

RECORD

5220

Humberts
tel. 30 20 x 117

CRPT
BOT
Plodman
O'D



PERSONAL ACCOUNT BOOKS

No. 2044

Available Rulings

JOURNAL
CASH
S. E. LEDGER
RECORD
D. E. LEDGER

144 PAGES

U. S. A.

21 June 1975. Woburn, Mass.,
Burlington Botanical Research
Station.

5220. Ctenanthe ^{setosa} (Roscoe) Eichler
~~pitosa~~

F Cult. herb grown from rhi-
A-JP 3 ones sent from Kew.

US Herb 2 m. tall. Lvs. dark green
above, purplish beneath. Bracts
greenish brown. Fls. yellowish.

5221. Marantzchloa

F Cult. herb sent from Kew.
Herb .7 m. grown in pots.

29 July 1975.

5222. Brumfelsia plicata Urb.

U
F
G
HRG
Shrub 2 m. tall cultivated
in permanent planting.

Kalix bronzed green, flowers
white, deepening slightly
toward cream.

Grown from cutting obtained
at Aenon Town, Road to McCoy,

Clarendon Parish, Jamaica.
(Plowman 3251). 22 May 1972.

5223. Brumfelia australis Benth

u

F

A-JP

Cult. shrub 0.5 m.

Fls. violet fading white.

Coll. at Popayan, Colombia.
(P 1937).

Maine, Sagadahoc County.
Nr. Baypoint, Kennebec River.

12 July 45.

Bog plants.

K
F 5224. Eriocaulon septangulare Willd.
(1) Submerged aquatic. Heads
white.

F 5225. Utricularia cornuta Michx.

(1)

Slender herb edge of bog.
Fls. deep yellow.

5226. Corylus cornuta Marsh.

(2)

F
K

Roadside shrub 2-3 m. Invol.
green.

5227. Vaccinium oxycoccos L.
~~microcarpon Ait.~~

F (1)

Cranberry.
Sphagnum bog. FRs. small, greenish
to pink.

5228. Vaccinium macrocarpon Ait.
~~oxycoccos L.~~

(1)

F

Cranberry
Sphagnum bog. Fls. large.
petals pale pink.

K
F 5229. Aralia hispida Vent.
(2) Sandy roadsides Fls. yellowish
green.

K
F 5230. Scutellaria epilobiiifolia A. Hamilton
Common Sculcap,
Wet Roadside ditch. Herb 1 m,
Fls. lavender-blue.

Harrisburg, Pa. 23 Sept 1975
5231 Cestrum

Shrub 1.5 m. Fls. Cream.
Cult. from seed from

Along Beaver Creek, Lower Paxton Twp.
5232. Bidens

5233.
Sneezeweed

5234. Penthorum

COLOMBIA: Dept. Cundinamarca.
21 JAN 1976

Coll. T. Plowman (with R. Jaramillo) & D. Vaughan.

Between El Rosal & El Vino,
along roadside. ALT 2600 m.

5235. Myrica pubescens

(2)

COL

Small tree 3 m. on open steep roadside in thicket. Lvs. Shiny dark green above, yellowish green beneath. Young frs. green.

Ageratina gracilis (HBK.) K. & R.

5236. ~~Eupatorium~~ det Robinson 1976

(2)

COL
US

Herb 1 m. tall on open roadside. Fls. white.

Cavendishia cordifolia

5237. Cavendishia cordifolia Ericson

(3)

(HBK.) Hoer.

COL
NY
GA

Shrub 1 m. on open, steep road bank. Bracts pink. Calyx yellow green. Corolla tube sub-fleshy, lower $\frac{2}{3}$ deep pink, upper $\frac{1}{3}$ + lobes creamy white. Frs. green

OMBIA: Depto.
Col: Cundinamarca
Between Chuscal and
La Vega. 2200 m. alt.
21 Jan 1976.

5238. Peperomia vulcanicola C. DC.

(2)

Succulent creeping
herb on open roadbank.
Stem pink. Lvs. yellow green
above, pale yellow green
beneath, sometimes with
red stripes. Spikes pale
yellow. det. R. Callejas 1982

5239. Kohleria

(2)

Herb to 7 m. tall on
steep roadbank. Lvs. dark
green above with red margin.
Paler green beneath with red
hairs on nerves. Pedicel with
red hairs. Calyx yellow green with
red hairs at base. Corolla red-
orange with red-orange hairs.

Geonura

Col

~~Sally~~ GH

5240. Oncidium oryzae Reichb. f. + Warscz.

Branchlet terrestrial orchid on steep

(5) hillslope in partial shade among

10 labels

(A)

Pitcairnia sp. Infl. 2-3 m.

long, branched. Sepals copper-brown. Petals red-violet above, copper brown beneath.

Column brownish green.

det. L. J. Th. Winters 1976

(A) Ames

5241. Miconia floribundum (Bonpl.) DC.

(4)

COL

U

US

GH

Tree 8 m. tall in ^{open} pasture along small brook. Lvs. dark green above, dull yellowish green to purple beneath, shiny. Rachis yellow-green.

Calyx pale orange. Petals white, uppermost petal pink beneath. ~~anthers yellow.~~

(A) K

✓ 5242. Passiflora cf. Zurentiaca
(3)

COL
F
GH

High climbing vine hanging
from cliff along road, 4 m.
Sepals pale green beneath
brownish at middle, above
greenish white. Petals
greenish white. Corona in
2 series. Outer series pale
yellow with brown mark in center.
Inner series light green
surrounding brownish disc.
Androgynophore basally purple,
green above. Filaments green.
Ovary & styles dark brown.
Stigma yellow. Fr. dark
brown with white hairs.

Ⓐ → K

Alt. 2050 m.

✓ 5243. Peperomia enantostachya C. DC.
(4) det. R. Callejas. 1982.

seed
COL
U
GH
F

↪ Epiphyte on tree in open
pasture. Fleshy herbaceous
Spikes pale, yellowish green.

Colombia: ^{Depto.} Cundinamarca,
Between La Vega and Cascajal.
Alt. 1500 m. 21 Jan 1976.

5244. Plicourea?

(2)

COL
F
Shrub 3 m. in thickets
along stream (affluent of Rio
Tobia). Major branches of
rachis pale brown. Ultimate
branches and pedicels yellow.
Fruits dark bluish green.

5245. Pitcairnia maidifolia

(3)

6 labels

(c. morr.) Dcne.

Terrestrial bromeliad

COL
FH
US
On steep open slope along road,
1.5 m. tall. Bracts bright red
with green tips. Pedicel yellow.
Calyx greenish yellow, used at
base. Petals ^{pale} greenish toward
base, apically white. Only one
seen.

det L. B. Smith 1976.

Depto
Colombia: Cundinamarca.
Between Cascajal and Tebla Grande.
Alt. 1000 m. Xocaima Region ↗

✓ 5246. Anthurium

(1) Acaulescent.

COL
GHT Terrestrial herb. Lvs. shiny
on both sides, dark green
above, pale green beneath.
Spathe brownish (part).
Spadix brown. Frequent.

✓ 5247. Anthurium

(2)

(3 labels)
COL
GHT Terrestrial herb with
stem to 1 m. Spathe white
with pink blush, turning
green. Spadix light brown.
Frequent.

✓ 5248. Mucuna cf. mutisiana?

(5)

COL
F
GHT Extensive vine in hillside thicket
along road. Infl. pendulous
on peduncle more than 1 m. long.
Calyx dark green with light brown
hairs. Corolla pale green to
creamy white. Fruits

pink with yellow-green ex-
creescences with orange to
creamy white striking hairs.

5249.

Sapindac.

(3)

Col
MO
GH

Extensive vine in thicket along
road. Fls. creamy white. Fruits
light yellow green.

T Plowman + D. Vazughan

COLOMBIA: Depto. El Valle,
Municipio de Tuluá.
Corregimiento de Mateguadua.
24 JAN 1976. ↑

JARDIN BOTANICO "JUAN MARIA
CESPEDES".

= Alt. 1100 m.

✓ 5250. Erythroxylum haughtii Gentner
(3) n.v. "coca negra"

fotos

ca
GH
US

Small tree 6 m. tall
3-5 cm. growing in flood plain of
Rio Tuluá. Lvs. subcoriaceous
dull, ^{very} dark green above, pale green
beneath, areolae obscure.
sterile.

COL
GH
MICH

✓ 5251. Eugenia monticola (Sw.) DC.
(3) det R. McVazugh 1976
Shrub 1.5 m. in open
pasture. Fls. cream. Frs.
red.

→ Alt. 1160 m.

GH 5252. Erythroxylum hondense HBK.

Col (3)
US
fotos

n.v. "coca blanca" silvestre"

Tall shrub 4 m. along trail
in secondary thicket. Branching
flat. Lvs. yellowish green above,
pale green beneath. Sterile.
Sterile.

Alt. 1210 m.

5253. Erythroxylum haughtii Gentner

(4)

n.v. "coca negra"

Shrub 1.5 m. tall in thickets
on open hillside. Fls. appearing
with new foliage - ^{new} Lvs. bright yellow-
green. Buds yellow-green.

Young twigs pale green; Old
lvs. dark green above, midrib
pale green; pale green beneath.
Peduncles yellowish green.

④
Col
F
GH

5254. Erythroxylum haughtii Gentner
(18)

(A)

Wood: Kw, Uu
Av, MADR

seed

Photos

Two

n.v. "Coca negra"

Shrubs 5-6 m. ^{dry} in hillsides
thicket; Branched at base
into 6 main trunks, to 6 cm.
diameter. Bark light grey-
brown, longitudinally rugose.

Lvs. dark green, dull above,
pale green beneath. Pedicels
& calyx ^{(light yellowish green;} Petals pale
green; Corona & filaments creamy
white. Stigmas green. ^{Immature} Fruits
pale green, turning black
on picking (browning?). Ripe fruits
reputedly ~~apparently~~ red, eaten by birds!

COL
USM
F
GH
US
RB

NCU
K
NY
MO
VEN
U
G

TEX

5255. Chiococca alba (L.) Hitchc.
(A) subsp. alba

Slender Shrub 6 m. tall in dry
open hillsides thicket. Lvs. subt-
coriaceous; dark shiny green
above, pale green beneath.
Rachis & calyx light green. Corolla
creamy yellow.
Det. D. Simpson fl.

(A)

COL
KTH
MO
F

(A) 7K

5256. Eugenia biflora (L.) DC. Myrtaceae
Col (3) det R. McVaugh 1976
MICH
GH?
Shrub 2.5 m. tall in dry
hillside thicket. Frs. dark
red.

5257. Calea prunifolia H.B.K. Compositae
Col (3)
GH
US
Straggly shrub in open thicket.
Fls. deep yellow.

5258 Vernonia brasiliensis (L.) Druce
~~Baccharis~~ det H. Robinson Compositae
Col (2)
US
Spindly subshrub 2.5 m. tall
in dry hillside thicket. Fls. white.

5259. Citharexylum kunthianum Moldenke
~~Agave~~ det Moldenke 1976
Col (3)
NY
GH
Treelet 4 m. tall in hillside
thicket. Fls. white.

5260. Chromolaena scabra (L.f.) K. + R. Compositae
Col (2)
US
det. H. Robinson
Spindly subshrub in hillside
thicket. Fls. pale lavender.

5261. Panicum

(3)

Climbing herb 2 m. tall
in dry thicket, FRS. black.

5262. Croton gossypifolius Vahl var.

(3)

hibiscifolius (Kunth) Muell. Arg.

Treelet 4-5 m. tall in dry
hillside thicket. Latex turning
yellow orange on exposure, Fls: ♂
creamy yellow; ♀ Fls. green.

det. J. L. Webster 1976.

5263.

(3)

Lichen hanging from trees.

5264. Erythroxylum [haughtii gentner]

(3)

n. v. "coca negra"

Shrub 2 m. tall in
undergrowth of thicket in shade.

Lvs. large, dark green above,
midrib + major nerves pale
green; pale green beneath.

Sterile. Axillary region slightly
paler.

Alt. 1260 m.

5265. Gonzalagunia cordifolia (HBK.) Standl.

COL
F

(3)

det. D. Simpson 1976.

Spindly shrub 2 m. tall in open dry thicket. Fls. and fruits white.

5266. Psychotria

unrecd (1)
COL

Shrub 2 m. in open thicket. Fls. cream.

5267. Duranta coriacea Hayek

COL
NY

(3)

det Moldenke 1976

Spiny scandent shrub in thicket, 3 m. tall

Fls. pale lavender. FRS. yellow orange.

5268. Dracontium

(2)

live-chuck

Herb 1 m. tall in secondary woods. Sterile. ~~Stem~~ ^{Petiole} pale brown, mottled snake-like.

5268-A. Spiranthes?

Live only to Chuck

Herb on dry hillside

(A) → F

5269. Erythroxylum ^{Wlei O.E. Schulz} ~~trudense H.B.K.~~

(A) (10)

photos

COL
USM
ECON
US
F
MO
K
NCU

GB
NY

no. "~~coca blanca silvestre~~"

Shrubs 1.5 m. tall in shade
in secondary woods. Lvs. dark
green above; pale green beneath
midrib dark brown. Fls. creamy
white. Frs. ^{dark} green turning
dark reddish.

orinocense H.B.K.

5270. Erythroxylum [haughtii Gentner]

(9)

(A)

COL
USM
ECON
GIT
US
F
K

no. "coca negra"

Shrub 1 m. tall in open
hillside thicket. Lvs. light
yellow-green above, pale
green beneath. Petals
light yellow-green, corolla
creamy white.

5271.

Loranthae.

COL

Parasite on Erythroxylum
haughtii. young fruits green

Alt. 1100 m.

5272. Erythroxylum novogranatense (Morris) Hieron.

(7)

Wood Aw
Kw
MADW
dw

Cultivated shrub 4 m. tall
in Jardin Botanique "Jose Maria Cespedes".
Old lvs. deep yellowish green
above, pale green beneath, cerebrae
region distinct, slightly paler green.
Young lvs. bright yellow-green.
Fruits green, turning yellow
then red.

Col
USM
ECON
US
K
F
New
NY

5273. Oryctanthus alveolatus (HBK.) Kunt ^{ined.} Lorsythae.
(2) = (O. simplexicaulis (HBK.) Eichl.)

Col
ECON

Parasite on Erythroxylum
novogranatense. Stem + rachis
light brown. ~~Soft~~ Fls. + ~~fruits~~ frs.
green.
det. C.W. Greene fl.

5274. Solenum pseudolulo Heiser
(2)

Col

Spreading Spiny herb 2 m. ^{tall} growing along
fence in garden. Not cultivated.
Lvs. dark green with purple hairs
on mid rib + major nerves above,
pale green beneath. Calyx light

green with purple hairs. Corolla
pure white. Fruits light
green

COLOMBIA: Depto. El Valle. Muni-
cipio de Tuluá. Corregimiento de Mateguadua.

Along Rio Tuluá above Inspección
de Policía. Alt. 1200 m.

5275. Erythroxylum ulei O.E. Schulz

live

(A)

COL
USM
ECON
F
K
NCU
NY

Straggly shrub 3 m. tall. Lvs
firmly membranaceous, dark
green above, pale green
beneath. Pedicel + calyx
pale green. ^{folcoid}
Fruits dark green, ~~asymme-~~
~~trical~~, turning black.

~~25-1-1975~~

COLOMBIA: Depto. Cauca.
Pisajé, al ^{noeste} ~~NE~~ de Popayan.
Carretera de los Ollos. #
(Yambitará). Alt 2000 m.
26 JAN 76.

5278. Campanea
(3) Kohleria digitatiflora (Lindl + André) Fritsch

POP
Col
~~Set~~
GHT
Sprawling herb 2.5 m. along
quebrada. Lvs. dark green above, with
dark red hairs; pale green beneath
with white hairs. Corolla tube deep
purple pink; limb yellow green with
dark brown spots. det. H. Wehler 1981.

(A) → K

5279. Ilex caliana Cuatr. ~~Flora~~

POP
Col
MO
GHT
(4) Tree 6-7 m. Buds yellow.
det. W. Hahn 1982

5278. Anthurium

POP
Col
GHT
(3) Climbing epiphyte. Spathe
green. Spadix black.

5279. Polypodium

POP
Col
(2) Epiphyte on tree trunk.

5280. Oncidium

- POP
- Col
AMES

(2)

Epiphyte on tree trunk.
Fls. yellow with brown
markings. Frequent.

(A) → AMES

5281.

Orchid

- POP
- Col
AMES

(3)

Epiphyte. Fls. dull yellow,
~~column~~ purple brown
column

(A) → AMES

5282.

Composit.

- POP
- Col

(2)

Herbaceous
Herb. Vine along roadside.
Fls. ^{deep} yellow.

- Col
- POP
GHT

5283.

fern

(3)

Terrestrial ^{fern} on steep bank
along stream in forest

- Col
- POP
GHT

5284.

fern

(3)

Terrestrial fern in forest
along stream.

5285 Justicia chlorostachya Leonard Acauthae.

(3) det. D. Wasshausen 1976.

Herb 1 m. on steep bank
in forest. Bracts light green. Fls.
white.

5286. Besleria solanoides Gesneriaceae

(3) det. H. Wiehler 1981.

Herb 2 m. in thicket
near stream. ~~Fls.~~ Corolla orange.

5287. Phytolacca

(2)

Herb 0.8 m. ^{+ petiole} stems red-purple.
Fls. red-purple (magenta). In
open thicket.

5288 Anthurium pallens Schott

(4) det. D. Wasshausen 1976

Live selby Terrestrial herb 1.5 m. tall
on steep bank in forest. Stipule
& peduncle yellowish green.
Spathe dark green.

POP
COL
US

POP
COL
~~SELBY~~
GH

POP
COL

POP
COL
GH
US

5289. Bomarea

POP (3)
COL seed to
GTH Waimoa

Herbaceous vine in second-
ary thickets. Sepals
pale orange abaxially with
brown spot at tip. Pale yellow-
orange adaxially. Petals
yellow, adaxially purple brown
spots.

5290. Palicourea

POP (3)
COL

Shrub ^{25m} in forest on steep
hillside. Raceme deep magenta,
Corolla violet.

5291. Anthurium

POP (3)
COL Wye-Selby
GTH #74-76-41

Terrestrial herb on
steep hillside. Spathe
dark purple. Spadix

5292. Passiflora

POP (3)

COL
GTH
Vine growing on ground
along road. Sepals + petals

yellow green without, white
within. Corolla dark green
with yellow tips. FRs. dark
blue-green.

Campanulaceae

~~Campanulaceae~~

5293

POP (3)
COL
GHT

Herb 2 m. on open hillside
near stream. Fls. light green.

COL 5294. Anthurium
POP (3)
GHT
two-selbyll

Epiphyte on tree trunks.
Spathe red. Spadix green.

POP 5295.

COL (2) ~~1~~ Fern in forest along stream.
Terrestrial

5296. Pityrogramma

POP (2)
COL
GHT

Fern in open thicket along
road.

5297. Bocconia

POP^s
COL⁻ (2)

Herb to 5 m. along road
in open thicket. Frs. light
green.

Heliconia burleana Abalo + Morales det Andersson 1984

5298. Heliconia scarlatina Abalo + Morales

POP^s
COL⁻ 8 labels
GIT
U seed to Hunt

det. L. Andersson 1982.

Herb along stream in
ravine, to 3 m. Bracts
red. Rachis yellow. Bractlets
cream. Pedicel green. Ovary
yellow. ~~Corolla~~ Perianth
green. Ripe fruit blue.

Petiole 1 m. long. Lf. blade
1.5 m. Costa red beneath.

POP^s 5299
COL⁻ (2)

Terrestrial in forest along
stream.

POP^s 5300. Peperomia
COL⁻ (3)
F

Epiphytic, succulent herb
on tree trunks. Spikes yellow
green.

5300A. Monotropa uniflora L.

Glt (1)

Saprophytic herb in forest on steep slope. Stems + scales reddish.

5301. Desmodium campyloclados Hemsley

Col
Glt (2)

det B. G. Schubert 1977.

Herb 1 m. tall in forest on steep hillside. Fls. (2-veined) pink.

5301-A. Renoualmia occidentalis?

Live
only
to Mass
(rhizomes)

Herb to 2.5 m. tall on wet hillsides

COLOMBIA: Dept. Cauca.
27 Jan 1976.

Road from Popayán to ^{El} Tambo.
Km. 8. Villa Maria. 1700 m Alt.

5302. Tibouchina Lindeniana Cogn.

(3)

det J.J. Wurdack 1976.

Shrub 2.5 m. in pasture.

Fls. magenta purple.

POP -
COL -
US

5303. Begonia fischeri Schrank
(B. tovarensis Kl.)

(4)

Small herb in open marsh. Fls.

pink. det L. B. Smith 1976

POP -
COL -
US
GH

Monnina
5304. Monnina

(1)

Small shrub in ^{moist} thickets.
Fls. blue, with yellow keel.

COL!

5305. Monnina

(4)

Shrubs 3 m. in moist
thicket. Fls. Violet, keel
yellow.

POP -
COL -

Kohleria digitaliflora (Linden + André)
Fritsch

GH 5306
POP (3)
COL (A)
~~SMY~~ Feb!

Campaea
Herb 1.5 m. in low thicket.
Corolla deep pink, lobes
and limb brighter green
with dark brown spots.
Calyx + pedicel with red
hairs.

POP 5307
COL (2)

Composit.

Shrub 3 m. tall in
pasture. Fls. creamy white.

Colombia: Dept. Cauca.
Road from El Tambo to
20 de Julio (Alt. 2100 m.)
ca. Km. 55 (Vertiente Oriental)
27 Jan 76 ←

5308. *Alloplectus ichthyoderma* Hanst. Gesneriaceae

(5)

POP
Col
Sally
FH
A

FOTO

Herb on hillside in forest along Quebrada. Lvs. dark green above, pale green or deep red beneath. Pedicel + calyx deep red. Corolla dorsally deep yellow, ventrally deep red.

det. H. Wiehler 1981.

A7K

5309.

Orchid

(1)

A

Col

Orchid - epiphyte on fallen log in ^{wet} forest along quebrada. Fls: ~~lower~~ 2 sepals white, dotted dark red-brown, upper sepal yellowish striped dark red. ~~dark red~~ Petals yellowish striped dark red.

5309A.

Beetle

(F)

5310. Renoualmia ferruginea Moas

(5) det P.J.M. Moas '76

10 labels Herb 3 m. tall growing
along quebrada at edge of forest.
Bracts red turning brown.
Calyx red. Corolla white.
FRs. pale greenish brown;
and white; seeds black.

(A) → K

5311. Meriania nobilis

(2)

tree 6 m. tall at edge
of pasture along road. Fls.
deep magenta. FRs. deep
purple.

5312. Monnina

(4)

Large shrub 4 m. tall.
Fls deep blue-violet, keel
yellow. Along forest margin
in thicket.

5312A.

Solanaceae.

Living
vine in wet forest. Extensive vine; soft-woody,

Vertiente Occidental. Alt. 2100-2300 m

5313. Miconia hadrophylla Wurdack

(4)

det J.J. Wurdack 1976.

Tree 4 m. with spreading branches. Petals white turning pink. Steep slopes in cloud forest.

PARATYPE 2

(A) → K

5314.

Orchid

(1)

Terrestrial orchid on road bank. Fls. yellowish green.

(A) → AMES

5315. Fuchsia sylvatica Benth.

(4)

det. B. Pichersgill 1976

Shrub 2 m. tall in moist roadside thicket. Hypanthium pale pink. Calyx pale green. Petals ~~deep~~ red.

(A) → MO

5316. Kohleria sp.

Gesneriac.

(3)

det. H. Wiehler 1981.

Herb to 1 m. tall in forest on steep slope. Corolla red.

(A) → K

POP-

COL-

US

GH

Col (A)

POP-

COL-

GH

Reading

GH

POP

COL

Sunday

(A) → K

5317. Cuspaneae affinis Fritsch ^{det. H. Wiehler 1981.} Gesneriaceae
(5)

Climbing herb in cloud forest + on road banks.
Corolla deep pink with soft white hairs, white at apex.
Lobes cream axially with dark brown spots. Lvs. dark green above with whitish veins pinkish/beneath.

(A) → K

5318. Besleria sp. Gesneriaceae
(3) det. H. Wiehler 1981.

Herb in wet forest on steep slopes, to 2.5 m. tall. Pedicels + calyx dark purple. Corolla orange.

(A) → K

5319. Gasteranthus wendlandianus Gesneriaceae
(4) (Henst.) Wiehler

Herb in wet forest on steep slopes. Calyx pale greenish white. Corolla pale yellow, lobe with dark brown spots axially.

(A) → K

det. H. Wiehler 1981.

(A)
Pop
Col
~~GH~~
F-photo
GH

(A)
Pop
Col
~~GH~~
GH

(A)
Pop
Col
GH
Selby

5320. Dalbergaria

(4)

GTT
POP -
COL -
~~COL~~

Erect herb 1 m. tall in steep slope in wet forest. Lvs. dark green, tipped red. Bracts + calyx lobes pale yellow. Corolla pale yellow.

5321. Alloplectus teuscheri

(3)

(Raymond) Wiehler Gesneria

GTT
POP -
COL -
~~COL~~

foto

Herb .7 m tall. Calyx wrinkled, deep red. Corolla yellow, lobes red-orange. det. H. Wiehler 1981.

⊕ > K

5322. BURMEISTERA SP.

(3)

DET. J. BLEWETT 1989

Campanulaceae
(Eupat.)

POP -
COL -

Herb to 2.5 m. tall in wet open thicket along road. Ovary, ~~stamens~~ and corolla deep red-purple. Calyx lobes green beneath, dark red purple above. Ripe ovary pale pink.

⊕ > K

St. angustifolium Hemsl. ^{det} A. Gomez 1983.

5323. Stenospermation angosturense Engler

(51) det D. Wasshausen 1976.

Scandent herb hanging from steep road bank. Spathe creamy yellow. Spadix creamy white.

lwe - Selby
POP
Col
US
GH
F

5324. Calathea timothei H. Kennedy sp. nov.
~~sp. nov.~~ ^{Prevesia 12/13: 1-9.} 1977.

TYPE 4

lwe - ~~Kelso~~
Banks
Dressler

Herb 1- $\frac{3}{4}$ m. tall growing on steep hillsides in wet forest and on road banks. Stems, petioles + midrib beneath ~~dark~~ red-purple. Lvs. dark green above, light green beneath, or reddish. [~~Inf.~~ ^{ped} ~~with top to~~ 4 m. tall, surpassing other lvs.] Bracts bright red. Bracteoles cream, tipped reddish. Fls. deep yellow throughout.

(A)
fotos.
POP
Col
F-HOLO
K
GH

5325.

Gesneriaceae

POP ✓
COL ✓ (2)

Herb to 2 m. in wet forest. Bracts + calyx bright red-orange. Corolla yellow.

5326.

Campanulaceae
~~Gesneriaceae~~

COL ✓
GHT

Herb 2 m tall. Calyx green. Corolla ~~to~~ bright red, orange at lobes.

5327.

Gesneriaceae

~~COL~~
COL ✓ (1)
seed to Selby

Herb .8 m. tall in road-bank. Fruits dull white.

5328. Guzmania hansteinii Fritsch
det. H. Wiehler 1981.

(3)

GHT
COL ✓
~~POP~~

Herb growing on moist road banks. Lvs. dark green above with dark red hairs, beneath dark red purple with whitish nerves.

Pedicuncle + calyx with dark red hairs. Corolla deep pink, whiter at constriction + lobes. Lobes with dark purple spots axially.

5329. Bomarea

(2)

FBH
COL
GTH

Vine in moist thickets along road. Bracts + pedicels green with dark red hairs. Perianth bright red-orange.

5330. Bomarea

(2)

POP
COL

Vine in moist thickets along road. Pedicels + bracts green with dark red hairs. Perianth paler red-orange than 5329.

Alt. 2000 ^{m.} ft. Vertiente Oriental Mansfield + Slemmer
Photos 5331. Befaria glauca var. coarctata Ericsson

POP (4)

COL
NY GTH

Shrub or treelet to 4 m. tall in thickets. Calyx dark red. Corolla deep rose-pink. det. J. Luteyn '86

④ → K Road from El Tumbo to 20 de Julio. Alt. 2200 m.

5332. Restrepia

Es
Ames

Epiphyte on tree trunk.
Perianth pale cream. Column
dark red.

ALCOHOL COLLECTIONS ONLY (SENT TO KEW)
see following 5377.

5334 B TELIPOGON WALLISII

5334 C ONCIDIUM FORMOSUM

5334 D ONCIDIUM COCCIFERUM

5334 E ODONTOGLOSSUM ANGUSTATUM

COLOMBIA: Dept. Cauca.

28 JAN 1976.

Coll. T. Plowman, D. Vaughan, + H.
Grenados.

Road from ^{town of} Puracé to La Plata,
just above Puracé.
Alt. 2700 m.

5333. Tibouchina mollis (Bonpl.) Cogn. Melast

(4) Shrub to 4 m. tall in
pastures + hedgerows. Fls. pale
to deep magenta.

(A)

POP

COL

US

(A) JK

det J.J. Wurdack 76.

Parque Nacional de Puracé.

Alt. 3300 m. Road from Puracé
to La Plata. ↓

5334. Centropogon ferrugineus

(2)

POP
COL

Shrub 1-2 m. tall in moist
thickets. Calyx + stems light
brown. Corolla red-orange.

(A) JAMES

5334A. Peperomia

Seed only
to Selby Epiphyte. Semi fleshy with
reddish lvs. + stems.

5335. Fuchsia corollata Benth.

POP (4)

det. P. Berry 1983.

Spindly scandent shrubs
1 m. on old stump. Fls.
deep carmine red.

(A) → MO

5336. Begonia urticae L.f.

COL (2)

det L. B. Smith 1976

Erect herb in moist
roadside thicket. Stems +
lf. nerves reddish. Fls. deep
rose pink.

5337. Elaphoglossum

POP (4)

Erect herb to 2 m tall
in dense moist thickets.

5338. Desfontainea spirosa

(4)

sp. nov. R. E. Schult.

Scandent shrub in moist
dense thickets. Corolla tube
red, limb pale yellow

POP

COL

GH

F

5339. Centropogon
(3)

Lobelia

GH
POP
COL

Herbaceous vine in dense
moist thickets. Fls. carmine
pink

= Gaiodendron lanceolatum (R+p) Baehni
det Kuijt 1980.

5340. Gaiodendron macranthus Killip
(4)

det CW. Greene 1976.

POP
COL
GH
F

Tall shrub 3 m. tall in dense
moist thickets. Fls. ^{deep golden} yellow-
~~orange~~. FR. orange.

(A) K

5341.
(3)

Sibthorpia repens

Scroph.

det P. J. M. Maas 1978.

Vine on ground among
mosses. Fls. semi-fleshy,
dark red-purple.

POP
COL
F

5342. Bomarea
(3)

POP
COL
GH

Herb on roadbank among
mosses. Ovary pale bluish green.
Calyx Outer tepals red. Inner
tepals yellow.

→ Coll. Timothy Plowman and Duncan Vaughan

COLOMBIA: Dept. Cauca.
Road from Rosas to La
Sierra. Alt. 1610 m.
29 Jan 86.

5343. Renoualmia cf. thyrsoides (R. + P.) R + S.

(6)

12 labels

COL
U
GH
F

Herb 4 m. tall on
steep bank along quebrada.
Peduncle red. Fruits
bright red turning dark
purple with age. Arit pale
orange. Seeds dark brown.

Liver
21 A1 = River
Selby

5344. Peperomia macrotricha C. DC.

COL (2)

det. R. Callejas 1982

F

Fleshy herb on wet rocks
in forested quebrada. Spikes
creamy white.

5345. Solanum aff. caripense Dun.

(A)

det. D'Arcy 1988.

COL
GH
MO

Sprawling herb in moist
roadbank. Fls. white.

5346. Desmodium aparines (Link) DC.

(3) det B.G. Schubert 1977.

Col
GH

Tall scandent herb 2 m.
long in roadside thicket.
Fls. pink to pale blue violet.
Frs. green.

5347. Campana

(2)

Col
GH

Herb 1 m. tall on open
roadbank in thicket. Calyx
light green. Corolla deep rose
pink. Lobes light green with
dark brown spots.

⊕ K

5348. Piper crassinervium H.B.K.

(4) det. W. Burger 1981.

Col
F
GH
U

Tree 10 m. tall along
Quebrada. Spikes cream.

5349. Peperomia blanda (Jacq.) H.B.K.

(3) det. R. Callejas 1982.

Col
F
GH

Fleshy herb in forested
quebrada. Stems reddish
below, green above. Spikes green.

Colombia: Dept Cauca.
Road between Hesmita
and Piedra Sentada,
above Rio Hesmita.
Alt. ca. 1100 m. 29 Jan 76.

5350. Renealmia occidentalis (Sw.) Sweet
(5) var. occidentalis.

det P. J. R. Maas 76

Herb 3.5 m. tall along
small quebrada at edge of
forest. Peduncle dull green
to reddish. Bracts pale
brown. Rachis red. Pedicel
ovary + calyx red. ~~Fls.~~ Corolla
yellow. Fruits red.

5351. Desmodium aparines (Link) DC.
(3) det B. G. Schubert 1977.

Herb 1 m tall on open
disturbed site along road.
Fls. pink-violet. Fruits
reddish.

COL
F
u
GH
US

COL
F
GH

COLOMBIA: Dept. Cauca. Road
Between El ~~Cafre~~^{Bordo} and Patía,
along Rio Patía. Alt. 590 m.
30 Jan 76

5352. Casearia aculeata Jacquin ~~Rubiaceae~~.
(3) det. H. Sleumer 1977.

COL
MO
GH

Scandent shrub to 3 m. tall,
sometimes armed. Growing in 2°
gallery forest. Fls. creamy
white.

5353. Myrcia fallax (Rich.) DC. Myrtaceae.
(4) sens. lat.

POP
COL
Glt
MICH
F

Small tree 5 m. in secondary
riverine forest. Immature fruit
pale green.
det. R. McVegh 1976

5354. Dalechampia canescens Kunth.
(7) det. J. L. Webster 1976.

POP
COL
GH
DAV
K
F

~~tree~~ ^{Vine} 4-5 m. tall at edge
of thicket. Bracts white with
green veins. Fls. green.

5355. Physalis angulata L.

Solanaceae.

(2)

det. W. D'Arcy 1986.

Roadside weed. Fls. ^{pale} yellow with 5 brown spots within. Pelyx in fruit pale green with dark brown veins. FRs. still green.

5352 Fridaia? Cupunia sp.

(2)

Tree. 5 m. tall at edge of thicket. Fls cream.

COLOMBIA
Depto. Cauca:

Road between Patia and El Estrecho. Ait. 550 m. ~~Cerro~~ Quebrada affluent of Rio Patia. 30 Jan 76

5357. Malpighia glabra

(6)

✓ POP
✓ COL
seed → Virabi

Shrubs to small tree 2-5 m. tall. Petals pale pink. Fruits bright red at maturity. Very common.

5358. Pithecoctenium crucigerum
(L.) A. Gentry

Bignoniaceae
Bignonioid

(5)

✓ POP
✓ COL
MO
GH
K

Herbaceous vine on riverbank, to 5 m. tall. Corolla creamy white.
det. A. Gentry '76

Tr. + Pl.
5359. Stigmaphyllon echitoides Malpigiaceae
.. det. W. R. Anderson 1976.
Vine in thicket along river.
Fls. yellow. FRS still green.

COL
GH
MICH

(3)

orinocense H.B.K.

5360. Erythroxylum patiacum ^{O.E.} (Schulz) ~~Plowman~~
(10) n.v. "coco", "sacha coco macho"

COL
USM
POP
US
GH
ECON
F
K

MO

Shrub 2 m. tall in 2°
riverine forest. Branches
spreading. Lvs. dark green above,
dull, midrib pale green; lvs.
very pale green beneath with
no areolae. Sterile. Rare (only
2 seen).

5361. Jatropha gossipiiifolia L. Euphorbiaceae
det. H. L. Webster 1976.
glandular shrub 1.5 m. tall. Perianth
dark red. FRS green.

COL
DAV
GH

(3)

5362. Phoradendron Loranthaceae
(3) det. C. Greene
Parasite. ~~on Sapindaceae~~
stems + lvs. dark green. Fruits
orange.

POP
COL
GH

Colombia: Dept Cauca. Road between
Galindes + Mojarros. Quebrada affluent
of Rio San Jorge. Alt. 550 m.

5363. Erythroxylum patiacum (O.E. Schulz)
(16) Plowman

POP
COL u
USM
US
GH
F
K G
NEU
MO
NY
u
TEX

Shrub 1-4 m. tall in
secondary forest along quebrada
In shade. Lvs. dark dull
green above, midrib lighter.
green. Lvs. pale green beneath
areolae faintly distinct.
Sterile. Frequent at this
locality.

? var. perdoana (Harms) Macbr.

5364. Caesalpinia cassioides Willd. Caesalpinia
(4) det. T. R. Brown 1978

Small tree to 7 m. with
spreading branches. Fls.
red. Frs. green

5365. Solanum pseudolulo Heiser
COL (2) det. M. Whalen 1981.

Spiny shrub 1 m. Lvs. dark green
above, pale green beneath. Fls.
white. Fruits green, orange at
maturity.

W
COLOMBIA: Dept. Cauca. NE.
of El Bordo. ~~Hacienda~~ Hacienda El Trigal.
- Basin of Rio Guachicono.
~~Jan 28, 1976~~ Jan 30, 1976.

Alt. 800 m. Flood plain of Rio Guachicono.

COL (4)
READING
ECON
F
5366. Cephaelis annuum var. glabriusculum
(Dunlop) Heiser + Pickersgill
Shrub in forest to 3 m. tall.
Fls. ~~erect~~ white, anthers blue.
FRS. green to orange.

5366A - Trichilia seeds.

C. annuum L.
var. arviculare (Dierb.)
D'Arcy + S. S. B. 1982.

5367. Cestrum

(4)

POP
COL
GH
MO
Scrambling shrub 2-3 m.
tall in forest. Fls. dull
yellow.

- Hills above river. Alt. 900 m.

5368. Renoualia occidentalis (Sw.) Sweet
(4)
var. occidentalis

COL
U
F
GH
DUKE
Herb 2.5 m. tall on open
cut-over slope. Peduncles dark
green. Radial ~~dark~~ red. Bracts
brown. Pedicel ovary + calyx red.
Fls. yellow. FR: red. Dried
orange. Seeds light brown.

(In Finca El Trigal)
Houseyard midway between
Rio Guachicono and Pan-
america Highway.
Alt. 960 m, 30 Jan 76

✓ 5369. Hibiscus Malvaceae
COL (2) n.v. "Zimbergris"
ECON Cult. Herb - 3 m. tall. Fls.
yellow, turning pink. FRs.
green, brown at maturity.

✓ 5370. Capsicum.
COL (2) "aji"
ECON Cultivated herb, 1 m.
tall. Fls. creamy white.
FRs. yellow.

✓ 5371. ~~Geocarpium~~
COL (3) Drachis hypogaea L.
n.v. "mani"

Cult. Herb. Geocarpic fruits
brown.

5372. Gossypium

COL (2) nv. "algodón"

Treelet 3 m. Fls. yellow.
Capsules green.

5373. Erythroxylum novogranatense (Morris)
(3) Hieron.

nv. "coza"

(A)
NINA
seabo
COL
US
ECON

Spreading shrub 2.5 m.
tall, 2 m. in diameter,
arising from several trunks.
Seed to be 5 yrs. old from seed.

Leaves yellowish green above,
very pale green beneath with
distinct areolae, bilineate.

Fls. ~~red~~ creamy white,
buds yellowish. Fruits green
turning orange, then bright
red.

Cultivated in cocal. One of
few bushes not stripped of
leaves. Fertilized with cow manure

Fuente of: Marco Tulio Ruiz Ordóñez
Calle 5 #6-60 Barrio Calle Nueva
El Bordo, Cueva, Colombia.

5374. Erythroxylum novogranatense
(4) (Morris) Hieron.

Col
ECON
F
K

N. Y. "Coca"

Erect shrub 2.5 m. tall cultivated in coral. Trunks and major branches covered with lichen. Lvs. small, chlorotic, light yellow-green above, very pale green beneath, bilineate. Fls. cream. Fruits green, then yellow, then orange, red at maturity. Cult. in coral.

5375. Erythroxylum novogranatense
(4) (Morris) Hieron.

Col
ECON
F

N. Y. "Coca"

Shrub 2.5 m. tall with open spreading arching-over branches. Lvs. darker green above, pale yellowish green beneath, bilineate. Fruits red.

Cult. in coral. Distinct "variety" - same use.

5376. Bryophyllum

(1)

COL-unicate

Cult. herb with fleshy lvs.
Calyx dark red below,
apically pale green.

Used for earaches.

5377. Salvia

(2)

COL
ECON

n.v. "valeriana"

Cult. herb. Lvs. dark green
above, dark red purple beneath.
Infl: dark red purple.

used for "los nervios de mujeres".

COLOMBIA: Dept. Cauca.
Parque Nacional de Puracé.

ORCHIDS

Humberto
Granados

28 JAN 1960.

Cultivated? brought in by locals.

No. 1.

Epiphyte. Infl. 1 m. long.
Sepals + petals ~~dull~~^{prismatic} yellow with
brown spots. Lip brown.

No. 2.

Epiphyte. Fls: sepals + petals
dark reddish brown.

No. 3

Epiphyte. Sepals dull yellow
with dark red lines. Petals
basal dark red, apically
dull yellow, with dark red
lines.

No. 4.

Epiphyte. Upper 2 ~~sepal~~^{petals} deep
yellow apically, basally with large
dark red spot. Lip deep yellow. Sepals
dull yellow.

No. 5.

Epiphyte. Sepals dull yellow. 2 ^{petals} ~~upper~~^{lower}
petals dull yellow with dark red "veins" at base. Upper

petal dull pale yellow with paired
dark red lines (15 pairs).

W

COLOMBIA: Dept. Cauca.

Panamerican Highway between
Calibío and Piedzamo.

Alt. 1660 m. 31 Jan 1976

5378.

fern

(2)

COL
US
GH

Epiphyte on mossy tree trunk.
In forest along small river.

5378-A. Monotropa uniflora L.

(1)

GH

Saprophyte in oak leaf
humus in forest along small
river. stem, scale leaves
and fls. pale red.

5379. Meriania speciosa (Bonpl.) Naud.

(3)

det. J. J. Wurdack 1976

COL
US
GH

Shrub 2 m. tall on open
slope in thicket. Calyx light
green. Petals bright magenta.

COLOMBIA: Dept. Cauca.
Piedomó. Along Rio Piedomó.
Alt. 1700 m.

31 Jan 1976

5380. Erythroxylum novogranatense (Morris)
(5) Hieron.

n.v. coca.

Tall ~~tree~~ ^{cult.} shrub 4 m. tall. Leaves
young, bright yellow green
above, pale green beneath,
bilobate. Buds pale yellow.
Recently picked.

Growing in coffee plantation on
slope above river.

5381. Erythroxylum novogranatense
(Morris) Hieron.

Shrub 1.5 m. tall growing
in coffee plantation above river.
Heavily infested with lichen.
Short, ~~erect~~ erect branches.
Lf. young, bright yellow
green above, pale green beneath.
Recently picked.

COL
USM
ECON
F
NY

COL
ECON
F
MO

COLOMBIA: Dept. Cauca.
Santander de Quilichao.
ALT. ~~11000~~ 10700 m.
31 Jan 1976.
Garden of Nestor Usategui.

5382. Erythroxylum novogranatense
(4)

~~n.k.~~ "Coca"

Tree 4-5 m. tall with
trunk 10 cm. DBH. Said
to be 25 yrs. old. Lvs. bright
green above, very pale green
beneath, areolae pale
yellowish green, bilineate.
Sterile.

5383. Erythroxylum novogranatense (Morris)
(3) Hieron.

Tree 5 m. tall cultivated
in garden. Trunk 10-15
cm DBH. Lvs. medium dark
green, dull above; ^{very} pale
green beneath, areolae
paler yellowish green,
bilineate. Sterile. Partial
shade.

COL
USM
ECON
F

COL
USM
ECON

5384. Erythroxylum novogranatense (Morris)

(3)

Hieron.

Slender tree 5 m. tall growing in garden in full sun. Trunk 5 cm DBH. Lvs. held erect, yellowish green above, very pale green beneath, bilineate, areolae somewhat paler. Fruit light red.

[SAME info. at 5384] +

5384 ~~2~~ (2) Sucker shoots from trunk of 5384.

5385. Erythroxylum novogranatense (Morris)

(6)

Hieron.

nv. "coco"

Slender tree 5 m. cultivated in full sun in garden. Trunk 5 cm. DBH. Lvs. yellowish green above, dull; very pale green beneath, bilineate, areolae sometimes lighter. Fruit bright red.

COL
{CON
F

F
NY
GB

COL
ECON

F
NCH
CGE
ICW
S

Colombia: Dept. El Valle.
Road from Santander to Quilichao
to Cali, km. 30 from Cali.
Alt. 955 m. 31 Jan '66

5386. Canna glauca L.

(2)

4 labels

COL
Seed:
GH
U

Herb 2 m. tall growing
in open marsh. Rachis
and ovary ~~pub~~ light green.
Calyx creamy white. Corolla
and stem node pale yellow.
Frs. light green, turning
brown.

Peru: Lima. Miraflores.

~~5388A. Dichorisandra~~

~~Coumelinas~~

~~live only Cult. herb 2.5 m. tall.~~

→ 7614

* COLL: TIMOTHY PLOWMAN

Universidad Nacional Agraria

Peru: Dept Lima. ^{de la} Molina
Jardín Botánico. 6 Feb 76.

5387. Erythroxylum ulei O. E. Schulz

ECON (6)
F NY
US
F. anal.
COL
BH
K

straggly
Cult. 7 shrubs. 2 m. tall.
~~Straggling~~. Lvs. dark green above,
paler yellowish green beneath, thick
Buds yellow.

(Morris) Hieron.

5388. Erythroxylum novogranatense ~~Cumelina~~

ECON
COL (3)
BH

Cult. ~~Shrub~~ 2 m. Fls. cream.

PERU: Dept. Ancash. Prov.

- Gramadal. Km. 249

north from Lima on Panamericana
highway. 9 Feb 76. Alt. 20 m.

US 5389
F (3)
USM

gramineae
grass.
Herb forming thick mats
in low sandy area.

GH 5390. Distichlis
F (3)
USM

gramineae
Herb forming thick mats in low
sandy area.

Peru: Dept. Ancash. Prov.
Casma. Km. 263 N. of Lima
on Panamerican Hwy. Alt. 20 m.
9 Feb 76. Las Forras.

5391.

Cheupod.

√ USM
GTH (2)

Herb 1 m. tall in dry mud-
flat. Fls. dark greenish brown.

√ USM
GTH 5392.
(2)

Cheupod.

Herb 1 m. tall in dry mud-
flat. Fls. pale green.

5393. Capparis cordata R. & P.
(3) det Emma Cerrate 1976.

√ F
√ USM
GTH Spreading Shrub ~~ca~~ 1-2 m. tall forming
rounded clumps. Fls. cream
to bright yellow. ~~Fls.~~

5394. Phyla nodiflora (L.) Greene Verbenac.
(4) det Emma Cerrate 1976.

GTH
√ USM
F Prostrate herb on sand
hillock. Fls. pale pink with
yellow markings.

Peru: Dept. Lambayeque.
Prov. Lambayeque. Km. 85^N from
Lima, South of Olmos.
Alt. 160 m. Feb 10, 1976.

5395. Cesalpinia

USM
GHT (2) Spreading shrub or small tree
to 4 m. tall. Fls. yellow, upper
petals spotted red. Pods brown.

5396. ~~Crotalaria~~ Vallesia glabra (Cav.) Link Apocynac.

USM
GHT (2) Shrub 1.5 m. tall on
open roadside. Fls. translucent
white. Lvs. rubbery.

5397. ~~Cereus~~ Haegeocereus Cactac.

(2) det M. Flores 1977
Erect columnar cactus, to 1.5
m. tall, forming clumps on dry
hillside. Hypanthium green. Outer
tepals greenish brown. Inner tepals
cream.

5397A.

Cactu.

5398.

(1)

GH

~~Columna~~ cactus 1 m. tall
on dry ~~side~~. Sterile.

5399.

Cactus.

Seed
only
unch

Small barrel cactus to
0.4 m. tall. Fls + fruits
bright magenta.

Peru: Dept. Piura. East of
Piura. 11 Feb 66.

5400. Capparis ovalifolia
(14)

USM
GH

Shrub 2 m. tall, with
spreading branches. Fruits
orange.

Peru: Dept. Piura. El Alto.

Prov. Talara. Casbo Blancos. Alt. 20 m.
11 Feb Fl.

5401. Grabowskia boerhaviifolia (L.f.)
Schlecht.

GH (6)

F (A) Arisee shrub 1-2 m. tall. Lvs. bluish
green. Fl. buds yellowish green.
Very dry gullies near beach.

USH
ECON
MO
US

Peru: Dept Tumbes. Prov. Guatarmirante Villar
Hacienda Chicama. Alt. 235 m.
11 Feb Fl.

5402. Coccoloba ruiziana Lindau
n.v. "añalque"

GH (3)

FJ
USMJ
Tree with spreading branches
6-8 m. tall. Fls. greenish. Frs.
green.

5403. Coccoloba ruiziana Lindau
(5) v.n. "añalque"

FJ
USMJ
K
GH
US
Tree to 6 m. tall with spreading
branches in open roadside. Fls.
Creamy white. det. R.A. Howard 1985.

Psittacanthus obovatus Benth. ex.

5404. Phrygananthus Eichl.

(2)

det CW Greene 1976.

Parasite on Coccoloba
(5403).

Calyx green. Corolla, filaments
and pistil red.

USM
GH

Peru: Dept. Tumbes, Prov.
Contralmirante Villar. Near La Huaca between
Papayal y Ciénago. Alt. 245 m.
" Feb 76

5405. Cordia lutea Lam.

(3)

"n.v." overal" det Emma Cerrato f.

F
USM
GH
Wimmer 1981

~~Shrub~~ Sprawling shrubs
Seed 3 m. tall. Fls. bright
yellow. Fruits white,
translucent.

(VAN HEURCK & MUELL. ARG.) BITTER
5406. & LYCIANTHES CYATHOCALYX Schum.
(4) det. M. NEE 1990 (N. HENSOLD 1996)

Shrub 2 m. in thickets.
Corolla creamy white with
orange center. Anthers deep
orange.

F
USM
MO
GH

5407. Caesalpinia corymbosa?

Legumin.

(3) n.v. Charán.

Tree 5 m. tall in 2^o thickets.

Fls. yellow, base with red dots.

Frs. brownish green.

Randia aurantiaca Standl. det D. Simpson '76.

5408. ~~Randia~~ Sphintanthus maculatus Rubiac.

(4) "Planta de zorro"

Climber. Celyx green. ~~Corolla~~ ^{Corolla}

tube pale greenish yellow, Limbs bright orange.

5409. Passiflora aristulata Mast.

(3) det. Kew 1977.

Herbaceous vine in cut over field. Fls. pale yellow. Frs. green.

5410. Capparis mollis?

(2) n.v. "margarita"

Tree 5 m. tall. Frs. green.

5411. Hymenocallis quitoensis Herbert

(5) n.v. "Zamancy"

Bulbiferous herb. ~~Fls~~ Corolla tube pale green. Tepals white.

Corolla white with ⁵ green lines surrounded by yellow.

det Kew 1977

F
USM
GH

GH
JF
USM
K

GH
USM
K

GH
USM
K

GH
PJ
USM
K
U

Herb: Mo
FLAS

Eucrosia bicolor Ker. Gawl.

5412. ~~Colandrinia?~~ det. A. Meerow 1984.

Seed (3)

"cebolla de campo"

Bulbiferous herb. Fls. pale

GH USM

red throughout.

Meerow 1985
live → Herkblots

12 Feb 86 Alt. 210 m.

5413. Mirabilis?

Nyctag.

GH (2)

USM

Herb. Fls. deep magenta
fading pale pink.

Along quebrada.

5414.

Bombac.

(2)

Tree 15 m. tall. Trunk
bellied, 40 cm. dbh.
Sterile.

GH 5415 - Cordia POLYANTHA BENTH.

AA

USM

(3)

DET. P. S. GREEN (K) 1990

Seed

Winters 1981

Shrub 1-2 m. tall in
thickets. Corolla white. Ripe
fruit red.

Peru: Dept. Tumbes. Prov. Centralmiraflores
Villar. Hacienda La Chozas.
River bed. Alt. 140 m.

GH 5416. Oxalis Dombeyi St. Hil. Flowers
USM (2) semi fleshy herb. Pale orange.
det. A. Lourteig 1977.

USM GH 5417. Salvia
(2) 1 m tall
Photo Tall aromatic herb in open
meadow. Calyx dark purple-black.
Corolla deep purple.

USM GH 5418. Salvia
(2) Photo Herb .5 m. tall in open
meadow. Fls. pale blue with
white nectar guides.

GH 5419. Arenaria
(1) Herb in stream bed. Fls.
white.

5420. Tribulus

Zygophylla

GH
USM ✓
(2)

Prostrate herb in open meadow.
Fls. pale creamy yellow.

Bacopa

5421. ~~XXXXX~~

Scrophularia

GH
USM ✓
(2)

Semi aquatic fleshy herb.
Fls. pale violet-blue.

~~XXXXX~~

Peru: Dept. Tumbes, Prov. Contralmirante
Villar. Between Casitas & Huásimo.
Alt. 250 m. 12 Feb '76.

5422. Bauhinia aculeata L.

(4)

GH
USM ↓
K
F
Shrubs ~~2~~³ m. tall in thicket
along quebrada. Calyx pale
yellow-green. Petals white.

Talinum triangulare (Jacq.) Willd.

5423. Calandrinia

Portulacaceae

(2)

GH
USM ↓
F
Fleshy herb in shade along
quebrada. Fls. magenta.

5424. Achate Carpus mollis H. Walt.

(3)

Det. T. Plowman 1979

GH
F
USM ↓
Shrub 2-3 m. tall along
quebrada. Young fruits
pale green.

5425. Talinum triangulare (Jacq.) Willd. Portulacaceae

GH
USM ↓
F
Fleshy herb in shade on
streambank. Fls. white.

5426. Heliotropium angiospermum Murr.
(2) det. M. Fröhlich 1984.

USM
GH

Subshrubs 1 m. tall in
open roadbank. Fls. white

Ⓐ > K

Alt. 330 m.

5427. Carica ^{parviflora (A.DC.) Solms} ~~microcarpa Jacq. ssp.~~ det TP 1983

Flos.
Seed
Vainica

(9)

heterophylla (Poepp.) Badillo

Shrub, unbranched, to
3 m. tall. Peduncles, ~~bracts~~

F
USM

GH-3
K-2

perianth ~~white~~ ~~light~~
magenta pink ♀ + ♂. Frs. green
with white stripes, turning orange.
det Kew 1977.

Ⓐ > K

5428. Bougainvillea peruviana

GH
F
USM

(3)

Scandent shrub 3 m.
on steep roadbank. Bracts
pale pink, perianth
dull pink, lobes cream.

5428-A.

Amaryll.

Bulbs only.

5429. Dalmanthia scandens L.

(4) var. hibiscoides (Kunth.) Muell. Arg.

F ↓
USM ↓

Herbaceous vine in thickets. Bracts + fls. pale green.

GH
DAVIS ← (A)

Det. G. L. Webster 1976.

5430. Erythroxylum glaucum O. E. Schulz

Det. T. Plowman

GH
F ↓ (12)

Shrub 1 m. tall hanging from road bank. Lvs. ~~bright~~ yellowish green above, pale green beneath with distinct areolae.

USM ↓
K
DUKE
UPS
B
NCU
CGE
UEC
NY

5431.

Asclepiad

GH
USM ↓ (2)

Herbaceous vine in thicket. Fls. cream.

5432. ~~Passiflora~~ Sickingia ecuadorensis Standl. Pub.

Det. D. Simpson 1976.

GH (4)

Shrub 3 m. tall in secondary forest. Bracts light green. Fls. pale green.

F ↓
USM ↓
K

5433. Erythroxylum glaucum O.E. Schulz

GH (17)
USM
US
U
COL
K
EON ~~5434~~

Shrub 2 m tall in
hillside thickets. Sterile.
Lvs very dark green above,
pale green beneath
areolate. Sterile!

Alt. 480 m.

5434. Erythroxylum glaucum O.E. Schulz

GH
USM
F
US
K
GB

Young plant growing
at base of huge Ceiba.
2 m. tall.

Lvs. dark green above,
pale green beneath,
areolate. Sterile.

5435. Erythroxylum glaucum O.E. Schulz

WOODS
Aw, Bw

GH RB
USM

Tree 8 m tall with
spreading crown. DBH 15 cm -
covered with termite nest.
Growing on gradual slope
in secondary forest. Leaves
firmly membranaceous,

TEX
P
U
SEL
S
MO
G
NY

VOUCHER SPECIMEN

5435A
Full dark green above, midrib
yellow-green; beneath very pale
green with distinct areolar
region, ± bilineate. Fruits
few, ~~+~~ light yellow-green.

5435A.
foto only

Cactus

5435B.
foto only

coca minima

Legumin

Peru. Dept. Tumbes. Prov. Contralmirante
Villar Huásimo. Quebrada
Ucumares. Alt. 550 m

5436. Erythroxylum glaucum O.E. Schulz
(4)

USM
ECON
US
F

Tree 8 m. tall with
broad spreading crown.
Tree 30 cm DBH. in hilltop
secondary forest. Lvs. shiny
medium green above, pale
dull green beneath with
distinct areolae and lines.
Lines produced by lighter
outer margin of areolae,
not raised. Fruits light
yellow green.

5437. Erythrina velutina Willd.

GH
USM
NY

(3) det BA. Kruckhoff 1976.
Tree 15 m. tall with
rugose bark. Spiny outgrowths
blackish. Sterile.

5438. Ceciba?

(2)

Tree 15 m. tall on open hillside. Trunk bellied, greyish green to reddish green. ^{Fed} Spines, short.

5439. Lycianthes

(3)

Shrub 2 m. tall in thicket along quebrada. Calyx and fruit light green.

5440. Erythroxylum glaucum O.E. Schulz

(5)

Small tree 6 m. tall growing in rocks along stream. Lvs. yellowish green above, dull, with light yellow green costa; beneath pale green, areolae + veins scarcely discernible. Pedicel + fruits pale green.
Frequent.

USMV
GH
MO

GH
USMV
MO

GH
USMV
US
F

5441. Phyllanthus cf. huallagensis Standl. ex Croizat
det. G. L. Webster 1976.

GH
USM (1)³
DAVIS
A → DAV lt.

Shrub 2-3 m. tall in secondary woods & roadsides. Fruits lt. green.

TYPE

5442. Bunchosia plowmanii W. R. Anderson
det. Anderson 1976. Melipighia

GH
USM (4)
MICH
F

Shrub 1.5 m. tall in edge of thicket along road. Glands dull yellow. Calyx green. Petals bright yellow.

5443. Prockia cracis L.
det. T. Plowman 1977.

USM (2)
GH

Treelet 5 m. tall in secondary woods. Calyx + corolla very pale green. Ovary cream.

[5444.]

Algae

[formol only]

USM unicate,

Filamentous green alga in DOD in Quebraba.

Chara

5445. ~~Utricularia~~

FARLOW (3)
USM ✓
K

Submerged aquatic herb in
pool in quebrada. Lvs. green.
~~Fls.~~ Fls. light brown.

F.R.S.

Peru: Dept. Tumbes. Prov. Tumbes.
Puerto Pizarro. Alt. sea level.

5446. Lycium nodosum Miers

GTH
USM ✓
K

(4)

det. G. Vilcapoma 1976.

Shrub 1 m tall in thickets
behind beach. Fls. pale pink
to cream. Frs. dark red.

⊕ → K

ECUADOR: Dept. El Oro.

Faracay, road from Arenillas
to Piñas. Alt. 260 m. 14 Feb 1976

carinatus Little det. Plouffe
1979

5447 ~~Erythrociton macropodium Krause~~ Rutaceae

(3)

det TP

GH

USM

F

Shrub 2 m. tall on steep
hillside. Secondary forest.

Calyx light yellow green
Corolla pure white.

TOXOSIPHON CARINATUS (LITTLE) KALLUNKI
DET. J. KALLUNKI 1991

GH
USM
F

5448. Pseuflora RUBRA L.

(3)

DET. J.E. LAWESSON & L. HOLM-NIELSEN 1987

Herbaceous vine in 2°
woods on steep slope in
ravine. FRs. pale red.

5449. Clavija

GH
USM

(2)

Unbranched shrub 1.5 m.
tall in 2° forest in ravine,
FRs. orange.

~~5448~~

5450. Calathea inocephala (O. Ktze.) Kennedy
+ Nicholson.

(A)

(6)

foto
H.K.
GH
USM?
F

Herb 2 m. tall along quebrada
in semi-shade. 2° forest. Lvs. light
yellow green above, paler beneath.
Shiny. Costa + pubescence pale
olive green. Petiole to 1.5 m. long,
blade 1 m. long. Bracts chaffy
light brown to orange. Calyx cream.
Corolla pale orange. Stamens
pale yellow orange.

5451. Actinostemon concolor (Spreng.) Euphorb.
Muell. Arg. det. G.L. Webster Fl.

GH (2)
USM
DAVIS

Shrub 2.5 m. tall in 2° forest
on steep hillside. Lvs. dark green
above, very pale green beneath.
Fls. dark brownish-green.

ECUADOR: Dept. El Oro. Canton
Piñas, Road from Arenillas to
Piñas. Platzenillos.
Alt. 360 m. 14 Feb 1976.

5452. Desmodium axillare (Sw.) DC. var.
GH (2) axillare det B.G. Schubert 1977
USM ✓ Roadside herb in thicket.
Fls. deep magenta pink.

ECUADOR: Dept. El Oro. Canton Piñas. Road from Arenillas
to Piñas.
Below "Planta Eléctrica Piñas."
Alt. 650 m. 14 Feb 1976.

5453. Desmodium adscendens (Sw.) DC.
GH (2) det. B.G. Schubert 1977.
USM ✓ Roadside herb. Fls. bluish
green.

5454. Heliconia obscuroides L. Andersson.
GH (2) det. L. Andersson 1985.
USM ✓ Herb 2.5 m. tall in
cut over forest. Petiole 1 m.
tall. Lf. 1.5 m. long. Rache
& bracts dark green. Fls.
yellowish green. Bracteoles cream.

= Pleiostachya morlaei (Eggers) Schum.
det. L. Andersson
1979.

Ischnosiphon

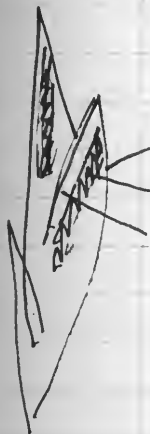
5455

morlaei Eggers:

det H. Kennedy 1976.

foto (1)
Kennedy Herb.
GH
F

Herb 25m. tall. in cut over forest. Petiole 1.5 m. long. Lf. blade 1 m. long. Petiole, peduncle & primary bracts dark red. Lvs. dark green above, pale green beneath with purple tinge along margin. Bracts pale yellow-green with whitish wax on sides, margin pale yellow. Calyx hyaline. Corolla tube cream, lobes pale yellow. Stamen pale purple, staminode pale yellow.



5456. Renanthera oligosperma K. Sch.
det P. J. M. Maas 76.

Herb 2 m. tall in cut-over woods, wet forest. ^{Basal} bracts dark red-brown. Peduncle + rachis light green. Fls. yellow + pedicels
Fls + calyx bright red.

USM ✓
U
GH
F

5457. Erythrina schimpffii Diels

(16)

det B.A. Krühlf 1976.

GH
USM
NY

Foto

Treelet 5 m. tall, leafless.
Infl. cauli-florous, Calyx
pale orange. Corolla bright
orange.

Lvs. from young seedlings
under plant.

Ⓐ → K

5458.

Gesneriad.

(1)

Foto!

Subshrubs 1 m. tall in
cut over wet forest. Pedicel
dark purple red. Calyx dark
red. Corolla bright yellow,
~~light~~ limb ~~dark~~ red.

Ⓐ → K

5459. Stenospermation

(2)

Erect terrestrial herb
1 m. tall in cut over wet
primary forest. Spadix
creamy yellow.

5459A. Philodendron

Foto only

GH
US

5460. Anthurium pallens Schott
(2) det D. Wasshausen 1976

GH
US

Erect herb, terrestrial, in wet primary forest. Spathe light green. Spadix light green.

~~Coutarea~~

Rub.

5461. ~~Homelia~~ Homelia macrantha Little

GH (3)

F V
USM V

det. P. Matekatis 1982.

Herb 1.5 m tall on wet open roadbank in thicket. Fls. somewhat fleshy, brittle, deep yellow.

Alt. 780 m.

5462. Caria

GH (3)

USM V

F

Unbranched shrub 2 m.

tall in open wet roadside.

♂ flowers: tube pale green, limb pale yellow.

Ⓐ → K

5462A. Costus pulverulentus

foto only

5462B. Costus lima

foto only

GH
USM
5

5463. Tropaeolum papillosum Hughes
(3) det. B. Sparre 1976.

Herbaceous vine in wet
hillside thickets. Pedicels
pale green basally, apically
reddish. Spur bright red,
calyx lobes light green.
Petals fringed black.
Anthers pale blue.
A7K

GH
USM
U
F

5464. Revea ~~sp. aff.~~ ligulata Maas
(8) 4-5 m. det P.J.M. Maas B

Herb ~~5-6~~ m. tall in
open thicket along rocky
Quebrada, tufts basal
short, circling base of plant.
Rachis cream. Pedicels pink.
Ovary yellow. Calyx red.
Corolla red. Stamens -
cream. Stamen yellowish.
FRS. dark red.

Alt. 1000 m. Near Monos. 15 Feb 76.

5465. Merantia aff. tonckot Aubl.

(3)

USM ✓
F

Herb 1.5 m. tall with
spreading branches. In 2^o thicket
Fls. white with small purple
spot on stem node. Fruits
warty, orange-red.

Ecuador: Prov. El Oro.

Portobelo: Alt. 790 m.
15 Feb 76.

5466. Merantia ~~sp.~~ arundinacea L.

(1)

det. L. Andersson 1987.

(A)

Helen → F

Herb along quebrada in
dry forest. Base yellow green.
Corolla pure white.
2 fls. only.

5467. Peperomia fraseri C. DC.

det. W. Burger 1981

GH
F

Fleshy herb on rock in
2^o forest. Stems, petioles
& veins beneath reddish.
~~Fls.~~ Spikes white.

Ecuador: Prov. El Oro.
Canton Piñas. Below
Planta Eléctrica. Alt. 780 m.
16 Feb '66.

5468. Loasa triphylla Juss.

(3)

det. Sparre

Seed.

Wagner
GH
USM
S

Herb 1 m. tall on wet
roadbank. Calyx green.
Petals pure white. Corona
pink.
(A) → K

5469. Tournefortia

Baragü?

(2)

F
GH seed
Wagner

Herb or subshrub 1 m.
tall in wet roadbank.
Infl. pendant on long peduncles.
Fls. dull cream. Berry
pure white ~~to~~ turning deep
blue-green on picking or
bruising.
(A) → K

Ecuador: Prov. El Oro. Canton
Arenillas. Road South of
Arenillas toward Piedras.
Alt. 150 m. 16 Feb 76

5470. Erythroxylum glaucum O.E. Schulz
(6)

F J
USM J
GH
S
NY
GTB
MO
Tree 7 m. in low secondary
forest, in water hole. Trunk
10 cm. DBH. Bark somewhat
rough, grey, flaking out in
small pieces. Lvs. light
yellowish-green to dull medium
green above, very pale green
beneath. Sterile!

Only one seed.

5471. Sorocea trophoides W. Burger ~~E. Aublet?~~
det. C.C. Berg 1976.

(b)
GH
USM
S
foto
Shrubby 2 m. tall in forest
margin. Pedicels light red.
Fls. black at maturity.

5472. Flueggea elliptica Baillon Euphorh.
det G. L. Webster 1976.

(3)

Treelet 3 m. tall. Forest

margin: fls. pale yellow.

Fls. green.

G4
USM
D200

~~photo~~

Prov. Zarumilla.

PERU: Dept. Tumbes: D#6.
Matapalo. Bosque Nacional
de Tumbes. Near Matapalo.
Alt. 150 m. 17 Feb 66

5473. Malpighia

winica (3) 1181!
Cornell
seed

USM ✓
BH
GH

Shrub or small tree with spreading
branches, to 5 m. tall in secondary
forest. Fruits bright red at
maturity. ~~Reverend of the~~
A → K

5474. Erythroxylum glaucum O.E. Schulz
(7)

GH
USM ✓
ECON
F
HBG
RB
WIS
K

Shrub 3 m. tall in secondary
forest margin. Lvs. medium green
above, dull, midrib yellowish above.
beneath very pale green with lower
paler areolar region, veins distinct
but not raised. Fts. 1-6/fascicle
Pedicel, calyx + immature fruits
light green.

5475. Pissiflora

GH (4)

F
USM
S

Herbaceous vine in open
thicket. Fruits light green.
Sepals lt. green. Petals white. Corolla
light purple.

5476. Capparis

USM
GH

Shrub 1.5 m. tall in road-
side thicket. Fruits light green.
Shiny

5477. Euphorbia graminea Jacq.

GH
USM
DAVIS

det. G. L. Webster 1976

Shrubs 2 m. tall in forest
margin along road. Calyx white
Ovary yellowish green.

PERU: Dept. Tumbes, Prov.
Laramilla. Region below El
Cencho. 350-450 m. ALT.
18 Feb '66. Dry tropical forest.

5478. Cyclanthera MULTIFOLIOLA COGN.

DET. N. HENSOLD 2000.

Herbaceous vine in open
roadsides in thicket. Fls. +
young frs. yellowish green.

GH (3)
USM
F

5479. Bunchosia plowmanii W. R. Anderson ^{sp. nov.} Malpighiaceae.
det. W. R. Anderson ~~1976~~ 1976.

Shrub 2.5 m. tall in open
thicket. ~~Fls. yellow~~ Frs. green,
to orange to red.

GH (3)
USM
MICH

5480. Bunchosia plowmanii ^{sp. nov.} ^{W.R.} Anderson Malpighiaceae.
det. W. R. Anderson 1976.

Shrub 2 m. tall in open
thickets. Fls. yellow throughout.

GH (3)
USM
MICH

LIVE: Waimia

5481. Acnistus

GH
Seed herbar
USM
MBF

(3)

Shrub or small tree to
4 m. tall on roadsides.
Fks. orange at maturity

5482 (Cassia) SENNA MOLLISSIMA Bignon.

GH
MO
USM

(3)

(WILLD.) IRWIN & BARNEBY VAR. MOLLISSIMA

Tree 5 m. tall on road-
bank at edge of forest.
Lvs. light green, paler green
beneath. Fks. very dark
green, brittle. DET. R. BARNEBY 1988

5483. Zizyphus

GH
USM

(2)

Spiny shrub with scan-
dent branches, 3 m. tall
in open thickets. Fks. lt.
green.

5484. Croton pavonis Muell. Arg.

GH
USM
DAVIS

(3)

det G. L. Webster 1976
Treelet 5 m. tall in forest
margin. Fks. green.

5485. Lantana scabiosaeflora H.B.K.

(3)

det. Moldenke 1976

Shrub @ 1.5 m. tall on open
roadbank. Outer fls. white.
Inner fls. pale yellow.

GH
USM
NY

5486 ~~Echites~~ Prestonia

(1)

Vine on open roadbank. Calyx
pale green. Corolla tube very
pale greenish yellow. Limb
pale green toward center,
yellow petals.

Food plant of Ithomis.

GH
USM
M

5487. Croton

(3)

Treelet 5 m. tall in forest
margin. Frs. green.

hirsuta Jacq.

5488. Rauwolfia ~~hirsuta~~

(4)

det. Emma Cerrate Fl.

Shrub 1.5 m. tall in shaded
roadside, edge of forest. Latex white.
Corolla white. Frs. green.

GH
USM
DAVIS

F
USM
GH
K

5489. Capparis

(2)

GHT
USM ↓

Straggly shrubs 2 m. tall.
Lvs. coriaceous. FRS. shiny,
mahogany brown.

5490. Jacquinia

(2)

USM ↓
GHT

Spring leaved shrubs, densely
branched, to 3 m. tall.
Lvs. shiny dark green above,
pale green beneath. FRS.
light green.

5491.

(2)

seed

USM ↓
GHT

Tree 15 m. tall in hill-
side forest. Lvs. shiny dark
green above, dull light green
beneath. FRS. dull green
at maturity.

5492. Solanum

GH-2 (3)
USMJ

Climbing herb on roadbank.
Fls. bright yellow.

5493. Piscidia carthagenensis Jacq. Legum.

(2) det. V. Rudd 1977

seed - 1981!
washed

USMJ
GT

Tree 10 m. tall at forest margin along road. FRS. brown.

5494.

Pontederia

FV (3)

USMJ

GT

Terrestrial herb in large mud puddle in road. Fls. cream.

5495.

Azalepioid

GH
USMJ
M6

(3)

Herbaceous vine in thicket on roadbank. Fls. pure white.

5496. Guarea?

Meliaceae

GH (2)
USMJ

Tree 8 m. tall. Fls. creamy yellow. FRS. green. Lvs. lustrous.

Wulffia

5497. ~~Aspilia~~

Comp.

det. E. Zardini 1977.

GH
USM ✓

Shrub 1.5 m. tall on
open road bank. Very fre-
quent. Fls. deep yellow.

5498. Xanthosoma

(2)

GH
USM ✓

Herb on roadbank. Lvs.
sagittate-peltate. Immature
spathe lt. green. ♀ fls.
pale green. Sterile part pure
white. ♂ fls. creamy white.
Stender Uncommon.

5499. Xanthosoma helleborifolium

(2)

GH
USM ✓

Herb 1 m. tall on road-
bank. Frequent. Immature
spathe light green. Spadix
creamy white throughout.

5500 Cayaponia

Cucurb.

F ✓
USM ✓
GH

(3)

Herbaceous vine in thicket.
Calyx green. Corolla light
yellow

5501.

GH ✓
USM ✓

Tree 6 m. tall. Fks.
light brown.

5502. Macranthosiphon

Bignoniaceae

longiflorus (Cav.) K. Sch.

(Seed
Wine): live 1981:

Vine in thicket, 4 m. tall.

USM ✓
MO

det A. Gentry 1976.

Peru: Dept Tumbes. Prov. Zarumilla, Pampayal. Alt. 105 m.
19 Feb 76

5503 Tabebuia billbergii (Bur. + K. Schum.) Standl.
(2)

Wainy seed
MO
USM ✓
MO

Shrub 3-4 m. tall in open thickets. Fls. dark green to brownish.
det. A. Gentry 1976.

5504 Heliotropium angiospermum Murr.
det. M. Frohlich 1984
94
USM ✓ (2)

Herb to 1 m. tall in open pastures. Fls. white.

5505. Lantana svensonii f. albiflora Moldenke
NY
USM ✓ (2)

Shrubs 1-1.5 m. tall in open pastures. Fls. white throughout.
det. Moldenke 1976.

5506. Mimosa lucida
GH
USM ✓ (2)

Armed shrubs 2-3 m. tall in open pastures. Fls. white.

Peru: Dept. Tumbes. Prov.
Tumbes. Puerto Pizarro.
Alt. 10 m. 19 Feb 76.

5507. Malpighia

(3)

Shrubs 3 m. tall in
open sandy thickets. Fls.
pale yellow-green.

5508. Cereus?

(3)

seed-chuck

USM

GTH

live

Harvard forest

etc.

Arborescent cactus 5 m.
tall. Hypanthium dark green
tinged reddish. Outer tepals
dull red. Inner tepals
cream. Fr. pink.

hepto-

5509 Cereus

(3)

GTH

USM

det M. Flores 1977

Columnar cactus 1.5 m.
tall in open sandy area
near sea. Ovary lt. green.
Hypanthium lt. yellow-green.
Outer tepals reddish. Inner
tepals cream. Fr. green.

Peru: Dept. Piura. Prov. Talara
Panamerica Highway SE of Mancora.
km. 1216... 21 Feb 76. Alt. 10 m.

5510. Grabowskia boerhaviifolia (L.f.)
Schlecht. det. ~~Spencer~~ G. Vilcapoma
1976

(A) → K Shrub 1.5 m. tall in open
barren sandy hillside. Fls. ~~orange~~
white.

5511. Proboscidia althaeifolia (Benth.) Dec.

(3)

Herb in low, mud area behind
beach. Stems fleshy, pale reddish.
Lvs. dark green above, pale green
beneath. Calyx light yellowish
green. Corolla tube dark red
without cream within with
dark red spots. Corolla lobes
dark red abaxially with deep
yellow spots; adaxially deep
yellow with dark orange spots.
Fragrant.

GH
USM
MO
F
K

USM
GH

(A) → K.

PERU: Dept. Lambayeque.
Prov. Lambayeque. Road from
Olmos to Abra Porculla.
Alt. 1180 m. 22 Feb 1976.

5512.

SOL.

GH (2) Scandent herb 1 m. tall along
USM ✓ Quebrada in open. Fls. white.

5513-

GH (2) Herb 7 m. tall along
USM ✓ Quebrada on roadside. Fls.
white. Frs. green.

5514. Solanum

(2)

USM ✓
GH

Sprawling herb 1 m. tall
on wet roadbank. Lvs. purplish.
Fls. yellow.

~~5514~~. Alt. 1500 m.

reticulata L.

5515. Annona ~~reticulata~~

(3)

USM ✓
GH
U

Tree 5 m. along roadsides.
Spontaneous. FR. green.

5516.

Arnoldoa macbrideana Ferreyra

(2)

~~GH~~
USM J
USShrub 3 m. tall on steep
open hillside. Involucres
silvery grey. Fls. rose-pink.5517. ArniotusGH (3)
USM J
FShrub 3-4 m. tall on
steep open hillside. Fls.
pale yellow.Peru: Dept. Cajamarca. Prov.
Jaen. Between Pucará and
Rio Chunchuca. Alt 670 m.
22 Feb 76. Dry forest along Rio ChunchucaGH 5518. Ruellia tuberosa L. CILIATIFLOEA Hook.
USM J (3)
US foto
FHerb in ^{open} wet place along road.
Fls. pale blue-violet.

det. D. Wasshausen 1976.

DET. N. HENSOLD 2000

A-7K

5519.

Malpighia

(3)

Cornell-Seed
USM J
BH
GHLow shrub 1 m. tall in open
roadside along ditch - FRs.
bright red.

Peru: Dept. Cajamarca. Prov.
Jaén. Between Río Chunchuca
and Chemaya, near
Zananga ^{along} Alt. 550 m. Río Chemaya
23 Feb 86. Dry tropical forest
at base of mountain near river.

5520. Erythroxylum cf. pacificum D. Simpson
(12) E. sp. aff. E. impressum D. E. Schulz 1981.

F-12

USMV

GH

US

ECOH

K

NCU

HUT

MO

G

Small tree 5 m. tall in dry
open forest of small trees, shrubs
and cacti. Heavily grazed by
goats. Trunk 5 cm. at base.

Bark smooth, grey. Lvs. dull,
^{branching} flat. Median dark green above, with
paler green costa and lateral
nerves; paler green beneath,
costa yellowish. No areolae or
lines apparent.

Pediceal light yellowish green.
Young fruits pale green,
drying brown. No mature
fruits seen.

VOUCHER
SPECIMEN

5521. Erythroxylum cf. pacificum D. Simpson
(3) E. sp. aff. E. impressum O. E. Schulz.

USM ✓
GH
AS

Shrub 2.5 m. tall in
dry ~~open~~ forest- scrub.
Lvs. dark dull green above,
very pale green beneath,
costa yellowish. Twigs pale
green. Pedicel + young fruits
pale green.

5522. Erythroxylum cf. pacificum D. Simpson
(8) E. sp. aff. E. impressum O. E. Schulz

GH
USM ✓
US
F-2
NCU
HUT
NY

Small tree 4 m. tall in
~~dry~~ dry forest. Lvs. medium
dark green above, pale green
beneath. Pedicel + young
fruits pale green.

5523.
(2)

GH ✓
USM ✓

Shrub to treelet 4 m. tall
Very frequent in ^{dry} secondary
woods. Fruits translucent
white. Seed black.

5524. Caesalpinia cassioides Willd. Leguminosae
(2) det. T. Plowman 1978 ~~Legum.~~

USM ✓

GH barren road bank. Shrub 1 m. tall on dry open
Calyx light green
basally, lobes red. Petals
red.

Peru: Dept. Amazonas.
Prov. Bagua. Between Río
Marañón and Río Utcubamba,
6 km. east of Río Marañón
(Puente 24 de Julio). Alt. 450 m.
23 Feb 76. Thoru forest, very dry.

5525. Solanum

(1)

Nearly leafless shrub 1.5 m.
tall. Fls. appearing with leaves,
~~purple~~ violet.

5526. Bumelia?

(2)

USM ✓

GH

Spiny shrub 5 m. tall.
Fls. green with milky latex.

5527. Jacquinia

(2)

GH seed
USMJ

Tree 5 m. tall. Lvs. light yellow green above, paler green beneath. Fks. orange at maturity.

5528. Capparis angulata R. & P.

(2) n.v. Zapote det. Emma Cerrate 1976

USMJ

Tree 6 m. tall with trunk

GH

15 cm. DBH. Lvs. coriaceous.

Petals, Calyx + pedicel dark brown
Filaments cream.

5529. Croton thurifer Kunth

(3)

det. G. L. Webster 1976

GH
USMJ

Shrub 1.5 m. tall in dry thickets. Lvs. pale green.
Fls. cream.

DAVIS

Peru: Dept. Amazonas.

Prov. Bagua. Rio Utcubamba
8 km. above Bagua Grande.

Alt. 580 m. 23 Feb 76.

5530. Steriphoma peruviana Spruce ^{Capparaceae} ~~Legum.~~

(4) det. T. Plowman

Spindly shrub 3 m. tall
in dry hillside forest. Stem
& petioles dark rusty brown.
Pedicel & calyx brilliant red-
orange. Petals pale orange.

Filaments & style pale yellow.
Stigma brown. Fls. dimorphic.

(A) → K

5531. Jatropha
(1)

Euphorb.

Succulent herb 1.5 m tall
in dry hillside forest. Latex
whitish. Stem & peduncle
pale green. Lvs. dark green
above, very pale whitish green
beneath. Rachis & pedicels
pale pink. Petiole red.
Fls. very pale green.

GH
USM 5532- Peperomia Piperace.

F (3)

Wainia-seed

Succulent herb growing on steep roadbank at edge of dry forest. Petiole + peduncle pale red. Lvs. thick fleshy, med. yellow-green above, very pale yellow-green beneath. Spike cream. Seeds black.

Plan: Dept. Amazonas. Prov. Bagua.

Road from Bagua grande to Pedro Ruiz Gallo (Pte. Ingenio), between Puente ~~Pte.~~ Quebrado Onda and Rio Magunchal, ~~at~~ along Rio Utcubamba. Alt. 695 m. 23 Feb 76.

5533. Erythroxylum shatona Macbr.

(15)

det. T. Plowman 1977.

GH

F-2

GB

US

USM

SP

HUT

MO

K

NCU

NY

G

RB

S

Tree 6 m. tall in moist forest on steep hillside along river. Trunk 8 cm DBH. Bark grey to light brown, much broken-corrugate.

WOOD:

Au
MADW
Uw
Kw

Branched grey, terete.
Twigs light green, flattened.
Lvs. lying in one plane,
dark shiny green above;
beneath light yellowish
green the nerves + midrib
prominent. Areolae barely
distinct either being slightly
paler green or bounded by
one or two sets of lines, very
faint. Stipules light green
turning brown soon. Fls.
appearing in axils either current
growth or old growth, 1-3 per
axil. Petiole + calyx light yellow
ish green. Buds ^{pale} yellow. Fls. cream.
Young fruits pale green.

^{understorey}
Frequent tree at this locality.

5534. Erythroxylum shatona Macbr.

det. T. Plowman 1977.

GH (13)

P

USM

MO

US

K

S

NX

G

INPA

U

P
MA

Treelet 4 m. tall in under-
story of cut-over forest on
steep hillside. Bark grey to
light brown, corrugate. Lvs.
shiny dark green above;
light yellowish-green beneath,
areolar distinct lighter
green. Buds yellowish.
Frs. pale green.

5535. Erythroxylum shatona Macbr.

det. T. Plowman 1977.

GH (3)

USM

F

Treelet 4 m. tall in under-
story of forest on steep hillside.
Lvs. shiny dark green above;
beneath lighter yellowish
green with distinct paler
slightly concave areolar region.
Buds yellowish. young fruits
pale ~~pink~~ green.

5536. Zamia pumila L.
lindenbergii :

(2)

USM ✓
GHT

Cycad 1-1.5 m. tall, caulescent.
Sterile.

5537.
(2)

Apocynaceae

USM ✓

Woody vine 3-4 m. tall in
understory of forest on steep
hillside. Latex white. Fls. cream.

Bongará

PERU: Dept Amazonas. Prov. ~~Bojalia~~^{Bongará}
Road from Pedro Ruiz Gallo
(Pte. Ingenio) to Pomacocha.
24 Feb 76.

1330 m. alt.

5538. Dalechampia aristolochiifolia Kunth
det. G. L. Webster 1976

F ✓
USM ✓ (5)
GH
DAVIS -

Vine in open roadside thickets.
Small bracts pale green. Large
bracts bright magenta purple.
Glands reddish. Cyathes magenta.
Fls. yellowish green.
① > 14

5539. Jacquemontia

(3)
USM ✓

Vine in open roadside thickets.
Fls. deep blue.

Alt. 1500 m.

5540. Chamadaorea: Morenia cf. linearis
(12) "Chontilla" (R. + P.) Burret

seed
PS
USM ✓
BH
GH
7

* Palm 5 m. tall in cut-over
woods. Petiole 55 cm, Blade 1.55 m.
♂ infl: rachis white, fls. yellow.

♀ infl: rachis green, frs. green
turning red.

4715

Alt. 2000 m.

5541. Calceolaria

(2)

USM
GIT

Woolly herb 2 m. tall on moist
roadbank in thicket. Lvs. yellow-
green above, whitish pubescent
beneath. Calyx yellow-green.
Corolla light yellow.

5542. Solanum saponaceum Dun.

(4)

F
USM
GIT

det. G. Vilcapoma 1976.
Shrub 2.5 m. tall on open
roadside. Corolla deep violet.
~~lvs.~~ Stems + underside of
leaves dark purple. Frs.
green.

USM 5543. Sarcocha

F
Spreading herb. 5 m. tall on open
roadside. Fls. pale lavender, deep
purple inside tube. Frs. orange.

Alt. 2250 m.

5544. Salvia

USM ↓ (2)

Herb 1 m. tall along quebrada beside road. Racemes + calyx deep magenta. Corolla lighter magenta pink.

Alt. 2150 m.

5545. Desmodium

USM ↓ (2)

Erect herb in open roadsides. Fls. pale pink.

~~Peru: Dept. Amazonas. Prov. Bongará.~~

Road from Pomacocha to Yamborasimba.

Alt. 2070 m. 24 Feb 1976.

GH 5546. Renalepis wurdackii Mass?

USM ↓ (3)

4 Live - Panza.

Herb 2 m. tall on steep shady hillside along quebrada. Dense forest. Sterile, not common.

USM ↓ 5547. Bomarea

(2)

Vine on roadside. Fls. deep red.

Peru: Dept. Amazonas. Prov. ~~Chachapoyas~~ ^{North} Bongará. Road from
Pte. Ingenio to Chachapoyas.
Rio Utcabamba. 25 Feb '76.

Alt. 1420 m.

GH 5548. Brugmannia aurea Lagerheim
F ✓ (3)
USM ✓ 5 labels Shrub 3 m. tall on riverbank
K in open roadbank. Fls. white.

5549. Tecoma rosifolia H.B.K. Bignon.
(2) det. A. Gentry 1976. ^{open}
USM ✓ Scandent vine in thicket
MO on roadbank. Corolla tube
red dorsally, yellow ventrally.
Lobes red.

5550. Jaquemontia blanchetii Moricand
det. K.R. Robertson 1976
USM ✓ Vine in open roadside thicket.
GH Fls. light blue.

5551.

per

GH (1)

Herb on steep dry roadbank
in crevices. White beneath.

5552. Peperomia weberbaueri C. DC.

P
USM
GH

(3)

det. R. Callejas 1986.

Succulent herb on dry open
cliff along road. Lvs. dark
green above, very pale green
beneath. Peduncle reddish.
Spikes green.

5553. Salvia

(2)

GH
USM

Photo:

Herb 1 m. tall in roadside
thicket. Rachis + calyx light
green. Fls. deep blue.

5554. Salvia?

(1)

GH

Herb 1 m. tall in roadside
thicket. Fls. light blue-violet.

→ *P. megalophyllum* Schott det Crost 1985.
→ *Philodendron* cf. *deflexum* Poepp. det Crost 1982.

5555. *Philodendron megalophyllum* Schott
det. D. Watschusen 1976

USM ↓
GTT
US ↓
Terrest. Climbing herb on steep
rocky cliffs, Spathes peduncle
green. Spadix ~~green~~ ^{white}, ♀ cream.

5556 *Justicia hookeriana* (Nees) Acautha

Lindau det. D. Watschusen 76.
Herb .5 m tall on open road-
banks. Calyx pale green. Corolla
scarlet.

Alt. 1500 m.

5557. *Evolvulus* *villosus*

(F) ↓
(3)
USM ↓
GTT

Herb .4 m. tall on dry open
roadbank. Foliage silvery. Corolla
light blue.

5558. *Banisteriopsis leiocarpa* Malpigh.
det. B. Gates + W. R. Anderson 1976

GTT
USM ↓
MICH (A)

Vine in ^{open} thicket along road.
Petals bright yellow.

5559. Amphilophium paniculatum Bignoniaceae
(L.) HBK. var. molle

(4)

F
USM
MO
GH

Vine 5-6 m. tall in open thickets along road. Calyx green. Fl. Buds yellow, turning purple, then fading cream after opening, sticky.

ATK

det A. Gentry 1976.

5560. Xylosma benthamii (Tulasne) Flacourtia
Triana + Planchon

(2)

GH
USM

Tree 6 m. tall along river bank in 2' gallery forest. Fls. cream. FRs. red. det. Sleumer 1980.

Alt. 150 m.

= H. intermedius Hutchison sp. nov. ined.

5561. Hylocereus cf. venezuelensis
det. J. Solomon 1980.

(3)

Live
Chuck
Wainman
USM
GH
F

Banta
M. Flores
U Chi.
El Al
NYC
F.W.
C. Schow
Honolulu
Bot Gard
PTBG
Lyon
TEX
MO

Climbing spiny cactus 6 m. high growing in tree. Tepals or ovary green, red tipped with red spines. Tepals or hypanthium dull greenish brown, tipped dark red, fleshy. Outer tepals or limb deep pink at base, deep yellow apically. Inner tepals creamy yellow. Filaments,

SEL
San Antonio

anthers, style + stigma light
yellow.

5362. Paronia riedelii Gürke Malva.

(3)

det. Magda Chanco, May 1976.

Herb 1 m. tall on open
roadbank. Corolla deep
yellow, dark red at center.
Filaments dark red. Styles
green.

PAVONIA HIERONYMI GÜRKE

DET. P. FRYXELL 1991

FJ
USM
Glt

PERU: Dept. Amazonas. Prov. Chachapoyas.
Road south from Pte. Ingenio
toward Chachapoyas. Along
Rio Utcabamba. Km. 6 from
(Alt. 1600 m.) La Caclid. →
25 Feb 1966.

5563. Erythroxylum novogranatense
(5) var. truxillense (Rusby) Plowma

USM
ECON
F
NY
US

Cult. Shrubs 2 m. tall in open
irrigated field. Trunks several
to 4 cm diameter at base.
Branches slender, straggly
drooping over. Lvs. dark green
above to med. yellow-green,
pale yellow-green to
~~yellow~~ very pale green be-
neath, linear faint, areolae
faint, slightly paler.
Recept. & calyx light green.
Petals cream.

5564. Erythroxylum novogranatense
(5) var. truxillense (Rusby) Plowman

USM
ECON
F
K

Cult. shrub 1.3 m. tall growing in shade of Juca in irrigated cultivated plantation. Lvs. deep yellow-green above, dull; pale green beneath with distinct raised, linear, areolae distinct, somewhat thicker, yellowish cast. Lateral nerves & veins dark outside areolae, obscure within.

5565. Erythroxylum novogranatense var.
(6) truxillense (Rusby) Plowman

USM
ECON
F
RB
NCH
US

Cult. shrub 2 m. in irrigated field in full sun. Bark greyish brown on branches. Twigs reddish brown. Lvs. medium to light yellowish green above, costa yellow. Lvs. beneath pale yellowish green to very pale green, lines faint, indented or slightly raised. Areolae ~~pale~~ paler or concolorous,

vein less distinct in areolae.
Fls. solitary in axils. Pedicel
pale green. Calyx ~~pink~~^{pale} yellowish
green. Petals ~~of~~ cream.
FR. yellowish-orange.

Small plantation ca. 300 plants,
most infected with lichens,
including younger branches,
Planted about 1 m. apart but
open places indicate some plants
removed.

Interplanted with yuca,
furmieri, platanos, + coffee.
Other crops around field +
in adjacent fields:

achiote, cherimoya silvestre,
guava, Iyca, mango, lemon,
orange, sugar cane, coffee,
Crescentia, Maize, Ricinus,
papaya, avocado, Opuntia
(tuna) + Furcraea.

5366.

Capsicum rhomboideum (Dunal) Kuntze ^{Solan.}
DET. M. NEE 1990GH
USM ✓ (3)

MO

Shrub 2.5 m. tall in road-
side thicket. Corolla yellow.
Fls. white at maturity.

Alt. 1650 m.

5367.

Coreopsis microlepis Coupos.

Blake + Sherff

USM ✓
GH (2)Herb .8 m tall on dry open
hillsides. Rays yellow-orange.
det. E.H. Gardini 1977

5368.

Peperomia sp. nov.

det. R. Callejas 1982

(3)

GH
USM ✓Fleshy herb on dry
open hillsides. Rachis pale
yellow. Spikes yellowish.

5369.

Cantua quercifolia Polakow.GH
USM ✓
FSubshrub .8 m. tall on
dry open roadside. Calyx light
green. Corolla tube creamy yellow.
Limb pure white. Anthers yellow-
orange.

A → K

Peru: Dept. Amazonas. Prov.
Chachapoyas. Road from Leyme-
bamba to ~~Hornopampa~~ Abra
27 Feb 1976. Barro Negro.
Alt. 3000 m. - Cloud forest.
3200 m.

5570. Brachyotum multinervium Wurdack

(3) det. J.J. Wurdack 1976

USM

GH

Shrub 1.5 m. tall in
roadside thicket. Calyx +
~~lobes~~ ovary bright red. Petals
black.

5571. Brachyotum weberbaueri Cogn.

(3) det. J.J. Wurdack 1976

GH

US

USM

Shrub 2 m. tall in road-
side thickets. Ovary + Calyx
pale yellow-green, flushed with
red to nearly red. Petals pale
yellowish green, tipped with
violet.

Oreopanax

5572. Eubothrium

Proteace.

(2)

USM

GH

GH

Shrub 2 m. tall in open
roadside thicket. Bark pale
green. Petiole pink. Receptacle +
stems ~~pinkish~~ cream. Pistal cream, ovary pink.

5573. Boachyotum radula Triana

(1) det. J. J. Wurdock 1976.

Shrub 1 m. tall on open rock-
bank. Ovary + Calyx yellow-orange
tinged copper orange. Petals
black. Style deep magenta.

5574. Symbolanthus calygonus (R. + P.) Griseb. Gent.

det. P. J. M. Maas 1985.

Slender shrub 2 m. tall, in hillside
thicket. Calyx yellowish green.

Corolla tube carmine red, lobes
rose pink.

5575. Siphocampylus jelskii Zehlbr. Lobeliae.

(5) det. B. A. Stein 1985.

Unbranched herb 2 m tall
on open slopes. Lvs. dark green

above, shiny. Pedicel ovoid &
calyx lobes dark ^{red-}purple.

Corolla tube cream at base, dark ^{red}purple
when exposed; cream within.

Stamen tube ^{pale}yellow-green, apically
with violet hairs.

US
~~USA~~

GH
USM
F

F
USM
GH
K
US
U

⊕ → K

5576. Calceolaria moyobambae Kränzlin Scroph.

det. U. Molau 1982.

GH
USM

2

(A) → GB

Shrub 1.5 m. tall in thickets
on open slopes. Calyx & corolla
bright yellow.

5577. Calceolaria

Scroph.

GH

(1)

Subshrub 0.7 m tall on
open roadside. Calyx pale
greenish-white. Corolla bright
yellow.

= C. extensa Benth. det. Molau
1982. Scroph.

5578. Calceolaria flacca Molau sp. nov.

(2)

PARATYPE

GH
USM

(A)

(A) → GB

Subshrub 1.0 m. tall in
ravine along waterfall.
Twigs, petiole + major nerves
dark purple. Calyx dark
brownish-green. Corolla bright
yellow.

5579. Calceolaria

Scroph.

GH (2)
USM ✓

Subshrub 1 m. tall in
ravine along waterfall. Calyx
light green. Corolla bright yellow.

Peru: Dept. Amazonas. Prov. Chachapoyas.

Between Abra Chunchillo and
Hornopampa. Alt. 2180 m.
27 Feb 76.

5580. Delostoma lobbii Seem. ~~Malvaceae~~ ^{Acauth}

(2)

USM ✓
US

det. D. Wasshausen 1976

Shrub 2.5 m. tall on open
hillsides. Calyx + ovary light
green. Corolla tube + lobes deep
darmine red, lobes streaked red +
white adaxially. Tube white
with fine red stripes.

GH
USM ✓ (2)

5581. Desmodium molliculum (HBK.) DC.

Prostrate herb on gravel road-
side. Fls. magenta pink.
det B.G. Schubert 1977.

5582 Monnina

(1)

USM ✓

Herb on gravelly roadside. Fls.
dark blue, keel yellow.

Peru: Dept. Amaymas, Prov.
Chachapoyas. Between Balsas
Yumbay and Hornopampa. Alt. 1100 m.
Dry thorn scrub area.
27 Feb 76.

5583. Erythroxylum novigravataense
var. truxillense (Rusby) Plowman

USM ✓
ECON
F
US
K
NCU
NY
HUT
U

Cultivated shrub in small
irrigated coca plantation.
~~Shrub~~ Shrub 2 m. tall with
spreading branches. ~~Spreading~~
leaves dark to light yellow-
green above, the veins more or
less distinct, lighter yellowish;
beneath leaves yellow pale
green to yellowish, lines more
or less distinct, areolae some-
what lighter. Fruits few,
pedicel pale green, fruits
orange turning bright
red at maturity.

Small plantation above river.
Other plots down in flood plain
in new prepared fields.

Fields weeded, plants \pm old,
much branched, spaced
at least 2 m. apart.

Picked by holding entire
branch and at once ripping
off almost all the leaves.
Harvest every 3 months.

Peru: Dept. Amazonas. Prov. Chachapoyas. Road from Balsas to Huanabamba.
Alt. 880m. Shores of Rio Metanón.
28 Feb 76.

5584. ~~Mimosa~~ Cienfuegosia stripartita (HBK.) Gürke

GH (2)
USM

det. Magda Chanco, May 1976.

Herb .6 m. tall in sandy
open place. Fls. pale yellow with
dark red spiral centers. Stamens red-
orange.

5585. Acacia moniliformis Griseb. Legum.

GH (2)
USM

Armed ~~type~~ spreading shrub 3-m.

Jan. Fls. deep yellow. Frs. green.

det. V. Rudd 1977

Peru: Dept Amazonas. Prov.
Chachapoyas. Between Balsas
and Hornopampa. Alt 1100 m.
27 Feb Feb. Yumbay.

5586. Matisia cordata Humb. & Bonpl.

ECON (1)

"sapote."
Cult. tree 6 m. tall in
irrigated ~~field~~ farm. Fls. brown, orange
fleshy.

5587. Erythroxylum novogranatense var.

(3) n.v. Coca truxillense (Risby) Plowman

(2)
foto
USM ✓
ECON
F

Single Cult. shrub 2 m. tall in
shade of avocado plantation.
Young plant. Bark light red-
dish brown. Lvs. dark green
with light yellow-green midrib
above; beneath pale glaucous
green, midrib yellow-green,
veins present, darker green
areolae concolorous. Bud
yellow green. Pedicel pale
glaucous green. FRuits
bright orange

(A) 71K

8 yr. old plants b

5588. Erythroxylum novogranatense var. truxillense
(4) n.v. coca (Rusby) Plowman

USM
ECON
F
twigs reddish
brown
NCU

Cult. shrub 6.5 m. tall in irrigated field in full sun. Bark grey-brown. Lvs. medium yellow-green above, midrib light yellow-green, veins slightly raised, light beneath very pale ^{glaucous} green, lina and areolae light, more yellowish. Pedicel pale glaucous green. Fruits light yellow.

5589. Erythroxylum novogranatense var. truxillense
(3) n.v. "coca" (Rusby) Plowman

F
USM
ECON

~~#~~ Much branched cultivated shrub in open irrigated field. 2 m. tall. Bark light grey-brown. Twigs reddish brown. Lvs. med. yellowish green above, midrib bright yellow, veins prominent; lvs. beneath pale green, midrib dull yellow, veinlets dark outside areolae, obscure within. Lina & areolae concolor. Pedicel pale green. Fks. light green to yellowish.

5590. Erythroxylum novogranatense var.
(3) n.v. "Coca" truxillense (Rusby) Plowman

seed
USG ✓
ECON
F
K

Cult. Shrub 2.0 m. tall in
open irrigated field. Bark dark
greyish brown. Twigs lighter, red-
dish brown. Lvs. medium to light
yellowish green above, midrib
yellowish; beneath pale glau-
cous green, lina lighter, areo-
lae concentric, venislets
obscure in areolae. Fls. bright
yellowish green to yellow.

5590A. Erythroxylum novogranatense

seed
only

Fairly fresh seed picked up
from coca drying floor.

5590B. Erythroxylum novogranatense

seed
only

Seed said to be 1 month old
picked up in discard pile.

3 crops/yr. Plants 8 yrs. old. Not inter-
planted but many other crops in adjacent fields.
Clean field, no weeds. Irrigated 2/week.

PERU: Dept. Cajamarca. Prov.
Celendin. Between Balsas and
Abra Gulig. Alt. 3000 m. 27 Feb 76.

5591. Calceolaria

(2)

GH
USM ✓ Herb .5 m. on dry rocky
hillside. Foliage silvery. Corolla
bright cadmium yellow.

PERU: Dept. Cajamarca. Prov. Celendin.
~~PERU: Dept. Cajamarca:~~
Between Celendin and Aguas
Coloradas below Challuayacu.
Alt. 3300 m.

5592. Monnina

(2)

GH
USM ✓ ✓ Shrub 1.5 m. tall. Corolla
dark blue-purple, keel deep
yellow.

5593. Lupinus

GH
USM ✓ ✓ Shrub 2 m. tall. Banner
laterally blue-violet, white at
center. Wings deep blue-violet.
~~Keel~~ Keel pale violet.

Loasa magnifica Urb. + Gilg
5394. ~~Cajaluma~~ det. T. Plowman 1983.

G# - Tall herb 1 m. with stinging
F - hairs. Calyx yellowish green.
Corolla light orange
57K

Peru: Dept. La Libertad.
Trujillo. 1 MAR 76.

5595. Peperomia

(1) n.v. gongonai

- Waimea

Elop

Medicinal herb bought
in market.

Use: tea made from stems + leaves. Taken
for heart problems, murrum etc.

Peru: Dept. Cajamarca. Cajamarca. 1 MAR 76.

5596. Lagenaria

seeds
gourds
only

"Calabacito"
Bottle gourds purchased
in Cajamarca market.
Used for holding lines
used in coca chewing.
Brought from the coast.

Peru: Dept Amazonas, Prov. Cha-
Chapoyas. Above Hornopampa. 2180 m.

5597. Dodonaea viscosa

27 Feb 76

seed
only
→ see.

Shrub 1 m. tall on dry open
roadside. FRs. ~~fr~~ light brown.



