phyllaries in . . .  
 Ligules up to . . .  
 Ligules 3 mm. . . .  
 Pappus of scales, teeth, or short hairs, or lacking  
 Heads 5–9 mm. wide  
 Rays . . .  
 Rays . . .  
 Heads 10–35 mm. wide "

key correction: p. 197, l. 46, eliminate "Pappus of bristles or . . ." — there is no complimentary lead. Spelling error: p. 199, l. 8 *Pterocaulon* (also p. 222). key correction: p. 200, since the base of the disc corollas *is* enlarged in *Aphanostephus kidderi*, the key should read at this point: "Well-developed involucre 6–8.2 mm high, rays

8–15 mm long . . . . *A. skirrhobasis*  
 Well-developed involucre 4.5–6.3 mm high, rays  
 6–8 mm long . . . . *A. kidderi* "

correction: p. 210, l. 21, should be *E. compositifolium*. Walt.

spelling correction: *Hymenopappus artemisiifolius* DC (p. 215).

key correction: *Liatris* (p. 218–219) change appropriate portion to:

"Pappus bristles shortly appendaged . . . . *L. acidota*  
 Pappus bristles with long appendages. feathery  
 Inner phyllaries with elongated, colored tips . . .  
 Inner phyllaries without elongated, colored tips . . ."

nomenclatural note: *Verbesina microptera* DC. is best treated as a synonym of *V. virginica* L. (p. 227).

#### APPENDICES

Corrections: *Boerhavia mathisiana* F. B. Jones was first described in edition 1 of this work in 1975, and its reprinting here confuses the botanical literature and should not have been included (p. 231–232).

The INDEX contains numerous errors and omissions. In addition to the new records listed here, the following genera included in the text were left out in the index: *Amsonia*, 150; *Apocynum*, 150; *Aspicarpa*, 95; *Najas*, 4. Alphabetical order was not followed in the following: *Engelmannia*, *Eurytaenia*, *Eustoma*, *Euthamia*, *Ludwigia*, *Lupinus*, *pitaya*.

In summary, 96 new records have been added to Jones' Flora of the Texas Coastal Bend as a result of this study. In addition, numerous spelling corrections, key adjustments, and nomenclatural notes have also been pre-

sented to supplement this excellent volume.

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