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 *pilosae*
Fedtsk.

F Cult. herb grown from rhi-
US zones sent from Kew.

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

5221. Marantzchloa

F Cult. herb sent from Kew.

Herb 1 m grown in pots.

29 July 1975.

5222. Brunfelsia plicata Urb.

U F

G HBG

Shrub 2 m tall cultivated
in permanent planting.

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

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

5223. Brumfelia australis Benth

Cult. shrub 0.5 m.
Fls. violet fading white.
Coll. at Popayan, Colombia (P 1937).


5229. **Aralia hispida** Vent.
   Sandy roadside, Fls. yellowish-green.

5230. **Scutellaria epilobii foliis** A. Hamilton
   Common Skullcap
   Wet roadside ditch. Herb 1 m, Fls. lavender-blue.

Harrisburg, Pa. 23 Sept 1975

5231. **Cotoneaster**
   Shrub 1.5 m. Fls. Cream
   Cult. from seed from
   Angry Beaver Creek, Lower Paxton Twp.

5232. **Bidens**

5233. **Sneezeweed**

5234. **Penthorum**
COLOMBIA: Dept. Cundinamarca.  
21 JAN 1976 

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

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

5235.  
(Myriica pubescens)  
small tree 3 m. on open steep 
roadside in thicket. Lvs. Shiny 
dark green above, yellowish 
green beneath. Young fvs. green. 

Ageratina gracilis (HBK.) K. & R. 

5236. (2) 
(Eupatorium) det Robinson 1976 

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

Camendishia cordifolia  

5237. (3)  
(Camendishia cordifolia) Erica 

(Camendishia cordifolia) Erica 

Camendishia cordifolia 

Shrub 1 m. on open, steep 
roadbank. Buds 3 pink. Calyx 
yellow green. Corolla tube sub-
fleshy. Flower 1/3 deep pink, upper 3 lobes 
Fvs. green.
Col: Cundinamarca
Between Chuscal and La Vega, 2200 m. alt.
21 Jan 1976.

5238. Peperomia vulgaricola C. DC.
(2) Succulent creeping herb on open roadbank.
Stem pink. Lvs. yellow green above, pale yellow green beneath, sometimes with red stripes. Spike pale yellow. det. R. Callejas 1982

5239. Kohleria
(2) Herb to 7 m. tall on steep roadbank. Lvs. dark green above with red margins. Pale green beneath with red hairs on nerves. Pedicels with red hairs. Calyx yellow green with red hairs at base. Corolla red-orange with red-orange hairs.

Branchlet terrestrial or mont in steep hillside in partial shade among Pitcairnea sp. Infl. 2-3m. long, branched. Sepals copper brown. Petals red-violet above, copper brown beneath. Column brownish green.

det. L. y. Th. Chotr 1976

5241. Micromor floribundum (Bonpl.) DC.

Tree 8 m. tall in 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.

Ames
5242. Peplis flava c. aurentiaca

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 5 series. Outer series pale yellow with brown mark in center.
Androgynophore basally purple, green above. Filaments green.
Ovary & styles dark brown. Stigma yellow. Fr. dark brown with white hairs.

Alt. 2050 m.

5243. Peperomia enantostachya C. DC.

Epiphyte on tree in open pasture. Fleshy herbaceous.
Spike pale, yellowish green.
Colombia: Cundinamarca, Between La Vega and Cascajal. Alt. 1500 m. 21 Jan 1976.

5244. Plicourea?

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

5245. Pitcairnia maidifolia

(c. morr.) Dene. Terrestrial bromeliad 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 greenish toward base, apically white. Only one seen.

det L. B. Smith 1976.
Depto.
Columbia: Cundinamarca.
Between Cascajal & Tabla Grande, Alt. 1000 m. Xocaima Region

5246. Anthurium
(1) Arecolaceous
Terrestrial herb. Lvs. shining on both sides, dark green above, pale green beneath. Spathe brownish (part), Spadix brown. Frequent.

5247. Anthurium
(2) (3 labels) Terrestrial herb with stem to 1 m. Spathe white with pink blush, turning green. Spadix light brown. Frequent.

5248. Mucuna q. mutisiana?
(5) Extensive vine in hillside thicket along road. Inf. 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 excrescences with orange to creamy white stinging hairs.

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

JARDÍN BOTANICO "JUAN MARÍA CESPEDES".

- Alt. 1100 m.
- 5250. Erythroxylum baughtii Geiñner (3) "l.e. "coca negra"

Small tree 6 m. tall 8-15 cm. growing in flood plain of Río Tulúa. Lvs. subcoriaceous dull, dark green above, pale green beneath, areolate obscure, sterile.

5251. Eugenia monticola (Sw.)DC. det R. McVeugh 1976

Small tree 1.5 m. in open pasture. Fts. cream, Fts. red.
Alt. 1160 m.

**Erythroxylum hondense** HBK.

**N. v. "coca blanca" silvertre**

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

Alt. 1210 m.

**Erythroxylum haughtii** Gentner

**N. v. "coca negra"**

Shrub 1.5 m. tall in thicket on open hillside. Fls. appearing with new foliage. Lvs. bright yellow-green. Buds yellow-green. Young twigs pale green. Old lvs. dark green above, midrib pale green; pale green beneath. Pedicels yellowish green.
5254. Erythroxylum heuchtliri Gentner

(18)

(A) 

[Handwritten notes]

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

(4)

[Handwritten notes]
5256. *Eugenia biflora* (L.) DC. Myrtaceae

det R. McVaugh 1976

Shrub 2.5 m tall in dry hillside thicket. Fls. dark red.

5257. *Calcestrum* H.B.K. Compositae

Stragely shrub in open thicket. Fls. deep yellow.

5258. *Vernonia brasiliensis* (L.) Druce

Spindly subshrub 2.5 m tall in dry hillside thicket. Fls. white.

5259. *Citharexylum kunthianum* Moldenke

Spindly subshrub in hillside thicket. Fls. white.

5260. *Chromolaena scabra* (L.f.)Ket R. Composita

det H. Robinson

Spindly subshrub in hillside thicket. Fls. pale lavender.
3261. *Panicum*  
(3) Climbing herb; 2 m. tall in dry thicket, F.R.S. 6126.

(3) Treelet 4-5 m. tall in dry hillside thicket. Latex turning yellow orange on exposure. F.l.: 5 creamy yellow; F.fl. green.  

5263. Lichen  
(3) Lichen hanging from trees.

5264. *Erythroxylum* [smaughtii]  
(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.  
Hezile. Areoles region slightly.
Spr. Shrub 2 m. tall in open dry thicket. Fls. and fruits white.

5266. *Psychotria*
Shrub 2 m. in open thicket. Fls. cream.

Spiny Scandent Shrub in thicket. 3 m.
Fls. pale lavender. Frs. yellow orange.

5268. *Dracontium* (2) live-church
Herb 1 m. tall in secondary woods. Sterile. Petiole pale brown, mottled snake-like.

5268-A. *Spineless*?
Live only to drab. Herb on dry hillside
5269. Euphorbium homogeneum H.B.K.

**H. biermann-silvestri**

Shrub 1.5 m. tall in shade or secondary woods. Lvs. dark green 20mm; pale green beneath midrib dark brown. Fls. creamy white. Frs. dark green turning dark reddish.

5270. Euphorbium [haughtii Gentner]

**no. "coca negra"**

Shrub 1 m. tall in open hillside thicket. Lvs. light yellow-green 20mm; pale green beneath. Petals light yellow-green, corona creamy white.

5271. Euphorbium

Parasite on Euphorbium haughtii. Young fruit green
52 f. Erythroxylum novogranatense (Morris) Hiern

Cultivated Shrub 4 ft. tall
In Jardin Botanico "José María Cepeda"
Old lvs. deep yellowish green
Above, pale green beneath, carabolic
Region distinct, slightly pale green
Young lvs. bright yellow-green
Fruits green, turning yellow then red.

52 f.3. Orysteranthus alveolatus (H.B.K.) Kuijt
\( \text{(O. complexicaulis (H.B.K.) Eckl.)} \)

Branches on Erythroxylum
novogranatense. Stem & rhizis
light brown. Leaf Fls. & fruit Frs
green. det. C.W. Greene Fb.

52 f.4. Solanum pseudolulo Heiser

Spreading Spiny herb 2 m. tall
Growing along fence in garden. Not cultivated.
Lvs. dark green w/ purple hairs
on mid rib & major nerves above
pale green beneath. Calyx light


Along Río Tuluá at Inspección de Policía. Alt. 1200 m.

5275. Erythroxylum ullei O.E. Schulz

stoutly shrub 3 m tall. Leaves firmly membranaceous, dark green above, pale green beneath. Pedicel & calyx pale green.

Fruits dark green, atropurpureo-falcoid, turning black.

5279. Campanea
   (3) *Kohleria* digitiflora (Lindel. & André) Fritsch
   Spreading herb 2.5 m. along quebrada. Lvs. dark green above, with dark red hairs; pale green beneath with white hairs. Corolla tube deep purple; limb yellow green with dark brown spots. Det. H. Wiel L1981.

5279. *Ilex caliana* Cuatr.
   (4) Tree 6-7 m. Buds yellow. Det. W. Holm 1982

5279. *Anthurium*
   (3) Climbing epiphyte Spathe green. Spdix black.

5279. *Polypodium*
   (2) Epiphyte on tree trunk.
5280. Oncidium

Epip hybe on tree trunk. Fls. yellow with brown markings. Frequent.

5281.

Epip hybe. Fls. dull yellow column purple brown.

5282.


5283. Fern

Terrestrial fern on steep bank along stream in forest.

5284. Fern

Terrestrial fern in forest along stream.
5285 Justicia hirsutachya Leonard Trauthe.
   Herb 1 m. on steep bank in forest. Bracts light green. Fts.
   white.

5286 Besleria solanoides
   Genéria
   Herb 2 m. in thicket near stream. Calyx orange.

5287 Phytolaca
   (2)
   Herb 0.8 m. Stems red-purple.
   Fts. red-purple (magenta). In open thicket.

5288 Anthurium pallens Schott
   (4) det. D. Watschhausen 1976
   Live sely. Terrestrial herb 1.5 m. tall on steep bank in forest.
   Staths + peduncle yellowish green.
   Staths dark green.
5289. Borrarea

*Pop.* (3)
*Col.* (seed to 
*Gtt.* wainose

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

5290. *Pelicourea*

*Pop.* (3)
*Col.* (3)
*Gtt.* wainose

Shrub 25" in forest or steep hillsides. Radix: Deep magenta, Corolla violet.

5291. *Anthurium*

*Pop.* (3)
*Col.* (3) 
*Gtt.* (3) 76-4

Terrestrial herb on steep hillsides. Spathe dark purple. Spadix

5292. *Passiflora*

*Pop.* (3)
*Col.* (3)
*Gtt.* (3) along road. Sepals + petals
yellow green without white within. Corola dark green with yellow tip. Brs. dark blue-green.

Campinulaceae
Carpodendron

5293

2 m. on open hillside near stream. Frs. light green.

5294. Anthurium

Epiphyte on tree trunks. Spathe red. Spadix green.

5295. Pityrogramma

2 m. in forest along stream.

5296. Pityrogramma

Fern in open thicket along road.
5294. Bocconia

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

Heliconia burleana Abalos & Morales det. Anderson 1984

5298. Heliconia scarlatinia Abalos & Morales det. L. Anderson 1982


Petiole 1 m. long. Hf. blade 1.5 m. Costa red. Beneath.

5299. F

Terrestrial in forest along stream.

5300. Peperomia

Epiphytic succulent herb on tree trunks. Spike yellow green.
530DA. Monotropa uniflora L.

(1) Saprophytic herb in forest on steep slope. Stems & scales reddish.

530E. Desmodium campylocladus Hemsley det B.G. Schubert 1977

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

5301-A. Ranunculus occidentalis

(2) Herb to 2.5 m. tall on wet hillside.
Colombia: Dept. Cauca.
27 Jan 1976.

Road from Popayan to Tamebo. Km. 8, Villa Maria. 1700 m. Alt.


 det J.J. Wurdack 1976.
Shrub 2.5 m. in pasture.
Fls. magenta-purple.

5303. *Begonia fischeri* Schrank

 det L.P. Smith 1976.

5304. *Monnina*

Sweat shrub in thicket. Fls. blue, with yellow keel.

5305. *Monnina*

Shrub 3 m. in moist thicket. Fls. violet, keel yellow.
**Kohleria digitata flava** (Lindley & André) Fritsch

Leaves 0.5 m. in low thicket, coastal,
Corolla deep pink, lobes
and limb bright green
with dark brown spots.
Calyx & pedicel with red
hairs.

**Composit**

Shrub 3 m. tall in
pasture. Fls. creamy white.
Colombia: Dept. Caquetá. Road from El Tambo to 20 de Julio. Alt. 2100 m. ca. Km. 55 (Vertiente Oriental). 27 Jan 76

5308. Allomeletus ichthyoderma Hent. Gesneriaceae

Herb on hillside in forest along Quebrada Lus. dark green above, pale green or deep red beneath. Pedicel + calyx deep red. Corolla dorsiely deep yellow, ventrally deep red.
det. H. Wehlen 1981.

5309. (1)

Orchis - epiphyte on fallen log in forest along quebrada. Fls.: narrowly 2 sepals white, dotted dark red-brown, upper sepal yellowish striped dark red. Petals yellowish striped dark red.

5309A. (F)

Beetle
5310. *Renealmia ferruginea* Maas

(5)

10 labels

 Herb 4 in. tall growing along Quebrada at edge of forest. Bracts red turning brown.

 Calyx red. Corolla white.

 Frs. pale greenish brown, and white; seeds black.


5311. *Meriania nobilis*

(2)

 Tree 6 in. tall at edge of pasture along road. Frs. deep magenta. Frs. deep purple.


5312. *Morrinha*

(4)

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


5312A. *Solanum*

 Live Extensive vine; soft-woody, trailing in wet forest.
5313. Miconia hadrophylla Wurdack

Linked to: det J.J. Wurdack 1976.

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

Paratype

5314. (1)

Col. (A)

Terrestrial orchid on road bank. Fls. yellowish green.

5315. Fuchsia sylvatica Benth.

Linked to: det. B. Pickersgill 1976

Shrub 2 m. tall in moist roadside thicket. Hypanthia in pale pink. Calyx pale green. Petals red.

5316. Kohleria sp.

Linked to: det. H. Wiehler 1981.

Herb to 1 m. tall in forest or sheep slope. Corolla red.
5317. *Campanula affinis* Fritsch

Gesneriaceae

Climbing herb in cloud forest or on rock banks. Corolla deep pink with soft white hairs, white at apex. Lvs. dark green, supportive with whitish venation beneath.

5318. *Besleria* sp.

Gesneriaceae

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

5319. *Geasteranthus wendlandianus* (Hrnst.) Weihler

Gesneriaceae

Herb in wet forest or steep slopes. Calyx pale greenish-white. Corolla pale yellow, tube with dark brown spots adaxially.

5320. Dalbergia sp.

(4)

Erect herbs 1 m. tall in deep slope in wet forest. Lvs. dark green, tipped red. Bracts & calyx tubes pale yellow. Corolla pale yellow.

5321. Alloplectus kuscheri

(3)


5322. Burmeistera sp.

(3)

Herb to 2.5 m. tall in wet open thicket along road. Sepals and corolla deep red-purple. Calyx lobes green beneath, deep red-purple above. Ripe oblong pale pink.
5323. *Stenospermum angosturensis* Engler
(det. D. Wasteneys 1976)
Scandent herb hanging from steep road bank. Spathe creamy yellow. Spadix creamy white.

5324. *Calathea timothei* H. Kennedy sp. nov.

**TYPE**

Herb 1-3 m. tall growing on steep hillside, in wet forest and on road benches. Stem, petiole, & mid rib beneath dark red-purple. Lvs. dark green above, light green beneath, or reddish. Bract, bright red. Bracteoles cream, tipped reddish. Fls. deep yellow throughout.

St. angustifolium Hems. 1 Aug 1983.
Gesneriaceae

5325.

**Col:**

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

5326.

**Col:**

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

5327.

**Col:**

Seed to Selby

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

5328. *Campanula hanseni*ii Fritsch

**det. H. Wichtl 1981.**

Herb—growing on moist road banks. Lvs. dark green above with dark red hairs beneath. Dark red purple with whitish nerves.
Peduncle + calyx with dark red hairs. Corolla deep pink, white at construction + lobes. Lobes with dark purple spots adaxially.

5329. Bonarea

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

5330. Bonarea

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


Photos 5331. Bofaria glauca var. coarctata. Ericaceae

Pop. (4) shrub or treelet to 4 m. tall

Col. NY (4)

Corolla deep rose-pink. det. G. Luteijn
Road from El Tamarro to 20 de Julio. Alt. 2200 m.

5332. Restrepia

Epiphyte on tree trunk.

Ames Pericarp pale cream. Calyx 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. Caucá.
28 Jan 1976.
Coll. T. Plowman, D. Vaughan, H. Grenados.

Road from Puracé to la Plata, just above Puracé.
Alt. 2700 m.

5333. 

Tibouchina mollis (Bonn.) Cogn. Melast.

Shrubs to 4 m. tall in pastures & hedgerows. Fls. pale to deep magenta.

Págua Nacional de Puracé.
Alt. 3300 m. Road from Puracé to la Plata.

5334. 

Centropogon ferrugineus

Shrubs 1-2 m. tall in moist thickets. Calyx + stem lighter brown. Corolla red-orange.

5334A. 

Peperomia

Seed only. Epiphyte. Semi fleshy with to semi hard thick leaves & stems.
5335. Fuchsia corollata Benth.
   Spindly scendent shrub 1 m. on old stump. Fls. deep cerise red.

5336. Begonia urticae L.f.
   det. E. B. Smith 1976
   Erect herb in moist roadside thicket. Stems 1 ft. nerves reddish. Fls. deep rose pink.

5337. Elaphoglossum
   Erect herb to 2 m. tall in dense moist thickets.

5338. Desfontainea spinosa
   sp. nov. R. E. Schults.
   Scendent shrub in moist dense thickets. Corolla tube red, limbs pale yellow.
5339. Centropogon

Lokelian

Herbaceous, vase i dense moist thickets. Fls. carmine-pink.

= Gaecidendron lanceolatum (R & P) Bakhni


5340. Gaecidendron macranthus Killip


Tall shrub 3 m. tall in dense moist thickets. Fls. yellow-orange. Fr. orange.

5341. Sibthorpi a repens


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

5342. Borenea

Herb on road benches among mosses. Ovary pale blueish-green. Calyx outer tepals red. Inner tepals yellow.
Call: Timothy Plowman and Duncan Vaughan

Colombia: Dept. Cauca.
Road from Rosas to La Sierra. Alt. 1610 m.
29 Jan '66.

5343. Renealmia thyrsoides (C+P) K+3
(6)
12 labels  Herb 4 m. tall on steep bank along Quebrada.

5344. Peperomia macrotricha C. DC.
det. R. Callejas 1982
F  (2)
Fleshy herbs on wet rocks in forested Quebrada. Spikes creamy white.

5345. Solanum aff. caripense Dun.
det. D'Arcy 1988
F  (4)
Spawling herb in moist roadside. Fls. white.
5346. Desmodium aparines (Link) DC.
Tall scentent herb 2 m.
long in roadside thicket.
Fls. pink to pale blue violet.
Fr.s. green.

5347. Campanula
Herb 1 m. tall in Open
Road bank in thicket. Calyx
light green. Corolla deep rose
pink. Lobes light green with
dark brown spots.

5348. Piper cressinervium H.B.K.
Tree 10 m. tall along
Quebrada. Spike, Cream.

5349. Pereromia blanda (Jacq.) H.B.K.
det. R. Callejas 1982.
Fleshy herbs in forested
Quebrada. Stems reddish
below, green above. Spike green.
Colombia: Dept. Caucan. Road between Hesmita and Piedra Sentada, above Rio Hesmita. Alt. ca. 1100 m. 29 Jan. 76.

5350. Raucolea occidentalis (Sw.) Sweet var. occidentalis

det P. J. N. Maas 76


5351. Desmodium aparine (Link) DC.


Herb 1 m tall on open disturbed site along road. Fls. pink - violet. Fruit reddish.
COLOMBIA: Dept. Cauca. Road between El Bordo and Patia, along Rio Patia. Alt. 590 m. 30 Jan '65

5352. Casearia aculeata Jacquin. [family: Sapindaceae]
Scandent shrub to 3 m. tall, sometimes armed. Growing in 2nd gallery forest. F15s. Creamy white.

5353. Myrcia salicifolia (Rich.) DC. [family: Myrtaceae]
Small tree 5 m. In secondary riverine forest. Immature fruit pale green.

5354. Dalechampia canescens Kunth. [family: Euphorbiaceae]
Vine 4-5 m. tall at edge of thicket. Bracts white with green veins. F15s. green.

5352. Frithilia? Cupania sp. (2)

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

5357. Malpighia glabra (6)

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

5359. Stigmaphyllon echitoides  

Melphugiaae  

Vine in thicket along river.  
Fls. yellow. Frs. still green.  

Origin: H.B.K.  

5360. Euphrosyllum patiaceum (Schult.) Rowman  

n.v. "coco", "sacha coco macho"  

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 arachnai. Sterile. Rare (only 2 seen).  

5361. Jatropha gossypifolia L.  

Euphorbiaceae  

Glandular Shrub 1.5 m. tall. Perianth dark red. Frs. green.  

5362. Phoradendron  

Loranthaceae  

Parasite. Stem and lvs. dark green. Fruits orange.  

det. C. Greene
5363. Erythroxylum patiaceum (O. E. Schulz)

(B) Bloom

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

5364. Caesalpinia cassioides Willd. Caesalpinia

4 Bloom

Small tree to 4 m. with spreading branches. FIs. red. Frs. green

5365. Solanum pseudolulo Heiser


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

Alt. 800 m. Flood plain of Río Guachicó.

5366. *Capsicum annuum* var. *glabrissimum*
   (Dunlop) Heiser + Pickersgill
   Shrub in forest to 3 m. tall.
   Fls. color: yellow, anthers blue.
   Frs. green to orange.

5366A. *Trichilia* seeds.

536f. *Castrum*
   Scrambling shrub 2-3 m. tall in forest. Fls. dull yellow.
   Hills above river. Alt. 900 m.

5368. *Renauldia occidentalis* (sw.) *Sweet*
   var. *occidentalis*
   Herb 2.5 m. tall on open cut-over slope. Peduncles dark green.
   Radix red. Bracts brown. Pedicel green + calyx red.
(In Finca El Trigal)
Houseyard. Midway between
Rio Guachicino and Pan-
America Highway.
Alt. 960 m, 30 Jan 76

5369. Hibiscus
Malvaceae
Col. (2) n.v. "ambergris"
Ecd. Cult. herb, 3 m tall. FIs.
yellow, turning pink. Frs.
green, brown at maturity.

5370. Capsicum
Col. (2) "aji"
Ecd. Cultivated herb, 1 m.
tall. FIs. creamy white.
Frs. yellow.

5371. Astragalus
Col. (3) n.v. "mani"
Ecd. Cult. Herb. Geocarpic fruits
brown.
5372. *Gossypium*  
(2) *Cotton*  
Treelet 3 m. Fls. yellow.  
Capsules green.

5373. *Erythroxylum novo-granatum* (Morris)  
(3)  
*nv. coca*  
Spreading shrub 2.5 m. tall, 2 m. in diameter,  
rising from several trunks.  
Seid to be 5 yrs. old from seed.  
Leaves yellowish green above  
very pale green beneath with  
distinct areoles, biliniate.  
Fls. creamy white,  
buds yellowish. Fruits green  
turning orange, then bright red.  
Cultivated in coca. One of  
few bushes not stripped of  
leaves. Fertilized with cow manure.
Erythroxylum novogranatense
(Morris) Hieron.

N. y. "Coca"

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

Erythroxylum novogranatense
(Morris) Hieron.

N. y. "Coca"

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

Cult. in coral. Distinct "variety" - same use.
5376. Bryophyllum

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

5377. Salvia

 h.v. "oleriana"
 Cult. herb. Lvs. dark green above, dark red purple beneath. Inflo. dark red purple.
 used for "los nervios de mujer."
COLOMBIA: Dept. Cauc. 
Pueblo Nacional de Puracé.  

ORCHIDS 

Humberto Granados 
No. 1. 

Epiphyte. Fls. sepals + petals dull 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. 


No. 5. 

Epiphyte. Sepals dull yellow. Lower petals dull yellow with dark red "veins" at base. Upper
petal dull pale yellow with paired
dark red lines (15 pairs).
Colombia: Dept. Caquetá. Panamerican Highway between Calibío and Piendamó. Alt. 1660 m. 31 Jan 1976

53 f.b. (2) "Epiphyte on mossy tree trunk. In forest along small river"

5378-A. Monotropa uniflora L.

53 f.b. (1) "Saprophyte in oak leaf humus in forest along small river. Stem, scale leaves and fls. pale red"

53 f.b. 9. Meriandia speciosa (Bonpl.) Naud. det. J.J. Wurdack 1976

53 f.b. (3) "Shrub 2 m. tall on open slope in thickets. Calyx light green. Petals bright magenta"
Colombia: Dept. Caquetá.
Pierdomón. Along Rio Pierdomón. Alt. 1500 m.
31 Jan 1976

5380. Erythroxylum novogranatense (Morris) Hieron.

(5)

N. v. coca.

Tall Shrub 4 m. tall. Leaves young, bright yellow green, borne, pale green beneath, bilobate. Buds pale yellow, recently picked.
Growing in coffee plantation on slope above river.

5381. Erythroxylum novogranatense (Morris) Hieron.

Col Shrub 1.5 m. tall, growing in coffee plantation above river. Heavily infested with lichen.
Short, erect branches. Lf. young, bright yellow green, borne, pale green beneath. Recently picked.
COLOMBIA: Dept. Cauca.
Santander de Quilichao.
Alt. 1070 m.
31 Jan 1976.
Garden of Nestor Uscategui.

5382. Erythroxylum novogranatense

n.n. "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, bilinicate.
Sterile.

5383. Erythroxylum novogranatense (Morris)
Hieron.
Tree 5 m. tall cultivated
in garden. Trunk 10-15
cm DBH. Lvs. medium dark
green, dull above; pale
green beneath. Areolae
paler, yellowish green,
bilinicate. Sterile. Partial
shade.

(3)

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, bilinete. Aroelae somewhat paler. Fruit light red.

[Same info. as 5384] +

5384. Sucher Shoots from trunk of 5384.


(6) n.v. "cora"

Slender tree. 5 m. cultivated in full sun in garden. Trunk 5 cm. DBH. Lvs. yellowish green above, dull; very pale green beneath, bilinete. Aroelae sometimes lighter. Fruit bright red.
Colombia: Dept. El Valle. Road from Santander to Quilichao to Cali, km. 30 from Cali. Alt. 955 m. 31 Jan 76

5386. **Canna glauca L.**

(2) 4 labels Herb 2 m. tall growing in open marsh. Rachis end ovary pet light green. Calyx cream white. Corolla and staminodes pale yellow. Frs. light green, turning brown.

Peru: Lima. Mires Flores.

5388a. **Dichorisandra**

Cult. Herb 2.5 m. tall.
**COLL: Timothy Plowman**

**Unidad Nacional Agraria**

**Peru: Dept. Lima, de la Molina, Jardín Botánico. 6 Feb 76.**

5387. *Erythroxylen ullei* O. E. Schulz

- Straggly
- Cult. Shrub 2 m. tall.
- Straggly Lvs. dark green above, paler yellowish green beneath, thick.
- Buds yellow.

(Morris) Hieron.


Cult. Shrub 2 m. Fls. brown.

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**Peru: Dept. Ancash, Pov. Grandacl. Km. 249

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

US 5389. *Fusarium* gramineae.

- Herb forming thick mats in low sandy areas.

USM 5390. *Distichlis*

- Herb forming thick mats in low sandy areas.

GH 5390. *Distichlis* gramineae.

5391. Chenopod. Herb 1 m. tall in dry mud. Fst. Fls. dark greenish brown.

5392. Chenopod. Herb 1 m. tall in dry mud. Fst. Fls. pale green.


5395. *Cassalpevia* (2) Sprawling shrub or small tree to 4 m. tall. Fls. yellow, upper petals spotted red. Pods brrn.

5396. *Guettardia vallesioides glabra* (Gou) Link Acanthaceae (2) Shrub 1.5 m. tall on open roadside. Fls. translucent white. Lvs. rubber.

5398. C. columnan cactus 1 m. tall on dry hillside. Sterile.

5399. C. seed. Only. Small barrel cactus to 0.4 m. tall. Fleshy fruits bright magenta.


5400. Capparis ovalifolia

Shrub 2 m. tall, with spreading branches. Fruit orange.
Peru: Dept. Piura, El Alto
Prov. Talara, Cerro Blanco, Alt. 20 m.
11 Feb 66.

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

F (6) Armed shrub 1-2 m. tall. Lvs. bluish green. Fl. buds yellowish green.

Very dry gullies near beach.

Peru: Dept. Tumbes, Prov. Centralmirtante Villal Hacienda Chicama, Alt. 235 m.
11 Feb 66.

5402. *Coccoloba ruiziana* Lindau

F (3) "añalque"

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

5403. *Coccoloba ruiziana* Lindau

F (5) "añalque"

Psittacanthus obovatus Bentham ex Endl.

5404. Psittacanthus
(2)
usm
GH
Parasite on Croclobra
(5403).
Calyx green, Corolla, filament and pistil red.

11 Feb 1960

5405. Cordia lutea Lam.
(3) n.v. "overall"
det Emma Cerrato Fo.
Sprawling shrub
seed 3 m. tall. FIS. bright yellow. Fruit white, translucent.

(Van Heurck & Mull, Arg.) Bitter
5406. & Lychianthes Cyathocalyx
(4)
usm
GH
Nee 1990 (n. Hensold 1996)
Herb 2 m. in thickets. Corolla creamy white with orange center. Anthers deep orange.
5407. *Caesalpinia cocubosum*  
(3) n.v. Chorán.  
Tree 5 m. tall in 20 thickets.  
Fls yellow, bumpy with red dots.  
Frs. brownish green.  
*Randia aurantiaca* Standl. det. D. Simpson '76.

5408. *Randia Sphintanthus maculatus*  
Rubiaceae.  
"Planta de zarco"  
Climber. Celg x green.  
Corolla tube pale greenish yellow, limb bright orange.

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. *Hymenocardis guitoensis* Herbst  
(5) n.v. "anancay."  
Bulbiferous herb. Corolla tube pale green. Tepals white.  
Corolla white with 5 green lines surrounded by yellow.  
det Kew 1977.
**Eucrosia bicolor** ker. gaui.  


Seed (3)  "cebolla de campo"  


GTH USM  

12 Jan 76  Alt. 210 m.  

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5413. *Mirabilis*?  

GTH (12)  

USM  

Nd. Fls. deep magenta fading pale pink along Quebrada.  

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5414.  

GTH USM  

(2)  

Bombara.  

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

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5415. *Cordia polyantha* Benth.  

GTH USM (3)  

Det. P. S. Green (K) 1990  

Seed Watson 1981.  

Thickets. Corolla white. Ripe fruit red.  

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River bed. Alt. 140 m.

**5416. Oxalis Dombeya St. Hil. Flowers**
Semi-fleshy herb. Pale orange.

**5417. Salsola**
Tall aromatic herb in open meadow. Calyx dark purple-black. Corolla deep purple.

**5418. Salsola**
Herb. 5 m. tall in open meadow. Fls. pale blue with white nectar guides.

**5419. Arenaria**
Herb in stream bed. Fls. lobeite.
5420. Tribulus

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

Bacopa

5421. Scrophularia

Semi aquatic, fleshy herb.
Fls. pale violet-blue.
Peru: Dept. Tumbez. Prov. Contalmarca
Village between Casitas & Huásimo. 
Alt. 250 m. 12 Feb '76.

5422. Bauhinia aculeata L.

5423. Calandrinia

5424. Achatophyllum mollis H. Wett.

5425. Talinum triangulare (Jacq.) Willd. Portulacaceae
Subshrub 1 m. tall in open road bank. Fig. white.

Alt. 330 m.

5427. Convolvulus poriflora (A. DC.) Solms det TP 1983
5427a. Convolvulus poriflora (A. DC.) Solms det TP 1983

5427. Carissa microcarpa Jacq. ssp. heterophylla (Poeppl) Badillo
Thorn, unbranched, to 3 m. tall. Red unciales, magenta pink 8 to 8. Frs. green with white stripes, turning orange.

5427. Bougainvillea peruviana
Scandent shrub 3 m. on steep road bank. Bracts pale pink, perianth dull pink, 10 cm. cream.

5427-A. Bulbs only.

Amryll.

5430. *Erythroxylum glaucum* O. E. Schulz
Det. T. Plowman


Shrub 3 m. tall in secondary forest. Bracts light green. Fls. pale green.
5433. *Erythroxylum glaucum* 0. & E. Schulz

**GH** (7)  
**USM**  
**US**  
**UC**  
**COL**  
**K**  
**EON**

Shrub 2 m tall in hillside thicket, sterile.  
Leaves very dark green above, pale green beneath, areolate, sterile.  
Alt. 480 m.

5434. *Erythroxylum glaucum* 0. & E. Schulz

**GH**  
**USM**  
**US**  
**K**  
**GB**

Young plant growing at base of huge Ceiba.  
2 m tall.  
Leaves dark green above, pale green beneath, areolate, sterile.

5435. *Erythroxylum glaucum* 0. & E. Schulz

**GH**  
**USM**  
**RB**  
**US**  
**COL**  
**F**  
**K**

Tree 8 m tall with spreading crown. DBH 15 cm covered with termitite nest.  
Growing on gradual slope in secondary forest. Leaves firmly membranaceous.
dull dark green above, midrib yellow-green; beneath very pale green with distinct areola region; ± bilinicate. Fruit few, ± light yellow-green.
5436. Erythroxylum glaucoma O. E. Schulz

Tree 8 m. tall with broad spreading crown.

Tree 30 cm DBH. in hilltop secondary forest. US. Shiny medium green above, pale dull green beneath with distinct areolae and lines. Lines produced by lighter outer margin of areolae. Not hairy. Fruits light yellow green.

5437. Erythrina velutina Willd.


Tree 18 m. tall with rugose bark. Spiny outgrowths blackish. Steriles.
5438. Ceiba
(2)
Tree 15 m. tall or even
hulside. Trunk bellied
greyish green to reddish
green. Spines, short.

5439. Lycianthes
(3)
Shrub 2 m. tall in thicker
along quebrada. Calyx and
fruit light green.

5440. Erythroxyllum glaucum O. S. Schulz
(5)
Small tree 6 m. tall growing
in rocks along streams. Live
medium yellowish green above, dull with
light yellow green cast; beneath pale
green, areoles + lunes scalces
descernible. Pedicle + fruit
pale green.
Frequent.
6441. Phyllanthus e. huallagensis Standl. ex Grojaj

**det. G. L. Webster 1976.**

Shrub 2-3 m. tall in secondary woods & roadside. Fruit

lt. green


5442. Bunchosia plumosana W. R. Anderson

**Molpigina det. Anderson 1976.**

Shrub 1.5 m. tall in edge of thicket along road.


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


5444. [formal]

**only**

Filamentous green algae in USM unicate pod in Quebrada.


Algae
Chamae 5445. Farlow (3)

Submerged aquatic herb in pool of groundwater. Lvs. green.
Fr. light brown.


5446. Lycium nodosum Miers det. J. Vilcapompe 1976

Shrub 1 m. tall in thicket, behind beach. Frs. pale pink to cream. Frs. dark red.
ECUADOR: Dept. El Oro.
Fazanay, road from Arequillas to Piñas. Alt. 260 m. 14 Feb 1976

5447. Erythroxylon macropodum Krause, Rutaceae
(3)

**Erythroxylon macropodum** Krause, Rutaceae

**Det. TF**

Shrub 2 m. Tall on steep hillside. Secondary forest.
Color: light yellow green, Corolla pure white.

**Toxosiphon carinatus** (Little) Kallunki
**Det. J. Kallunki 1991**

5448. *Baeza flora* RUBRA L.
(3)

**Bæza flora** RUBRA L.
**Det. J.E. Lawesson & L. Holm-Nielsen 1987**

Herbaceous vine in 2° woods on steep slope in ravines. Frs. pale red.

5449. *Clavija*
(2)

Unbranched shrub 1.5 m. Tall in 2° forest in ravines. Frs. orange.
5450. Calathea inocephala (O. Ktze.) Kennedy & Nicholson

Adam 2 m. tall along quebrada in semi-shade. 3° forest. Lvs. light yellow green above, paler beneath. Shiny. Costa & pulvinus pale olive green. Petiole to 1.5 m. long, blade 1 m. long. Bracts chaffy light brown to orange. Calyx cream. Corolla pale orange. Stamina pale yellow orange.

5451. Actinostemon concolor (Spreng.) Euphorb. Muell. Arg. det. J.L. Webber

Adam 3.5 m. tall in 30° forest or steep hillside. Lvs. dark green above, very pale green beneath. Fls. dark brownish-green.

Roadside herb in thicket. Fls. deep magenta pink.

Roadside herb. Fls. blue.

5454. *Heliconia obscuroides* L. Anderss.
Herb 2.5 m. tall in cut over forest. Pedicel 1 m. tall. L.F. 1.5 m. long. Rachis & bracts dark green. Fls. yellowish green.
**Pleioschista mortuie (Eggers) Schum.**

_Morlæi Eggers._

*det H. Kennedy 1976.*

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

**Renealmia oligosperma K. Sch.**

*det P. J. Maas 1976.*

Herb 2 m. tall in cut-over woods, wet forest. Bracts bracteolate, dark red-brown. Peduncle + pedicel light green. Fks. yellow. Fks + calyx bright red.
5457. Erythrina schimpffii Diet.  
(6)  
Foto  
Treelet 5 in. tall, Leafless.  
Stip. cauliflorous, Calyx  
pale orange. Corolla bright  
orange.  
Lvs. from young seedlings  
under plant.

5458.  
(1)  
Foto!  
Subshrub 1 m. tall in  
cut over wet forest. Pedicell  
dark purple red. Calyx dark  
red. Corolla bright yellow,  
fruit lins dark red.

5459. Stenospermum  
(2)  
Erect terrestrial herb  
1 m. tall in cut over wet  
primary forest. Spadic  
trempy yellow.

5459A. Philodendron  
for org.
5460. *Anthurium pallenii Schott*

(2) det D. Winkler 1976
Exet herb. terrirrul. in wet primary forest. Spathe light green. Spadix light green.

**Coutarea**

5461. *Hamelia maeranetha Little*

det. P. Matkevisis 1982
Herb 1.5 m tall on wet open roadside; in thicket. Fls. somewhat fleshy, brittle, deep yellow.
Alt. 780 m.

5462. Caryea

(3)

Unbranched shrub 2 m tall in open wet roadside. *f* flowers: tube pale green, lip pale yellow.

5462A. *Costus pulverulentus*
foot only

5462B. *Costus lime*
foot only
5463. *Tropaeolum papillosum* Hughes

det. B. Sporre 1976.

Herbaceous, 0.1-0.5 m. tall in wet
hillside thinsets. Pedicels
pale green basally, apically
reddish. Sepals bright red,
calyx blue, light green.
Petals fringed black.
Anthers paler blue.

CFH
USM
S

5464. *Reuselwia pulchra* (Ligulata Mass)
det P.J.M. Mass 76

4-5

Herb 0.1-0.2 m. tall in
open thinset along very
rarely
sandy, drifts, basal
short, circling base of plant.
Pedicels pink.
Corolla yellow. Calyx red.
Calyx red. Stamens and
creamy. Stamens yellowish.
FRS. dark red.
Alt. 1000 m. Near Monos. 15 Feb 76.

5465. *Maranta* eff. toncket Anbl.

Herb - 1.5 m. tall with spreading branches. In 2-flowered fls. - white with small purple spot on stem node. Fruits warty, orange-red.

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Portobello. Alt. 790 m.
15 Feb 76.

5466. *Maranta arundinacea* L.


Herb - along Quebrada in dry forest. Baby - yellow green.
Corolla pure white.
2 fls. only.

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5467. *Peperomia fraseri* C. DC.


Fleshy herb on rock in 2 forest. Stem, petiole & veins beneath reddish.

Spikes white.

5468. Loasa triphylla Juss. (3) det. Sparre
Herb 1 m. tall on wet roadbank. Calyx green. Petals pure white. Corona fork.
[A7K]

5469. Tournefortia
Herb or subshrub 1 m. tall in wet road bank. Inf. pendant or long pedicel.
Fls. dull cream. Berry pure white turning deep blue, green or picking or bruising.
[A7K]
Ecuador: Prov. El Oro. Canton Arenillas. Road South from Arenillas toward Piedras. Alt. 150 m. 16 Feb '76.

5440. *Erythroxylum guianum* O. S. Schultz

Tree 7 m. in low secondary forest, in waterhole. Trunk 16 cm. DBH. Bark somewhat rough gray, flakes out in small pieces. Lvs. light yellowish-green to dull medium green above, very pale green beneath. Sterile. Only one seed.

5471. *Sorocera trophoides* W. Burger Ex Bering

det. C. C. Bering 1976.

Shrubby 2 m. tall in forest margin. Pedicels light red. FRs. black at maturity.
Syf2. *Flueggea elliptica* Baillon Euphorb.

Treelet 3 m. tall. Forest margin. Fruiting pale yellow. 
Fls. green.
PERU: Dept. Tumbes, Dpto. Matapalo, Bosque Nacional de Tumbes, near Matapalo. Alt. 150 m. 18 Feb 76

5473. Malpighia

shrub or small tree with spreading branches, to 5 m. tall in secondary forest. Fruits bright red at maturity. 

5474. Erythroxylum glaucum O. E. Schulz

shrub 3 m. tall in secondary forest margin. Lvs. Medium green above, dull, midrib yellowish brown beneath. Very pale green with lower paler crested region, bristle distinct but not raised. Frs. 1-6 per fascicle. Pedicel, calyx± + immature fruit, bright green.
5475. Passiflora


5476. Capparis

USM 1

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

5477. Euphorbia graminea Jacq.

det. G. L. Webster 1976

Gillets 2 m. tall in forest. Margin along long red, talley white. Orange yellowish green.
Peru: Dept. Tumbes, Prov. Lurinilla. Region below El Cerrillo. 350-450 m. Alt. 18 Feb '76. Dry tropical forest.

5478. Cyclanthera multifoliola Cogn.
DET. N. HENSOLD 2000.

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


Shrub 2.5 m. tall in open
thicket. Fts. yellow. Fks. green, to orange to red.


Shrub 2 m. tall in open
thicket. Fts. yellow throughout.

LIVE: Waimiri
5481. Acnistus
Seed-leder. Shrub or small tree to 4 m. tall on roadsides. Frs. orange at maturity.

5482. (Cassia) Senna mollissima (Willd.) Irwin & Barneby var. mollissima
Tree 5 m. tall on road bank at edge of forest. Lvs. light green, paler green beneath. Frs. very dark green, brittle. Det. R. Barneby 1988

5483. Zeyheria
Spring shrub with scantly branched, 3 m. tall in open thicket. Frs. 1.5 cm. green.

Treelet 5 m. tall in forest. Margin. Frs. green.
5485. **Lantana scabiosaeflora** H.B.K.

- **det. Moldenke 19**
- Shrub 1.5 m. tall on open
  roadbank. Outer fls. white;
  Inner fls. pale yellow.

5486. **Eccaclea** Prestonia

- Vine on open roadbank. Calyx
  pale green. Corolla tube very
  pale greenish yellow. Limb
  pale green toward center,
  yellow petals.
- Food plant of Ithomia

5489. **Croton**

- **det. G.H. USM**
- Treelet 5 m. tall in forest
  margin. Frs. green.

5488. **Rauwolfia**

- **det. Emma Cerrato**
- Shrub 1.5 m. tall in shaded
  roadside, edge of forest. Lethy white.
  Corolla white. Frs. green.
5489. Copperis

Cty. (2)
usm.

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

5490. Jacquinia

(2)
usm

Spiny-leaved shrubs, densely branched, to 3 m. tall. Lvs. shiny, dark green above, pale green beneath. Frs. light green.

5491.

(2)
usm

Tree 15 m. tall in hillside forest. Lvs. shiny dark green above, dull light green beneath. Frs. dull green at maturity.
5492. *Solanum* (3) GH-2 USM J

Climbing herb on roadbank. Fls. bright yellow.

5493. *Piscidia carthagensis* Jacq. Lequ. (2) USM J

Fruit-1981! Tree 10 m. tall at forest margin along road. Fls. brown.

5494. *Pontederia* V (3) usm J

Gn. aquatic herb in large mud puddle in road. Fls. green.

5495. *Andropogon* (3) GH USM J

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

5496. *Guarea* (2) GH USM J

Tree 8 m. tall. Fls. creamy yellow. Frs. green. Lvs. lustrous.
5497. Wulfia


Shrub 1.5 m. tall on open road bank. Very frequent. Fls. deep yellow.

5498. Xanthosoma

(2)


5499. Xanthosoma helleborifolium

(2)

Herb 1 m. tall on roadbank. Frequent. Immature spathe light green. Spadix creamy white throughout.
5500. *Cayaponia*  
*Cucurb.*


5501.  
Tree 6 m. tall. Frs. light brown.

5502. *Macroanthosiphon longiflorus* (Cav.) K. Sch.  
Vine in thicket 4 m. tall.  
det A. Gentry 1976.
5503, Tabequa billbergii (Bur. & K. Schum.) Standl.

Thorn 3-4 m. tall in open huckets. Fks. dark green to brownish. Det. A. Gentry 1976.


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

5505, Lantana scuensonii f. albiflora Moldenke

Shrub 1-1.5 m. tall in open pastures. Fls. white throughout. Det. Moldenke 1976.

5506, Mimosa

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

5507. *Malpigia*

Shrub 3 m. tall in open sandy thicket. Frs. pale yellow-green.

5508. *Cereus?*

(3)


Lepto-

5509. *Cereus*

GTH (3)

det M. Flores 1977

Peru: Dept. Piura, Prov. Talara, Panamerican Highway SE of Máncora, km 12/16 ... 21 Feb 76. Alt. 10 m.

5510. Grabowskia boerhaviifolia (l.f.) Schlecht. det. J. Vikapana 1976

Thicket 1.5 m. tall in fruit.

5511. Proboscidea altheeifolia (Benth.) Dec.

(3)

Herbs in low, mud area behind beach. Stems flexuus, 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.

Frequent.

5512. Solanum (2) Scandent herb 1 m. tall along Quebrada in open. F1s. white.

5513. Helianthus (2) herb 7 m. tall along Quebrada on roadside. F1s. white. F1s. green.

5514. Solanum (2) sprawling herb 1 m. tall on wet roadside. Lvs. purplish. F1s. yellow.

5515. Guanina (3) Tree 5 m. along roadside. Spontaneous. F1s. green.
Arnaldoa macbrideana Fenoglio

Shrub 3 m. tall on steep open hillside, involucres silver grey. Fls. rose-pink.

551f. Arneotus

Shrub 3-4 m. tall on steep open hillside. Fls. pale yellow.


Ruellia tuberosa L. CILIATIFLORA Hook.

Herb in wet place along road. Fls. pale blue-violet.


5519. Malpighia

Low shrub 1 m. tall in open roadside along ditch. Fls. bright red.
23 Feb '76. Dry tropical forest at base of mountain near river.

5520. Erythroxylum p. pacificum D. Simpson
   E. sp. E. impressum O. E. Schulz 1981
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, medium dark green above, with paler green costa and lateral nerves; paler green beneath, costa yellowish. No areolas or lines apparent.
Pedicles light yellowish green, young fruits pale green, drying brown. No mature fruits seen.

VOUCHER SPECIMEN
5521. Erythroxylum cf. pacificum D. Simpson
E. sp. aff. E. impressum O. E. Schulz
Shrub 2.5 m. tall in dry forest- scrub.
Leaves dark dull green above, very pale green beneath, costa yellowish. Twigs pale green. Pedicel + young fruits pale green.

5522. Erythroxylum cf. pacificum D. Simpson
E. sp. aff. E. impressum O. E. Schulz
Small tree 4 m. tall in dry forest. Leaves medium-dark green above, pale green beneath. Pedicel + young fruits pale green.

5523.
Shrub to treelet 4 m. tall

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

USM: Gilt. det. T. Plowman 1978


5525. *Solenecron* (1)

**Nearly leafless shrub 1.5 m. tall. Fls. appearing with leaves, purplish violet.**

5526. *Bumelia*? (2)

**Spiny shrub 5 m. tall. Fls. green with milky latex.**
5527. *Zygia*  

**F. Ferguson**  

(2)  
GH seed  
USM J  

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

5528. *Capparis angulata* R. & P.  

(2)  
USM J  
USM J  

Tree 6 m. tall with trunk  

GH  
15 cm. DBH. Lvs. coriaceous.  
Petal, Calyx + pedicel dark brown,  
Filaments cream.

5529. *Croton thurifer* Kunth  

USM J  
DAVIS  

(3)  
USM J  

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

5530. *Sterniphora* *beruviana* Spruce, del. F. Plowman
- Spindly shrub 3 m. tall in dry hillside forest.
- Stem & petiole dark rusty brown.
- Pedicel & calyx brilliant red-orange. Petals pale orange.
- Stamina & style pale yellow. Stigma brown. Frs. dimorphic.

5531. *Jatropha*
- Succulent herb 1.5 m tall in dry hillside forest. Latex whitish.
- Stems & peduncle pale green. Lvs. dark green above, very pale whitish green beneath. Rachis & pedicels pale pink. Petiole red. Frs. very pale green.
5532. *Piperomia* (Piperaceae)

Waxy to succulent herb growing on steep reddish at edge of dry forest. Petiole thick peduncle pale red. Leaf thick fleshy, med. yellow-green above, very pale yellow-green beneath. Spikes crested. Seeds black.


F-2 GB USM

Tree 6 m. tall in moist forest on steep hillside along river. Trunk 8 cm DBH. Bark grey to light brown, much broken-corrugate.
Branches grey, terete.
Twigs light green, flattened
Lvs. lying in one plane,
dark shiny green above;
beneath light yellowish
green. The bases + midrib
prominent. Areoles back,
distinct. Either being slightly
paler green or bordered by
one or two sets of lines, very
faint. Stipules light green.
turning brown soon. 1-3.

appearing in axils. Current
growth or old growth 1-3 per
Axis. Pedicel + calyx light yellow
not green. Buds yellow. Fls. cream.
Yielding fruits pale green.

understory

Frequent tree at this locality.


Frs. pale green.


Treelet 4 in. tall in under-story of forest on steep hillside. Lvs. shining dark green above; beneath lighter yellowish-green with distinct paler slightly concave areolar region. Buds yellowish.

Frs. young fruit pale green.
**pumila L.**

5536. *Zania* *fiddelli* (2)

Crepid 1-1.5 m. tall, deaulement. sterile.

5538. (2)

*Apogyna*

USM / GT

USM /

Wordy vine 3-4 m. tall in understory of forest, on steep hillsides. latex white. Fls. cream.
Perm. Dept Amazonas, Prov. Bongara
Road from Pedro Ruiz Gallo
(Pte. Ingenio) to Pomacona.
24 Feb 76.

1330 m. Alt.

5538. Delcampsia aristolochii-folia Kunth
     det. J. L. Webster 1976
     Vines in open roadside thickets.
     Small bracts pale green. Large
     bracts bright magenta purple.
     Glaucous reddish. Cyathia magenta.
     Fru. yellowish green.

5539. Jacquemontia

5540. Chameadorea: Morenia  &  linearis
      "Chontilla" (R. & P.) Burret
     Palm 5 m. tall in cut-over
     woods. Petiole 0.55 m. Blade 0.85 m.
     St inflo. radio white, frs. yellow.
Calceolaria

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

Solanum saponaceum Dun.

Shrub 2.5 m. tall on open roadside. Corolla deep violet. Stems & underside of leaves dark purple. Fruits green.

Soracha

Spreading herb. 5 m. tall on open roadside. Fls. pale lavender, deep purple inside tube. Fruits orange.
Alt. 2250 m.
5544. *Solvia*

(2)

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

Alt. 2150 m.
5545. *Desmodium*

(2)

Erect herb in open road sides.
Fls. pale pink.

Road from Pomacocha to Yambasamba.
Alt. 2070 m. 24 Feb 1976.

5546. *Reuelaria wundackii* Maes?

(3)

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

5547. *Borarea*

(2)

Vine on road bank. Fls. deep red.

Alt. 1420 m.

5548. *Brugmansia aurea* Laggerheim

(3) * labels. Shrub 3 m. tall on riverbank in open roadside. Fls. white.


5550. *Jacquemontia blanchetii* Moricand

5551:  
(HH) (1)  
Herb on steep dry roadbank in crevices. White beneath.

5552:  
(P. usm)  
(HH) (3)  
Peperomia weberbaueri C.D.C.  
Succulent herb on dry open cliff along road. Lvs. dark green above, very pale green beneath. Peduncle reddish. Spikes green.

5553:  
(HH USM)  
(GH) (2)  
Salvia  
Photo: Herb 1 m. tall in roadside thicket. Rachis + calyx light green. Fls. deep blue.

5554:  
(HH) (1)  
Salvia  
Herb 1 m. tall in roadside thicket. Fls. light blue-violet.


Herb 1.5 m tall on open road banks. Calyx pale green. Corolla scarlet.

5557. *Evolvulus* villosus

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


Vine in thicket along road. Petals bright yellow.
5559. **Amphilophium paniculatum** (L.) HBK. var. molle

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

det A. Gentry 1976.

5560. **Xylosma benthamii** (Tulasne) Planchon

Tree 6 m. tall along
river bank in 2nd gallery forest.
Fls. cream. FRS. red.

Alt. 1500 m.

= H. intermedium Hutchison sp. nov. ind.

(3)

Climbing spiny cactus 6 m.
High growing in tree. Tepals on
Many green, red tipped with red spines.
Tepals on hypanthium dull green
Brown, tipped dark red, fleshy.
Outer tepals on limb, deep pink at
base, deep yellow at apex. Inner
Tepals creamy yellow. Filaments,


Pawl. (3)  

Korst 1 cm. tall on open vestbahn. Corolla deep yellow, dark red at centra. Filaments dark red. Styles green.  

*Pavonia hieronymi* Gürke  

*det.* P. Fryxell 1991
Road south from Pte. Ingenio
Toward Chachapoya. Along
Río Ucayalí. Km. 6 from
(Alt.: 1,600 m). La Cañada.
25 Feb 76.

5523. Erythroxylum novogranatense
v. truxillense (Rusty) Ploume
(5)

Cult. Shrub 2 m. tall in open
irrigated field. Trunks several
+ 4 cm. diameter at base.
Branches slender, straggly
dropping over. Lvs. dark green
above to med. yellow-green,
pale yellow-green to
very pale green beneath.
Cunea faint, areola
faint, slightly paler.
Reddish & calyx: light green.
Petals cream.
5574. *Erythroxylum novogranatense* var. *truxillense* (Rusby) Plowman

Cult. Shrub 1.3 m. Tall growing in shade. Lvs. in irrigated cultivated plantation. Lvs. deep yellow-green above, dull; pale green beneath with distinct raised, linear, areolar, distinct, somewhat thicker, yellower cast. Lateral nerves & veins dark outside areolate, obscure within.

5575. *Erythroxylum novogranatense* var. *truxillense* (Rusby) Plowman

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 yellowish green to very pale green; veins faint, indented or slightly raised. Areolae pale or concordant.
vein less distinct in areoles.

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

Interplanted with yuca, turmeric, platanus, & coffee. Other crops around field & in adjacent fields:
achiote, cherimoya silvestre, guava, Inga, mango, lemon, orange, sugar cane, coffee, Crescentia, maize, Ricinus, papaya, avo cado, Opuntia (tuna) & Furcera.
5566. **Capsicum rhomboideum** (Dunal) Kurzze

Dek M. Nee 1990

Shrub 2.5 m. tall in rockside thickets. Corolla yellow. Fks. white at maturity.

Alt. 1650 m.

5567. **Coreopsis microlepis** Campos.

Blake & Sheriff

Herb 18 cm tall on dry open hillside. Rays yellow-orange.

Det. E. H. Zardini 1977

5568. **Peperomia sp.** Nov.

Det. R. Callejas 1982

Juvenile herb on dry open hillside. Rachis palis yellow. Spike yellowish.

5569. **Cantua quercifolia** Polon

Subshrub 8 m. tall on dry open roadbed. Calyx light green. Corolla tube creamy yellow, limb pure white. Anthese yellow.
5570. **Brachygiton multinervium** Wundack

**det. J.J. Wundack 1976**

Thrust 1.5 m. tall in roadside thicket. Calyx + petals very bright red. Petals black.

5571. **Brachygotum weberbaueri** Cogn.

**det. J.J. Wundack 1976**

Thrust 2 m. tall in roadside thicket. Stayan Calyx pale yellow-green flushed with red to nearly red. Petals pale yellowish green, tipped with violet.

5572. **Erythrophorum**

Proteaceae

5573. Erythrophorum

**det. J.J. Wundack 1976**

5573. Brachytomum radula Triana
   Shrub 1 m. tall on open rock;
   Bark. Ovary & Calyx yellow-orange
   tinged copper orange. Petals
   black. Style deep Magenta.

   Slender shrub~ 2 m. tall, in hillside
   thicket. Calyx yellowish green.
   Corolla tube Carmine red, lobes
   rose pink.

   Unbranched herb 2 m tall
   on open slope. Leaf. dark green
   above, shiny. Pedicel ovary &
   Calyx lobes dark purple. Corolla
   tube cream at base, dark red;
   when exposed cream within.
   Stamen tube yellow-green, apically
   with violet hairs.
5576. *Calceolaria mooyobambae* Kränzlin *sensu*


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

5577. *Calceolaria*

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


5578. *Calceolaria flaccia* Molau sp. nov.

- **Paratype**

- **Subshrub 1.0 m. tall in ravine along waterfall. Twigs, petiole & major nerves dark purple. Calyx dark brownish-green. Corolla bright yellow.**
5579. Calceolaria

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


Between Abra Chanchillo and Hornopampa. Alt. 2180 m.

5580. Delostoma lobbii Seen. det. D. Wasshausen 1976

Thraut 2.5 m. tall on open hillside. Calyx + ovary light green. Corolla tube + lobes deep carmine red, lobes streaked red + white adaxially. Tube white within with fine red stripe.

5581. Desmodium molliculum (HBK.) DC.

Prostrate herb on gravel roadside. Fls. magenta pink.


5582. Mornina

Herb on gravelly roadside. Fls. dark blue, keel yellow.
Peru: Dept. Amazonas, Prov. Chachapoyas, Between Bahia Yumbo and Hornopampa. Alt. 1100 m. Dry thorn scrub-areas.
27 Feb 76.

5583. *Erythroxylum nervosum* var. *fuxillense* (Rusby) Plowman

Cultivated shrub in small irrigated coca plantation. Shrub 2 m. tall with spreading branches. Leave dark to light yellow-green above, the veins more or less distinct; lighter yellowish-brown below. Leave yellow pale green to yellowish, lines more or less distinct, areoles somewhat lighter. Fruit pale, pedicel pale green, fruit orange turning bright red at maturity.
Small plantation above river. Other plots down in flood plains in new prepared fields. Fields weeded, plants 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.


5584. **Cienfuegosia spatulifolia** (HBK.) Gürke

det. Magda Chanco, May 1976

climb 1.6 m. tall in sandy open place. Fls. pale yellow with dark red spiral centers. Stamens red-orange.

5585. **Acacia moniliformis** Griseb. Legum.

armed, spreading shrub 3 m. tall. Fls. deep yellow. Frs. green.

det. V. Rude 1977
27 Feb. 66. Yumbay.

5586. Matisia Cordata Humb. & Boum. (1)

Cult. tree 6 m. tall in irrigated farm. Fles. brown, orange fleshly.

5587. Erythroxylum novogranatense var. (3)

n.v. Coeca - truxillense (Rushy) Plowman

5588. Erythroxylum novogranatense var. truxillense
(Ruby) Plowman

Usn
Cdn

Cult. shrub 15 m tall in irrigated field; full sun. Bark grey-
brownish, brownish 1.5; medium yellow-
green above, midrib light yellow-
green, veins slightly raised, light;
beneath very dark green, linear
and areolae lighted, very yellowish.
Pedicel pale glaucous green.
Fruit: light yellow.

5589. Erythroxylum novogranatense var. truxillense
(Ruby) Plowman

Usm
Cdn

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, veinslets dark outside
areolae, obscure within. Lvs. &
areolae concord. Pedicel pale
green. Fks. light green to yellowish.
5590. *Erythroxylum novogranatense* var. *E. coca* "truxillense" (Rusby) Plummer

Cult. Short 2.0 m. Tall in open irrigated field. Bark dark greenish brown. Twigs lighter, reddish brown. Lvs. medium to lighter yellowish green above, midrib yellowish; beneath pale glaucous green, line of lighter area on concordous veinlet opaque in areola. Frs. bright yellowish green to yellow.

5590A. *Erythroxylum novogranatense*

Seeds only

Feirly fresh seed picked up from cocoa drying floor.

5590B. *Erythroxylum novogranatense*

Seeds only

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

3 crops/yr. Plants 8 yrs. old. Not interplanted but every other crop in adjacent fields. Clean field, no weeds. Irrigated ½ week.

**5391. Caleolaria**

(2) Herb. 5 m. on dry rocky hillside. Foliage silvery. Corolla bright cadmium yellow.


Between Celendin and Anca's Colorados below Challuayacu.
Alt. 3300 m.

**5392. Maurenia**

(2) Herb 1.5 m. tall. Corolla dark blue-purple, keel deep yellow.

**5393. Lupinus**

Loasa magnifica Urb. & Gilg

Tall herb 1 m. with stinging hairs. Calyx yellowish green. Corolla light orange.

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

5595. Peperomia

(n) nigongona.

Wainona. Elop.

Medicinal herb bought in market. Tea made from stem and leaves. Taken for heart problems, menopause etc.


5596. Lagenaria

(1) "Calabacito"

Bottle gourds purchased in Cajamarca market. Used for holding lime. Used in Coca chewing. Brought from the coast.
Peru: Dept. Amazonas, Prov. Chapoyas, Above Hornopampa, 2,680 m, 55°F, *Dodonaea viridissima*

Seed only

Shrub 1 m. Tall on dry open roadside. Frs. light brown.