

Plowman et al.

8050 - 8599

RECORD

CAPT
BOT
Plowman
017

Begin 800

**TIMOTHY PLOWMAN
BOTANY DEPARTMENT
FIELD MUSEUM OF NATURAL HISTORY,
CHICAGO, ILLINOIS 60605**

VERNON McMILLAN Inc.



ACCOUNT BOOKS

144 PAGES • 7 $\frac{7}{8}$ IN. x 5 $\frac{1}{4}$ IN. (20 cm x 13.4 cm)

AVAILABLE AS:

No. 64-5400 (2044-J)	JOURNAL
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VERNON McMILLAN, Inc., ELIZABETH, N.J. 07208

ECUADOR: PROV. PICHINCHA.

Road from Aloag to Tandapi,
23 km. west of Aloag, alt. 2750 m.
30 Nov. 1979. Wet cloud forest.

8000. Bomarea

(2)

F
QCA

Herbaceous vine in roadside
thicket. Calyx grey-green. Tepals
deep orange abaxially, yellow orange
adaxially, with reddish spots.

8001. Elaphoglossum

(2)

F
QCA

Herb on road bank.

8002. Munozia senecionidis Benth. Comp.

(2)

F
QCA

det. M.O. Dillon 1980.
Scandent herb 1.5 m. in open
thicket. Fls. yellow-orange.

8003. Cavendishia bracteata (R. + P.) Hier. Ericac.

(3)

F
NY
QCA

det. J. Luteyn 1980.
Shrub on steep roadbank. Stems red-
purple. ^{bracts} Calyx lt. green. Corolla red, greenish
tipped. Berries purple-black.

NOV 3 0 1979

Urtic.

8004. Pilea

(3)

F
U
QCA

stem square, lt-green. Nodes & petiole red-purple. Fls. purplish.

→ Eupatorium (Aristeguietia) lamifolium
det. G.L. Turner 82

8005. Hebeclinium guapulense (Klatt)

(2)

F
QCA

K&R.

Herb on steep bank, 1-2 m. tall. Fls. pale blue-violet. det. M.O. Dillon 1980.

8006.

Melast.

(3)

F
QCA

Shrub 2.3 m. tall. Petioles & twigs purple. Rachis lt. green. Hypanthium white. Calyx rose. Petals white.

8007. Macleania cf. rupestris (HBK.)

A.C. Smith

Ericac.

(2)

F
QCA

Coarse ~~the~~ scandent shrub 1.5 m. on steep bank. Lvs. thick coriaceous, shiny. Fls. purple-black.

det. Luteyn 1982

(Steumer) Steumer
NOV 30 1979

Diogenesia amplexans

8008. ~~Thamnostictis~~ det. J. I. Luteyn Ericac.
1980.

(2)

F
QCA
Shrub. 1 m. tall. Lvs. coriaceous,
shiny, ~~to~~ light green, midrib
red beneath. Pedicels red.
Calyx dark green. Corolla white.
Berries white.

8009. Epidendrum gastropodium Rehb. f. Orchid.

F
QCA
SEL
(3)

Herb on steep road ~~side~~ bank.
Fls. magenta. det. Ch. Dodson 1982.

8010. Fuchsia

F
QCA
(1)

Weak-scandent shrub in
roadside thicket. Hypanthium + sepals
light red. Petals deep carmine red.

~~8011~~
8011. Equisetum bogotense HBK.

F
QCA
(4)

Vine creeping in roadside
thickets. det. R. G. Stolze 1983.

8012. Weinmannia

F
QCA
(2)

Shrub 1.2 m. tall on open
roadbank. Sepals green. Stems
crean.

NOV 30 1979

8013. Solanum

F
QCA
SEL (3)

Roadside herb to 1 m. tall.
Stems purple-black. Corolla white.
Anthers deep yellow. Fks. green.

8014. Cestrum?

Solanac.

F (2)
QCA

Treelet 3 m. on roadside.
Sterile.

8015.

Hepatic.

F (2)
QCA

Liverwort on steep open
roadbank.

ECUADOR: Prov. Pichincha.

Quito. f Dec 1979

8016. Ischroma fuchsoides

Solanac.

F (4)
QCA

Cult. treelet 3 m. tall.
Fls. light red.

Cult. Lyon Arb.
PTBG.
Waima

DEC 7 1979

Ecuador: Prov. Pichincha

7 Dec 1979 Quito.

CHIONANTHUS PUBESCENS KUNTH 1994

8017. Linociera pubescens (HBK.) Eichler Oleac.

(1) Tree 5 m tall cult. at
Univerisidad Católica. Petals
rosy pink. det. T. Plowman 1980.

8018. Anthurium Solanec.

(4)

F
MO
SEL
GB

Potted plant purchased on the
street, Quito, dug from wild.
Petiole terete, verruculose,
dark red purple to greenish
brown. lf. blade shiny, dark
green above, somewhat bullate,
veins pale red, rounded in
section; light shiny green beneath
veins red. Peduncle terete,
dark red. spathe erect, ~~red~~
coppery red-brown, Spadix
nodding, atropurpureous.

Rhizomes = El Al
U Ch.

MIAMI, FLORIDA.

CULT. 13 Dec 1979.

8019. Bumelia latifolia (Pohl) D. Don
(2)

F Shrub 1 m. Fls. light violet
P white at throat white abaxially.
turning white.

8020. Bumelia portoricensis Kr. + Urb.
(1)

F Shrub 1 m tall. Lvs. coriaceous,
dull, dark green above, yellow-
green beneath. Calyx light
fotos. green, shiny. Corolla creamy
white throughout. Mildly fragrant
in evening.

8021. Epiphyllum caudatum Britt. + Rose Cactac.

(1) Epiphytic climber. Petals
F rose outside, white within.
Cult. A. Fernandez det. M. Nee 1982.

8022. Tochroma cyaneum

(2)

F Cult. Shrub 1.5 m. Fls. blue
violet. Coll. Ecuador: Prov. Azuay.
P + D _ _ .

DEC 13 1979

8023. Erythroxylum ulsei O.E. Schulz

(2)

F
COL Spreading shrub with flat
branching + distichous leaves.
Fls. cream to greenish white.
Selfs! Ex 4184. Colombia.
Planted Oct 78.

8024. Erythroxylum [williamsii Standl. ex Planch]

(2)

F Cult. shrub .8 m tall with long,
virgate branches, planted in shade.
Sterile. Ex Pl. 7756. Venezuela.

8025. Erythroxylum fimbriatum Peyr.

F (1)

foto Cult. shrub .6 m. tall. Lvs. shiny
above, undulate margins.
Ex Pl. 7573. Peru, Tingo Maria. July 78.

8026. Brouffesia

(1)

Solanac.

F Virgate shrub 1.5 m. Lvs. shiny dark
green above, pale green beneath. Fl.
white.

B. americana 3378 x B. lactea 3385!

DEC 13 1979

8027. Erythroxylum coca Lam.

(1)

F

Shade-grown shrub 1 m. tall.
Sterile [Ex 5179: progeny ex
Harvard Forest.]

Grown from seed from Ayapata, Bolivia.
(Ex Plowman + Davis 5179).

8028. Cannabis sativa L.

(3)

F

Shrub 2 m. tall; aromatic.
Fls. greenish.

8029. Erythroxylum coca Lam.

(2)

F

P

Shrub 1 m. tall, shade grown.
[Ex 4711 progeny ex Harvard
Forest.] Grown from seed from Rio
Apurimac, San Francisco, Peru (Plowman
4711).

8030. Erythroxylum coca Lam.

(1)

F

Sun grown shrub 1.5 m. tall.
Buds yellowish. FR. green.
Ex 4711 progeny.

8031. Erythroxylum haughtii gentner
 (2)
 F Eret shrub 1 m. tall. Lvs.
 COL dark green, dull; pale green
 beneath; sterile
 Stipules black.
8032. Erythroxylum coca var. ipadu Plowman
 (1)
 F Eret shrub 1 m. tall; lvs.
 mostly at apex. Shade grown.
 Ex 6663.
8033. Passiflora manicata (Juss.) Pers. Passiflorac.
 (1)
 F det. P. Matekaitis 1982.
 Cult. Herbaceous vine. Fls. red.
 Ex Plowman & Ozuis 4589.
 (A) K Ecuador: Prov. Azuay.
 grown from seed.
8034. Rechmea chantini
 (1)
 F Rosette epiphyte. Bracts
 pink. FRs. whitish

DEC 13 1979

8035. Erythroxylum nongranatense
(2) (Morris) Hieron.

F Shrub 2.5 m. tall. Lvs.
P medium green, dull, pale
green beneath. Fls. orange,
Styl 1 cm. long.

Chicago, Illinois.
25 Dec. 1979.

8036. Solandra
(2)

Solanec.

→ F(2) Cult. scandent shrub
1 m. tall. Corolla ^{creamy} white,
turning yellow with age,
nectar guide purple,
with a fragrant only in
early evening.

8037. Solvia divinorum

(1) 8 Jan 1980.

F Cult herb 70 cm. Flower
pale blue with white.

8038. Ruellia

(1) Cult. shrub 70 cm. Corolla

F red. From Fairchild Trop. Garden.

JAN 17 1980

BRAZIL: Estado Pará. Environs of Belém. EMBRAPA (formerly I.A.N.) Reserva Mocambo. Estrada do Cafezal, margem esquerda.

Caminho a Mocambo, margem esquerdo, Capoeira, 70 m. da Estrada. ^{Approx} 1°28'S, 48°29'W

17 Jan 1980.

Collectors: T. Plowman, E. Oliveira, N.A. Rosa.

8050. Brunfelsia aff. mire Monachino/Solanec.
(9) see separate label

Erect sparsely branched diminutive shrub 30-80 cm tall in secondary forest. Lvs. crowded at intervals

along stem at crowded solely at apex, dark dull green above, pale dull green beneath. Calyx white or with faint violet tinge, lobes recurving at anthesis. Corolla

green in bud, incurved, ^{light} ~~straight~~ ^{tube} nearly white at anthesis; limb violet fading to pale violet with age, with a pure white pentagonal spot at mouth, 9 mm. across. Fruits shiny, dark green, pubglobose.

Only one small colony found.

Fotos.
F

JAN 17 1980

Flowers fragrant during the day.

Solanac.

8051. Brumfelsia guianensis Benth.
det. T. Plowman 1980.

live: Lyon

F
GH

Slender shrubs 7 m. tall in forest understory, at Quadrant 9-14. Single stem to 1 cm diameter near base, bark somewhat cracked longitudinally. Lvs. plane, dull dark green above, lighter dull green beneath. Sterile. n.v. manaco.

Solanac.

8052. Brumfelsia guianensis Benth.
(11) det. T. Plowman 1980.

Treelet 4 m. tall in edge

photos. of cepeira along Mocambo forest road in partial sun. Trunks several, to 3 cm. diameter. Lvs. ascending with arching laminae, dark somewhat shiny above, lighter green, less shiny beneath; leaves

JAN 17 1980

brittle, especially at attachment.
Sterile.

n.v. manacá.

8053. Periana

Gram.

(4)

Tall grass to 2 m. in roadside thicket at margin of capoeira. Spikes terminal, nodding.

20 Jan 1980. COLL. T. Plowman

PARA: Belém. "Bosque Municipal".

1°27'S, 48°29'W

8054. Pirenia goeldii Swallen

Gram.

(3)

fotos.

Capitose grass in heavily disturbed woodland park. Culms arching. Caryopsis mottled. det Davidse 1980.

21 Jan 1980.

1°27'S, 48°29'W

PARA: Belém. Museu Goeldi. Jardim

Botânico. Coll. T. Plowman

8055. Erythroxylum Coca var. ipadu Plowman

(9)

n.v. ipadú.

F
fotos.k

Sprawling open-branched shrub to 6 m. tall. Branches long, slender. Cultivated at edge of small clearing

near the Botany Building.

Lvs. med. in green above, pale green beneath, scarcely if at all "areolate".

Long-styled plant! No mature fruits.
(A group of plants cultivated from a single clone, possibly originally in the Rio Negro).

JAN 24 1980

Brazil: Edo. Pará. Mun. Benevides.
Fazenda Maratá, 30 km. ^{E.N.E. of} Belém.
on road to Benfica.

24 Janeiro 1980. Approx. 1920's, 1930's
Coll. T. Plowman, N.A. Rosa, C.S. Rosario
and M.R. de Santos.

8056. Guatteria poeppigiana Annonac.

(11) n.v. "erva preta"

Arvore 10 m. de altura
Pepals fleshy, yellow green,
turning dirty brown. Cresceudo no
margem do Rio Maratá.

8057. Piresia goeldii Swallen Gramin.
(9) det. J. Davidse 1980.

Espitose herb along trail in
forest. Spikelets purplish brown.

8058. ~~Bellucia~~ HENRIETTEA SUCCOSA (AUBL.) ^{DC.} Melastom.

(9) Small tree 6 m. tall with
open crown in cut-over secondary
forest. Hypanthium & sepals
pale green, red purple at maturity.

(DET. J.J. WURDACK, 1981)

JAN 24 1980

8059. Psychotria medusula M. Arg. Rubiac.
(5) det. J. H. Kirkbride 1981

Low shrub to 1 m. tall in secondary forest. Brevets pale green with dark purple hairs. Fls. whitish with purple blush. FRs. green.

Flacourt.

8060. Lacistema pubescens Martins ~~Lacistema~~
(9) det. H. Sleumer 1981

Tree 7 m. tall. Reclus yellow. Fruit bright red.

8061. Rinorea Violac.
(9)

Tree 5 m. tall in disturbed primary forest. Trunk 10 cm. in diameter. FRs. light green

8062. ~~Lacistema~~ (BONPL.) TRIANA ACIDOTIS CF. INDECORA Melastom.
(9) (DET. J. J. WURDACK, 1981)

Low shrub 1 m. tall in forest. Hypenthium pale green. Petals + filaments + stigma white, anthers magenta.

JAN 24 1980

8063. Maieta GUIANENSIS AUBL.

Melastom.

(11) (DET. J. J. WURBACK, 1981)

Shrub 1.5 m. tall in forest.
Immature fruit red, purple-
black at maturity.

8064. Codonanthe

Gesneriace.

(7)

Fleshy epiphytic vine on tree
trunk along Rio Marató. Lvs.

glaucous green above, shiny, pale
yellowish green beneath with
purple midrib and margins.
Calyx red-purple. FR. green.

8065. Piper cachimboense Yuncker

Piperaceae

(11)

F

Herb in understory of forest
along trail. Twigs dark purple. Lvs.
dull, dark green with pale green to
whitish stripe at midrib. Spikes
suberect, cream; green in fruit becom-
ing completely erect.

det. R. Callejas 1981

8066. Itchuosiphon

Marantaceae

(4)

Scandent climber internodes
ca. 1 m. long. lvs. red purple beneath.
Bracts green.

JAN 24 1980

8067. Calothes

Marant.

(3)

Herb in forest. Lvs. medium shiny green above, medium green beneath, slightly less shiny. Pulvinus & midrib beneath yellow-green.

foto

Peduncle bracts dark red. Upper infl. bracts tan. Fls. bright yellow throughout.

8068. Aschnosiphon

Marant.

(2)

Erect herb, unbranched 2 m. tall, lvs. all at apex. Lvs. medium dark green above, dull, pale green to reddish purple beneath. Bracts green with red-purple margins. In forest.

8069. Pharus glaber HBK.

Gram.

(2)

Herb along trail in forest.

MO

det. G. David & M. S. 1981.

JAN 24 1980

8070. Calyplocarya glomerulata Urb. Cyperac
(5) Terrestrial herb in forest
F along trail. FRs. purplish.
det. T. Koyama 1981

8071. Adiantum Fern.
(2) Herb on fallen log in forest. Only
one seen.

8072: Cyperac.
(2) Cespitose herb to 1 m. tall along trail
in forest.

8073. Philodendron squamiferum Poepp. Arac.
(3) det. T. Croat 8 Feb 1982.
Climbing epiphyte. Petioles
strongly verrucose with pale green
"spines." Lvs. shiny green above,
lighter green beneath with reddish
nerves. Infl. terminal, reddish
spathe.

JAN 24 1980

8074

Rubiace.

(1) Unbranched subshrub 1 m.
in forest. Fls. silver form, bright
red.

8075. Piper

Piperac.

(1/1)?

subshrub in forest. Fruiting
spikes green.

8076. Melosis cayennensis (Sw.) Spr. Balanophor.

(2)

det. B. Hansen 1982.

Root parasite arising from
round white "tuber". Peduncle +
infl. bright red-orange.

8077. Pharus ICHNANTHUS PANICOIDES Beauv. Gram.

(3)

(DET. G. DAVIDSE, 1980)

herb in middle of open trail
in forest.

8078. Psychotria apoda Steyererm.

Rubiace.

(2)

det. J.H. Kirkbride 1981

Low shrub 1 m tall in forest.

Breets red-purple to near white.

Novel breets + fls. pure white.

fotos

JAN 24 1980

8079. Psychotria platypoda DC. Rubiac.
(2) det. J. Kirkbride 1983.

Low shrub 1 m. tall in forest.
Bracts magenta to greenish white,
open slightly in fruit.

8080. Psychotria variegata Steyerem. Rubiac.
(4) Terr. prostrate creeping herb in
forest. Fls. white. Fr. bright
sky blue. det. J.H. Kirkbride 1981

8081. LEANDRA MICROPETALA (NAUD.) COGN. Thelest.
(6) (DET. J.J. WURDACK, 1981)

Shrub 1.5 m. tall in forest.
Lvs. dark green above, red purple
beneath with yellow green
nerves. Rachis dark red-purple.
FRS. bluish white turning blue
black at maturity.

8082. Danaea simplicifolia Rudge Fern
(5) det. J.T. Mickel & L. A. Phortua 1981

Terrestrial rosulate fern
along trail in forest.

JAN 24 1980

8083. Dieffenbachia

Arac.

(5)

Erect Terrestrial herb.
lvs. dark green above, pale
green beneath, petiole mottled
light green and dark brown.
Spathe suberect, light
green.

8084. Rapatea PALUDOSA AUBL.

Rapateac.

(4)

(DET. B. MAGUIRE, 1981)

Trigonal herb to 1 m. tall in
forest swamp in standing water.
Bracts light green. Petals
bright yellow.

8085. Byrsonima densa (Poir.) DC.

Malpigh

(12)

det. W. R. Anderson 1982

Tree 12 m. tall x 80 cm.
DBH growing along Rio Maratá.
Pedicel rose. Glands pale pink.
Sepals green. Petals red.
Filaments red.

8086. MICONIA MIRABILIS (AUBL.) L. WMS. Melast.
(13) (DET. J. J. WURDACK, 1981)

Tree 6 m x 4 cm. diam. Ovary green
Sepals pale pink. Petals translucent-
white, reflexed, filaments + an-
thers orange. Style cream.
Bracts white;

8087. Psychotria poeppigiana M. Arg. ssp. poeppigiana. Rubiac.
~~Cephaelis~~

(8)

det. J. H. Kirkbride 1981.

F

Low unbranched shrubs 0.6 m.

tall. Bracts bright red. FRs.
sky blue. In forest.

8088. Guatteria GUIANENSIS (AUBL.) R. E. FRIES Auon.
(10) (DET. P. J. M. MAAS, 1992)

Tree 6 m. x 15 cm. diameter.
in forest. FRs. dark green,

8089. MICONIA ERIOBONTA DC. Melast.
(8) (DET. J. J. WURDACK, 1981)

Tree 5 m. tall x 5 cm. i
diam. Infl. scurfy brown. Buds white.
FR. green.

JAN 24 1980

8090. Miconia ciliata
(13)

Malast.

Shrub 2 m. tall at edge of forest in second growth thicket. Petioles dark red. Lvs. shiny on both sides. Rachis ^{turning magenta} lt. green. Ovary + calyx white. Petals white apically, magenta basally. Anthers magenta. FRS. pale green with magenta calyx.

8091. Psychotria cf. deflexa DC.
(7)

Rubiace.

Shrub 2.5 m. tall in forest swamp. Corolla creamy white. FRS. green. Infl. pendulous.
det. J.H. Kirkbride 1981

8092. Ambelzuia grandiflora
(13)

Apoc.

Shrub to 5 m. tall growing in margins of Rio Moratá in running water. Lvs. shiny, dark green above with yellow green midrib; paler dull green beneath. Corolla white, very fragrant (like Citrus odour); Fruits pendulous, shiny, light green, dehiscent

seed
FRS. → J. Zarachi

JAN 24 1980

by breaking apart irregularly.
Stems with abundant latex.
n.v. *angelica* do 192 pó.

8093. *Iseritia* *coccinea* *longifolia* (Hoffsgg.) K. Schum. Rubiac.
(8) det. B. Boom 1982.

Tree 6 m tall x 6 cm diameter
in forest margin. Rachis + ovary
deep rose. Corolla tube rose, lobes
white. Young fruit green.

8094. *Psychotria* *mapourioides* DC. Rub.
(9) *Mapourea* det. Kirkbride 1981.

Shrub 3 m. along Rio Maratá.
Frs. green. In sun.

8095. *Miconia* *ceramicarpa* Melast. (12)

Low shrub to 1 m. tall in
forest. Lvs. dark green above, deep
red purple beneath. Rachis magenta.
Fls. white. FRs. salmon pink-orange,
pale blue at maturity.

JAN 24 1980

8096. Markea
(2)

Solanac.

foto

Epiphytic scandent vine.
Lvs. coriaceous, dark dull
green above, dull yellow green
beneath. Fls. under the
leaves, solitary. Calyx light
green, lobes cuspidate, calyx
3 cm long. Corolla pendulous,
pure white, 7.5 cm. long, strongly
5 angled.

8097. Pollicourea ~~?~~ calophylla DC.

Rubiac.

(5)

det. J. H. Kirkbride 1981

Treelet 4 m. tall at forest
margin. Peduncles + rachis
deep red. Frs. shiny green.

8098.
(9)

Sapotac.

Large forest tree, without butt-
resses 25 m. tall, 1.8 m. circumfer.
^{175 m. diam.}

Lvs. shiny dark green above,
dull light green beneath. Frs.
4 cm x 2.5 cm, yellow at maturity.
Latex cream. Collection of wood.

WOOD

899 Annona paludosa Aubl.

Annon.

(5)

det. J. von Roode, 1981

Tree 6 m. tall w. fl. trunk
6 cm. diameter in thickets along
Rio Maratá. Buds light green.
Fruits green, to 5 cm x

8100. Erythroxylum squamatum Sw.

(18)

Treelet 5 m. tall in secondary
forest margin along road to Fazenda Maratá.
Bark reddish brown. Trunk 4 cm. diameter.
Branches ascending at acute angle, flat-
tened in one plane. Lvs. somewhat shiny, med-
lingreen above, with prominent midrib + areoles
yellowish, ^{or shiny} pale green, dull beneath. The
veins somewhat darker, thin coriaceous, with
undulate margins. Lfs. turning ochre-brown
after cutting. Ramenta dense, light green.
Fls. inflorescence solitary to dense, creamy
white. FRs. to 16 mm x 6 mm, pale
green turning yellow-orange finally red
& shiny, wood.

Ramenta formed at end of season's growth.

①
Fotos
leaf
wood

F
GH
u

WOOD
MADw
Uw
Aw
Kw

JAN 24 1980

8101. Phthirusa retroflexa (R. & P.) Kuijt Loren H.
(5) det. J. Kuijt 1981

Parasite 2 m. across in
tree along Rio Marantá. Fls.
Cream.

8102. Nympha guianensis Gruttif.
(9)

Treelet 4 m. tall, 4 cm.
diam. growing in open along
Rio Marantá. Petals yellowish
green in bud.

8103. Bomarea guianensis Flacourt.
(8)

Treelet 5 m. in secondary
thicket. Fls. green.

8104. Philodendron Arze.
(1)

Climbing epiphytic vine.
Infl. on long pendulous
branches. Spathe green.

8105. Wulffia inaculata (Ker.) DC. Composit.
 (8) det. H. Robinson 1981

Weedy herb in recently cut & burned chacara. Rays yellow-orange. Fruits green.

8106. Coccyzselum hirsutum Bartl. Rubiac.
 (4) det. J.H. Kirkbride 1981 ex DC. ex char.

Prostrate creeping herb in shade of fast growing weeds in recently burned chacara. Fls. blue-violet. Fks. deep blue.

8107. Peperomia Piperac.
 (1)

Fleshy pendulous vine growing from ant garden containing Philodendron, Codonanthus sp.

Inf. pendulous, spike pale green, Fks. brown.

JAN 24 1980

8108. ~~8108~~ Dicranostyles ampla var. castanea D. Austin
det. D.F. Austin 1981. Convolvul.

(10)

F

Liana 5 m. tall among trees
along Rio Meretá. Fks. black
at maturity containing one large
brown seed surrounded by
sweet juice.

JAN 31 1980

BRAZIL: Estado Goiás. Município Presidente Kennedy. Road from BR 010 to Itaporã, 12 km. west of village of Presidente Kennedy. Fazenda Primavera along Ribeirão Feíinho. Alt. 400-500 m. 31 Jan - 4 Feb 1980
Approx. 8° 25' S, 48° 37' W
Coll. T. Plowman, G. Davidse, N. A. Rosa, C. S. Rosario and M. R. dos Santos.

31 Jan 1980

Marant.

8109

(13)

Herb to 1.5 m. tall in margin of secondary gallery forest. Bracts bright orange. Fls. translucent orange throughout.

8110.

(8)

u.s

Dichorizandra hexandra (Aubl.) Commelinac.
det. R. Faden 1981. Standl. sen. lat.

Creeping vine on granite outcrop. Sepals white to pale violet. Petals white at base, blue apically. Fruits basally green, atop purpureous toward apex, shiny.

8111. Dracontium TACCARUM CRASSISPATUM
(8) (SP. NOV.) E. G. GOOLCLAVES Araceae
2007

Herb in woods to 1.8 m. tall. Petiole dark brown with snake like pattern. Tuber flattened,

JAN 31 1980

round in cross-section, fan,
pure white within. Spathe dark
purplish brown. Fruits white
finely punctate. Only one fertile.

8112. Calathea sect. Nudiscapa Marant.

(9) Herb 1 m. tall in woods along
small stream. Bracts light green,
recurved; Fls: calyx + corolla
cream. Stem nodes pale yellow.
Infl. basal.

8113. Adiantum DEFLECTENS MART. Fern

(13) DET. MICKELL & ATENHORTA 1981

Delicate fern in ^{granitic} rock crevices
on hillside. Rooting at the
tips.

8114. Etenanthe MYROSMA CANNIFOLIA L. Marant.

DET. H. KENNEDY 1992

(14) Herb. leaves variegated
striped light green to silvery
green and dark green alter-
nating. Bracts and flowers
creamy white. Petiole + pedun-
cle yellowish. Habitat same
as 8135.

JAN 31 1990

8115 Calothea Sect. Nudisceps Marant.
(7)

Herb to 1.6 m. tall in woodland
thicket. Lvs. dark shiny above,
dull pale green beneath.
Infl. appearing with the leaves,
bracts erect, green. Calyx
tube + sepals cream. Petals
and staminodes pale yellow.

8116. Maranta Marant.
(12)

Much branched herb arising
from single stem. Rhizome creeping,
non-tuberous. Bracts, sepals
& petals cream. Staminodes
pale brown.

8117. Calothea Marant.
(7)

Herb in shade of palm grove.
Bracts yellow-green. Calyx and corolla pure white.
Cucullate staminode yellow apically.
Carlose staminode white with yellow at tip.
Petaloïd staminode creamy white, yellow
ing with age.

JAN 31 1980

8118. Colathea Sect. Comosae Marant.

(9) C. GARDNERI BAKER

Herb in open gallery forest. Leaves somewhat shiny, dark green above, pale dull grey-green beneath. Fertile bracts white, Sterile spicelike bracts green. Calyx + Corolla white. Stamens violet.

DET. H. KENNEDY 1991

8119.

Marant.

(9)

(one fl. specimen)

Herb in edge of gallery forest in cerrado, in sandy soil. Fruiting inflorescence bending to ground. Bracts brown, past. Ripe seed dirty grey. Flowering bracts light green. Calyx, corolla and lip pure white. Eucullate staminode orange at apex. Collose staminode white with purple spot at tip.

8120. Stenantha SARANTHE MEMBRANACEA Marant.

(9)

PETERSEN

DET. H. KENNEDY 1992

Herb in gallery forest margin. Bracts light green to cream. Fls. creamy.

8121. Cuphea Lythrac
 (11) Delicate herb on open slopes.
 Fls. light magenta. Gravelly soil
 on granitic outcrop.

8122. Polygala longicaulis H.B.K. Polygalac:
 det. J.J. Wurdack 1981

(7) Delicate herb on open slopes,
 gravelly soil on granitic outcrop.
 Fls. pale magenta (reddish purple).

8123. Polygala adenophora DC. Polygalac:
 (5) det. J.J. Wurdack 1981

Delicate herb on open slopes,
 gravelly soil on granitic outcrop.
 Fls. light magenta (reddish purple).

8124. Sebastiania corniculata (Vahl) Pax Euphorb
 (11) Annual herb on open granitic
 outcrop. Spikes green. Fls.
 dark red. det. Huft 1984

8125. Galactia striata (Jacq.) Urban Legum.
 (11) Twining vine on open granitic
 slope. Fls. reddish violet, keel
 white. det. R. Barneby 1981

JAN 31 1980

??

8126. Costus subsessilis (Nees & Mart.) Maas Zingiberac.
(8) det. P. J. M. Maas 1981

Herb 30-100 cm. tall on open
rocky hillside. Flowers

pure white, fragrant.

Habitat same as 8135.

8127. Mimosa
(11)

Legum.

Fotos-

Prostrate herb on open granitic
outcrop. Stamens pale pink.
Smaller individuals erect.

8128. Ipomoea
(12)

Convolvulac.

Twining vine on open
slopes. Corolla tube pale pink,
Corolla red-violet, dark purple
at throat.

Habitat same as 8135.

8129. Anemia pastinacaria Moritz
(2) det. J. T. Mickel & L. Atchortua 1981


Fern

Herb in low gallery forest.
Along road,

Rec'd 4 August 1982

Dear Tim,

I received your letter one day before the starting of my holidays. Therefore I could not trace the puzzling Costus. In my Costus-monograph I united in Costus subsessilis (as C. warmingii) specimens with and without well-developed stems, and specimens with glabrous and very hairy leaves. Doesn't your nr. 8126 fit in that? I will check it when I am back in september. Included some stamps for your various letters and parcels. Annonaceae: the project will start in september. Westra and I will not send any ident's



during the first year. Do not yet send us any loans for identification. In 1983 I am planning an orientational Annonaceae-trip to the USA., in which I will visit F, NY, MO, GH, and US (for about two months in total). Then I hope to be able to give you any assistance you need.

With best wishes.

Paul

JAN 31 1980

8130. Helicteres

Sterculiac.

117

Erect subshrub to 1.5 m tall.
Petals brick red, calyx light
pink. Growing on open slopes
in gravelly soil.
Habitat same as 8135.

foto

8131. Benhinia rufa (Bong.) Steud.
det. J. Grimes 1981

Legum.

(11)

Erect subshrub 1 m. tall on
open gravelly hillside. Fls. pure
white.
Habitat same as 8135

8132. Harpalyce brasiliiana Benth.

Legum.
Papilionoid

(9)

Erect subshrub 1 m. tall
on open gravelly hillside.
Fls. bright red.
Habitat same as 8135. det. R. Barneby 1981

8133. Maranta

Marantac.

(10)

Spreading or prostrate herb
on open granitic outcrop.
Calyx translucent, violet. Petals
white. Stamens pale lavender.

JAN 31 1980

8134. Scleria pterota Presl Cyperac.

(7)

(F)

Herb in cerrado on hillside with scattered shrubs and Trachypogon dominant grassland.

det. G. Davidse 1980

8135. Acalypha Euphorb.

(2)

Herb with tuberous root.

Flowers reddish carmine with pinkish white stamens.

Habitat { Cerrado on hillside with grassy herb layer dominated with Trachypogon.

8136. Dioscorea Dioscoreac.

(11)?

Twining vine. Greenish yellow flowers.

Habitat same as 8135.

8137. Borreria Rubiac.

(2)

Annual herb Fls. white.

Habitat same as 8135.

JAN 31 1980

Peltaea speciosa (H.B.K.) Standl.

8138. ~~Hibiscus~~ det. P. Fryxell 1982. Malvac.

(8)

Corolla light purple, dark purple maroon at base, veins dark purple.

Erect subshrub to 1 m. from thick woody caudex.

Habitat same as 8135.

8139. Hyptis cf. mutabilis (Rich.) Briq. Labiat.

(3) det. R. M. Harley 1985.

Corolla tube white, lobes violet. Herb ^{to} 1.75 m. tall.

Habitat same as 8135.

Stryphnodendron obovatum Benth.
var. goyazensis (Taub.) Forero

det. R. S. Cowen 1982

8140. Stryphnodendron

Legum.

(3) Tree 4 m. tall. FRs. brown.

Habitat same as 8135.

Lvs. discolorous.

var. pubescens Benth.

8141. Hymenaea stigonocarpa Mart.

Legum.

(2) Tree 6 m. tall.

Petals white with speckled tan.

Sepals fleshy, dirty light brown.

Habitat same as 8135.

det. R. S. Cowen 1982

foto

JAN 31 1980

8142. Qualea grandiflora
(5)

Vochysiaceae

Treelet 3 m. tall. Fls.
pale green turning dark brown.
Habitat same as 8135.

8143 Riencourtia angustifolia Gardn.

Compos.

(3)

Erect herb. Fls. white.
Growing on open hillside on
granitic outcrop.

det. H. Robinson 1981

8144. Chamaesyce hyssopifolia (L.) Small
Euphorbia det. M.J. Huft 1984. Euphorb.

(11)

Erect herb, annual. White.
latex. Fls. white. Stems reddish.
Growing on open hillside on
granitic outcrop.

8145.

Rubiaceae

(11)

Erect shrub 1 m. with ca.
20 stems. Fls. completely
white. Upper lf. surface dull
dark green, lower lf. surface dull,
white beneath.

Habitat same as 8135.

JAN 31 1980

8146. Chromolaena epaleacea Gardn. Comp
(3) det. H. Robinson 1981

Erect subshrub. Flowers
purple.
Habitat same as 8135.

8147.
(1)

Legum.-
Papilion.

Erect herb. Fls. bright
red.
Habitat same as 8135.

8148. TIBOUCHINA SECT. BARBIGERAE Melast.
(11) (DET. J. J. WURDACK, 1981)

Shrub 1 m. tall. Petals +
filaments reddish violet. Base
of style red-violet, tip white.
Filaments with long white
hairs.

Habitat same as 8135

8149.
(3)

Annon.

Tree 6 m. tall x 20 cm diam.
Perianth light brown outside, yellowish green inside. Inner

JAN 31 1980

tepals creamy white.
Habitat same as 8135.
Upper leaf surface dark shiny
green, lower leaf surface pale
dull green.

8150. Byrsonima fagifolia Nied. Malpigh.
(5) det. W. R. Anderson 1982

Small tree 3 m. tall. Petals
yellow.
Habitat same as 8135.

8151. Periandra heterophylla Benth. Legum. Epilouroid
(5) det. R. Barneby 1981

Twining vine. Fls. bright
red.
Habitat same as 8135.

8152. Himatanthus obovatus (Muell. Arg.) Apocyn.
(11) Woods. var. puberulus (Muell. Arg.) Woods.

Tree 3 m. tall. White latex.
Corolla white with yellow throat.
Habitat same as 8135.
Bark thick, corky. A. J. M. Leeuwenberg 1982.

8153. Schlotheimia rugifolia (Hook.) Schwægr. Musci
 (11) det. W. C. Steere 1981
 Moss on living tree trunk in
 cerrado
 Habitat same as 8135.

8154. Frullania squarrosa (B.B. & N.) Dumort Bryophyte
 (11) Bryophyte on living tree trunk
 in cerrado.
 Habitat same as 8135.
 det. W. C. Steere 1981

→ new to New World (from W. Africa)

8155. Trachyphyllum dusenii (C. Mull. ex Broth.) Broth. Moss
 (11) det. B. Buck 1981
 Moss on deep tree trunk.
 Along creek in gallery forest.

8155A Thuidium schistocalyx (C.M.) Nutt. } det. W. C. Steere
 8155B Hyophila arborea (Mitt.) Jacq. } 1981

8156. }
 (5) } *Gisneria*

Herb 1 m. Corolla red
 yellow at throat at base of
 upper lip. growing in open
 forest with Guadua

JAN 31 1980

8157. Voyria aurantiaca Splitg. Gentianac.
(3) det. P.J.M. Maas 1981

Saprophyte. Stems pink.
Flowers completely yellow.
Gallery forest along creek.

8158. Voyria Gentianac.
(1)

Saprophyte. Stems white.
Subterranean. Old flowers
white. Bud with corolla tube
white, tip and lobes lilac.
Gallery forest along creek.

8159. Olyra ciliatifolia Radde. Gram
(11) det. G. Davidse 1980.

Herb in gallery forest
along creek. Spikelets red-
dish brown to pale green.

8160. Kyllinga Cyperac
(1)

Herb on open granitic
outcrop. Spikelets white.

JAN 31 1980

8161. Rhynchospora nervosa Boeck. Cyperac.

(11)
F

Herb on open granitic outcrop. Bracts white at base.

8162. ~~Eleocharis~~ Bulbostylis conifera C.B. Clarke
det. T. Koyama 1981

(4)
F
NY

Herb on open granitic outcrop.

8163. Cipura paludosa AUBLET Iridac
(11) ! HENRICH & GOLDBLATT 1985

Perianth sky blue, petals with maroon purple dots. Growing in open secondary grassy area in Cerrado!

8164. Cyperus flavus (Vahl) Nees Cyperac.

(11)
F

Herb. growing in crack in granitic outcrop.

8165. Fimbristylis dichotoma (L.) Vahl Cyperac.
(4)

F
NY

Herb growing in crack in granitic outcrop.

det. T. Koyama 1981

JAN 31 1980

8166. Riencourtia latifolia Gardn. Compos.
(6) det. H. Robinson 1981

Florets white. Herb.
Habitat same as 8135.

8167. Kyllinga pumila Michaux Cyperac
(11) det. T. Koyama 1981
F

Herb on open granitic
outcrop. Spikelets white.

8168. Axonopus CHRYSOBLEPHARIS (LAG.) Gram.
(8) (A. APPENDICULATUS (PRESL.) HITCHC.) CHASE
DET. G. DAVIDSE
1980

Annual herb on granitic
outcrop.

8169. Scleria bracteata Cyperac.
(1)

Coarse herb. Habitat same
as 8135.

8170. Rhynchospora trichochaeta C.B. Clarke
Cyperac
(7) det. T. Koyama 1981

F
NY

Herb on open granitic,
outcrop. Spikelets greenish
golden brown.

JAN 31 1980

8171. Anemia PASTINACARIA MORITZ Fern
(7) DET. J. MICKEL & L. ATEHORTUA 1981
Fern on open hillside.
Habitat same as 8135.

8172. Anemia FERRUGINEA H.B.K. VAR. FERRUGINEA FERN
(11) DET. J. MICKEL & L. ATEHORTUA 1981
Fern on open granitic
outcrop.

8173. Qualea Vochysiaceae
(6) Treelet 2 m. tall. FR.
brown.
Habitat same as 8135.

8174. Arachis burchellii Krap. & Greg. ined. Papilionoid
(10) det. A. Krepovickas 1981.
CTES
ny
F
Prostrate herb. Fls. yellow.
Open hillside on granitic
outcrop. (Banner with reddish veins)

8175. Papilionoid
(1) Herb on roadside thicket.
Fls., deep yellow.

JAN 31 1980

8176. Dioscorea
(1)

Dioscoreac.

Twining vine in open hillside. Fls. dirty yellow.
Habitat 8135.

8177. ROLLINIA EXSUCCA (DC. EX DUNAL) A. DC. Annonac.
(11)

DET. P. J. M. MAAS, 1998

Tree 6 m. tall with 3 trunks 8 cm diameter, Fls. dirty yellow. FR. light green.

Open secondary woods in cerrado.

8178. COUSSAREA CF. PANICULATA (VAHL) STANDL. Rubiac.
(11)

Tree 4 m. tall. Fls. green.

Habitat same as 8135.
DET. J. KIRKBRIDE 1981

8179.
(6)

Tillac?

Tree 4 m. Fls. brown. In gallery forest with Guadua along creek.

JAN 31 1980

8180. Mikania MICRANTHA H.B.K. Comp.
(11) (DET. H. ROBINSON, 1981)

— Coarse twining vine
along Rio Feñho, in
open thicket. Buds cream.

8181. Polypodium triseriale Sw. Fern
(7) det. J.T. Mickel & L. Atchortua 1981

Epiphyte on babaco
palm.

8182. Periandra heterophylla Benth. Legum.
(3) det. R. Barneby 1981

Open roadside in cerrado.
Fruit green.

8183. Cissus erosa Rich. Vitac.
(4) det. J. Kallunki 1981

F Vine on open hillside
Stems red-purple. Infl.
bright red, turning purplish
Fr. green.
Habitat same as 8135.

! J.A. LOMBARDI 1993

JAN 3 1 1980

8184 Dioscorea scenthogyne Rusby Dioscoreac.
(7) det. F. Ayala 1986.
Vine 2 m. among shrubs
on granitic outcrop.
FR. green.

8185. Cissus rhombifolia Vahl Vitac.
(11) det. T. Plowman 1986.
Vine in open hillside.
Fls. cream. FRs. green
Habitat same as 8135.

8186. Galactia glaucescens Kunth Legum.
(3) det. R. H. Maxwell 1982.
Vine 1 m. Fls. reddish.
In open cerrado along
stream.

8187. Qualea MULTIFLORA MART. Vochysiac.
(10) SSP. PUBESCENS (MART.) STAFL. (DET. H. BALSLEV) ¹⁹⁸¹
Tree 5 m., FRs green.
Open hillside.
Habitat same as 8135.

JAN 31 1980

8188. Pseudobombax marginatum (St. Hil., Juss. & Camb.) A. Robyns Bombacae

(4) Treelet 1-2 m. in open hillsides. Calyx tube green. Petals abaxially brown, 2 daxially white. Filaments + style white. Malodorous. Same habitat as 8135.
det. A. Robyns 1981

8189. Rheedia ACUMINATA Pl. & Tr. Guttif.

(10) Tree 6 m. Latex yellow. Fruit green. Buds cream. Gallery forest along stream in cerrado. DET. M.C. AMARAL, 1992

8190. Dioscorea trifida L.f. Dioscoreae

(11) det. F. Ayala 1985.

Twining vine in open hillside. Fls. creamy white. same habitat as 8135.

8191. CHOMELIA Rubiaceae

(11) DET. J. KIRKBRIDE 1981

Spring shrub 2 m. tall. Fls. pale yellow. FR. green. In cerrado on hillside at base of granitic outcrop.

JAN 3 1 1980

= Eriosema rufum (H.B.K.) G. Don

8192. Centrosema det. R. Barneby 1981 Legum.

(12) Erect subshrub with thick
tuberous root. Fls. yellow.
Habitat same as 8135.

8193. Annona Annonac.

(3)? Treelet 2 m. in pasture.
Fr. green.

P. MUCRONATUM (DC.) K. & U. (KUIJT 1994)

8194. Phoradendron emarginatum Loranth.
(9) det. J. Kuijt 1981 Mart.

Hemiparasitic growing
on branch of Aspidosperma
sp. 2 meters high. Fls.
green.

8195. Mabea paniculata Benth. Euphorb.
(11) det. M. J. Huft 1984.

Treelet 5 m. Milky latex
Fls. cream.

Habitat same as 8135.

P. STELIS (L.) KUIJT COMB. INED. (KUIJT 1994)

8196. Phthirusa retroflexa (R. & P.) Kuijt. Loranth.
(8)

Hemiparasite on Aspido-
sperma growing pasture.
Buds greenish white. det. J. Kuijt 1981

8197. Morsypianthes chamaedrys (Vahl) Kuntze Labiatae

(11)

Herb 40 cm in pasture.

Corolla lobes purple on margins, white at center.

Anthers orange. det. R.M. Harley
1984.

8198.

(6) Diodia teres Walt.

Rubiace.

Herb in pasture along road. Frs. green. Stems reddish.

det. J.H. Kirkbride 1981

8199.

(7) Croton chaetocalyx Muell. Arg. Euphorb.

det. M.J. Huft 1984.

Subshrub 1 m. in open hillside. Fls. creamy white with pinkish tinge. Ovary green.

Habitat same as 8135.

8200. Sclerolobium

Legum.

(6)

Tree 6 m. in open hillside. Immature fruits green.

JAN 31 1980

8201. Ageratum conyzoides . Composit.

(11)

Herb 0.5 m. growing in cracks in granitic rock outcrop. Stems red-purple. Florets white.

8202. Acalypha Euphorb.

(4)

Herb 35 cm. in open pasture. Bracts green. Styles red.

8203. Acalypha Euphorb.

(11)

Herb. ♂ fls dark red. ♀ bracts green, stigmas carmine. Upper leaf surface dark brownish green, lower leaf surface dark purplish. In pasture.

8204. PORTULACA PILOSA L. DET. J. KALLUOKI ¹⁹⁹⁸ Portulacac.

(10)

Succulent herb in crack in granitic outcrop. Fls. white at base, reddish apically. Flowers pale creamy yellow. Fruits shiny, brown.

foto

8205. Desmodium canum (Gmel.) Sch. & Thell. Legum.
det. R. Barneby 1981

(10)

Herb in pasture. Fls. red-dish.

N.V. "carapixu"

8206 GUETTARDA SPRUCEANA H. ARG. EX CHAR. Rubiac.
DET. J. KIRKBRIDE 1981

(11)

Tree 4 m. x 10 cm diam.
Lvs dark shiny green above,
dull whitish green beneath.
Frs. green.

growing lat. base of hillside
in disturbed cerrado.

8207
(3)

Ameryllid

Bulbous herb in open hillside
cerrado. Bulb pure white.
Sterile.

8208. Erythroxylum suberosum St. Hil. Euphorb.
Det. T. Plowman

(9)

F
U

Shrub 1.5-2 m. tall in
open cerrado on hillside.
Bark corky, cracked
longitudinally, 0.5 cm thick.

WOOD.

fotos

WOOD

Un, MADu

JAN 31 1980

trunk 5 cm thick. Young branches red-brown, with exfoliating bark. Lvs. dark shiny green above, pale glaucous green beneath. Immature fruits green

8209. Erythroxylum daphnites Mart. Erythrox

(3)

Det. T. Plowman

Sprouts 0.5 m. tall from stump 2 cm diameter in secondary woods on hillside, in roads. Lvs shiny dark green above, pale dull glaucous green beneath. Stipules light green, turning red-brown, persistent.

(= 8330)

JAN 31 1980

Erythrox

8210. Erythroxylum sp. aff. E. rufum Cav
(15) Det. T. Plowman

K

Tree 10m. tall with spreading branches growing on granitic rock outcrop. Trunk branched near base to 15 cm. diam. Bark dark brown, deeply furrowed, rugose. Branches light tan. Lvs. coriaceous, dark green, somewhat shiny above, with yellow midrib; pale green somewhat shiny beneath; midrib yellowish. Stipules light green, turning brown, lightly striate. Young buds yellow.

wood
Lvs: Chem, anal

WOOD
MADW
Uw
Aw
Kw

Erythrox

8211. Erythroxylum leptoneurum O.E. Schulz
(12) Det. T. Plowman ~~Det. T. Plowman~~

F
LA
fotos

Stump sprouts 1 m. tall growing along road in pasture at margin of gallery forest in cerrado. Bark reddish brown. Lvs. dark green above, pale green beneath, somewhat shiny on both sides, slightly bullate, strongly undulate at margin. Fls. cream. Long-styled.

JAN 31 1980

8212. Erythroxylum subracemosum Turcz. Erythrox

F (12)
GB

Det. T. Plowman

fis → (A)

Elavilana

fotos

Shrub 2 m. tall at margin of gallery forest along small stream in sandy soil. Lvs. dull, dark green above, dull pale green beneath, petiole and midrib light yellow-green. Buds yellow. Flowers cream, short styled plant. Stipules yellowish green with brownish fimbriate margin.

(= 8268)

8213. RENCOURTIA ANGUSTIFOLIA GARDN. Composit
(11)
(DET. H. ROBINSON, 1981)

Herb 40-45 cm. tall Florets white growing open pasture along road.

FEB 1 1980

1 Feb 1980.

8214, Paspalum MORULUM SWALLEN GRAM

(11)

DET. T. FILGUEIRAS, 1998

In cracks and shallow, gravelly soil depressions on granitic rock outcrop.

8215 Microchloa indica (L.f.) Beauv. GRAM

(11)

det. G. Davidse 1980.

s.2. 8214. Annual.

8216 Axonopus rupestris Davidse ^{ISOTYPE} GRAM

(11)

det. G. Davidse 1987.

s.2. 8214. Sheaths strongly distichous.

8217 Paspalum multicaule POIR. GRAM
(DET. G. DAVIDSE, 1980)

(11)

In secondary cerrado in gravelly soil.

8218

TRID.

(1)

s.2. 8214. Flowers yellow.

8219 Peperomia pellucida (L.) H.B.K. PIPEP
det. R. Callejas 1981

(11)

F. s.2. 8214; in shade of overhanging rock
Annual; stems pink; inflorescence green.

FEB 1 1980

8220 Eragrostis RUFESCENS SCHRAD. GRAM
(DET. G. DAVIDSE, 1980)

(5)

s.a. 8214. Annual.

F 8221 Rhynchospora tenuis Link C YPEC
NY (5) det. T. Koyama 1981

s.a. 8214. Spikelets brown.

23-23 missing

8224 Andropogon angustatus (PRESL) STEUD. GRAM
(DET. G. DAVIDSE, 1980)

(5)

s.a. 8214. Annual.

8225 Digitaria NUDA SCHUMACH. GRAM
(DET. G. DAVIDSE, 1980)

(11)

s.a. 8214. Bases of culms decumbent,
foliage bluish green.

8226 Panicum quadriglume (Doell.) Hitchc. GRAM

(4)

det. Davidse 1981

s.a. 8217 - spikelets whitish green.

8227 Paspalum gemniflorum Steud. GRAM
det. Davidse 1981.

(3)

s.a. 8217.

8228 Axonopus compressus (SW.) BEAUV. GRAM
(DET. G. DAVIDSE, 1980)

(4)

s.a. 8214

8229. Cuphea

LYTH

(3)

s. 2. 8217. Annual, erect, flowers purple.

8230 Campylopus pilifer Brid.

(5) s. 2. 8214, Moss on rocks.

det. W. C. Steere 1981

8231

(5) s. 2. 8214, Moss on rocks

8232

(5) s. 2. 8214. Bryophyte growing under overhanging rocks.

8233 } Indigofera lespedezoides H. B. K. Legum.
(11) } det. R. Barneby 1981 Papilion-

Subshrub to 1.5 m tall on open hillside. Calyx dull yellow. Corolla coral red, banner with 2 dark red spots at base, keel cream at base.
Habitat same as 8135.

8234. CALLISTHENE FASCICULATA MART. Vochysiace

(11) Tree 6 m tall x 15 cm diam.

in open pasture. Fruits green.

(DET. H. BALSLEV, 1981)

FEB 1 1980

8235. Cyperus umbrosus Hinal & Nees Cyperac.
(10) det. T. Koyama 1981
F Herb in low open pasture.

8236. Dipteryx alata Voy det. R. Barneby 1981 Legum.
(10) n.v. "cumarú"

Tree 7 m. x 15 cm. diam.
Fruits tan.
Habitat same as 8135.

Separate
Fruit

8237. Chaptalia nutans (L.) Polak Comp.
(5) Herb in low pasture.
Florets pink. Lvs. white beneath
det. H. Robinson 1981

8238. Nephrolepis occidentalis Kuntze Fern
(11) Epiphyte in urucurizeira
palm. in pasture.
det. J.T. Mickel & L. Atehortua 1981

8239. Acalypha Euphorb.
(4) Subshrub in pasture. Stigmas
dark red, ♂ infl. cream.

8240. Asplenium Fern
(1) Epiphyte on palm trunk

8241. Euphorbia Euphorbiac.
 (4) Herb in pasture. Stems green to reddish. Infl. pale green to reddish. Stamens white.

8242. Dioclea latifolia Benth. Legum.
 (6) det. R.H. Maxwell 1982

Liana on granitic rocks on small hill. Calyx red. Corolla red-violet. Banner with yellow nectar guide.

8243. Begonia Begoniac.
 (9)

Delicate herb with succulent red stems growing wet crevice in granitic outcrop. Flowers white.

8244. Iridac.
 (3) Herb growing on granitic outcrop. FR. green.

8245. Pilea hyalina Fenzl Urticac.
 (10) Succulent herb in moist protected crevice in granitic outcrop. Fls. green. det. C. Niezgodz 1984.

8246. Croton Euphorb.
(3)

Subshrub 1 m. in open thicket.
Stamens creamy white. Sap
clear.

8247. Dipomorphandra, aff. D. parviflorum Spr. ex Benth. Legum.
Stryphnodendron
(5) det. R.S. Cowan 1981

Tree 6 m. tall. Fls. creamy
white. In secondary thicket.

8248. Orchid.
(4) Epiphyte in tree. Fks.
green. In pasture.

8249. Magonia pubescens St. Hil. Sapindac.
(8) Tree 10 m. tall x 25 cm.
FR separate diam. Fks. subglobose, tawny
(6) brown, to 10 cm diam x
7.5 cm long. det. P. Acevedo 1985.
Habitat same as 8135.

8250. Doryopteris aff. ornithopus (Hook.) Fern
(4) det. J.T. Mickel & L. Atchortua 1981 (Grev.) J.Sm.
growing on exposed granitic
outcrop.

8251. Magonia Sapind

- (1) Tree 6 m. tall x 20 cm diam
 + separate FR. tawny brown, subglobose,
 FR. 10 cm diam. x 8 cm long.
 wood Same habitat as 8135.

8252. STERCOLIA STRIATA ST. HIL. & NAUD.

Sterculiac

(11) DET. E. L. TAYLOR 1988

- Tree 8 m. tall x 20 cm. in
 diameter. Perianth greenish
 yellow tinged with pink.
 Growing at edge of granitic
 outcrop in secondary thicket.

8253. Lygodium venustum Sw.

Fern

- (8) Climbing vine in secondary
 woods along road.
 det. J. T. Mickel & L. Atehortua 1981

8254 SALACIA AMYOGALINA PEYR. IN MART

HIPPOCRAT.

- (9) - 'n.v.' 'OXIX' 'Uá'
 Tree 4 m. in hillside forest.
 Buds cream. DET. J. P. HEDIN 1979

8255: Combretum hilarianum D. Dietr. Combretac.

- (5) Liana in open hillside thicket.
 Fls. cream.
 det. C. Stace 1982.

FEB 1 1980

8256. Guazuma ulmifolia Lam. Stercul.
(11)

Tree 5 m. tall. Fls. greenish yellow. Growing in open pasture.

8257. Diospyros Ebenac.

(11) Tree 4 m tall x 15 cm diameter.

Separate FR. FR. hard, dark green, shiny, with pale green punctate dots, subglobose to 3.5 cm long x 4.5 cm. diameter.
WOOD

8258. Doryopteris ornithopus (Hook. & Grev.) J. Fern

(11) Fern on granitic outcrop in protected crevice.

det. J. T. Mickel & L. Atehortua 1981

8259. TOCOYENA SP. VEL AFF. T. FOETIDA P. & E. EX CHAR RUB.

(11) Tree 5 m. tall with trunk 10 cm diameter. FR. green, globose, 4 cm. diameter.

Bark thin, light tan, green within. DET. J. KIRKBRIDE 1981

T. FORMOSA (CHAM. & SCHLECHT.) SCHUM, SSP. FORMOSA
DET. A. L. PRADO 1984

8260. Cnidoscolus Euphorb.

(11) Urticating shrub 1-2 m tall in open thickets and pastures. Latex white. Corolla white.

FEB 1 1980

8261. Cereus sp. Cactac.

(11) Columnar cactus on open exposed granitic outcrop with 9-10 ribs. Spines reddish in young branches, black in mature branches. Fruits dark greenish purple. Seeds black. det. M. Kimmach 1982.

8262. Pitcairnia lanuginosa R. & P. Bromel.

(8) Clumped bromeliad on open granitic outcrop. Peduncle dark red brown. Bracts, pedicel and calyx dark red-brown. Petals pale orange with numerous dark red spots. Filaments pinkish with reddish spots. Style yellow. Anthers yellow.

8263. Cissus sicyoides L. Vitaceae

(3) Vine in open pasture. Fls. yellowish green. det. J. Kallunki 1981

8264.

(10) Tree 6 m. tall x 10 cm. diam. FRs. black. Growing in low open pasture.

WOOD

FEB 1 1980

8265 Rudgea viburnoides Benth. Rubiac.
(11) det. J. H. Kirkbride 1981

Treelet 5 m. tall x 8 cm diameter. Bark thick; corky, cracked. Lvs. brittle, shiny dark green above; dull light yellowish green beneath. Rachis + imm. fruits yellowish-green.

Habitat same as 8135.

8266, Annona ~~curiaca~~ curiaca Mart. Annon.
(11) det. J. von Rooden 1981

Tree 3 m. tall x 6 cm diameter. Bud tawny brown. Growing in secondary thicket along road. * sepals salmon pink within thick fleshy orange in section. Stigmas cream. Odor of citrus.

8267 Palm Palmac.
4x3=12 Palm 7 m. tall with trunk 6 cm diameter. Crown shaft 0.4 m. long. Leaves 1.7 m long with 80 leaflets per side. FRs. green, turbinate, 4-5 cm long.
Habitat same as 8135.

8268. Erythroxylum subracemosum Turcz. Erythrox.

(11)

Det. T. Plowman

F
LA

Shrub 2 m. tall along open roadside in pasture. Branches erect, dense. Lvs. ascending, dull dark green above, dull pale green beneath, midrib yellowish green. Stipules yellowish green, brown at margin, Calyx pale green. Petals white, Styles green. Long-styled plant. Fruit pale red.

(= 8212)

8269. Erythroxylum subracemosum Turcz. Erythrox.

(18)

Det. T. Plowman

Shrub 1.8 m. tall along fence row in pasture. Arising from trunk 6 cm. diameter. Bark reddish brown. Branches dense, erect, straight. Lvs dull, dark green above; dull pale green beneath, midrib yellow-green. Stipules yellow-green, brownish at margin, turning brown. Young leaves bright yellow green. Buds yellowish. Fls. Creamy white; long-styled plant.

Frequent shrub in pastures.

WOOD
Chem. Anal.

Photos.

F

GH

U

WOOD
Uw
MADW

(= 8212)

FEB 1 1980

8270. Erythroxylum suberosum St. Hil. Erythrox.

(4)

Det. T. Plowman

treelet 3 m tall with thick corky trunk 5 cm. diameter. Branches flexuous, light tan. Lvs brittle, somewhat shiny, dark green above, pale dull green beneath with pale green midrib. Pedicel pale green. Fks. 3mm stem, green, shiny. Frequent in open disturbed cerrado along roadsides.

8271. Erythroxylum leptoneureum Erythrox.

(9)

O. E. Schulz

Det. T. Plowman

(wood) Shrub 1.5 m tall in fence row along road. Trunks several, largest 2 cm diam. dark brown. Branches short dense, leafy. Lvs. rubbery, medium green, dull above, shiny yellowish green beneath, midrib light green, margin strongly undulate.

FI-20
fotos.

WOOD
MADw
Uw

(= 8211)

2 Feb. 1980.

8272. Erythroxyllum sp. E. rufum Cav. Erythrox.

(3)

Det. T. Plowman

Shrub 0.6 m tall in pasture
at base of granitic outcrop.
Lvs. slightly shiny above, dark
green; pale dull glaucous green
beneath with pale yellow midrib.

8273. Erythroxyllum sp. aff. E. rufum Erythrox.

(13)

Det. T. Plowman

Cav.

Tree 5 m. tall with trunk
12 cm. diameter growing on top
of exposed granitic outcrop.
Bark dark brown, rough, deeply
furrowed. Branches somewhat
gnarled; ultimate branches dense.
Lvs. dark green above, pale green
beneath, somewhat shiny both sides,
midrib yellowish. Stipules pale green
turning dark brown, lightly striate
at base only. Buds yellowish.
Old fruits brown.

fotos.

8273A. Erythroxyllum cf. rufum

Photo only seedling at above.

FEB 2 1980

Piper tuberculatum Jacq. det. S.F. Smit 1985.

8274. Piper arboreum var. hirtellum Yun. Piperaceae
(11) Treelet 3 m. along fence row in
F low pasture. Spikes erect, yellow.
det. R. Callejas 1981

8275. Piper pellitum C. DC. (no typical form) Piperaceae
(11) det. R. Callejas 1981
F Shrub 1.5 m. tall in fence row
in low pasture. Spikes erect, white
in flower, green in fruit.

8276. Lantana aristata (Schau.) Briq. Verbenaceae
(5) Spindly subshrub 1.5 m. tall
with thick woody root growing
in fence row in low pasture.
Fls. white, yellow at center.
det. H.N. Moldenke 1981

8277. Croton Euphorbiaceae
(11) Treelet 5 m. tall in open
thicket along Rio Feinho. Fls. cream.
Fruits tawny brown.

8278. Bixa Bixaceae
(10) Shrub 2 m. tall in open
thicket on river bank. Old
fruits brown.

8279. Dorstenia asaroides Gardner. var. asaroides Moraceae
 (7) det. J. P. P. Carzuta 1983.

Fleshy rosulate herb with thick taproot growing in open pasture on hillside. Receptacle dark brown

8280. Eriocaulac.

(11) Herb in seepage on granitic outcrop. Fls. white.

8281. Acisanthera limnobius (DC.) Triana Melastom.

(5) Fleshy herb in seepage on granitic outcrop. Petals white. Anthers yellow with red-violet sterile segment. det. J. J. Wurdack 1981

8282. Ischaemum rugosum SALISB. ^{90m} Gram.
 (6) (DET. G. DAVIDSE, 1980)

Herb in seepage on granitic outcrop.

8283. Cyperac.
 (3) Herb in seepage on granitic outcrop.

8283A. Cyperus Cyperac.
 (1) Herb in seepage on granitic outcrop.

FEB 2 1980

8284. Cyperus iria L. Cyperac.

(6) det. T. Koyama 1981

F Herb in marshy gravelly soil
below granite outcrop.

8285. Eleocharis filiculmis Kunth Cyperac.

(11) Herb in marshy gravelly soil
below granite outcrop. det. G. Davidse
1987.

8286. Cyperus Cyperac.

(2) Herb in marshy gravelly soil
below granite outcrop.
Spikelets yellowish brown.

8287. Cyperus sphacelatus Rottb. Cyperac.

(8) Herb in marshy gravelly
soil below granite outcrop. Bracts green
with dark brown margins.
det. T. Koyama 1981

8288. Aristida longifolia TRIN. Gram
(det. G. Davidse, 1980)

(9) Herb in margin of gallery
forest in shade of trees.

8289. Laurac.

(3) Tree 8 m. tall x 15 cm diam.
Fls creamy white. Lvs. dark
shiny green above, silvery green

FEB 2 1980

beneath. In gallery forest along
river.

8290 Piper aduncum L. Piperac
(11) det. R. Callejas 1981

F Shrub 2 m. tall on weedy
roadside. Infl. erect, curving at
tip, creamy white in flower,
green in fruit.

8291. Velozia lanata Pohl Velloziac.
(4) det. T. Plowman 1982

Shrub 75 cm. tall on open
granitic outcrop. Corolla white,
stigma light yellow, fragrant.
FR. green.

8292. Piriqueta Turnera ulmifolia L. Turnerc.
(6) var. surinamensis Urb.

Subshrub 1 m. tall in edge
of gallery forest. Corolla white
turning pink. det. Maria Mercedes Arbo
1981

8293. WALThERIA BRACTEOSA ST. HIL. + NAVO STERCUL.
(10) (DET. H. ROBINSON, 1981)

Herb on open granitic
outcrop in seepage. Fls. yellow.

FEB 2 1980

8294. Cassia Senna obtusifolia (L.) Irwin & Barneby ^{Legum.}
(5) Roadside weed. Fls. yellow.
det. R. Barneby 1981

8295. Pouzolzia preppigiana (Wedd.) Killip ^{Urticac.}
(9) Subshrub 1 m tall in roadside
thicket. Fls. greenish to red-
disk. det. C. Niezgodz 1986.

8296. Phoradendron crassifolium (DC.) Eich. ^{Loranthac.}
(11) Hemiparasitic on Rubiaceae
tree in gallery forest. Fls.
green. det. J. Kuijt 1981

8297. PSIDIUM ^{Myrtac.}
(11) Tree 3 m. on granitic
outcrop. Lvs shiny light green
above and beneath. FR. green.
Trunk 8 cm. diameter,
bark thick, grey, reddish
within. (DET. L. LANDRUM 1981)

8298. Andira surinamensis (Bonpl.) Splitg. ^{Papilion.} ^{Legum.}
(11) Tree 5 m. tall x 10 cm
diameter growing on open
granitic outcrop. Corolla rose
pink, banner with nectar guide
with white spot at top with red dots.

WOOD

WOOD

8299. Rudgea viburnoides Benth. Rubiac.
 (6) Tree 4 m. tall in cerrado
 on steep hillside. FRs. Green
 det. J.H. Kirkbride 1981
8300. Combretum duartianum Cambess. Combret.
 (10) Tree 5 m. tall in gallery
 forest along river. FRs. yellow
 green. det. C. Stace 1982.
8301. Terminalia argentea Mart. Combret.
 (10) Tree 15 m. tall in gallery
 forest along river. FRs. dark
 green. det. C.A. Stace 1982.
8302. Psychotria cf. mapourioides DC. Rubiac.
 (10) Shrub 2 m tall in gallery
 forest along river. FRs green.
 det. J.H. Kirkbride 1981
8303. Manihot pruinosa Pohl Euphorb.
 (9) det. M.J. Huft 1984.
 Shrub 1.5 m. tall in crack in
 granitic rock. Latex white
 Perianth yellow at base, creamy
 white apically, nerves red.
 Glands yellow-orange. Arising
 from large starchy root

FEB 2 . 1980

D. DON VAR. DEPENDENS (DON) MACBRIDE

8304. Clidemia CAPITELLATA (BONPL.) Melastom.

(10) Shrub 1 m. tall at edge of gallery forest in marshy grassy area. Petals white. Red hairs on margins of leaves, stems, and on inflorescence. (DET. J. J. WURDACK, 1981)

8305. GUETTARDA SPRUCEANA M. ARG. EX CHAR. Rubiac.

(9) Tree 4 m tall on open granite outcrop Fls. white.
DET. J. KIRKBRIDE 1981

8306. Sapindac.

(9) Shrub 1.5 m. in gallery forest along river.

8307. DIOSPYROS PRAETERMISSA SANDW. Ebenac.

(11) Tree 1 m tall x 10 cm diam. in margin of gallery forest. Fruits light brownish green. Lvs. dark shiny green above; pale lt. green below. DET. L. COELHO, 1991

8308. Jacaranda brasiliana (Lam.) Pers. Bignon.

(6) Tree 8 m. tall x 15 cm. diam.
Fruit on top of granite outcrop
FRS. light shiny green. det. A. Gentry 1981

FEB 3 1980

3 Feb 1980

8309. Hiraea fagifolia (D.C.) Adr. Juss. Malpigh.
(2) Woody liana 4 m. tall in gallery forest along river. Fls bright yellow. det. W.R. Anderson 1981
8310. Axonopus Gram.
(1) Herb along stream in cerrado.
8311. Serjania Sapindac.
(11)? Vine 2 m. long on river bank. Buds pink. Fls creamy white. Anthers
8312. Crotalaria stipularia Desv. Legum.-Papil.
(3) Herb in hillside pasture. Fls. deep yellow. det. R. Barneby 1981
8313. Crotalaria incana H.B.K. Legum.-Papilion.
(6) Herb in cerrado along small stream. Petals yellow. det. R. Barneby 1981
8314. Miconia HELIOTROPOIDES TRIANA Melastom.
(11) Shrub 2 m. tall along stream. Lvs. dull dark green above, grey-white beneath. Immature fruit red, black at maturity.
(DET. J.J. WURDACK, 1981)

FEB 3 1980

8315.

Orchidaceae

(1)

Terrestrial orchid along
small stream in cerrado. Petal
rose-pink, lip with white keel,
white at throat with rose-pink
lines.

8316. Mimosa

Legum.

(1)

Subshrub 1.5 m. tall.
Filaments pink along stream in cerrado.

8317. Rhynchospora rugosa (Vahl) Gale

(11)

F

Herb in marshy place along
stream in cerrado. det. T. Koyama 1981

8318. Scleria

Cyperac.

(1)

Herb in cerrado along stream.
Bracts dark brown with green
midrib.

8319. Utricularia oliverana Steyererm.

(11)

Herb in seepage on granitic
rock outcrop. Corolla pale
yellow with dark yellow nectar
guide at throat.

First record for Brazil.

det. P. Taylor 1981

8320. WULFFIA BACCATA (L.F.) O. KUNTZE Composit.
 (9) (DET. H. ROBINSON, 1981)
 Straggly herb 2 m. tall,
 in margin of gallery forest. Ray
 2nd disc flowers yellow. With
 tuberous base.
8321. Erechtites hieracifolia (L.) Raf. ex DC. Composit.
 (4) Herb in marshy area along
 stream in cerrado. Florets
 pale yellow. det. H. Robinson 1981
8322. Ichnanthus PROCURRENS (NEES Gram.
 (11) (DET. G. DAVIDSE, 1980) EXTRIN. SWALEN
 Herb in cerrado along river.
VAR. PROCURRENS ! T. KILLEEN 1991
8323. Davilla Dilleniace.
 (3) Liana in margin of gallery
 forest along river. Fr. yellow-
 green.
8324. Paspalum plicatulum Michx. Gram.
 (6) In marshy area along stream
 in cerrado. det. G. Davidse 1980.
8325. Ascolepis brasiliensis C.B. Clarke Cyperac.
 (8) Herb in marshy area along
 F stream in cerrado. Spikes white.
 det. T. Koyama 1981

FEB 3 1980

8326. Rhychospora barbata (Vahl) Boek Cyper
(2) Herb in marshy area along
stream in cerrado.

8327 Bromelia sp. Bromeliac
(8+8) Terrestrial bromeliad
Sep. fruit along stream in cerrado.
Infl. arising from rhizome on
separate stalk, partially subter-
ranean, bracts and fruit at
ground surface. FRs. orange.
Lvs. with golden brown hairs
at base. det. L. B. Smith 1981.

Seed-Al
Fotos.
(separate
plant)

8328 Anthurium sinuatum Benth. ex Schott ^{Araceae}
(6) Terrestrial vine to 1 m.
ascending tree trunk in
shade of gallery forest along
river. Spathe reflexed, light
green. Spadix erect, dark
brown. det. T. Croat 1982.

P. IMBE SCHOTT EX ENDL. det. T. Croat 1982.

8329. Philodendron acutatum Schott ^{S. MAYO 1992} Araceae
(5) Climbing epiphyte 5 m. high
on tree in shade of gallery forest
along river; Nerves on lower leaf
surface pink. Spathe light green.

8330. Erythroxylum daphnites Mart. Erythrox

(8)

Det. T. Plowman

Shrub 1.5 m tall in disturbed secondary woods along road. Branches more or less dense, erect, divaricating. Lvs. shiny dark green above, with yellow green midrib; pale shiny green beneath with dark green reticulate veinlets. Stipules pale green soon turning red-brown. Young buds still green.
(= 8209)

fls.

WOOD

MADw

Uw

8331. Erythroxylum leptoneurum Erythrox

(1)

Sapling in open pasture.

8332. ACANTHOSPERMUM AUSTRALE (LOEF.) D. KUNTZE Comp.

(11)

Sprawling herb in open pasture along road. Flowers cream, fruits green.
(DET. H. ROBINSON 1981)

8333. Erythroxylum daphnites Mart. Erythrox

(11)

Tree^{let} 4 m tall x 6 cm diam. in open woods with quadud. Bark thick, corky, furrowed. Lvs. dark green above, light green below somewhat shiny both sides, (an)

WOOD

Uw

MADw

Det. T. Plowman

FEB 3 1980

margin undulate. Young
fruit pale green → (A)
= 8209, 8330

8334. Erythroxylum subracemosum Turcz. Erythrox.

(8)

Det. T. Plowman

Treelet 4 m tall x 6 cm
diam. Growing in gallery forest
along small stream. Lvs dark
green above, somewhat shiny.
pale dull glaucous green beneath.
Buds yellow.

Frequent understory treelet.

8335. Erythroxylum daphnites Mart. Erythrox.

(15)

Det. T. Plowman

Treelet 4 m. tall in gallery
forest along small stream. Trunk
FR. → (A) 5 cm diameter. Bark thick,
corky, deeply furrowed. Lvs.
dark green above, paler
beneath. Immature fruit
pale green.

(= 8209, 8330, 8333, 8426, 8427)

8336. Piper dilatatum L.C. Rich Piperac.
 (8) Shrub 1.0 m tall in shady gallery
 F forest along small stream. Young
 spikes erect, cream. det. R. Callejas 1981

* 8337. Cybianthus (subg. Cybianthus) sp. nov. Myrsinac.
 (3) Unbranched shrub 1 m tall in
 gallery forest along small stream.
 FRS. shiny, dark green. J. Pipoly 1982.

8338. Costus subsessilis (Nees & Mart.) Maas Zingiberac.
 (8) Rosulate herb with short decum-
 bent stem, "rosette" lying on ground
 in gallery forest along small stream.
 Fl. bud deep yellow. Fruits whitish,
 seeds orange, immature.
 det. P.J.M. Maas 1981

8339. Erythroxylum sp. aff. E. rufum Cav. Erythrox.
 (7) Det. T. Plowman

Seedlings
 (A)

Tree 6 m. tall x 25 cm. diam.
 at base. Branches spreading,
 stout. Lvs. shiny dark green above,
 lighter green, shiny beneath. Old
 fruits brown. Seedlings numerous
 under tree. Growing on top of ex-
 tensive exposed granite outcrop.
 frequent. Also invading pastures.

FEB 3 1980

8340. Erythroxylum suberosum ^{St. Hil.} Erythrox.

(4) Dwarf treelet 1.5 m. tall in open disturbed hillside cerrado. Trunk 4 cm diameter, bark thick, reddish to greyish brown, corky. Fls. cream.

WOOD
MADw
Uw

Det. T. Plowman

8341. Anadenanthera macrocarpa (Legum. Benth.) Brenan

(3) Tree 15 m. tall x 20 cm diam. at base of granitic outcrop in cerrado. Fls. green turning brown. det. R. Barneby 1981

St. Hil.

8342. Erythroxylum suberosum Erythrox

(4) Dwarf treelet 1 m tall in open disturbed hillside cerrado. Buds. Creamy yellow. Det. T. Plowman

8343. Erechtites hieracifolia (L.) Raf. ^{ex DC} Composit.

(6) Herb in pasture on hillside. Involucre and foliage dark red purplish. Florets pale yellow. det. H. Robinson 1981

8344. Bidens CYNAPIIFOLIA H.B.K. Composit. DET. H. ROBINSON (1981)

(7) Herb in weedy margin of pasture. Fls. orange. Aromatic.

Composit.

8345. ERECTITES HIERACIFOLIA (L.) RAF. EX DC.

- (9) Herb in open hillside, pasture with 8343. Foliage and involucre light green. Florets pale yellow. (DET. H. ROBINSON 1981)

8346. Bidens Cosmos caudatus H.B.K. Composit.

- (2) Herb in weedy pasture. Involucre green. Outer palea bracts red-purple. det. H. Robinson 1981

8347. Jacquemontia gracillima (Choisy) H. Hallier ^{Convulv?}

- (7) Robust subshrub with 10 branches arising from base. Fls. bluish. Fruit green. Growing in crack on granite outcrop. det. D.F. Austin 1981

8348. Melothria pendula L. Cucurb.

- (6) Vine running along ground in under trees on granitic outcrop. Fls. yellow orange. FRS. green. det. C. Jeffrey 1981

8349. Diodia MACROPHYLLA SCHUM. EX CHAR. Rubiac

- (9) growing in water in flooded area along river. Fruits green.

DET. J. H. KIRKBRIDE, JR. 1981

FEB 3 1980

8350. Ilex affinis GARD. ^{DET. S. ANDREWS, 2000} AQUIFOL.

(8)

Tree 8 m. tall x 15 cm diam. in gallery forest along river. Buds cream. Fruits immature, green.

8351. Qualea grandiflora MART. *Vochysia* s.

(11)

Treelet 5 m tall. Calyx green. Corolla deep yellow. Growing in cerrado on hillside. (DET. H. BALSLEV, 1981)

8352. Ipomoea Convolv.

(7)

Vine 5 m. tall growing in Mauritiella palm in water. Calyx reddish. Corolla red-violet.

8353. Cordia polycephala (Lam.) I. M. Johnston. Borag.

(11)

Shrub. Fls. cream.
det. J. Kallunki 1986.

8354.

(5)

Orchidac.
Epiphyte on palm trunk. Perianth greenish white, lip white, column white at base, purple at tip. Pollinia yellow.

8355. Banisteriopsis stellaris (Gr.) Gates Malpigh.
(7) Liana climbing over shrubs.
In low pasture. Fls. white.
det. B. Gates 1982
8356. Cedrela fissilis Vellozo.
(11) Tree 7 m. tall in hillside pasture.
Fruits brown, det. T.D. Pennington
1982.
8357. CHIONANTHUS HASSLERIANA (CHOD.) GREEN (1994) det. aff. 1982.
Linociera hassleriana (Chod.) Hassler Oleac.
(9) Tree 8 m tall x 20 cm diam.
WOOD Fruits green. Growing in hillside
pasture det. T. Plowman 1986.
8358. ALIBERTIA AFF. MACROPHYLLA SCHUM. Rubiac.
(11) Treelet 4 m. tall growing on
top of granite outcrop. Fruits
shiny, green. det. J. Kirkbride 1981
8359. Buchenavia tomentosa Eichl. Combret.
(11) Treelet 6 m tall x 20 cm. diam.
growing in cerrado on top of hill.
Fruits green. det. C. Stace 1981.
8360. Hymenaea courbaril L. Legum.
(11) Tree 10 m. tall x 20 cm. diam.
in cerrado on hillside.
Fruits shiny green. det. R. S. Cowan
1981

FEB 4 1980

4 Feb 1980.

8361. Polypodium bombycinum Maxon Polypodiaceae.
(6) Fern growing on exposed granitic rock. det. J.T. Mickel & L. Atehortua, 1981

8362 Bromelia balansae Mez. Bromeliac.
(8) Terrestrial in shade of gallery forest along creek. Lvs. 2-2.5 m. tall. Infl. erect, fruit green. det. L. B. Smith 1981

8363. Mikania PSILOSTACHYA DC. Composit.
(11) Climbing vine to 3 m. in edge of gallery forest. Florets white, anthers dark brownish purple. (DET. H. ROBINSON, 1981)

8364. Eragrostis maypurensis (H.B.K.) ^{STEUD.} Gram.
(11) In weedy pasture (DET. G. DAVIDSE, 1980)

8365. Setaria geniculata Gram.
(2) Spikelets reddish brown. In cerrado.

8366. Paspalum plicatulum Michx. Gram.
(3) Herb in weedy pasture det. Davidse 1980

8367. Smilax Liliac.
(11) Climbing vine to 2 m. tall. Fruit green. Edge of gallery forest along small stream

FEB 4 1980

8368. Olyra Gram.
(1) In gallery forest along stream.

8369. Commelina erecta L. Commelinac.
(4) Erect herb on granitic out-
crop in shade of trees. Petals
blue, anthers yellow, det. R. Faden 1981.

8370. Calyptracarya glomerulata Urb. Cyperac.
(6) In marshy area in gallery forest
along small stream. det. G. Davidse 1980

8371. THELYPTERIS (SUBG. AMAUROPELTA, SECT. ADENPELTA) FERN
(9) Terrestrial fern in shade of
gallery forest along small stream.

8372. Ichnanthus tenuis (PRESL) HITCHC. & CHASE Gram.
(2) Creeping herb in cerrado in shade
of trees. (DET. G. DAVIDSE, 1980)

8373. Scleria lithosperma (Sw.) Nees Cyperac.
F NY (5) In cerrado on hillside.
det. T. Koyama 1981

8374. Paspalum crustarium Swallen Gram.
(2) In cerrado on hillside.
det. Davidse 1980.

FEB 4 1980

8375. Byttneria Sterculiac.

(1) Erect herb in open marshy grassland in Cerrado. Petals brownish yellow.

8376. Coelorachis aurita (STEUD.) A. CAMUS Gram.
DET. G. DAVIDSE, 1980

(6) Herb in open marshy grassland in cerrado.

(Hack.) Hack.
8377. Andropogon selleanus Gram.

(10) Herb in open marshy grassland in cerrado. det. G. Davidse 1982.

8378. Sebastiania bidentata (Mart.) Pax Euphorb.
(10) Erect to sprawling herb with tuberous base in open marshy grassland in cerrado.

Male inflorescence green, anthers yellow. Sap clear.
det. M. J. Huft 1984.

8379. Siparuna Monimiac.

(4) Shrub 2 m. tall with spreading branches in shade of gallery forest. Fruit green.

8380. Paspalum Gram.

(1) Herb in open marshy grassland in cerrado.

FEB 4 1980

8381. Matayba sp. GUIANENSIS AUBLET Meliac.
(5) Treelet 3 m. tall in shade of gallery forest. Fruits green with reddish blush. det. T.D. Pennington 1982, 1994
8382. Guarea kunthiana A. Juss. Meliac.
(11) Tree 10 m. tall x 15 cm. diam. in gallery forest along creek. Fruit green, red at maturity. 4-valved, seeds orange. det. T.D. Pennington 1982. Britt. & Killip
8383. ~~Cassia~~ Chamaecrista trichopoda (Benth.) Legum.
(8) Decumbent herb to 0.4 m long. in weedy pasture. Petals deep yellow. det. R. Barneby 1981
8384. Cassia Legum.
(1) Sub shrub in weedy pasture. Fls. yellow
8385. Trachyphyllum dusenii (C. Müll. ex. Broth) Broth. Bryophyta
(5) Bryophyte on corky trunk of Erythroxylum sp. in gallery forest along stream. det. B. Buck 1981
8386. Hyophila arborea (Mitt.) Jacq. Musci
(11) Moss on living tree trunk in cerrado. det. W. C. Steere 1981

FEB 4 1980

8386A. Trachyphyllum duseinii (C. Müll. ex Broth.)
det. W.R. Buck 1984. Broth.
Arac.

8387. Dieffenbachia AGLAONEMATIFOLIA ENGLER

(8) Sprawling colony on river bank, stems to 1m. long; leaves green veins slightly paler; spathe green. Fruiting spadix bending downwards. Latex white with strong odor of skunk, caustic to skin!
DET. J. CROAT, 2000

8388. Bryum coronatum Schwaegr. Musci

(7) Moss on charred fallen log in gallery forest along creek.
det. W. E. Steere 1981

8389. Dorstenia Morac.

(2) Herb with thick taproot on banks of creek in gallery forest. Receptacle dark purple; flowers brown, fruits cream.

8390. Solanum crinitum Lam. Solanac.

(11) Tree 4 m. tall x 10 cm. diam. with spreading crown growing in open roadside. Calyx tawny. Corolla bright blue-violet. det. M. Nees 1982.

8391. Rudgea Rubiace.

(3) Shrub 2 m. tall growing in creek in gallery forest. Fruits bright orange, black at maturity.

8392. Adiantum aff. serrato-dentatum Willd. fern
(5) Herb in gallery forest along creek.
det. J.T. Mickel; L. Atehortua 1981

8393. PTEROCADLON VIRGATUM (L.) DC. Composit.
(9) Herb in barren open roadside.
Florets cream' (DET. H. ROBINSON 1981)

8394. Solanum agrarium Sendtn. Solanac.
(3) Spring subshrub 0.8 m tall in barren
roadside. Corolla greenish yellow. Anthers
greenish yellow. Fruit greenish
white turning dark purple black
except for green patch at tip;
globose. det. M. Nee 1982.

8395. Solanum americanum Mill. Solanac.
(3) Herb 0.7 m tall in open barren
roadside. Corolla white. Fruit black
at maturity. det. M. Nee 1982.

8396. Erythroxylum suberosum ^{St. Hil.} Erythro x
(8) Dwarf treelet 2.5 m. tall in
open grazed cerrado along road. Bark
thick, corky, light grey. Leaves cori-
aceous, dark green above with yellow
hydrib, very pale whitish green beneath
dull both sides. Pedicel pale green.

FIS → (A)
fotos F
AAU

FEB 4 1980

Petals creamy white; long styled plant.

8397. Dichorisandra perforans C. B. Clarke Commelinac.

(4)

NY
US

photos
Ⓐ → US

Rosulate herb on steep banks of creek in gallery forest in Cerrado. Immature leaves dark green with dark purple streak in center and dark purple margins; mature leaves green above, pale silvery green beneath. Inflorescence terminal or arising from decumbent stem in older plants. Rachis and bracts pale green. Sepals translucent greenish white. Petals deep blue, basal 3 mm. white. Filaments white, anthers pale blue. Capsules light yellowish green. Roots bearing swollen brown storage organs at tips. det. R. Faden 1981.

8398. Utricularia Lentibular.

(1)

Herb in open marshy area along stream in cerrado. Corolla completely yellow.

8399.

Orchidac.

- (1) Terrestrial orchid in marshy area in gallery forest. Perianth translucent pale brown. Lip white with two lateral, red-violet nectar guides.

8400

Erythroxylum pruinosum O.E. Erythrox.
Schulz Det. T. Plowman

(13)

gnarled dwarf treelet to 2 m. tall ♀ is wing on hillside in cerrado. Trunk to 8 cm. diameter; outer bark pale grey, corky, deeply fissured, charred; inner bark reddish. Twigs red-brown. Leaves dull, dark green above, with yellow midrib, very pale green beneath; lamina strongly curved upwards laterally. Sterile. Infrequent.

growing with Erythroxylum suberosum but leaves much less damaged by insects.

WOOD
shw.

LVS → (A)

WOOD

Uw

MADw

Aw

Kw

8401A.

Erythroxylum suberosum
tree 6-8 m tall. Sterile.

Fotos
only

FEB 4 1980

! L. CLARK 1995

GUADUA PANICULATA MUNRO (DET. X. LONDONO) 1990

8401 Bambusa paniculata (Monroe) Hackel Gram.
(42) Bamboo 8-14 m. tall. Culms

Rhizomes
& culms
separate

det. T. Soderstrom
1981.

erect at base, curving in upper half. Culm blades readily deciduous. Only a few individuals observed in flower in population of thousands of plants. Mature leaves mostly deciduous on flowering individual. Mature leaf collection from different individual. Gallery forest along river.

8402 Dioscorea

(2) Vine in Guadua forest in Cerrado. Fruits purplish brown.

8403 Smilax

Liliac

(10) Prickly vine at edge of Guadua woodland in Cerrado. Fruits light green.

8404

(10)

Tree 15 m. tall x 25 cm. Guttiferac
diam. with white latex. Fruit green. In gallery forest.

FEB 4 1980

Erythrox.

8405. Erythroxylum pruinatum O.E. Schulz

Det. T. Plowman

(10)
K
F

Dwarf gnarled treelet 1.5 m. tall in open hillside cerrado. Trunk to 6 cm. diam; outer bark light grey, deeply fissured, charred by fire, thick corky; inner bark red. Twigs red brown. Leaves dull, dark green above; dull very pale green beneath, midrib yellowish on both sides; lamina curving upwards laterally. Sterile. Infrequent.

8406. Erythroxylum leptoneurum Erythrox.

(9)

O.E. Schulz

Det. T. Plowman

photos.

Low shrub to 60 cm. tall with spreading branches. Bark red-brown. Leaves lightly bullate, margins strongly undulate; medium green above, lighter green beneath, somewhat shiny on both sides. Sterile.

Growing in understory of gallery forest along river in sandy soil. Locally abundant.

FEB 4 1980

8407. ~~Strobilium~~ Tabebuia caraiba (Mart.) Bur. Bignoniac.
(3) Tree 5 m. tall x 15 cm. diam. in cerrado on hillside. Sterile. det. A. Gentry 1981
8408. Aristolochia Aristoloch.
(5) Liana 4 m. tall in open thicket on river bank. Flowers greenish brown, yellow green within, hood with purplish spots. Fruit green.
8409. Arrabidaea corallina (Jacq.) Sandw. Bignoniac.
(3) Liana 10 m. tall in margin of gallery forest along road sterile. det. A. Gentry 1981
8410. Evolvulus filipes Mart. Convolvul.
(6) Herb with many erect stems, in depression on granite outcrop. Flowers white, withering blue. Fruits green. det. D.F. Austin 1981
8411. Manihot Euphorb.
(10) Tall spindly shrub 3 m. tall in margin of gallery forest. Latex white. Perianth cream. Arising from thick perennial root.

FEB 4 1980

8412. Miconia MINUTIFLORA (Bonpl.) DC. Melastom.
(10) Treelet 4 m. tall in margin of gallery forest. Flowers white. Fruits green. (DET. J. J. WURDACK, 1981)

8413. Chromolaena epaleacea Gardn. Composit.
(2) Subshrub 1.5 m. tall in open hillside in cerrado. Florets lilac.
det. H. Robinson 1981

8414. Manihot Euphorb.
(6) Tall spindly arching shrub 4 m. tall. Latex white. Perianth yellow-green with dull red streaks, light green within. Stems white. Fruit green. Growing at edge of granite outcrop in margin of gallery forest.

8415. Guazuma ulmifolia Lam. Sterculia
(3) Subshrub 50-70 cm. in shade of gallery forest. det. P. Matekaitis 1982

= SCOFFLERA MOROTOTONI (Aubl.) MAGUIRE, STEYERMARK & FRODIN
8416. Didymopanax morototoni (Aubl.) Dcne. + Pl. Araliac.
(7) Tree 12 m. tall x 25 cm. diameter. Corolla light green. Anthers greenish yellow. Leaves shiny light green above; dull whitish
DET. D. FRODIN 1990

FEB 4 1980

green beneath. In gallery forest
along river. det. T. Plowman 1983.

8417.

Capparac.

(1) Erect herb. Petals and
stigmas yellow. Style white.
Fruit green. In crack of
granitic outcrop.

8418.

Composit.

(1) Erect herb in cerrado.
Florets pale lilac.

8419. Cyperus schomburgkianus Nees Cyperac.

F (7) ♀ Herb in depression on gra-
nitic outcrop. Spikelets white,
det. T. Koyama 1981

8420. Tapura amazonica Poepp. & R. Endl. Dichapetalac.

(21) Tree 15 m tall x 20 cm
diam. in gallery forest. Leaves
brittle with recurved margins,
shiny light green above, dull
light green beneath; fruit green.
det. G.T. Prance 1981

8421. Helicteres cf. brevispira St. Hil. Sterculiac.

(4) Shrub 2.5 m. in gallery
forest along stream. Fruits brown.
det. C. Cristobal 1981.

8422. Bomarea Ameryllid.

- (3) Vine among shrubs in cerrado.
 Sepals dark pink abaxially green at tip; pinkish white adaxially with dark purple spots along margin.
 Petals greenish yellow, midrib dark pink abaxially; greenish yellow adaxially with dark purple spots.
 Stigma white.

8423. Indigifera suffruticosa Mill. Legum.

- (8) Treelet 2.5 m. tall in open thicket along river. Fls. pink.
 det. R. Barneby 1981

8424. Mabea paniculatum Benth. Euphorbiac.

- (8) Treelet 3 m. tall in gallery forest along creek in cerrado.
 Flowers cream. Latex white.
 det. M. J. Huft 1984.

8425. Mauritia armata Mart. Palmae

- (21) Along stream in gallery forest.
 Tree 8 m. tall. Trunk spiny.
 Petiole 0.75-1.0 m. long. Inflorescences curving downward.
 Leaves glaucous beneath. Petiole base waxy.
 det. A. Henderson 1984

Petiole
 base +
 trunk
 separate

8426. Erythroxylum daphnites Erythrox.
 (13) Mart. Det. T. Plowman

F Tree 3 m. tall x 6 cm.

U diameter growing in under-
 story of hillside forest along
 Small creek. Outer bark corky,
 light brown, furrowed,
 inner bark reddish brown.

WOOD

Uw MADW

FR (A)
 fotos

Lvs. dark green above, lighter
 green beneath, thin coriaceous.
 Fruits pale green, frequent.
 = 8209 8230, 8337, 8338.

8427. Erythroxylum daphnites Erythrox.
 (5) Mart. Det. T. Plowman

Tree 7 m. high x 20 cm.

diameter growing in understory
 of hillside forest along Small
 Creek. Outer bark corky, light
 brown, roughly furrowed
 exfoliating, 4-5 mm thick,
 inner bark red brown, 1 cm
 thick; wood yellowish, hard.
 Leaves dark green above,
 lighter green beneath.
 Sterile. Frequent.

WOOD

Uw
 MADW

= 8426. etc.

FEB 4 1980

8428 ^{Erythrox} Erythroxylum subracemosum Turcz.

(10)

Det. T. Plowman

F
UBC

Treelet 3.5 m tall x 5 cm diameter growing in understory of hillside forest along small creek. Branches reddish brown. Leaves dull dark green above; pale glaucous green dull beneath. Flush leaves bright yellow green. Immature fruits pale green. Gall infested. Frequent.

8429. PARMOTREMA PROGENES HALE

Lichen

(3)

On Branch of Tapura in hillside forest along creek.

8430. Usnea

Lichen

(3)

On branch of Tapura in hillside forest along creek.

8431. Langsdorffia hypogaea MART. Balanophorac.

(7)

Growing on soil under Tapura in shade of forest on hillside.

TO UBC
FOR CHEM.
ANAL.

Rhizome fleshy, cream, with light tan hairs. Scales rigid,

(A)
total.

FEB 4 1980

dirty yellow, dark red laterally,
margin whitish. Pedicel fleshy
whitish. Perianth dark red-purple,
reflexed at anthesis, anthers
and pollen white.

①-7K

8432. EUGENIA Myrtaceae

(7) Tree 4 m. tall * 7 cm
diam. growing hillside
forest near small creek.
Fruits green. (DET. L. LANDRUM, 1981)

8433. Bauhinia aculeata L. Legum.

(5) Shrub 2.5 m. tall with
spreading branches growing
in open thickets along
river. Petals white.
det. J. Grimes 1981

8434. Scaphyglottis prolifera Cogn. Orchidaceae

(5) Epiphyte on tree trunk
in hillside forest. Perianth
pale greenish white. Lip
pure white. det. B.R. Adams 1987.

8435. Pityrogramma CALOMELANDS (L.) LINK FERN

(8) Terrestrial fern in pasture
margin along stream. Leaves
white beneath. DET. MICKEL & ATEWORTIA 1981

FEB 4 1980

8436. Selaginella Selaginellac.
(11) Prostrate herb in shade of hillside forest

8437. Euphorbiac.
(2) Erect herb from thickened rootstalk. Growing in cerrado. Perianth pale green, lobes with dark red streak in center. Anthers bright yellow.

foto.

FEB 6 1980

BRAZIL: Estado Para, Conceição do Araguaia. Cemeterio Municipal. 230 m. 6 Feb 1980
Approx. 8° 15' S, 49° 17' W.

8438. Bredemeyera FLORIBUNDA WILLD. Polygalac.
(11) Shrub 1.5 m. tall on cemetery wall. Sterib. N.V. "Pau de ovo"
Use: " = root bark is scraped and beaten with water to make thick foam resembling egg white. Foam mixed with sugar and cinnamon and eaten.
(DET. J. J. WURDACK, 1981)

8439. MICROTEA MAYPURENSIS (KUNTH) G. DON PHYTOLOG.
(5) Herb in cemetery. Fls. cream.
(DET. J. KALLUNKI, 1981)

FEB 8 1980

Collectors: T. Plowman, G. Davidse
N.A. Rosa, C. S. Rosario & M. R. dos Santos.

BRAZIL: Estado Pará, Município
Conceição do Araguaia. Range of low
hills 20 km. west of Redenção, near Corrego
São João and Troncamento Santa Teresa.
8 February, 1980 Alt. 350-620 m.
Approx. 8° 03' S, 50° 10' W.

8440 XANTHOSOMA SYNGONIIFOLIA Rusby Araceae

(12) Glabrous terrestrial herb in shallow
soil pocket among bromeliads on
rock outcrop. Fruits green.
DET. E.G. GONCALVES 2002

8441. Erythroxylum sp. aff. E. rufum Cav. Erythroxyl.

(12) Tree 3 m. tall at edge of
rock outcrop on forested hill.
leaves coriaceous, shiny dark
green above, dull light green
beneath, midrib yellowish both
sides.
Det. T. Plowman

fotos

8442. Costus spiralis (Jacq.) Roscoe var. spiralis
Zingiberaceae

(11) Herb to 1.5 m. tall in forest
margin along road. Bracts and
flowers deep carmine red.
Fruit white. det. P.J.M. Maas 1981

foto

8443. Astroemeria amazonica Ducke Amaryllid

(10) Erect herb on rock outcrop.
Sepals red-orange. Petals deep red
orange, yellow toward base, with

10 sets

foto

dark purple longitudinal
veins. Infl. on separate stalk
surpassing the leafy stalk.
Occasional, with numerous tubers.

8444. Amasonia arborea H.B.K. Verbenac.
(8)
Herb in forest. Bracts and
calyx dark red. Fruit green.
foto
det. H. N. Moldenke 1981

8445. Calathea sp. sect. Nudiscape Marantac.
(5)
Herb to 1 m. tall in forest
margin at edge of rock outcrop
Bracts green, recurving. Fls. light
yellow throughout.
foto

8446. Calathea sp. Marantac.
(8)
Herb in flat open forest and
forest margins. Inflorescence
erect in flower, deflexed in
fruit. Bracts yellowish green.
Calyx and corolla white. Peta-
loid staminode creamy white,
yellowish with age. Collose & cucul-
late staminodes yellow at tip.
foto

8447. Maranta Marant
(9)
Slender herb in forest margin
along road. Bracts yellow green
soon turning brown. Flowers
foto

FEB 8 1980

Callose staminode with patch of purple near apex,

creamy white. Inflorescence deflexed in fruit.

8448. Costus subsessilis (Nees & Mart.) ^{Mazz.} Zingib.

det. P. Maas 1981

(11)

Rosulate herb with decumbent reddish stems, calyx and corolla white. Staminodes bright

fotos

lyon

yellow. Frequent in open woods and cleared fields. Sometimes epiphytic on palm trunks.

8449. Dichorisan dralexandra (Aubl.) ^{Standl.} Commelin.

(12)

Sprawling herb in open newly planted field.

(cytology)

2 petals dark blue except for triangular white spot at base; lower petal dark blue with broad white stripe at center extending to base. Fruits shiny, green, purple black in upper half.

fotos
US

det. R. Falden 1981

8450. Citharexylum macrophyllum ^{Poir.} Verbenac.

(11)

Tree 5 m. tall with trunk 4 cm. diam. growing in forest margin. Fruits shiny pale green. det. H. N. Moldenke 1981

8451. Olyra ciliatifolia Raddi. Gram. det. Davidse 1980.
 (12) Herb. Spikelets green to reddish brown. Anthers yellow. Bee observed collecting pollen which was added to pollen load. Forest margin.

8452. Olyra latifolia L. Gram.
 (10) (DET. G. DAVIDSE, 1980) Erect herb to 2 m. Culms mottled purple. Forest margin.

8453. Helsiis CAYENNENSIS (Sw.) Spreng. Balanoph.

(9) Root parasite in open woods in gravelly soils.

Bracts dark red orange.

Flowers white. Peduncle deep pink. Rhizome horizontal, creamy white.

ssp. elegans

8454. Trichilia elegans A. Juss. Meliac.

(7) Tree 10 m tall in forest. Fruit dull red, dehiscent in 3 valves. Seed black with red aril.

8454A. det. T. D. Pennington 1982.

8455 Monotagma Marant.

(11) Herb 1-1.5 m. tall in forest. Bracts green. Petals greenish. Petaloid staminoids creamy white. Callose staminal yellow.

photos
A → K

8456 Piper arboreum Aublet var. arboreum Piperac.

(11) Tree 4 m. tall in open forest. Young spikes cream. det. R. Callejas 1981

~~photo~~
F NY

8457 Phinzea albolineata (Hook.) Benth. ^{ex Hemsl.} Gesneriac.

(10) Diminutive herb on moist rock faces and fallen logs in rocky gully. Peduncle red. Sepals cream. Corolla pure white. det. L. Skog 1980.

photo
seed-william
uc

8458 Psychotria RACEMOSA (Aubl.) RAEUSCH Rubiac.

(11) Understory subshrub. Fruits orange, immature. det. KIRKBRIDE 1981

8459 Xanthosoma helleborifolium (Jacq.) Schott Araceae

(11) Terrestrial herb in forest. Petiole smooth, dark brownish purple, not mottled. Tuber subglobose flattened dorsiventrally. 3-4 cm diameter, white.

det. T. Croat
1982.

FEB 8 1980

det. J. Bogner 1985.

8460 Xanthosoma plowmanii Bogner Araceae

(11) Pubescent terrestrial herb growing in the
cracks on open rock outcrop.
Tuber hemispheroidal, flat on
top bearing numerous small black
tubercles; tuber white within.
Leaves sometimes with white stripe
along central nerves. Sterile.

live
SEL
80-362

8461 ZANTHOXYLUM RHOIFOLIUM LAM. Rutac.

(11) Tree 5 m. tall in forest margin
along road. DET. J. KALLUNKI 1998

8462 ASPASIA VARIEGATA LINDLEY Orchidac.

(6) Epiphyte on fallen log in
forest. Fruits green.
DET. M.W. CHASE 1987

8463 Asplenium auritum Sw. Fern

(6) Epiphyte on fallen log.
det. J.T. Mickel & L. Atehortua 1981

8464. Gesneriac.

(11) In shade of forest in cracks
of boulders. Corolla blue violet
white at very base.

8465 Oxalis hedyarifolia Raddi Oxalidac.

(10) Herb in forest margin in
shade. Flowers deep yellow. det. Lowrey
1981.

FEB 8 1980

8466. Quina Quinac.
(11) Tree 4.5 m. x 10 cm diam.
foto Roadside in forest margin.
Fruits green.

8467. Unonopsis Annon.
(7) Shrub 3 m. tall in forest
margin. Fruit orange.

8468. Virola sebifera Myristic.
(11) Tree 15 m. tall x 15 cm.
diameter in forest. Inflorescence
and flowers rusty orange.

8469. Piper marginatum Jacq. Piperaceae
(10) Shrub 2.5 m. in open road-
foto F side. Spikes erect, curving
apically, cream; green in fruit.
det. N.A. Rosa 1980

8470. Dioscorea Dioscoreac.
(8) Vine from tuberos base
in forest margin. Flowers
tawny.

8471. Encyclia fragrans (Sw.) Lemee Orchidac.
(17) Epiphyte in forest. Perianth
greenish white. Lip white with fine

FEB 8 1980

dark red-purple lines. Pollinia deep yellow. Frequent. det. E. A. Christenson 1983

8472. Acacia polyphylla Legum.

(11) Tree 6 m. x 20 cm. diam.

WOOD at base of hill. Stamens creamy white,

8473. Siparuna Monimiac.

(11) Tree 4 m. tall in forest margin. FRuits greenish yellow

8474. Cupania Sapindac.

(12) Tree 7 m. tall x 12 cm. diam. Fruit green, dehiscent, exposing shiny black seeds with yellow aril

8475. Guarea guidonia (L.) SLEWNER Meliac.

(13) Tree 8 m. tall x 20 cm. diam. in forest margin. Flowers creamy white. Fruit brownish green.
(DET. T. FLOWMAN, 1980)

8476. Ficus trigona L.f. Moraceae

(11) Tree 15 m. tall among large boulders on steep hillside. Latex white. Fruit green.

det. C. C. Berg 1981

FEB 8 1980

SSP. RUBRIFLORA BRITTICH (INED.)

8477. Clusia WEDDELLIANA PL. Tr. Guttiferae

(11) Scrambling tree with many prop roots, some becoming stems, 15 m. across, on outcropping boulders on steep hillside. Latex yellow, Fruit green. DET. V. BRITTICH 1999 (NY)

8478. Phoradendron Loranthac.

(6) Hemiparasite on bignoniaceous vine (#8520). Fruits greenish orange.

8479. Calathea sect Comosae Marant.

(10) Herb at base of rocky outcrop in forest margin on steep hillside. Calyx + corolla white. Petaloid staminoide purple. Sterile apical bracts green. Fertile bracts white.

8480. Cissus sicyoides L. Vitac.

(5) Vine in forest on steep hillside among boulders. Petals pale green.

det. J. Kallunki 1981

FEB 8 1980

det. J. P. P. Carauta 1983.

8481. Dorstenia amazonica Carauta et al. Moraceae

(14)
foto

Herb in forest on bank of a gully. Infl. purple brown. Rhizome cream without, yellow within with white latex.

8482. Bauhinia aff. longicuspis Spr. ^{ex Benth.} Legum.

(11)

Tree 12 m. tall x 70 cm diam. growing among large boulders at edge of rocky outcrop in forest. Sepals green. Petals and filaments rose pink.

8483. Policourea subulata Huber
det. P. Matekzitis 1983

Rubiaceae

(9)

Shrub in forest 1.0 m. tall. Rachis and pedicel carmine red; fruit green.

8484. Dichorisandra (AUBL.) STANDL. S. LATU
Sp. HEXANDRA Commelinac.

(12)

Solitary or branched, arching herb on moist banks in rocky gully in forest. Inflorescence terminal, pendulous under the leaves. All three petals blue violet throughout. Fruits yellowish green. Roots bearing several storage tubers to 3 cm long. det. R. Faden 1981.

(A)
fotos

FEB 8 1980

8485. Sapindac
(13) Tree 8 m. tall x 30 cm. diam.
Fruit greenish brown.

8486. Hylenaea praecelsa (Miers) A.C. Smith Hippocrateac
(4) Liana in forest. Fruit
brown. det. A.M.W. Mennega 1981

8487. Polypodium PERCUSSUM Cav. Fern
(7) Creeping epiphyte on fallen
log. Leaves shiny.
DET. MICKEL & ATEHORTUA 1981

8488. Margaritaria nobilis L.f. Euphorb.
(12) Tree 10 m x 15 cm. diam.
WOOD in forest, margin det. M.J. Huft 1984.
P. MUCRONATUM (DC.) K&D. (KUIJT 1994)

8489. Phoradendron emarginatum Mart. Loranthac.
(9) Hemiparasite on Combretum
(# 8490). Flowers green.
det. J. Kuijt 1981

8490. Combretum duartianum Combess. Combretac.
(11) Tree 6 m. tall x 5 cm.
diam. Fruit green.

8491. COMMIPHORA LEPTOPHLOEOS (MART.) GILLET Burserac.
(12) Tree 7 m. tall x 20 cm. diam.
WOOD with papery bark. Fruit

brownish. Growing on rock outcrop on steep forested hillside.

C. DUARTEANA CAMB. [J.A. LOMBARDI 1993]

8492. Cissus erosa L. Rich. Vitaceae

(9) Vine sprawling among shrubs on open rocky outcrop. Stems reddish. Flowers cream. det. C. Niezgodz 1984.

8493. Diospyros artanthifolia Mart. Ebenac.

(11) Tree 16 m. tall x 30 cm diam, in forest. Fruits globose, green. det. P. Cavalcante 1985.

WOOD

8494. Gutteria Annonac.

(12) Tree 6 m tall x 20 cm diam. Perianth greenish brown. growing in forest at foot of hill,

8495. Piper callosum Ruiz & Pavon Piperac.

(13) Abundant low spreading shrub 0.5 m tall in forest understory. Spikes cream, erect or recurving, green in fruit. det. R. Callejas 1981

F

FEB 8 1980

8496. WULFIA BACCATA (L.F.) O. KUNTZE Composit
(11) Subshrub 2 m. tall in
forest margin. Florets yellow.
Fruit green. (DET. H. ROBINSON 1981)

8497. HEBECLINIUM MACROPHYLLUM (L.) DC Composit
(8) Herb 1 m. tall in open
roadside. Florets white
(DET. H. ROBINSON 1981)

8498. Pothomorphe peltata (L.) Miq. Piperac.
(3) Herb 1 m. tall in clearing
in forest det. R. Callejas 1981

8499. Laportea aestuans (L.) Chew Urticaceae
(11) Urticating herb on open rocky out-
crop on hillside. Stems
red. Fls. cream. det. C. Niessoda
1984.

8500. Scleria pterota Presl. Cyperac.
F (7) Herb in forest margin.
det. G. Davidse 1980

8501. Solanum asperum Rich. Solanaceae
(11) Shrub 2.5 m tall in
roadside thicket. Corolla
white.
det. W.G. D'Arcy 1981.

8502. Apeiba TIBOURBOU AUBL. Tiliac.
 (11) Treelet 10 m. tall. Calyx rusty
 red. Corolla yellow. DET. L.J. DORR 1998 (NY)

F 8503. Scleria bracteata Cav. Cyperac.
 (7) Herb in forest margin.

seed 8504. Psychotria odorata (Willd. ex R. & S.) M. Arg. Rubiac.
 (11) Subshrub to 1 m. tall in
 forest understory. Bracts
 deep red-purple. Fruits sky-
 blue. Foliage said to be very poisonous
 to cattle. det. J. H. Kirkbride 1981

foto 8505. Castus lanceolatus A. P. Pet. subsp. pulchriflorus (Ducke) Mads. Zingib.
 (6) Herb 0.6 m tall in forest
 margin. Calyx green. Corolla stamens
 and staminode deep red. Labellum with yellowish
 veins. det. P. J. M. Mads 1981

8506. Bauhinia Legum.
 (3) Spindly subshrub on open
 rocky outcrop on steep hill-
 side. Fruits green.

8507. Pilostyles blanchetii R. Br. Rafflesiac.
 (11) Stem parasite on Bauhinia
 tree 15 m. tall. Flowers
 very dark purple brown.

! KALLUNKI, 1990 det. Plowman + Nyegeza 1984

FEB 8 1980

C. VERTICILLATA (L.) NICOLSON & JARVIS
[J.A. LOMBARDI, 1993] Vitaceae

8508. Cissus sicyoides L. Vitaceae
(5) Sprawling vine on open
F Rocky outcrop. Flowers
cream. det. J. Kallunki 1981

8509. Commelina erecta L. Commelinaceae

(2) Suberect herb on open
NY rocky outcrop. Petals sky
MG blue det. R. Faden 1981.

8510. Cissus erosa Rich. Vitaceae

(6) Sprawling vine on open
rocky outcrop. Inflorescence
and flowers red, stamens
yellow. det. J. Kallunki 1981

8511. ICHTYOTHERE DAVIDSON H. ROBINSON Compositae
(DET. H. ROBINSON, 1981)

(6) Erect herb, on open rock
outcrop on steep hillside.
Florets white.

Psiguria umbrosa (Kunth) C. Jeffrey

8512. Gurania Cucurbitaceae
(7) Herbaceous vine climbing
in shrubs in forest on top
of boulder. Corolla orange.
Fruits green.

det. C. Jeffrey 1981

8513. Adiantum lunulatum Burm. Fern
 (11) Delicate fern rooting at the
 tip. Steep sides of gully in
 forest. det. Mickel + Atehortua 1982

8514. Anemia phyllitidis (L.) Sw. Fern
 (4) Herb in rocky gully in
 forest. det. J.T. Mickel; L. Atehortua 1981

8515. Peperomia sulcata C. DC. Piperac.
 (16) Pale green herb on rocks
 F in gully in forest. Spikes
 cream. Rhizome fleshy.
 det. R. Callejas 1981

8516. Mimosa quadrivalvis L. var. leptocarpa (DC.) Benth. Legum.
 (10) Erect subshrub to 1 m
 in crack in rocky outcrop.
 Filaments deep pink.
 det. R. Barneby 1981

8517. Thrasya petrosa (TRIN.) CHASE Gram.
 (9) Herb on rocky outcrop on
 steep hillside. (DET. G. DAVIDSE, 1980)

8518. Helicteres Stercul.
 (9) Shrub 2 m. tall. Flowers
 red, growing on open rocky
 outcrop.

FEB 8 1980

8519. Pilea hyalina Fenzl Urticac.

(8) Delicate herb in seepage on rocky outcrop. Fls. creamy white. det. C. Niezgodza 1984.

8520. Cuspidaria laterifolia (Mart.) DC. Bignoniac.

(5) High climbing liana. Fruits brown. det. A. Gentry 1981

8521. Philodendron acutatum Schott Aracac.

(10) Vine forming patches on open rocky outcrop. Leaves shiny above, spathes green red at base within. Clear sap with odor of carrot.

foto
det. T. Croat
1982

8522. Sida uchoae Monteiro Malvac.

(2) Weed in pasture. det. P. Fryxell 1982

8523. Ageratum conyzoides L. Compos.

(5) Weed in pasture. Flowers white. det. H. Robinson 1981

8524. Diodia spicata Miguel ex char. Rubiac.

(2) Weed in pasture. det. J. H. Kirkbride 1981

8525. Aegiphila amazonica Mold. det. H. N. Mullerke 81. Verbenac.

(14) Shrub 2.5 m tall in pasture. Fls. white.

8526. Pitcairnia lanuginosa R. & P. Bromeliac.

(9) Mat-forming bromeliad on rock outcrop on steep open hillside. Peduncle and Calyx dark red. Petals pale yellowish brown. det. L. B. Smith 1981

8527. Adiantum AFF. BRASILIENSE RADDI Fern

(10) Terrestrial fern on banks of moist gully in forest.
DET. MICKEL & ATEHORTUA, 1981

8528. Peperomia pellucidoides Yuncker Piperac.

(10) Delicate herb in depressions on steep open rocky outcrop in seepage. Spikes light green. Stems reddish at nodes.
det. R. Callejas 1981

8529 Paspalum malacophyllum Trin. Gram

(3) In shrubby area at edge of rock outcrop, det. G. Davidse 1983

8530. TIBOUCHINA POGONANTHERA (NAUD.) ^{COGN.} Molastom.

(10) Shrub 2 m. tall. Petals pale reddish violet. Filaments white. Bark papery. Growing on rock outcrop.
(DET. J. J. WÜRDACK, 1981)

FEB 8. 1980

8531. Borreria Rubiac.
(10) Erect herb on rock outcrop
on hillside. Flowers white.

8532. Annonac.
(4) Tree 20 m. tall. Fruits
brown.

8533. Manihot Euphorb.
(11) Erect shrub 2 m. tall.
Latex white. Perianth
greenish white with green veins.
Anthers yellow. Nectaries orange.

8534. Cipura flava Rav. Iridac.
(9) Herb on exposed rock
outcrop on hillside. Flowers
yellow. det. P. Ravenna 1981.

8535. Musci
(11) Under rock outcrop in
shady recess.

8536. Bryum andicola Hook. Musci
(11) On rock outcrop in wet
area.

det. W. C. Steere 1981

9 Feb 1980

8537 Protium unifoliolata Burserac.
(7) Tree 8 m tall x 8 cm diam.
in forest. Fruits bright red,
resinous.

8538. Ectropothecium aeruginosum (C.M.) Mitt. Musci
Moss on charred fallen log
in forest det. W.C. Steere 1981

8539. Bryophyta
Bryophyte on charred fallen
log in forest.

8540. Phenakospermum guyanense Endl. Musaceae
(80) det. T. Plowman 1980.

11 sets

(A.A)
fotos
"wood"

Arborescent herb 10 m tall
growing in forest clearing. Frequent.
Trunk 2-3 m. tall, to 10 cm.
diameter, dark brown. Petiole
1 m. long, leaf blade 2-3 m.
long, ovate, truncate at apex.
Inflorescence terminal, pruriose
throughout. Branch bracts 3-4,
distichous, 10-15 cm apart, to
40 cm long, 12-13 cm. wide,
light yellowish green, with thick
waxy covering. Floral bracts

FEB 9 1980

creamy white, fleshy. Pedicel and the 5 perianth parts creamy

Perianth opening by spring mechanism

Inner 2 segments with narrow yellowish green margins

Filaments white, anthers creamy dehiscing in bud, pollen creamy white. Style and stigma creamy the stigma with a narrow green

style anthers at anthesis

band at base. Flowers very fragrant, odor resembling "ylang-ylang". Fresh pollen eagerly collected by small bees "arapua amarela" and "arapua preta".
n.v. "soroboco"

8571. Scheelea aff. huebneri Burret ?
det. S. F. Glassman 1985

Palmae

(16)

Palm to 6 m. tall in

3 sets.

forest. Acaulescent or with short trunk to 2 m. tall

3 separate fruit and petiole base;

x 25 cm. diameter

Petiole 1-2 m. long, leaf blade 4 m. long with 140

leaflets per side. Inflorescence pendulous, fruits green.

n.v. "urucuri"

FEB 9 1980

Var. aseroides

det. J.P.P. Garzuta 1983

8542. Dorstenia aseroides Gardner

Moraceae

(3) Rosulate herb with fleshy rhizome. Growing in forest margin. Inflorescence dark brown, flowers dark red. Peduncle light pink

(Wils.) Schiffn.

8543. Mastigolejeunea zuriculata

Bryophyta

(11) growing on charred fallen log in forest. det. B. Thiérs 1988.

8544. Octoblepharum albidum Hedw.

Musci

(11) Moss on base of living palm trunk in forest.

det. W. C. Steere 1981

8545. Mittenothamnium diminutivum

(Hampe) E. G. Britton

Bryophyta

(11) Bryophyte on rotting log,

det. W. C. Steere 1981

8546. Heterodermia flabellata (Fée) Awas

det. Lichen

(7) lichen on boulder on

det. R. Harris 1981

hilltop.

8546A Heterodermia speciosa (Wulf.) Trev. det. R. Harris 1981

8546B Hypotrachyna sp. det. R. Harris 1981

8547. Entodon beyrichii (Schwaegr.) C.M.

Bryophyta

(11) Bryophyte on boulder in shade of forest.

det. W. R. Buck 1981

FEB 9 1980

Stop → PM in NY

8548. Octoblepharum pulvinatum (Dozy + Molk.) Mitt. Bryophyt.
Pterophyllum obtusum Mitt. Bryophyt.
 (11) Bryophyte on boulder in
 shade of forest. det. Steere 1981.

8549. Serjania Sapindac.
 (11) Vine growing on open
 rock outcrop on hilltop.
 Corolla white, anthers yellow,

8550. Drypetes variabilis Mitt. Euphorb.
 (12) Tree 15 m. tall x 30 cm
 in diam. on hilltop on
 rock outcrop. Flowers yellow-
 green. det. M. J. Huft 1984

8551. Tillandsia streptocarpa Baker Bromeliac.
 (11) Bromeliad on tree branch,
 on rock outcrop on hilltop.
 Fruits green. det. L. B. Smith 1981

8552. Marsdenia macrophylla (HBK.) Fournier Apocynac.
 (5) Climbing woody vine with
 4 separate white latex, on rocky outcrop
 fruit on hilltop. Fruits green.
 det. ~~Eschschol~~ 1982 Colejas 1982

8553. Tocoyena guianensis Schum. det. Kirkbride
1981. Rubiac.
 (4) Low shrub on hilltop. FRS. green

8554. Ipomoea goyazensis Gardn. Convolv.
 (8) Twining vine to 3 m. tall in
 F open forest. Corolla tube white,
 lobes reddish violet.
 det. D. F. Austin 1981

8555. Maxillaria ALBA (W. J. Hook.) Lindl. Orchidac.
 (6) Epiphyte on tree trunk. Perianth
 creamy white. Lip yellowish white.
 det. E. A. Christenson 1983, 1999

8556. Mimosa stipularis Bong. Legum.
 (8) Erect subshrub to 1m on rock
 outcrop. Stamens deep pink. det
 Barneby 1981.

8557. Aristolochia urupaensis Hoehne Aristoloch.
 (15) Climbing vine. Corolla cream
 with reddish brown fringe, "hood" dark
 purple. Fruit green.
 det. K. Barringer 1985.

8558. Pouzolzia poeppigiana (Wedd.) Killip Urticac.
 (11) Subshrub to 1m. Fruits green.
 Leaves dull dark green above,
 pale grey green beneath. det. C. Nicolson
 det. L. B. Smith 1985

8559. Vellozia glochidea Pohl Velloziac.
 (11) Shrub to 75 cm. tall. Corolla
 white. Stigma yellow. Fruit green.
 on rocky outcrop. det. P. Plowman 1982

foto

FEB 9 1980

8560. Coutaria hexandra (Jacq.) K. Schum. Rubiac
(11) Tree 6 m. on hilltop. Fruits
light green. det. B. Boon 1981.

8561. Chomelia ribesoides Benth. Rubiac.
(11) Treelet 4 m. x 10 cm.
diam. on top of hill. Fruit
green, purple black at maturity.
det. Boon 1981.

8562. Euphorb.
(11) Tree 4 m. on hilltop. latex
WOOD white. Fruit green.

8563. Selaginella Selaginellac.
(8) Prostrate creeper on rocks.
Foliage with reddish tinge

8564. Heliconia psittacorum ^{'silvestris' morph} Musac.

(11) Herb 1.5 m. in open forest on
foto hilltop. Bracts pale carmine
pink. Perianth shiny orange, green
at tip. Leaves pruinose beneath.
det. L. Andersson 1982.

8565. Dioscorea Dioscoreac.
(7) Perianth reddish brown. Vine
with tuberous root

FEB 9 1980

8566. Trigonotis NIVEA CAMB. VAR. Trigoniac.
(8) Vine 2 m. in crack of rocky outcrop on hilltop. ^{NIVEA} Petals yellowish white. "Keel" petals with dark red margin. Leaves dark shiny green above, grey green below.
DET. E. LLERAS, 1991

8567. Melinis minutiflora Beauv. Gram.
(5) ^(DET. G. DAVIDSEY 1980) Grass with odor of molasses on hilltop.

8568. Nephrolepis occidentalis Kuntze Fern
(11) Growing on top of boulders in shade of forest. det. Michel + Atchortua 1981.

8569. EMMOTUM NITENS (Benth.) Miers Icacin.
(11) Tree 15 m. tall x 30 cm. diam. Leaves shiny dark green above, silvery green velvety beneath. Flowers white.
DET. DUNO DE STEFANO 6/1995

8570. Dioscorea Dioscoreaceae
(5) Twining vine. Perianth green.

8571. RUDGEEA CF. VIRBURNOIDES Benth. Rubiaceae.
(11) Tree 4 m. tall. Fruit green. On open hilltop. DET. J. KIRKBRIDE 1981

FEB 9 1980

8572. Combretum vernicosum Rusby Combret.

(11) High climbing liana. Petals
white. On hill top. det. C. S. G. 1981.

Hitchc. + Chase

8573. Ichnanthus tenuis (Presl) Gram.

(5) Herb in shade of forest.
det. Davidse 1981.

8574. Anemia oblongifolia (Cav.) Sw. Schizaeac.

(3) On rocks in shade of forest.
det. Michel + Atchortua 1981.

8575. CHOMELIA sp.

Rubiac.

(9) Treelet 3 m tall with
spreading crown. Fruit green.
On hill top. Flowers white
DET. J. KIRKBRIDE 1981

8576.

Orchidac.

(3) Epiphyte. Perianth white. Lip
with purple margin.

8577. Melothria pendula L. Cucurbitac.

(6) Herbaceous vine in forest.
Flowers yellow. Fruit green.
det. Jeffrey 1981.

8578. Hemionitis palmata L.

Fern.

(8) Fern growing on rock in
shade of forest.
det. Michel + Atchortua 1981.

85787

FEB 9 1980 Fern

- (1) Fern growing on rock in shade of forest.

8579. Euphorbia heterophylla L. Euphorb.

- (6) Erect herb, to 1 m. tall.
Flowers greenish, det. M.J. Huft 1984.

8580. Buchenavia tomentosa Eichl. Combretac.

- (2) Tree 15 m. x 40 cm. diameter.
Fruit green, det. C. Stece 1981.

8581. ROLLINIA EXSUCCA (DC. EX DUNAL) A. DC. Annonac.

- (11) Slender tree 10 m tall x 15 cm
diam. Fruit green, yellow at
maturity, aromatic, edible.
DET. P. J. H. HAAS, 1998

8582. Spermococae:

Rubiace.

- (4) Annual herb on rock outcrop.
Flowers white.

G. PANICULATA MUNRO DET. L. CLARK 1995 1990GUADUA WEBERBAUERI PILGER (DET. X. LONDOÑO)8583. Bambusa paniculata (Monroe) Hackel Gram.

- (21) Culms 2 m. tall mostly past
flowering. Only one individual
in large population observed in
flower. Vegetative material from different
individual.

Culms
separate
det. T. Soderstrom
1981.

8584. Selaginella

Selaginellac.

- (11) Creeping on rocks in shade of
forest.

FEB 9 1980

8585. Plumeria articulata Vahl Apocyn.

(4) Tree 6 m. tall x 10 cm. diam.
Latex white. Flower buds white.
det. A. J. M. Leeuwenberg 1982.

8586. Geophila repens (L.) I. M. Johnston Rubiac.

(6) Prostrate trailing herb in
forest. Fruit bright orange at
maturity. det. Kirkbride 1981.

8587. Solanum incarceratum R. + P. Solanac.

(6) Prickly herb on open roadside.
Petals white reflexed. Immature
fruits pale green with dark green
veins. det. M. Nee 1982.

(= ERTELA TRIFOLIA LOEFL.)

8588. Moniera trifolia L. Rutac.

(11) Low herb in open roadbank
F Corolla white. Immature fruit
green.

8589. Calathea sellowii Koern. Marantac.

(7) Occasional herb in open
forest. Calyx and corolla
white. Petaloid stamens
showy, bright yellow
det. H. Kennedy 1981.

foto

8590. Ananas nanus (L.B. Smith.) L.B. Smith. Bromeliac.

(10) Terrestrial bromeliad to
8 sets 1 m. tall in open forest. Peduncle
bracts red at base, apically green. Floral bracts pale pink.
Petals white, blue at apex. Fruit greenish orange.
det. L.B. Smith

8591. Begonia humilis Ait. Begoniac.

(13) Growing on rocks in shade of trees.
Flowers white. det. L.B. Smith 1981.

8592. Maranta Marantac.

(11) Erect spreading herb. Fls. creamy white

8593. Orchidac

(1) Epiphyte, on hilltop. Perianth
pale green. Lip white.

8594. Cyperus simplex H.B.K. Cyperaceae

F In marshy area along stream.
det. T. Koyama 1981

8595. Panicum pilosum Sw. Gram.

(4) In marshy area along stream.
(det. G. Davidse, 1980)

8596. Vernonia remotiflora Rich. Composit

(4) Herb with red-violet florets, on
rocky outcrop.
det. H. Robinson 1981.

FEB 9 1980

8597. EUGENIA Myrtac.
(11) Understory treelet 3m. tall.
WOOD Fruit green. (DET. L. LANDRUM, 1981)

8598. Sterculia STRIATA ST. HIL. & Sterculiac.
(8) Tree 6 m. tall. Flowers ^{NAUD.}
yellowish green with red
tinge. (DET. E. L. TAYLOR 1988)

8599. Hymenaea coubaril L. Legum.
(9) Tree 18 m. tall x 30 cm.
diam. Fruit green. Frequent.
det. R. S. Cowen 1981.

8599A. Land snails
F

8599B. Land snails
F

8599C. Land snails
F

} shells
made



Moss covered paths between scarlet peonies,
Pale jade mountains fill your rustic windows.
I envy you, drunk with flowers,
Butterflies swirling in your dreams.

