

**PLANTS OF THE RIO BRAVO CONSERVATION AND MANAGEMENT AREA,  
BELIZE: A PARTIAL AND PRELIMINARY LIST**

**Nicholas Brokaw<sup>1</sup>, Mark Schulze<sup>2</sup>, Elizabeth P. Mallory<sup>1</sup>, Charlotte Taylor<sup>3</sup>, and  
Peter W. Alcorn<sup>4</sup>**

<sup>1</sup>Manomet Center for Conservation Sciences, Box 1770, Manomet, Massachusetts 02345  
USA; fax 508 224-9220; e-mail: nbrokaw@aol.com

<sup>2</sup>Department of Biology, The Pennsylvania State University, University Park,  
Pennsylvania 16802 USA

<sup>3</sup>Missouri Botanical Garden, P.O. Box 299, St. Louis, Missouri 63166

<sup>4</sup>320 S.E. Ninth Street, Gainesville, Florida 32601 USA

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Listed below are plant species of the Rio Bravo Conservation and Management Area (RBCMA), with a few additional species from the adjacent land of Gallon Jug Agroindustries, Inc. The RBCMA covers about 104,000 hectares in northwest Belize at approximately 17°45' N and 88°55' W. It is in the *subtropical moist* life zone of the Holdridge Life Zone System (Hartshorn et al. 1984) and receives about 1500 mm of rainfall per year, with a dry season in the early part of the year. The area ranges from about 20 to 220 m elevation, with small hills, much fairly level terrain, seasonally wet depressions, and a few ravines and steep escarpments. Soils are limestone-derived. Major vegetation types include: upland forest in a range of subtle variety, cohune palm (*Attalea cohune*) forest, riparian forest, scrub swamp forest ("bajo"), savanna, marsh, and wamil (overgrown milpa). The RBCMA is managed by the Programme for Belize.

Many of the species in the list have been identified at the Missouri Botanical Garden (MBG) from specimens collected in the RBCMA by N. Brokaw and M. Schulze from October 1991 to June 1992. A few were identified by N. Brokaw (noted as "det. N.B.") at the Gray Herbarium, Harvard University, or by botanists at the New York Botanical Garden. Those specimens identified at herbaria are indicated by the name of a botanical authority following the species name and a specimen collection number (Brokaw & Schulze) in the appropriate column. For genera that have been formally identified from a specimen, yet for which there was not adequate material to determine the species, no botanical authority is indicated, but a collection number is given. In this list some species identifications by the MBG are qualified by "cf.", meaning usually that the collection appears to be the species named but additional material is needed for a firm identification. Some species names in the list without the qualifying "cf." are followed by multiple collection numbers that include both firm and qualified identifications. In the list of palms, names from the identifications at the MBG are used, but new names from the recent work by Henderson et al. (1995) are given in brackets.

Species in the list without collection numbers have usually only been identified in the field (N. Brokaw) and should be considered provisional records until specimens are collected and formally identified. Collecting and field identification by Brokaw and Schulze have concentrated on trees.

We emphasize that this is a preliminary plant list; many additional plant species are present at in the RBCMA. Only a tiny fraction of species in the non-tree growth forms in the RBCMA is listed.

Common names (Wright et al. 1959, Hartshorn et al. 1984), and growth form as observed in the RBCMA, are also given in the list. Meanings of growth form codes are:

- Tl – large tree: mature individuals  $\geq 20$  m height
- Tm – medium tree: mature individuals 10 - 20 m height
- Ts – small tree: mature individuals  $< 10$  m in height
- T – tree: mature height unknown to the authors
- S – shrub: usually multiple stemmed; mature individuals  $< 5$  m in height
- H – herb
- L – liana (vine)
- He – hemi-epiphyte
- St – strangler

Additional information on most of the tree species in this list, including aids to identification, can be found in *Trees of Rio Bravo: a Guide to Trees of the Rio Bravo Conservation and Management Area, Belize*, by N. Brokaw, E. P. Mallory, and P. W. Alcorn, available from the authors.

Collection numbers with an asterisk (\*) indicate specimens deposited in the herbarium at the MBG. Duplicates of these, as well as the other specimens, are in possession of N. Brokaw and will eventually be deposited in herbaria in Belize. Exotic species are indicated by a diamond (◆) following the species name.

We thank the many botanists at the MBG who identified our specimens.

## LITERATURE CITED

- Hartshorn, G. S., L. Nicolait, L. Hartshorn, G. Bevier, R. Brightman, J. Cal, A. Cawich, W. Davidson, R. Dubois, C. Dyer, J. Gibson, W. Hawley, J. Leonard, R. Nicolait, D. Weyer, H. White, & C. Wright. 1984. *Belize: Country Environmental Profile: A Field Study*. Robert Nicolait & Associates, Ltd., Belize City, Belize.
- Henderson, A., G. Galeano, and R. Bernal. 1995. *Field Guide to the Palms of the Americas*. Princeton University Press, Princeton, New Jersey, USA.
- Wright, A. C. S., D. H. Romney, R. H. Arbuckle, V. E. Vial. 1959. *Land in British Honduras*. Colonial Research Publication No. 24. Her Majesty's Stationery Office, London.

## PLANTS OF THE RIO BRAVO CONSERVATION AND MANAGEMENT AREA

| <b>FAMILY</b>  |                                |        |                               |
|--|--------------------------------|--------|-------------------------------|
| <i>Scientific name</i> botanical authority                       | Common name                    | Form   | Brokaw & Schulze collection # |
| <b>ACANTHACEAE</b>   |                                |        |                               |
| <i>Aphelandra deppeana</i> Schlect. & Cham.                      |                                | S      | 2*, 38*, 92*                  |
| <b>ANACARDIACEAE</b>   |                                |        |                               |
| <i>Astronium graveolens</i> Jacq.                                | glassy wood, palo mulatto      | Tl     | 81                            |
| <i>Mangifera indica</i> ♦  | mango                          | Tm     |                               |
| <i>Metopium brownei</i> (Jacq.) Urb.                             | black poison wood              | Tl     | 295*                          |
| <i>Mosquitoxylum jamaicense</i> Krug & Urb.                      | bastard mahogany               | Tl     | 158*                          |
| <i>Spondias</i> cf. <i>mombin</i>                                | hog plum                       | Tl     | 496 det. N.B.                 |
| <i>S. radlkoferi</i> Donn. Sm.                                   | hog plum                       | Tl     | 206                           |
| <b>ANNONACEAE</b>  |                                |        |                               |
| <i>Annona glabra</i>   | bobwood                        | Tm     |                               |
| <i>A. reticulata</i>   | custard apple, bullock's heart | Tm     |                               |
| <i>Cymbopetalum</i> sp.  |                                | Tm     |                               |
| <i>Guatteria</i> sp.?  |                                |        |                               |
| <i>Malmea</i> cf. <i>depressa</i> (Baill.) Fries                 | lancewood, wild soursop        | Ts     | 448                           |
| <i>Xylopia frutescens</i>  | polewood                       | Tl     |                               |
| <b>APOCYNACEAE</b>   |                                |        |                               |
| <i>Aspidosperma cruenta</i>                                      | mylady                         | Tl     |                               |
| <i>A. megalocarpon</i>   | white mylady                   | Tl     |                               |
| <i>Cameraria belizensis</i> Standley                             | savanna white poisonwood       | Tm     | 332*                          |
| <i>Plumeria obtusa</i>   | zopilote                       | Ts     |                               |
| <i>P. rubra</i> ♦  | Spanish jasmine, frangipani    | Ts     |                               |
| <i>Stemmadenia donnell-smithii</i> (Rose ex J. D. Smith) Woodson | cojotón                        | Tl     | 45                            |
| <i>Tabernaemontana</i> sp.                                       | cojón de perro                 | Tm     | 35*                           |
| <i>Thevetia ahouai</i>   | cojón de mico                  | Ts     |                               |
| <b>AQUIFOLIACEAE</b>   |                                |        |                               |
| <i>Ilex guianensis</i> (Aubl.) Kuntze                            | cassada, bird berry            | T      | 407*                          |
| <b>ARALIACEAE</b>  |                                |        |                               |
| <i>Dendropanax arboreus</i> (L.) Decne. & Planch.                | white gombolimbo               | Tl     | 137*                          |
| <i>D. stenodontus</i> (Standley) A. C. Smith                     |                                | T      | 15*                           |
| <i>Oreopanax obtusifolius</i> L. O. Williams                     |                                | He, Tm | 217                           |

| <b>FAMILY</b>  |                    |       |                               |
|--|--------------------|-------|-------------------------------|
| <i>Scientific name</i> botanical authority             | Common name        | Form  | Brokaw & Schulze collection # |
| <b>ASCLEPIADACEAE</b>                                  |                    |       |                               |
| <i>Asclepias curassavica</i> L.                        |                    | H     | 68                            |
| <i>Matalea gentlei</i> (Lundell & Standley)<br>Woodson |                    | L     | 79*, 238*                     |
| <i>Sarcostemma bilobum</i> Hook. & Arn.                |                    | L     | 74*                           |
| <b>BIGNONIACEAE</b>                                    |                    |       |                               |
| <i>Amphitecna</i> cf. <i>latifolia</i> (Miller) Gentry | river calabash     | Ts, S | 244*                          |
| <i>Arrabidaea</i> cf. <i>florida</i> P. DC.            |                    | L     | 1*                            |
| <i>Crescentia cujete</i>                               | calabash           | Ts    |                               |
| <i>Parmentiera aculeata</i>                            | cow okra           | Tm    |                               |
| <i>Tabebuia</i> cf. <i>guayacan</i> (Seem.) Hemsl.     | yellow mayflower   | Tl    | 304, 331                      |
| <i>T.</i> cf. <i>rosea</i> (Bertol.) DC.               | mayflower          | Tl    | 470                           |
| <i>Tynanthus</i> sp.                                   |                    | L     |                               |
| <b>BOMBACACEAE</b>                                     |                    |       |                               |
| <i>Ceiba aesculifolia</i>                              |                    | Tl    |                               |
| <i>C. pentandra</i> (L.) Gaertn.                       | ceiba, cotton tree | Tl    | 374                           |
| <i>Ochroma lagopus</i>                                 | balsa, polak       | Tl    |                               |
| <i>Pachira aquatica</i> Aubl.                          | provision tree     | Tl    | 476                           |
| <i>Pseudobombax ellipticum</i> (HBK) Dugand.           | mapola             | Tl    | 106                           |
| <i>Quararibea</i> cf. <i>funnebris</i> (Llave) Vischer | batidos            | Tm    | 508 det. N.B.                 |
| <b>BORAGINACEAE</b>                                    |                    |       |                               |
| <i>Borreria</i> cf. <i>oxyphyllaria</i>                | wild craboo        | Tl    | 509 det. N.B.                 |
| <i>Cordia alliodora</i>                                | salmwood, laurel   | Tl    |                               |
| <i>C. bicolor</i>                                      |                    | Tl    |                               |
| <i>C. sebestena</i>                                    | ziricote           | Tm    |                               |
| <b>BURSERACEAE</b>                                     |                    |       |                               |
| <i>Bursera simaruba</i> L.                             | red gombolimbo     | Tl    | 90*, 365*                     |
| <i>Protium copal</i> (Schlecht. & Cham.) Engler        | copal              | Tm    | 155, 265*                     |
| <i>P.</i> cf. <i>multiramiflorum</i>                   | copal colorado     | Tm    |                               |
| <b>CAPPARIDACEAE</b>                                   |                    |       |                               |
| <i>Forchammeria trifoliata</i>                         | bastard dogwood    | S     |                               |
| <b>CARICACEAE</b>                                      |                    |       |                               |
| <i>Carica papaya</i>                                   | papaya             | Tm    |                               |

| <b>FAMILY</b>  |                           |       |                               |
|--|---------------------------|-------|-------------------------------|
| <i>Scientific name</i> botanical authority                         | Common name               | Form  | Brokaw & Schulze collection # |
| <b>CARICACEAE (continued)</b>                                      |                           |       |                               |
| <i>Jacaratia dolichaula</i>  | Wild pawpaw               | Tm    |                               |
| <b>CELASTRACEAE</b>  |                           |       |                               |
| <i>Crossopetalum gaumeri</i> (Loes.) Lundell                       |                           | S     | 29, 141*, 152, 333*           |
| <b>CHRYSOBALANACEAE</b>  |                           |       |                               |
| <i>Chrysobalanus icaco</i> L.                                      | coco plum                 | Ts, S | 112*, 403                     |
| <i>Hirtella americana</i> L.                                       | pigeon plum               | Tl    | 102, 124, 291*, 310*          |
| <i>H. racemosa</i>   | wild pigeon plum          | Ts    |                               |
| <i>Licania platypus</i>  | monkey apple              | Tl    |                               |
| <b>CLUSIACEAE</b>  |                           |       |                               |
| <i>Calophyllum brasiliense</i> Cambess.                            | santa maria               | Tl    | 294                           |
| <i>Clusia chanekeana</i> Lundell                                   |                           | He    | 218                           |
| <i>Vismia</i> sp.  |                           | Tm    |                               |
| <b>COCHLOSPERMACEAE</b>  |                           |       |                               |
| <i>Cochlospermum vitifolium</i>                                    | wild cotton               | Ts    |                               |
| <b>COMBRETACEAE</b>  |                           |       |                               |
| <i>Bucida buceras</i> L.   | bullet tree               | Tl    | 118                           |
| <i>Combretum</i> cf. <i>laxum</i> Jacq.                            |                           | L     | 241                           |
| <i>Conocarpus erecta</i>   | buttonwood                | Ts    |                               |
| <i>Terminalia amazonia</i> (Gmel.) Exell                           | nargusta                  | Tl    | 293                           |
| <i>T. catappa</i> ♦  | almond                    | Tm    |                               |
| <b>COMPOSITAE</b>  |                           |       |                               |
| <i>Clibadium arboreum</i>  |                           | Ts    |                               |
| <i>Eupatorium albicaule</i>  | old woman's walking stick | Ts    |                               |
| <b>CONVOLVULACEAE</b>  |                           |       |                               |
| <i>Ipomea heterodoxa</i> Standley & Steyerm.                       |                           | L     | 179*                          |
| <i>I. tuxtensis</i> House  |                           | L     | 18*                           |
| <b>DICHAPETALACEAE</b>   |                           |       |                               |
| <i>Dichapetalum donnell-smithii</i> Engler                         | auselín                   | ?     | 429*                          |
| <b>DILLENACEAE</b>   |                           |       |                               |
| <i>Curatella americana</i>   | yaha                      | Ts    |                               |
| <i>Tetracera volubilis</i> L. subsp. <i>mollis</i> (Standley) Kub. |                           | L     | 162*                          |

| <b>FAMILY</b>                                    |                        |       |  |
|--|------------------------|-------|--|
| <i>Scientific name</i> botanical authority       | Common name            | Form  | Brokaw & Schulze collection #                |
| <b>EBENACEAE</b>                                 |                        |       |  |
| <i>Diospyros yatesiana</i> Standl. [Lundell?]    |                        | T     | 85   |
| <b>ERYTHROXYLACEAE</b>                           |                        |       |  |
| <i>Erythroxylum areolatum</i> L.                 | redwood                | Ts    | 116*   |
| <i>E. rotundifolium</i> Lunan                    |                        | S     | 189*, 421*                                   |
| <b>EUPHORBIACEAE</b>                             |                        |       |  |
| <i>Adelia barbinervis</i> Schlect. & Cham.       |                        | Ts    | 468  |
| <i>Alchornea latifolia</i> Sw.                   | fiddlewood             | Tl    | 342  |
| <i>Alchorneopsis</i> sp.?                        |                        |       |  |
| <i>Astrocasia tremula</i> (Griseb.) Webster      |                        | Ts    | 363*   |
| <i>Bernardia interrupta</i>                      | waika ribbon           | T, S  |  |
| <i>Cnidoscolus</i> sp.                           |                        | Ts    |  |
| <i>Croton reflexifolius</i> HBK                  |                        | Ts    | 273*, 398, 399, 400, 426, 432, 436, 437, 438 |
| <i>C.</i> sp.                                    |                        | Ts, S | 183*, 334*, 364*                             |
| <i>Drypetes</i> cf. <i>brownii</i>               | male bullhoof          | Tl    | 490 det. N.B.                                |
| <i>D. lateriflora</i> (Sw.) Krug & Urb.          |                        | Tm    | 53, 157, 306, 317, 439*                      |
| <i>Gymnanthes lucida</i> Sw.                     | false lignum vitae     | Tm    | 134, 292                                     |
| <i>Jatropha curcas</i> L.                        |                        | Ts    | 109  |
| <i>Margaritaria nobilis</i> L.f.                 | clawberry, ramón macho | Tm    | 463, 477                                     |
| <i>Phyllanthus</i> sp.                           |                        | Ts    |  |
| <i>Ricinus communis</i> L. ♦                     | castor oil bean        | S     |  |
| <i>Sapium</i> sp.                                |                        | Tl    |  |
| <b>FAGACEAE</b>                                  |                        |       |  |
| <i>Quercus oleoides</i> Schlect. & Cham.         | oak                    | Tl    | 276*   |
| <b>FLACOURTIACEAE</b>                            |                        |       |  |
| <i>Casearia corymbosa</i> Kunth                  | paletillo              | Tm    | 47, 348*, 383, 469*                          |
| <i>C. sylvestris</i> Sw.                         | wild sage              | T     | 285  |
| <i>Hasseltiopsis dioica</i>                      |                        | T     |  |
| <i>Laetia thamnia</i> L.                         |                        | Tm    | 52, 66*, 329*                                |
| <i>Zuelania guidonia</i> (Sw.) Britton & Millsp. | water wood             | Tl    | 120  |

| <b>FAMILY</b>                                       |                      |       |                               |
|---|----------------------|-------|-------------------------------|
| <i>Scientific name</i> botanical authority          | Common name          | Form  | Brokaw & Schulze collection # |
| <b>GENTIANACEAE</b>                                 |                      |       |                               |
| <i>Lisianthus axillaris</i> Hemsl.                  |                      | S     | 111*                          |
| <i>Voyria</i> sp.                                   |                      | H     | 262*                          |
| <b>HIPPOCRATEACEAE</b>                              |                      |       |                               |
| <i>Hemiangium excelsum</i>                          |                      | Tm    |                               |
| <b>LACISTEMATAACEAE</b>                             |                      |       |                               |
| <i>Lacistema aggregatum</i> (Berg.) Rusby           | palo mulato          | Tm    | 266*                          |
| <b>LAURACEAE</b>                                    |                      |       |                               |
| cf. <i>Licaria peckii</i> (Lundell) Kosterman       | timbersweet          | Tl    | 129                           |
| <i>Nectandra coriacea</i>                           |                      | T     |                               |
| <i>N. martinicensis</i> Mez                         |                      | T     | 229                           |
| <i>N. salicifolia</i>                               |                      | Tm    |                               |
| <b>LEGUMINOSAE</b>                                  |                      |       |                               |
| <b>Caesalpinioideae</b>                             |                      |       |                               |
| <i>Bauhinia</i> sp.                                 | cowfoot              | Ts    |                               |
| <i>Caesalpinia gaumeri</i>                          | warree wood          | Tl    |                               |
| <i>C. recordii</i>                                  | bastard billy webb   | Tm    |                               |
| <i>Cassia grandis</i>                               | bookut, stinking toe | Tl    |                               |
| <i>Haematoxylum campechianum</i>                    | logwood              | Tm    |                               |
| <i>Schizolobium parahybum</i>                       | quamwood             | Tl    |                               |
| <i>Swartzia</i> cf. <i>cubensis</i>                 | bastard rosewood     | Tl    | 492 det. N.B.                 |
| <b>Mimosoideae</b>                                  |                      |       |                               |
| <i>Acacia collinsii</i> Saff.                       | cockspur, ant thorn  | Tm    | 43                            |
| <i>A. dolichostachya</i>                            |                      | T     |                               |
| <i>A. glomerosa</i> Benth.                          | white tamarind       | Tl    | 123*, 164, 467, 473, 483      |
| <i>Calliandra belizensis</i> (Standley) Standley    |                      | Ts, S | 136*, 169*, 440*              |
| <i>C. calothyrsis</i> Meiss.                        |                      | S?    | 75                            |
| <i>C. emarginata</i> (Humb. & Bonpl.) Benth.        |                      | S?    | 186, 191, 422, 444            |
| <i>Cojoba arborea</i> (L.) Britton & Rose           | barba jolote         | Tl    | 216                           |
| <i>C. graciliflora</i> (S. F. Blake) Britton & Rose |                      | Ts    | 277*                          |
| <i>Dialium guianense</i>                            |                      | T     |                               |
| <i>Enterolobium cyclocarpum</i>                     | tubroos, guanacaste  | Tl    |                               |
| <i>Inga vera</i> Willd.                             | guamo, bribri        | Tm    | 460*                          |
| <i>I.</i> sp.                                       |                      |       |                               |
| <i>Lysiloma bahamense</i>                           | salom                | Tl    |                               |
| (Mimosoideae continued)                             |                      |       |                               |



| <b>FAMILY</b>   |                      |      |                               |
|---|----------------------|------|-------------------------------|
| <i>Scientific name</i> botanical authority                      | Common name          | Form | Brokaw & Schulze collection # |
| <b>Mimosoideae (continued)</b>                                  |                      |      |                               |
| <i>Pithecellobium albicans</i> (Kunth) Benth.                   |                      | T    | 256*, 350, 361, 459, 465      |
| <i>P. insignis</i> Micheli                                      |                      | T    | 458                           |
| <i>P. leucocalyx</i>  | guacibán             | Tl   |                               |
| <i>Zapoteca formosa</i> (Kunth.) H. Hern. subsp. <i>formosa</i> |                      | L    | 64                            |
| <i>Zygia peckii</i> (Rob.) Britton & Rose                       |                      | Ts   | 289*                          |
| <i>Z. stevensonii</i> (Standley) Record                         | león                 | Ts   | 107*                          |
| <b>Papilionoideae</b>   |                      |      |                               |
| <i>Acosmium panamemse</i>                                       | billy webb           | Tl   |                               |
| <i>Andira inermis</i>   | cabbage bark         | T    |                               |
| <i>Dalbergia</i> sp.  |                      | L    |                               |
| <i>Erythrina folkersii</i>                                      | coral tree           | Ts   |                               |
| <i>Gliricidia sepium</i> (Jacq.) Walp.                          | madre cacao          | Tm   | 144                           |
| <i>Lonchocarpus castilloi</i>                                   | black cabbage bark   | Tl   |                               |
| <i>L. guatemalensis</i>   | dogwood, turtle bone | Tl   |                               |
| <i>L. rugosus</i>   | black cabbage bark   | Tl   |                               |
| <i>L.</i> sp.   |                      |      |                               |
| <i>Myroxylon balsamum</i>                                       | balsam of Peru       | Tl   |                               |
| <i>Ormosia</i> sp.  | hormigo              | Tl   |                               |
| <i>Piscidia piscipula</i>                                       | may bush, jabín      | Tm   |                               |
| <i>Platymiscium yucatanum</i>                                   | granadillo           | Tl   |                               |
| <i>Pterocarpus</i> cf. <i>hayesii</i>                           | mountain kaway       | Tl   | 510 det. N.B.                 |
| <i>Vatairea lundellii</i>                                       | bitter wood          | Tl   |                               |
| <b>LILIACEAE</b>  |                      |      |                               |
| <i>Dracaena americana</i> J. D. Smith                           | candle wood          | Tm   | 138*                          |
| <b>LOGANIACEAE</b>  |                      |      |                               |
| <i>Strychnos panamensis</i> Seeman                              |                      | L    | 37*                           |
| <b>LORANTHACEAE</b>   |                      |      |                               |
| <i>Phoradendron</i> sp.   | (parasitic epiphyte) | S    | 117*                          |
| <i>Psittacanthus calyculatus</i> (DC.) Don                      | (parasitic epiphyte) | S    | 247*                          |
| <b>MALPIGHIACEAE</b>  |                      |      |                               |
| <i>Bunchosia</i> sp.  |                      | T    |                               |
| <i>Byrsonima bucidaefolia</i>                                   | crabboo              | T    |                               |
| <i>B. crassifolia</i>   | crabboo              | Tm   |                               |

| <b>FAMILY</b>                                       |                           |        |                               |
|---|---------------------------|--------|-------------------------------|
| <i>Scientific name</i> botanical authority          | Common name               | Form   | Brokaw & Schulze collection # |
| <b>MALVACEAE</b>                                    |                           |        |                               |
| <i>Hampea stipitata</i> S. Wats.                    | moho                      | Tm     | 27*                           |
| <i>Malviscus arboreus</i> Cav.                      |                           | S      | 11*                           |
| <b>MELASTOMATACEAE</b>                              |                           |        |                               |
| <i>Clidemia octona</i> (Bonpl.) L. O. Wms           |                           | S      | 62*                           |
| <i>Miconia argentea</i> (Sw.) DC.                   | white maya                | Tm     | 323*                          |
| <i>M. impetolaris</i>                               | maya                      | Ts     |                               |
| <i>M. longifolia</i> (Aubl.) DC.                    |                           | T      | 209                           |
| <i>Mouriri myrtilloides</i>                         | jug, half crown           | Tm     |                               |
| <b>MELIACEAE</b>                                    |                           |        |                               |
| <i>Cedrela mexicana</i> L.                          | cedar, Spanish cedar      | Tl     | 340*                          |
| <i>Guarea glabra</i> Vahl                           | cramantee                 | Tm     | 314*, 354*                    |
| <i>G. grandifolia</i>                               | wild akee                 | Tl     |                               |
| <i>Melia azedarach</i> ♦                            | paradise tree             | T      |                               |
| <i>Swietenia macrophylla</i> King                   | mahogany, caoba           | Tl     | 296*, 345                     |
| <i>Trichilia havanensis</i> Jacq.                   | bastard lime              | Tm     | 234                           |
| <i>T. minutiflora</i> Standley                      | wild lime                 | Tm     | 39                            |
| <i>T. pallida</i> Sw.                               | carbón del río            | Tm     | 44*                           |
| <b>MENISPERMACEAE</b>                               |                           |        |                               |
| <i>Hyperbaena winzerlingii</i> Standley             |                           | Ts     | 193                           |
| <b>MORACEAE</b>                                     |                           |        |                               |
| <i>Brosimum alicastrum</i> Sw.                      | ramón, breadnut           | Tl     | 40, 379*                      |
| <i>Castilla elastica</i> Sessé                      | wild rubber               | Tl     | 100                           |
| <i>Cecropia peltata</i> L.                          | trumpet, guarumo          | Tm     | 82*, 370*                     |
| <i>Coussapoa</i> sp.                                |                           | He, Tl | 210                           |
| <i>Dorstenia</i> cf. <i>contrajerva</i> L.          |                           | H      | 451*                          |
| <i>Ficus americana</i> Aubl.                        | fig                       | He     | 384                           |
| <i>F. insipida</i> Willd.                           | fig, amate                | Tl     | 356                           |
| <i>F. maxima</i> Miller                             |                           | Tl     | 33, 34*, 214*, 455, 478       |
| <i>F.</i> cf. <i>padifolia</i>                      |                           | St     |                               |
| <i>F.</i> cf. <i>popenoei</i>                       |                           | St     |                               |
| <i>F.</i> spp.                                      | fig                       | T, St  | 208, 302*, 372, 386           |
| <i>Maclura tinctoria</i> (L.) Steudel               | fustic                    | Tl     | 450                           |
| <i>Pseudolmedia</i> cf. <i>spuria</i> (Sw.) Griseb. | cherry                    | Tm     | 131                           |
| <i>Trophis racemosa</i> (L.) Urb.                   | red breadnut, white ramón | Tm     | 385                           |

| <b>FAMILY</b>   |                             |       |                               |
|---|-----------------------------|-------|-------------------------------|
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| <b>MYRICACEAE</b>   |                             |       |                               |
| <i>Myrica cerifera</i> L.   | tea bark                    | Ts, S | 272*                          |
| <b>MYRSINACEAE</b>  |                             |       |                               |
| <i>Ardisia cf. compressa</i> HBK  | male blossom berry<br>grape | Ts    | 19*, 113*, 337*,<br>431       |
| <i>Rapanea</i> sp.  |                             | S     |                               |
| <b>MYRTACEAE</b>  |                             |       |                               |
| <i>Calypttranthes cf. chytraculia</i>   |                             | S, Ts | 511 det. N.B.                 |
| <i>C. karlingii</i> Standl.   |                             | S     | 253                           |
| <i>Eucalyptus</i> sp. ♦   |                             | Tl    |                               |
| <i>Eugenia rhombea</i>  |                             | S     |                               |
| <i>Myrciaria floribunda</i>   |                             |       |                               |
| <i>Pimenta dioica</i>   | allspice                    | Tl    | 498 det. N.B.                 |
| <b>NYCTAGINACEAE</b>  |                             |       |                               |
| <i>Neea psychotrioides</i> J. D. Smith  |                             | Ts    | 8*, 150, 237*,<br>279*, 290   |
| <b>OCHNACEAE</b>  |                             |       |                               |
| <i>Ouratea lucens</i> (HBK) Engler  |                             | Ts    | 261*                          |
| <i>O. nitida</i> (Sw.) Engler   | bastard blossom<br>berries  | Ts, S | 114*, 446*                    |
| <b>OLACACEAE</b>  |                             |       |                               |
| <i>Schoepfia schreberi</i> J. F. Gmel.  |                             | Ts    | 187, 188, 441                 |
| <b>PALMAE</b> (names in brackets are from recent taxonomy of Henderson et al. 1995) |                             |       |                               |
| <i>Acoelorrhaphe wrightii</i> (H. Wendl.)<br>Beccari                                | palmetto                    | Tm    | 271*                          |
| [ <i>Acrocomia aculeata</i> ]   |                             | Tm    |                               |
| <i>Bactris major</i>  | porknoboy                   | Tm    |                               |
| <i>B. mexicana</i> Mart. (including <i>B.</i><br><i>trichophylla</i> Burret)        | porknoboy                   | Tm    | 180*                          |
| <i>Chamaedorea</i> sp.  | xate                        | Ts    | 26*, 80                       |
| <i>Cocos nucifera</i> ♦   | coconut                     | Tl    |                               |
| <i>Cryosophila argentea</i> H. Bartlett<br>[ <i>Cryosophila stauracantha</i> ]      | give-and-take               | Tm    | 225, 226*                     |
| <i>Desmoncus orthacanthos</i>   | basket tie-tie              | L     |                               |
| <i>Gaussia maya</i> (Cook) Quero & Reed   |                             | Tm    | 319*                          |

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| <b>PALMAE</b> (continued; names in brackets are from recent palm taxonomy of Henderson et al. 1995)            |                          |       |                               |
| <i>Orbignya cohune</i> (Mart.) Dahlgren<br>("probably", specimen inadequate, MBG)<br>[ <i>Attalea cohune</i> ] | cohune                   | Tl    | 487                           |
| <i>Roystonea oleracea</i> [ <i>R. regia</i> ]  | royal palm               | Tl    |                               |
| <i>Sabal mauritiiiformis</i> (Karst.) Griseb. & H. Wendl. ("probably", specimen inadequate)                    | botán palm, bayleaf palm | Tl    | 486                           |
| <b>PHYTOLACCACEAE</b>  |                          |       |                               |
| <i>Achatocarpus nigricans</i> Triana   |                          | Ts    | 50, 351, 352                  |
| <i>Rivina humilis</i> L.   |                          | L     | 86*                           |
| <b>PINACEAE</b>  |                          |       |                               |
| <i>Pinus caribaea</i>  | Caribbean pine           | Tl    |                               |
| <b>PIPERACEAE</b>  |                          |       |                               |
| <i>Piper aduncum</i>   | Spanish elder            | Ts    |                               |
| <i>P. auritum</i>  | cowfoot, bullhoof        | Ts    |                               |
| <i>P. jacquemontianum</i> Kunth  |                          | S     | 23*, 430*                     |
| <i>P. marginatum</i> Jacq.   |                          | S     | 55*                           |
| <i>P. pseudo-puligeneum</i> C. DC.   |                          | S     | 56*                           |
| <i>P. psilorrhachis</i> C. DC.   | Spanish elder            | S     | 63*                           |
| <i>P. yucatanense</i> C. DC.   |                          | S     | 22*, 278*                     |
| <i>P. sp.</i>  |                          | S     | 202                           |
| <b>POLYGONACEAE</b>  |                          |       |                               |
| <i>Coccoloba acapulcensis</i>  |                          | Tm    |                               |
| <i>C. belizensis</i> Standley  | wild grape               | Tl    | 353*                          |
| <i>C. cozumelensis</i> Hemsl.  | wild grape               | Tm    | 163*, 309, 449                |
| <i>C. cf. mayana</i> Lundell   |                          | T     | 172*                          |
| <i>C. reflexiflora</i> Standley  |                          | Ts, S | 394                           |
| <i>Gymnopodium floribundum</i> Rolfe   | bastard logwood          | Ts, S | 190, 280*                     |
| <i>Neomillspaughia paniculata</i> (J. D. Smith) Blake  |                          | L     | 83*                           |
| <b>PROTEACEAE</b>  |                          |       |                               |
| <i>Roupala montana</i> Aubl. ("probably", MBG)   |                          | Ts    | 258                           |

| <b>FAMILY</b>                                   |                         |      |   |
|---|-------------------------|------|---|
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| <b>RHAMNACEAE</b>                               |                         |      |   |
| <i>Colubrina cf. ferruginosa</i> Brogn.         |                         | T    | 390*  |
| <i>Gouania polygama</i> (Jacq.) Urb.            |                         | L    | 122*, 194*  |
| <i>Krugiodendron ferreum</i> (Vahl) Urb.        | axemaster,<br>quebracho | Tl   | 479   |
| <b>RHIZOPHORACEAE</b>                           |                         |      |   |
| <i>Cassipourea cf. guianensis</i> Aubl.         | water wood              | Tm   | 156*, 165   |
| <i>Rhizophora mangle</i>                        | red mangrove            | S    |   |
| <b>RUBIACEAE</b>                                |                         |      |   |
| <i>Alibertia edulis</i> (L. Rich.) A. Rich      | wild guava              | Ts   | 9*  |
| <i>Alseis yucatanensis</i> Standley             | wild mammee             | Tl   | 36*   |
| <i>Amaioua corymbosa</i> HBK                    |                         | Ts?  | 93*   |
| <i>Appunia guatemalensis</i> J. D. Smith        |                         | L    | 58*   |
| <i>Cephaelis</i> sp.                            |                         |      |   |
| <i>Chomelia protracta</i> (Bartl.) Standley     |                         | S    | 254*  |
| <i>Cosmocalyx spectabilis</i> Standley          |                         | Tl   | 232*, 330   |
| <i>Coutarea hexandra</i> (Jacq.) K. Schum.      |                         | T    | 349, 371, 454,<br>456, 457                          |
| <i>Faramea occidentalis</i> (L.) Rich.          |                         | Ts   | 251*  |
| <i>Genipa americana</i>                         |                         | Tl   |   |
| <i>Geophila repens</i> (L.) I. M. Johnst.       |                         | H    | 4*  |
| <i>Guettarda combsii</i> Urb.                   | glassy wood             | Tl   | 97*   |
| <i>G. elliptica</i> Sw.                         | prickle wood            | T    | 406, 464  |
| <i>G. macrosperma</i> J. D. Smith               |                         | ?T   | 5*  |
| <i>Hamelia patens</i> Jacq.                     |                         | S    | 20, 25*   |
| <i>Psychotria chiapensis</i> Standley           | cassada, white wood     | T    | 287, 346*, 355*                                     |
| <i>P. costivenia</i> Griseb.                    |                         | S    | 12*, 21*, 59*,<br>67*, 70*, 215,<br>283, 315*, 325* |
| <i>P. domingensis</i> Jacq.                     |                         | S    | 32*   |
| <i>P. fruticetorum</i> Standley                 |                         | S    | 184*, 255, 312,<br>313*                             |
| <i>P. horizontalis</i> Sw.                      |                         | S    | 13*, 475*   |
| <i>P. pubescens</i> Sw.                         |                         | S    | 30, 71*, 108,<br>239*, 248*, 275*                   |
| <i>P. tenuifolia</i> Sw.                        |                         | S    | 14*   |
| <i>Randia aculeatea</i> L.                      |                         | S    | 89*, 143, 185*,<br>324*, 417, 442,<br>445           |
| <i>Simira salvadorensis</i> (Standley) Steyerm. | john crow redwood       | Tl   | 196*  |

| <b>FAMILY</b>  |                         |          |                               |
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| <b>RUTACEAE</b>  |                         |          |                               |
| <i>Amyris balsamifera</i> L.   |                         | Tm       | 433*                          |
| <i>Citrus</i> sp. ♦  | citrus                  | Tm       |                               |
| <i>Zanthoxylum</i> cf. <i>belizense</i>  | prickly yellow          | Tl       |                               |
| <i>Z. caribaeum</i> Lam.   | bastard prickly yellow  | Tm       | 453                           |
| <i>Z. juniperinum</i> Poepp.   | black prickly yellow    | Tl       | 341                           |
| <i>Z.</i> sp.  |                         | Tl       |                               |
| <b>SAPINDACEAE</b>   |                         |          |                               |
| <i>Allophylus cominia</i> (L.) Sw.   | cherry, huesillo        | Tm or Ts | 17*                           |
| <i>Blomia prisca</i> (Standley) Lundell  |                         | Tl       | 99, 301*, 316, 380*, 484      |
| <i>Cupania belizensis</i> Standley   | bastard grand betty     | Tm       | 171, 321*                     |
| <i>C. rufescens</i>  | white grande betty      | Tm       |                               |
| <i>Exothea diphylla</i>  | uayamcox                | Tm       |                               |
| <i>E. paniculata</i>   |                         | T        |                               |
| <i>Matayba apetala</i> (Madfad.) Radlk.  | boyjob                  | Tl       | 320*                          |
| <i>Paullinia cururu</i> L.   |                         | L        | 7*                            |
| <i>Sapindus saponaria</i>  | soap-seed tree          | Tl       |                               |
| <i>Talisia oliviformis</i> (Kunth) Radlk.  |                         | Tl       | 174, 176                      |
| <i>T. floresii</i> Standley  |                         | T        | 219                           |
| <i>Thouinia paucidentata</i> Radkl.  |                         | Tm       | 125*                          |
| <b>SAPOTACEAE</b>  |                         |          |                               |
| <i>Chrysophyllum mexicanum</i> Brandege ex Standley  | wild star apple         | Tm       | 24*, 269*                     |
| <i>Dipholis salicifolia</i>  | cháchiga, mijico        | Tl       |                               |
| <i>Manilkara zapota</i> L.   | sapodilla, sapote       | Tl       | 130*                          |
| <i>M. chicle</i>   | chiquebul, chicle macho | Tl       |                               |
| <i>Mastichodendron belizense</i>   | cream tree              | Tl       |                               |
| <i>Pouteria</i> cf. <i>amygdalina</i> (Standley) Baehni  | silión                  | Tl       | 42, 205, 252*                 |
| <i>P. campechiana</i> (HBK) Baehni   | mammee ciruela          | T        | 308*, 381                     |
| <i>P. durlandii</i> (Standley) Baehni  | mammee cerera           | Tm       | 126*, 233                     |
| <i>P.</i> cf. <i>sapota</i> (Jacq.) Moore & Stearn or <i>P.</i> cf. <i>mammosa</i> (L.) Cronq. | mammee apple            | Tl       | 101, 132, 360                 |
| <i>P. reticulata</i> (Engler) Eyma   | zapotillo               | Tl       | 305, 369*                     |

| <b>FAMILY</b>                                   |                          |      |                               |
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| <b>SIMAROUBACEAE</b>                            |                          |      |                               |
| <i>Simarouba</i> cf. <i>amara</i> Aubl.         | negrito                  | Tl   | 139, 358                      |
| <i>Picramnia antidesma</i> Sw.                  |                          | Ts   | 146, 245*                     |
| <b>SOLANACEAE</b>                               |                          |      |                               |
| <i>Cestrum racemosum</i> Ruiz & Pavon           | night bloom              | Tm   | 376                           |
| <i>Solanum nudum</i> Kunth.                     |                          | S    | 31*                           |
| <i>S. rugosum</i>                               |                          | Ts   |                               |
| <b>STERCULIACEAE</b>                            |                          |      |                               |
| <i>Byttneria aculeata</i> Jacq.                 |                          | L    | 121*                          |
| <i>Guazuma ulmifolia</i> Lam.                   | bay cedar, bastard cedar | Tm   | 462                           |
| <i>Theobroma cacao</i> ♦                        | cacao                    | Ts   |                               |
| <b>THEACEAE</b>                                 |                          |      |                               |
| <i>Ternstroemia tepezapote</i> Schlect. & Cham. | river craboo             | Tl   | 434*                          |
| <b>THEOPHRASTACEAE</b>                          |                          |      |                               |
| <i>Jacquinia macrocarpa</i> Cav.                | knock-me-back            | S    | 28*, 366*, 435                |
| <b>TILIACEAE</b>                                |                          |      |                               |
| <i>Trichospermum campbellii</i>                 | moho, mahao              | Tl   |                               |
| <i>Heliocarpus donnell-smithii</i>              | broadleaf moho           | Tl   |                               |
| <i>Luehea seemannii</i>                         | caulote                  | Tl   |                               |
| <i>L. speciosa</i> Willd.                       | caulote, mountain moho   | Tm   | 65*, 220*                     |
| <b>TURNERACEAE</b>                              |                          |      |                               |
| <i>Turnera aromatica</i> Arbo                   |                          | S    | 212*                          |
| <b>ULMACEAE</b>                                 |                          |      |                               |
| <i>Ampelocera hottlei</i> (Standley) Standley   | female bullhoof          | Tl   | 41, 264*                      |
| <i>Celtis iguanea</i> (Jacq.) Sarg.             | muc                      | L    | 514 (det. N. B.)              |
| <i>Trema micrantha</i> (L.) Blume               | capulín                  | Tm   | 96*                           |
| <b>URTICACEAE</b>                               |                          |      |                               |
| <i>Urera baccifera</i>                          | cow itch                 | H, S |                               |

| <b>FAMILY</b>  |                     |          |                               |
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| <b>VERBENACEAE</b>   |                     |          |                               |
| <i>Aegiphila monstrosa</i> Moldenke  | vara blanca         | S        | 297*                          |
| <i>Callicarpa acuminata</i>  | pukin               |          |                               |
| <i>Gmelina arborea</i> ♦   |                     | Tm       |                               |
| <i>Rehdera penninervia</i> Standley ex Moldenke                                    | hinge hinge         | Tl       | 94, 228*, 230                 |
| <i>Tectona grandis</i> ♦   | teak                | Tl       |                               |
| <i>Stachytarpheta miniacea</i> Moldenke  |                     | S        | 223*                          |
| <i>Vitex gaumeri</i> Greenm.   | fiddlewood, yashnik | Tl       | 119                           |
| <b>VITACEAE</b>  |                     |          |                               |
| <i>Cissus verticilata</i> (L.) Nicolson & Jarvis (includes <i>C. sicyoides</i> L.) |                     | L        | 3*                            |
| <b>VIOLACEAE</b>   |                     |          |                               |
| <i>Orthion malpighiifolium</i>   |                     | S        |                               |
| <i>Rinorea guatemalensis</i> (Wats.) Bartl.  | wild coffee         | Ts or Tm | 104, 128*, 282*               |
| <i>R. hummelii</i>   | wild coffee         | T        |                               |
| <b>VOCHYSIACEAE</b>  |                     |          |                               |
| <i>Vochysia hondurensis</i>  | yemeri              | Tl       |                               |

\*Specimen deposited at the Missouri Botanical Garden Herbarium

♦ Exotic species