ACCOUNT BOOKS

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Elec. HAP
Topo. map
Ancienza
Ft. Avita

Javier Hernandez
Luis

Send Heber Erythroxylum paper
Marti Condone send collecting info sheet

Send Stegmena - Hair stuff

Berry - At Play in the Fields
Plastic label for Erythrox.
Reprints

Reprints to Mercez
Delasco

Ask P. Pane for reprint of W. Dietrich's paper

Abort rod and Aborted Pollen.
Stain Technology 41 (3).
C. Beckeburg
Cactus lexicon
Blandford Press
Poole Dorset 1976.

Libby
Dahlgreens Photos =
Text ??
Glassman's Revision of Dahlgrren
Index J. Bot. Publ.

75 Posh Binding
EAP MAP
788 specimens
169 numbers

1 spirit collection
wood-wood collection
foto-photographs
Venezuela: Distrito Federal.
Old road La Guaira-Caracas.
North-facing slopes.
4 Feb 1979.

1 H. 340 m. Open thorn scrub among small trees.

7650. *Erythroxylum cumanense* HBK.

(2) Shrub 1.5 m tall with erect

trunks. Bark grey-brown. Lvs.

Sub-shiny above with prominent veinlets, medium to dark green, mid-

vein yellowish; lvs. pale yellowish

green beneath with dark fine

veinlets, midvein yellowish.

Twig green, flattened; stipule

brown, no setae, persistent.

Sterile.

7651. *Erythroxylum cumanense* HBK.

(4) Shrub 2 m tall, much branched;

dense branches with abundant

short shoots.

Other data same as above.

with 7650.
**FEB 4 1979**

**7652. Erythroxylum cumanense** HBK.

Shrub, 1.8 m. tall in hillside thicket, dry thorn scrub, with 7650. Bark greyish brown, branches dense, stiff. Other data: same as 7650. Larger leaves.

**Bourreria cumanensis** Gürke.

**7653.**

Common shrub or tree. Densely branched, resembling *Erythroxylum*.


**7654. Erythroxylum cumanense** HBK.

Trachel 4 m. tall on Open red bank, much-branched. Branches dense, short and stiff. Trunk 6 cm. girth, 1 cm. diameter.
Bark grey brown. Twigs light greyish with grey-brown lenticels. Stipule pale green, turning brown, persistent, black with age. Lvs. firm, membranaceous, medium green above with prominent veniules; midvein impressed; lvs. pale glistening green beneath with fine dark veniules, midvein yellowish.
**FEB 4 1979**

**Aspidosperma vargasii A.DC.**

Small tree 6 m tall in open roadside. Lvs. Shiny green above, pale glaucous green beneath. Frs. erect, brown with white spots.

**Erythroxylum cumanense** +LBK.

Treelet 3 m tall in forest margin in rocky woodland along road. Bark grey-brown. Branches dense, stiff, horizontal. Lvs. membranaceous, not shiny, medium green above, with prominent venatici; lvs. beneath paler, glaucous green with finely drawn venatici. Sterile.

Lvs. comparatively large. Stems wetter at this elevation than 7654.
Hymanocallis tubiflora Salisb.

7657. Bulbiferous herb in depression in hillside forest.

VEN F

live: u. chie. PTBG, Lyon, Mo. X Quits to mean, Aug 8-965 17 Sept 85.

7658. Brownea longipedicellata Huber

VEN (y)

Treelet 3 m. Bracts brownish, uncate petels + filaments carneus pubes.

7659. Commelina erecta L.

VEN F

K

Trailing herb on banks along trail. Mult. dark green above, pale gr
beneath; midvein above whitish.

Bracts 1st. green.
7660. *Erythroxylum suffruticosum* HBK.  
(3) Saplings 1 m. tall in open woods along trail. One large treelet 5 m. seen on inaccessible cliff (photo). Lvs. medium green above, deeply glaucous green beneath. Stems finely drawn, venule sterile.

7660F same, parent tree on steep rocky cliff.

Photo only

(2) Rosette herb on dry banks, in forest. Lvs. dark velvet green, patterned white on midrib & 4° veins above, pale green throughout beneath. Stiff exis red-purple. Fts. pink.

(2) Herb. 5 m. tall in dry forest. Corolla red.  
*det. J.A. Steyermark 1979.*
7663. Eupatorium iresinoides H.B.K. Comp. ver. glebrescens Steetz
Frequent herb along trails.
Capituli pede green.

(2) VEN F

7664. Cyclista equinoctialis (L.) Miers
(3) Biguen. det. A. Gentry 1978.

VEN F
MO

Vine in open thicket. F.R.S.

brown.

5 Feb 1949.

F665. *Erythroxylum hansenense* Jecz. (4)

Branched shrub 3 m tall, crown

4 m. diameter growing out of dry bank along trail. A branched, slender, spreading, flexuous. Trunk 6 cm. thick, base, dark grey-brown (ashen) smooth, with only slight cracks. Twigs slender, short shoots flexuous, remnant somewhat knobby. Leaves 1st. yellow-green, 2nd. vein slightly prominent, pale green, glaucous dull, beneath, veins lets dark green, finely drawn. within membranaceous, semi-amplexicaul, exarillate; completely plane.
Erythroxylum densum Rusby

Multi-trunked shrub 4 m. tall, with divergent crown, 6 m. across. Growing out of dry bank along trail. Trunk 3-6 cm. diameter, dark grey to bleached, with transverse fissures. Branches slender, flexuose. Branchlets flexuose, nearly leafless. Leaves met., glossy, dull, 3-4 cm. long, costa yellowish; dull, pale green, green beneath with fine, tannish veiun. Areoles very distinct, pale, veinlets less distinct, linear, pale, distinct. Los. Membraneous, completely plane. Sterile.
Erythroxylum undulatum Plowman

**Type tree** (= Berry 3479)

- **Tree**: 3 m tall on gentle slope. Single trunk 4 cm diam. at 40 cm from ground. Both turn, wildly cracked, longi-funically.
- Branchlets slender but short, thin, and tending to lie in one plane (horizontal). Stipules it., green, setulose, persistent, turning plach: Blade medium to light yellowish green above, Shiny, strongly undulate margin, veinslet + nerves prominent, Costa yellowish; Vs. beneath slightly lighter green, Costa pale, nerves + veinslet, dachus green.
- Lamina: leaf slightly ascending membranaceous, cuneate, excoate.

Fruits on branchlet tips
- 8 mm x 3.5 mm, pale green, turning yellow. Coats pale green.
- Oblong, obtuse.

- 7667A. Same, grey. Shoots with good stipules.

(A) From different plant.
*Erythroxyllum oxyacarpuum* O. Schulz

F. 668 (*Erythroxyllum ornocense* HBK. group)

Tell shrub with 3 main trunks 3-5 cm diam.
Mean base 14 in tall.

Branches spreading, diverging, horizontally.

Bark dark brown, fissures longitudinally, markedly branched base.

Branches dark brown.

Branchlets greyish with whitish enteric, leaves in one plane,

at branch tips, deciduous. Leaves ascending, margins somewhat revolute.

Blade shiny above, lateral nerves prominent, 14 green

turning yellow, less shiny beneath,
paler, venicles deeper green, finely drawn.

Lvs. firm membranaceous,

Jacqueline, elivate.

Frs. nearly flat, red, drying & falling. Calyx persistent yellowish.

(Fr. 6 x 4.5 mm, ovate, acute.)
16 Feb 1974.
Venezuela: Distrito Federal.
Caracas. Jardín Botánico.
Alt. 900-950 m.

7669. Brunfelsia americana L.

Cult. Erect shrub 2.5 m. Full sun in dry place.
Peduncle & calyx pale yellowish green. Corolla tube reddish brown basally, yellowish brown spirally. Umbel cream turning yellow.

7670. Erythroxylum novogranatense (Thornis) Hieron.

Cult. Shrub in full sun. Much branched from near base.
Branches horizontal, stem red-brown. Twigs light green.
Leaves light green, dull above, pale glaucous green beneath.
With strong lines & paler areolar region, dull. Peduncle & calyx pale green. Immature
FEB 1 6 1979

Fruit: light green, slightly shiny.

7671. Brunfelsia grandiflora D Don.

(VEN)

2 Cult.: shrub 1.5 m. tall. Figs: mauve, turning white with age. Ffrs: shiny green, turning coppery orange when dry, with maturity, forcibly dehiscent.

Reforested hills above gardens.

7672. Erythroxylum cf. densiflorum Rgl.

(Tagged)

(VEN)


7673. Erythroxylum cumanense HBK.

(Tagged)

(VEN)

8 Tree to 10 m. tall with tree 9 cm. nean beze. Bark dark brown, cracked impart from venusely. Branches erect, straightup, sometimes arching over. 2° branches...
at 60° to 90° from axis. Branching dense, branchlets grey-brown, thick, forming semi-
rigid short shoots. Lvs. near tips of short
shoots, somewhat shining, mid green above, let-
never prominent. Lvs. peli glaucous green
beneath with fine dark green reticulate
veniets. Aredes present on some lvs. only,
showing a yellowish green or lighter area
with fewer veniets (vs. membranaceus).
This spp. holding lvs. much longer than
others in area. Sterile.

4675. Erythroxylum ornocense HBK

VEN (3)

Erect shrub 4 m tall with one
main trunk. Bark dark brown,
shredding. Branches erect spreading.
Nearly leafless with dry fruits
persisting.

4674. Erythroxylum [sp. nov. ?undulatum]

(2) Serpentine; nearly leafless.
VEN lvs. sub-seriace, concave above, drop-
ing, with strongly undulate margins.
Venezuela: MIRANDA:
Baruta. Grounds of Universidad Simón Bolívar. Hills above the Campus.
1200 m. alt. 16 Feb 79

4776. Erythroxylum amazonicum Peyr.

Tree 8 m tall with forked trunk, to 10 cm DBH. Growing on steep hillside along dry rocky quebrada. Branches up about 4-5 m above ground.

Boles fairly smooth light tan, light brownish greenish within, wood light buff. Branches stored long, spreading-pendulous, it. greenish to brownish, branched towards tips. Twig flexuosa, + in one plane.

Lvs. subcoriaceous, medium dark green above, somewhat shiny, with acuminate ascending toawing, margin scarcely undulate, costa 1st. yellow, major nerves light greenish green fairly distinct. Lvs. light green beneath, subtended, with dace
green leaves + veniles, costa
light tan to yellowish; no areoles
or lines present.
Leaf blade pendulous.
Fruits present in small clusters near tips of branches; pedicels erect, fruits held above the drooping leaves. Pedicels calyx, dull dark green, thickened at apex.
Fruits light green turning red, variously shaped from elliptic to oblong, 13-15 mm x 8-9 mm or subsphaerical with small apical nipple, 10-12 mm long, 8-10 mm diam, nipple 2-3 mm long.
Stipules turning brown-bluish, almost immediately deciduous, almost immediately. Formed only on young stump, short as initial remnant, strongly strigate.

wood: Aw
MADW
Uw
Kw
7677. *Erythroxylum amazonicum* Peyr. (24)

- Slender tree, 6 m. tall, mean base
- Branches distinctly horizontal, ± storied
- Branchlets more or less in one plane, grey-tan.
- Blade pendulous, petiolar br. green.
- Blade firm-membranaceous, dull, dark medi. green, costa + veins slightly prominent.
- Veins: light green beneath, somewhat shining.
- Costa pale yellow.
- Veinlets fine, distinct, dark green.
- Margin mildly undulate.

(mentioned)

7678. *Cascaria* (2)

- Tree 6 m. tall on que hillside.
- Buds yellow.

VEN
Venezuela: District Federal, Caracas. Ex University Jardin Botanico. Reforested hills above garden. Alt. ca 1000 to 900-950 m.

7674. Erythroxylum orinocense HBK.

(7)

Large multi-trunked shrub 4-5 m tall, 6 m diameter. Trunks erect, spreading giving V shaped appearance. Bark rough, dark brown, trunk 20 cm diam. 21 Dec. (exfoliating) Branchlets grey-brown, twigs red brown with light grey lenticels. Stipules light grey, fanning fan, persistent but not distinctly bleached. Lvs. yellowish, free nearly leafless. Lvs. semi-filmy above, nerves prominent, shinier beneath, nerves + venule distinct, no lines or crease. Ultimate branchlets twisted, flexuous.
VENezuela: Distrito Federal.

Parque Nacional del Ávila.

South-facing slopes, dry tropical forest.


68o. Erythroxylum densum Rusby


Fls. at last season's nodes, solitary, subsessile; pedicel thick, pedicel + calyx 1st. green. Filament cup slightly shorter than calyx, very exceeding calyx. Small green galls forming in place of fruits, filled with minute larvae.
Alt. 1280 m.

Erythroxylum densum Rusby

Tree 4 m. tall with many erect branches arising from a trunk 10 cm. diam.
Branches light brown. Twigs yellowish green, stipules soon turning brown, persisting. Flowers to single decemer. Lvs. yellowing, light green above, dull, with lighter green; Lvs. pale glaucous green beneath, areoles peltate, lines present or absent. Sterile. Frequent tree in this area, with numerous seedlings found.

Alt. approx. 1325 m.

Erythroxylum densum Rusby

Tree 10 m. tall with trunk 9 cm DBH. Bark blackish brown, roughish, exfoliating.
Branches flexuous, twigs becoming short and knobby, in con-
treat to long, straight slender stumpy sprouts and seedlings. Lvs. at tips of short knobby shoots, medium green above, nerves slightly distinct, dull; lvs. beneath pale glaucous green with somewhat darker reticulate veinslet: Areolae + lines very distinct, paler green.

Young sprouts have leaves with little or no distinct areolae/lines, these developing in the mature tree, when exposed to full sun + wind.

Sterile.

7682A. Erythroxylum densum Rusby

(2)

Vein F

Seeping 2 m. tall under 7682. Lvs - light green, dull above; pale whitish green beneath areolae indistinct or slightly paler, no lines.
Alt. ca. 1360 m.

Erythroxylum densum Rusby

UEN 7683

F-2

Tall shrub 5 m. with several
main trunks, growing at edge
of trail in open hillside near
Refugio Sabas Nieves.

Stems sucker shoots straight,
succulent, reddish-brown. Upper
shoots dark grey-brown,
flexuous, knobby. Lvs. mid-
dark green above, dull, with
pale green midrib, lvs. pale

Flamboyant green beneath,
Veinlets obscure aedeage pale
green, inner pale yellowish
green, distinct midrib
yellowish green beneath.
Young buds appearing in
axils of last season's short
shoots.

7684. *Erythroxylum* coca

Tree 8 m tall with trunk 8 cm diam. at base. Branches forked, diverging, fairly open, slender, somewhat flexible. Bark dark brown, fairly smooth with gradual longit. fissures toward base. Branchlets gray-brown, twigs green. Stipules light green, soon turning brown, margins recurving.

Lvs. dull med. green above with pale green midrib; pale glaucous green beneath with distinct areolae and lines which are pale green. Ls. nerves + veinslets. Somewhat darker green. Growing in thin woods, partial shade.
Erythroxylum undulatum Plowman

Tell shrub 6 m. tall with 3 main-trunks 3-4 cm. diameters. Bark dark brown with slight longitudinal cracks. Main branches erect, short shoots flexuous, spreading or curving upwards, densely branched.

Branchlets light tan, Stipules bright green, turning black, persistent. Leaves dull above with prominent Impressions of veins and nerves. Leaves shining beneath pale yellowish green with dark green nerves and veins. Midrib yellowish. No linear or sheath.

15 Margin strongly undulate.

Stem. Growing in understory of woods.

7685A: Same. Growing on exposed ridge top.


FEB 20 1979

Ven. F. NY.  
Rhodogaphalopsis  
Bomb.

7690.  
Ven. F. NY.  
Dwarf tree 3 m tall with gnarled horizontal trunks on granitic rocks. "Floss" to dry.

Ven. F. NY.  
Tree 6 m. tall with spreading branches growing on granitic rock. Stipules golden brown. Dried fruits light brown.

Ven. F. NY.  

Ven. MS. BC. F. NY.  
Siparuna guianensis Aubl.

Thruh 3 m. tall in woods margin along small stream. Fis. yellowish green. N. v. "imediante" "romadizo"

Miconia albicans (sw.) Tr. Nebl.

Thruh with erect branches in thicket along small stream. Lvs. shiny dark green above, pet. rusty brown beneath. Hypanthium fanny. Stemens & petals cream.

Miconia stenostachya DC. Nebl.

Thruh 1.5 m. tall in forest margin along small stream. Hypanthium greenish blue. Filaments dark purple. Anthers yellow.

Davilla kunthii St.-Hil.

n. v. "choperillo"

Scandent vine in open thicket.

Frs. light green.

det. P. Matekaitis 1984
7698. Cassavia
Erect shrub with corky striate bark. Fruits bright orange at maturity, fleshy. n.v. "fotolito"

7699. Borinari pachyphylla Rusby Chrysobalanaceae
Tree with broad spreading crown 15 m tall in woods along small stream. Fts. tanony yellow.

7699A. Philodendron sharagdinum Bunting
Sterile vine growing on large boulder.

7699B. Cactus
Spawling cactus growing on laja outcrop stems triangular.
**Erythroxyllum williamsii Steudley ex Poirier**

**TYPE:**

*Tree 6 m tall with broad spreading crown, trunk 10 cm near base, growing in granite outcrop among shrubs + small trees. Bark fairly thick, exfoliating in large peppy flakes. Branches light grey-brown. Branchlets + twigs red-brown. Long shoots *appearing in one plane* with Shoot shoots perpendicular. Stipules minute, pale green, ciliate, not setulose.*

1. Us. held erect or pendent, medium shiny green above, smooth, the midrib only distinct, yellowish; Us. below paler greenish green, etiunate, exarreate.

Calyx + pedicel light green, pedicel somewhat thickened, filament cup equalling calyx, pistil ovary far exceeding calyx, short styles free. Fruit fruit shiny green.
first noted this plant nearby

Growing near statue of Mercurial statue, on black

rep. fairly frequent at this

locality.

fol. Tabebuia orinocensis (Send.) gallery

seed only ffs. & seeds found in ground on lava rock.

Fernandez

fol. Quataea aquatica HBK.

det. C. Nezgoda 1980

Ven

F

NY

slender shrub 3 m. tall in

woodland margin along small stream.

F15 yellow. Fruits yellowish.

Fruits metallic blue.

21 Feb 1979.

**7702. Sobralia liliestrunm hndl.**  Orchid.

Reed-like herb 2 m. tall forming large clumps among stumps and bromeliads on exposed rock. Fls. pure white, lip with yellow tinge.

**7703. Chaunochiton angustifolia Steunen**

Weak tree 5 m. tall with straight trunk and storied branches growing on exposed rock. Bark corky, in quadrangular cracks. Branches brittle. Crescent calyx dull salmon pink, turning brownish, fr. light green.
7704. Aspilia cf. rubra Aristeguieta Compst.

Ven F

Scandent subshrub 1.5 m. tall on riverbank at edge of rocky outcrop. Involucres green. Rays bright red. Tube florets yellow.

7705. Philodendron brevispathum Schott Arac.

Ven F

Climbing epiphyte on stream bank. Roots encircling small tree trunk. Frs. green.

7706. Erythroxylum macrophyllum Cav.

Ven F

Unbranched saplings 2 m. tall in forest understory. Lvs. dark green above, dull with large nerves slightly raised, midrib yellow-green; lrs. below pale grey on green with dashes green veins; midrib yellow, exarate, elongate. Stipules red-brown turning dark brown.
**Urospatha**

2 coll.  
*VEN-2*  
*F-5*

Tall herb 1.5 m. growing on open sandy beach along stream in forest. Lvs. sagittate above blunt at apex, rubbery, dark green above, slightly lighter green beneath, petiole with faint snake-like pattern toward base, hexagonal in section. Peduncle erect, light green throughout, 1 cm. tall. Spathe erect, not twisted, obliquely dark red purple; adaxially pole cream to greenish towards apex. Spadix dark green throughout anthers white, odor of rotten cherries. 

Arising from large rhizome at least 40 cm long, 8 cm diameter, cream color (resembling *Nuphar* rhizome) with numerous whitish thick roots.

SEL 79-679
FEB 2 1 1979

**408. Dioscorea amazonum** Mort. ex Griseb.

*det. F. Ayala 1986.*

High climbing liana with pendulous stems hanging over riverbank, infl. very long, Fls. dark purple, bleek, fleshy.

**409. Utricularia chiri biquitsensis**

*Fernandez-Perey*

Delicate herb on muddy flats along river bank in forest. Fls. bright yellow.

Forest immediately behind “El Tobogán” Camping Area.

**410. Spothiphyllum cannifolium** (Dry.) Schott

*det. R. Espat 1986.*

Herb on river bank to 0.8 m tall. Lvs. rubbery, dark green, tufted, pale green beneath. Spoth the petales white, turning yellowish green after anthesis. Spoth dais cream, turning greenish, odor of hospital. Frequent in wet places.
7711. Swartzia maguirei Cowan
    det. R.J. Cowan 1979

Tree 7 m. tall with pendulous branches. Calyx yellow-green.
Fruits dull orange.

7712. Curarea toxicofera (Keeble) Barnsby et al.
    det. B.A. Kruckoff 1979

Twining vines arising from horizontal stem 3 cm. diameter.
Lvs. semi-shiny dark green above, whitish beneath.

7713. Erythroxylum macrophyllum Cav.

Seapling 1.3 m. tall in forest understory. Lvs. dark, semi-
shiny above, 8th nerves prominent.
Lvs. glaucous; pell green beneath, exarate, elateate,
with slightly darker green reticulate nerves, mid-rib concolorous.
New lvs. glaucous-pruinose above.
Stipules pell green soon turning reddish brown.
7714. Heteropsis y. integerrima (Vell.)
(3) Staff. det. S. Mayo 1980
Tough vine climbing on tree
Leaves: Lvs. dark green above
yellow green beneath. Flowers:
H. Flexuosa (Kunth) Bunting var. Flexuosa
DET. C.S. Bunting 1989

7715. Psychotria planumensis Steyerm. Rubiae
(4) Paratype
Shrub 1.5 m. tall in hillside
forest. Rachis green, ovary +
calyx tawny. Fls. cream

Shrub 1.8 m. tall in hillside
forest. Swollen nodes with ants,
Growing near not in large ant
colony (super chacana). Fls.
cream

7717. Montagna papillosum Hagberg
(5) DET. M. Hagberg 1990
Frequent herb in forest and
along streams. Lf. sheath pur-
plished brown. Petals olive green
Pulvinus lighter olivine green. Lvs. dark buff-green above, paler glaucous green beneath; midrib beneath olive green. Inf. bracts bright red, immature.

**Dictyostega orobanchioides** (Hook.) Mirr

F714A. var. parriflora (Blth.) Terr. Binnam.


→ **Philodendron brevispathum** Schott det. P. Cress 1985


(5) Vine climbing on tree trunks along river bank. Lvs. rubbery, dark green, slightly lightened yellowish green beneath. Frs. Spathe + Spadix dark green. Frs. Shiny green, immature. Juvenile plants frequent on ground in wetter areas on upstream edge. Lvs. Variegated, dark green with silver mottling.
7719. Bactris humilis BURR. Pelmae.

(11) VEN 9c. Slender palm 1.5 m. tall.

VEN on stream bank in forest. F.R.S. green turning orange.

7720. Peperomia maypurensis HBK. (syn. P. ornata Yuncker)


VEN F Shrub 1 m. tall in forest. Fruits deep blue-violet.

7721A. Philodendron

(11) VEN only SEL, on large boulder with 7720, lvs. red-purple beneath. sel # 79-680.
F22. Phenakospermum guyanense

Complete 3

Seed 4

photos

(F) FR seed

VEN-4
F-9

Seed: Kress
SEL.
LAS Cruces
P.T.B.G.
BOG.
H.Kennedy
FTCR
F.I.U.
Waimiri

Gigantic herb 10-16 m. tall growing in hilly side forests and in flat ground along streams. Frequent.

Trunk brown, to 10 cm diameter, straight + cylindrical. Lvs. in one plane as Ravenala. Petiole 1.5 m. long, leaf blade 2 m long, 80 cm across, lanceolate ovate, truncate at apex, rounded at base. Leaves lustrous dark green above, pale green beneath. Inf. erect, arising from center + apex, about 2 m. long. Lower bracts light green, heavily pinnate, 6-8 cm, deciduous. Upper bracts + bracteoles past brown. Immature fruits shiny dark green. At maturity opening on 3 sutures. And dehiscing woolly, bright, red-orange, seeds black.+

Green fruit edible after roasting, seeds eaten.

Monocarpic. Only plants with old dehisced capsules seen, now with fls. Apparently synchronous flowering.
7723. Erythroxylum neoraxatum

Treelet. 5 m. tall with storied horizontal branches. Branches lying in one horizontal plane. Branches and stipules reddish brown. Leaf dark shiny green above with lighter somewhat lighter green beneath. Shiny, with lighter midrib, exarate, cuneate. Frequent as seedlings & sapling but no mature trees refer sterile.

7724. Solanum arborescens group

(3) Stems 1.5 m. tall on stream bank. Fruits green in forest.

7724a. Xylaria

(1) Greyish colored carpophores on rotten log along stream in forest det. P. Ponce de Leon 1972.
FEB 21 1979

7425. Erythroxylum ligustrinum DC. Eyrthex.


Shrub 4 m. tall with
steined erect main branches,
horizontally divericating
secondary branches, arising
from Stump 5 cm. in diameter.

Back dark tan, thin, flaking off
in small patches.

Lvs. dull medium green above;
very pale green beneath with
light midrib, venation very faint,
exarate, clinate. Stipules,
small triangular, 2-setulose. Stems
Frequent in dry woods above
"loja" on hillside. Lvs. seem to
be deciduous or semi-deciduous.
Many seedlings in area.

7726. Erythroxylum ligustrinum DC. Eyrthex.


Soil
live

F

VEN

NY

Mo

Cay

Col

F

spe

V (-)

pe

gaucescent
green
beneath, Oxarb
VEN 7727

F 22

22 February 1974

VENEZUELA: Territorio Federal de Amazonas: forest Ayacucho, banks of Rio Orinoco.

Fls. Gregaria (?)

Am Eugenia

Am Eugenia

Phyllanthus

Frequent shrub or river bank; high green, branches 3 in tuft; green leaves.

Aquatic herb on large boulder near edge of river, grows in water, covered with fine floating leaves. Flowers cream.
7730. Erythroxylum williamsii Standley ex Plowman
(7)

Shrub 4 m. tall with long slender erect branches growing in low forest or white sand or river bank. Trunk about 5 cm at base, brown, corrugate. Main portion with very thin whitish bark, green beneath. Wood very hard, light straw colored. Twigs reddish brown, verruculat. Lvs. dull, med.-dark green above, pale glaucous green beneath. Buds exstipulate, excrenulate. Thin membranaceous, sterile.

7728. Erythroxylum

Dried film in (7) from a planth.

(?) only tree on lava rock, recently burned.
7731. *Psychotria capitata* subsp. *inundata* (Benth.) Steyermark

**VEN**

Rubia

Shrub 1.5 m. Tall in riverine forest on sandy banks. Infl. Creamy white throughout.

det. J. A. Steyermark 1979

7732. *Byttneria aculeata* Jacq.

Scandent armed shrub. in secondary forest along Río Chuelo El Bagre. Fls. dark red-purple.

**VEN**

Scad-> CTES

F

NY

7733. *Helicteres guazumafolia* HBK.

Shrub 2.5 m tall with multiple stems from ground spreading outward. Calyx tube cream at base, red orange in upper part. Petals bright red orange. Stamen tube & filaments red.

P. STELIS (L.) KUJT COMBINED 1974, var. anontha

7734. *Phthinara retroflexa* (R. & P.) KUJT

Liana in riverine forest. Fls. pure white, fragrant.

det. J. Kuijt 1980
7735. *Oxalis frutescens* L.  

Subshrub in sandy river bench at forest margin. Fls. pale yellow, Frs. light green.  
det. P. Matekaitis 1983


Tree & m. tall with rounded crown. Fls. cream. Dam. fruits green.  

7737. *Davilla nitida* (Vahl) Kubitzki  

Woody vine in open sandy area above river. Fls. pale orange at maturity.  
det. P. Matekaitis 1984

7738.  

Tree 6 m tall along small stream (Ríoche, El Bege).  
Fls. creamy white.
7739. Hirtella racemosa Lam. var. racemosa
Shrub 2.5 m. tall in long virgati branches in margin of riverine forest. Rachis & calyx dark purple. Petals + filaments bright magenta.
det. C. Daggoda 1980.

7740. Prostia
Tree & m. tall on quartzite outcrop. Frs. shrun green turning reddish.

7741. Heliotropium indicum
Herb 1 m. tall in clearing in secondary woods along muddy stada. Frs. white.

7742. Anthurium stipurpureum
Epithic Rosette plant in granite outcrop, forming large mat.
Lvs. long petiolate, petiole 0

VEN E NY
VEN E K
VEN E US

A. bonplandii
5
5
2
2
5

Schott
2046. Slightly lighter green beneath, somewhat shinier both sides. Peduncle terete. Spathe caducous. Spadix brown.

7742A. Gossypium barbadense L.

Treelet 2 m. tall growing in open disturbed area. Fruits.

← A. fendleri Schott
23 Feb 1979. Alt. ca. 100 m.

Shrub 2.5 m. tall. F1s. pink. In. forest island.

Scandent woody vine among shrubs.
F1s. white, fragrant.

7745. Hiraea bifurcata W. Anderson. Molpigh
(2) sp. nov. 
Nearly leafless shrub 2 m. tall at edge of granitic outcrop.
F1s. Somewhat dried, dull orange.
(2nd collection)

(1) Vine with copper brown stem uncate. Twining through shrubs.

*Mimosa colombiana* Britt. & Killip. Legum.

7747

(4)

3 coll.

VEN: E=2 K

Treelet 5 m tall with spreading branches. Fls. light green.


(5)

VEN: MICH: F: U

Shrub 3 m tall at edge of granite outcrop. Calyx golden-brown. Petals dried tan. det. W. R. Anderson 1979

7749. *Vismia* (4)

VEN: F: NY: U

Standent shrub 1.5 m tall. Calyx green. Petals creamy.
7750. *Erythroxylum coca* (24)

Mnt 4 m. tall growing at edge of woods on sloping granite outcrop, with 3 main dried lux trunks 3-4 cm diameter. Bark smooth, whitish to light tan, thin. Branches fairly rigid spreading to perpendicular, brown with light tan lenticels.

Lvs. recently appearing, drooping (from dryness), bright yellowish green above, paler, glaucous green underneath, elliptate, crenate. Stipules light green, turning dark red brown with age, becoming striate on drying.

F. at last season's nodes, pedicels + calyx light green. Corona etc. past & for dried.

Only one seen.

VOUCHER

SPECIMEN


7753. *Pariana* Gram. (3) Clumps of grass in morichal

7755.

**Campylosiphon purpurascens** Benth.

Seprophyte in low wet swampy area in unriched, under
Phehako spernum, growing in
soft black mud suffused with
roots of various shrubs + herbs.
Stem, styles, infl. axis, bracts
+ calyx creamy white. Corolla
tube white. High, pale violet.

**F**
**U**
**VEN**

**A**

By

7756. Erythroxylum williamii. Standley ex

Plowman

Several erect shrubs, to 1 m tall,
Beping stage, growing at edge
of woodland or dry granite
'Tiza' quercrop. Stems greyish-
tan, twigs red brown. Lvs. thin
membranaceous, mid. to light
green above, pale glaucous green
beneath, elliptic, exarbo late.

Roots: Deep tap root

**F**
**NY**
**BU**

7756A. Erythroxylum

Photos only. Shored shrub on open kia.

- H. lancifolius (Holl. Arg.) Woodson

Branched shrub 2.5 m tall in sand along river in gallery forest. Abundant milky latex. Fils. pure white. det. A. J. M. Lecuwenberg 1984


Sparsely branched tree on granitic "Lejia" outcrop. Calyx deep purple. Corolla lighter purple.

7759. Eugenia americana L. Dillen.

Treelet 4 m. tall on granitic outcrop. Calyx cream. Frs. pale green, bright red within. Most frequent tree in this area.
FEB 23 1979

(Erythroxylum williamsii) Stendley ex Plouman

Tree 5 m. tall with trunk 15 cm. near base. Bark light tan to whitish, peeling in large thin plates. Often branches knarled. Flexuous with stiff short shoots, often lichen-covered. Young twigs reddish brown, thin, slender. Lvs. newly opened bright yellow-green above, very pale green beneath, exarate entire. F1s. on last season's short shoots. Calyx light green, young fruit light green. Young growing on large granite outcrop against large boulders.
7761. Pothirusa
Ven (5) F U
Host plant parasite on unidenti-

fied tree. Frs. green.

7762. Bredeimayera
Ven (5) F NY U COL
Shrub 2.5 m. tall at edge
1. Gallery forest along river.
Frs. still green.

7763. Hymenaea courbarili L.
Ven (4) F NY U
Legum.
Tree 15 m. tall with broad
Spreading crown, 20 cm DBH.
On roadside near bridge.
Trunk lt. green. Sepals lt. green. Petals
Cream.

7764. Jacaranda obtusifolia H.A.B.
Ven (4) MO F U
Var. obtusifolia
Tree 6 m. tall on top of
large rocky "lajio" outcrop.
Frs. green.
VENEZUELA: Districto Federal.
Along roadside at "Monte Grappa",
turnoff 1 km. before town of
El Junquito. Alt. 1950 m.

27 Feb 1979.

7765. *Cestrum lindenii* Dunal
Tree 6 m. tall. Corolla tube
yellow-green. Limb cream.

*Solanum*

7766. [lycanthec] *xylopii* folium Dunal
Tree 1.5 m. tall in open
disturbed woods. Fls. white.

7767. *Solanum chlamydocyanum* Bitter
Tree 8 m. tall. Fls. white.

7768. *Phytolaca* RIVINOIDES KUNTH
Herb 0.6 m. tall at forest
margin. Stems, petals + peduncles
deep magenta. Fls. pink.
det. N. Hensold 1990

7768A. Anthurium aff. *Nymphoides* linum
we only saw the herm on road back.
FEB 2 7 1979

7769. Peperomia peltoides Kunth
(2)
VEN
F

Trailing succulent herb on forest floor and on fallen trunks. Stems light green, purple just above each node. Petioles red-purple. Lfs. bullate, Shiny dark green above, pale dull green beneath.

Mixtures:
7770. Chusquea fendleri Munro
VEN
F
US
K
Bamboo
(6)

Sprawling bamboo forming dense thickets; all in flower and dying off.

7770A. Rhipidocladum - sterile sheet grown with 7770.


Montane cloud forest.

7771. Eschscholzia paniculata (R+P) R.T.S.
VEN
F
U
3

Shrub 2 cm. tall on exposed ridge zone highway. Lfs. White.
7772. *Gonioandron tagua* (H.B.K.) D. Don

(4) → *Gonioandron lanceolatum* (Ridl.) Baehni

VEN u

F MY

Treelet 3 m. tall on exposed ridge above highway. Fls. pure white. Fst. carmine yellow.

det. J. Kuij - 1980

7773. *Anthurium brede Meyer* Schott

F (2) Ever terrestrial herb or shrub on steep hillside in forest. Petiole terete,

Reduncle terete. Spadix light yellowish green.

Inf. lost!

7773A. *Anthurium*

Selby luneq Cordata 1f.

7773B. *Anthurium*

Selby luneq Cordate 1f.

7773 C. *Anthurium*

Selby luneq Cordate 1f.
VENEZUELA: Estado de Sucre.
About 20 km. SE of Cumaná,
on road to Cumanácoa. Hills
above Río Manzanares near Cerro
La Espera. Dry tropophilous forest +
open thicket. Alt. 40-80 m.
2 Mar 1979.

7774. Protium
Bursea

(6) Tree 7 m. tall among boulders.
Figs. greenish yellow. Sap aromatic.

7775. Securidaca

(4) Liane in open thicket on rocks.
Calyx pale yellow green. Wings
magenta. Standard cream. Keel
cream with magenta limb.

7776. Memora Patula Miers
Bignon

(2+2) Vine in open thicket along
river bank. Breeets light yellow
green. Corolla tube yellow
orange, lobes light orange.
Det A. Gentry 1979.
7777. *Arrabidaea mollissima* Bignon

(HBk) Bar. & K. Schum.

Vine in open rocky hillside.

Calyx purple-black. Corolla deep magenta.


7778. *Banisteriopsis muricata* Malpigh

(Cav.) Cuatr.

Liana in open forested thicket. F.R.S. brown.


7779. *Piper tuberculatum* Jacq

Evergreen shrub 2 m tall in rubbish heap by house. Spikes creamy yellow turning pale green.


7780. *Securidaca*

Climbing vine in open roadside thicket. Wings light magenta.

Standard light magenta with yellowish cream spot at base. Keel magenta throughout.
7781. Bignon
unicata
VEN
Calyx dull crea. Corolla tube white, tip usually pale lavender, lobe lavender.

7782. Cenaria
VEN
Shrub 1.5 m. tall in open rocky hillside. Fg. yellowish.

7783. Ouratea grossordylii (Van Tiegh.) Steyerh.
VEN
Prickly shrub on steep exposed cliff above road. Petals bright yellow. Anthers deeper yellow.

7784. Hirtella racemosa var. hexandra
VEN, NY

7784A. Acrocerdium occidentale
Photo only cliffs.

Wild shrubs on steep rocky
7785. Anadenanthera peregrina (L.) Speg.

**VEN**

(Frequent) tree 6 m. tall.
with rugose-protuberant trunk.
Fr. brown.

7786. Bredermeyera fumiculata

**VEN**

Scandent liana in rocky hillside.
Wings white. Keel and standard yellow. Frequent.

7787. Phryganocydia corymbosa

**VEN**

Vine in open rocky hillside.
Corolla tube white, limb pale lavender. Fr. green.

7788. Guadua

Bambusa paniculata

**VEN**

Extensive bamboo on open dry rocky hillside. Culms olive green
to yellow-orange.

(2) Vine in open rocky hillside. Abundant white (latex). Fls. yellowish green. 


7790. *Cordia bicolor* A. DC. Boreag 

(3) Tree 6 m. Tall on rocky slope. Fls. White, much sought by bees. 


7791. *Gossypium barbadense* L. Melvec. 

F (3)

VEN CTES 

Tree 5 m. Tall, growing near abandoned homestead. Seed 

fibers pinn white.

7792. *Anacardium occidentale* L. Anecon. 

(5)

VEN LA 

F DEK 

Fotos 

Fruit 

creamy yellow suffused with pink. Receptacle red orange. Fruit dull brown. 

Frequently cult. & wild at this locality.

large tree 20 m. tall
along river bank. Frs. green

7794. Agonandra cf. brasiliensis Mart.

Tree 12 m. tall along
river bank. Branches plume-
loos. Frs. light green, 26-
scissing immediately.
VENEZUELA: Estado Sucre.
Quebrada west of Mochima, ca. 2-3 km. below main road Cumaná-Santa Fe 18 km SW of Cumaná. Alt. 850 m.
Steep rocky quebrada on hillside.
3 March 1979.

7795. Erythroxylum densum Rusby. Erythrox. (5)
  "v. cerecita"
  Treelet 5 m. tall in wooded quebrada, leaves variable in size.
  It - medium green above, dull, pelliculose green beneath, with
  lighter areole e & /or distinct linear, deciduous, sterile.
  Trunk grey, 3 cm dien.

7796. Erythroxylum undulatum Plowman (4)
  "v. cerecita"
  Tree 8 m tall 6 cm DBH.
  Bark black-brown, rough, roughly craked longitudinally & tran
  versefly. Branchlets grey-brown.
  Leaves dull dark green above,
  slightly shiny beneath, exarate,
7797. Pleonotoma

Vine in tree tops. Corolla Felipe yellowish, limb orangish purple.

7798. Visinia guianensis (Aubl.) Choisy

Shrub 2.5 m. tall in open hill side. Very frequent. Petals yellowish.

7799. Erythroxylum densum Rusby Erythrox.
Mar. present or absent.
Sterile. Deciduous. Frequent.

7800. Erythroxylum steyermarkii Plowman
(n.v. "cerecita"
Treelet 5 m. Tall with 3
Main trunks. Trunks 3-5 cm.
Diameter near base, bark
Smoothish, grey, becoming darker
grey-brown, somewhat cracked.
Branches grey-brown. Twigs
dark reddish brown, ramenta
chicker brown.
Branches erect-spraying, ul-
timately horizontal, with many
short shoots in same plane.
Lvs. light green, dull above.
Veins less prominent, slightly
darker green.
Lvs. pale green, green beneath,
Nerves + veins less distinct, darker
green, slightly coarser. Deciduous.
Stipules pale green, very soon turning
brown, distinctly striate.
Sterile.
Vein lets remain after bag mine attacks \( \rightarrow \) sclerotized?

Very frequent in the quebrada but not found on the adjacent hillsides \& ridges, as with other 2 spp. found here. Most trees \& this sp. completely leafless, only this one in uppermost part of quebrada in well shaded place having leaves. Habit of \( \text{E. ornocenc} \).

7:00 A.M.  

Erythroxylum steyermarkii Plowman Seedling 1 m. tall.  

10:30 Several young plants seen.
7801. *Erythroxylum steyermarkii* Plowman

VEN

NCUI

F-2

CIS

MG

MO

n.v. 'Clrecita'

Thrs. 4.5 m. tall; nearly
Leaves. Twigs blechish
break

Same as 7800.

VEN NY F-2 U

shrub 3 m. tall on exposed rocky hillside. Lvs. corola-

fragrant. Fls. creamy yellow.

7803. Secondaria densiflora DC. Apocyn.

VEN FKU GHNP NY

vines in treetops. Fruits pendulous light green.

7804. Messeria quinquefolia (L.) Hall.

VEN FU Fls. pure white.

7805. Chamaenerion hispidula (Vahl) Leg.

VEN F

sticky suffrutescent weed on open roadside. Fls. deep
yellow.
7806. *Dalhania scandens* L. *Euphorbiaceae*

(3)

Twinning vine on dry open roadside. Fls. green throughout. Hairs irritat­ing.
VENZUELA: Ed. Sucre, Environs of Cumene. One km.
2 km. South of Playa San Luis
3 km. South of Cumene on road to Puerto La Cruz, low-lying secondary forest on
southeast side of road.
Sea level.
3 March 1979.

7801. Diospyros

Tree 8 m. tall. Frs. light green.

7808. Pithecellobium oblongum Benth.
Prickly shrub 2 m. tall.
At forest edge. Frs. white.
Frs. red, seed black with
white area.

<3>
Tree 6 m. tall on forest
margin. Frs. white

not. matched at F)
Juncus emerusense HBK.

Stems 2 m. tall in understory of secondary forest. Branches grey brown, branch to 1 cm. at base. Lvs. dull dark green 2.5m., pale dull glaucous green beneath with or without peltate adaxial region, with or without mes (very variable even on same plant). Cf. membranaceus.

Sterile. Type locality of this species.

Juncus emerusense HBK.

Stems 3 m. tall in flexuous long apical branches. Other data same as 7810.

Type locality of this species.
7812. *Erythroxylum cumanense* HBK.

Shrub 2.5 m. tall. Data same as 7810.
Type locality of this species.

7813. *Erythroxylum cumanense* HBK.

Shrub 2.5 m. tall. Different plant. Data same as 7810.
Type locality of this species.
7814. **Pfeffia** *resinoides* (HBK) Ktze. **Amaranthaceae**
7815. **Eugenia** (2) **Myrtaceae**

**Notes:**
- Ernest shrub 1.5 m. tall in open field. 1-15 greenish white.
- Tree 4 m. tall sterile. *Erythroxyllum mimicum*
VENZUELA: Distrito Federal.
Barquisimeto, Jardín Botánico.

Reflected hills behind garden.
Alt. 900-950 m.
5 Mar 1979.

7816. Erythroxylum [aff. densa Riedl.]

Treelet 4 m. tall in wooded quebrada or steep slope. Lvs. med. green above, dull; pale dull glaucous green beneath, arillate, more or less truncate, with finely reticulate venolets. Stipulas light yellow-green.

Sterile. Lvs. newly formed.

7817. Erythroxylum cumunea

Tree 6 m. tall in semi-open hillside along trail. Branchlets stiff, tough, grey, often at nearly right angles to exis. Lvs. shiny light green above, costa yellowish, pale dull glaucous.
green beneath, nerves & veinlets darker green; distinct, areolar region usually distinct but lines usually not present. Deciduous, sterile.

7818. *Erythroxylum cumanense* HBK.

Treelet 5 m. tall in thin forest on steep dry slope, along trail at forest edge. Much branched, branches stout at right angles to 2x's, gray-brown. Lvs. Shiny light green above, with lighter green midrib; lvs. pale glaucous green beneath with faint dark reticulate veins, subarculate, elaterate.

7819. *Erythroxylum cumanense* HBK.

Treelet 4 m. tall in semi-igne thicket along trail. Branchlets rigid, tough, tan. Lvs. shiny above, light green, veinlets prominent;
MAR 5 1979

1 y.s. peli gleum cones green beneath
veils somewhat darker, areola
somewhat lighter, etinate!

Thielea

820. Thielea
F (1)
seedling

Simira crythroxylon (Willd.) Brem
8 Oct 1981 - pressed

Tree 8 m. cult in Bot. Gard.

2 plants → PTBG,
2 plants → Foster
Pennsylvania: Sullivan County
Hillgrove Twp., Spraw Swamp on road to
High Knob from Rt. 87. Elev. 1900 ft.
10 June 1979.

7821. Regalles
(1) Orange discomycete on rotten
F hemlock wood.

7822.
(1) Club-like fungus, whole
F sporocarp creamy-yellow.
Growing on rotten leaves of
Acer saccharum in Swamp.

7823. Marasmius
(1) Ten sporocarps on rotten leaves
F or Acer saccharum in wooded
Swamp.

7824. Pycnoporus sanguineus
(1) Bright orange fungus on
F rotted wood of hemlock in
Woodland Swamp.
Pennsylvania: Sullivan County: Hillsgrove Twp. Ogdonia, along Kettle Creek Alt. 826 ft.
10 June 1979.

7825. Oxalis montana Raf.
(2) Herb on forest floor under hemlock. Petals white, streaked pink.
F

(2) Herb on forest floor.
F
Fls. pale green.

7827.Mitchella repens L.
(3) n.v. "partridgeberry"
F
Prostrate creeping herb in hemlock forest. Fls. red.
PH
BM
Fls. white.

7828. Robinia pseudo-acacia
(2) n.v. "Black Locust" Tree 10 m. tall on roadside.
F
Petals white.

7829. Mitchella diphylla L. Briq.
(4) Herb in forest margin in rich woods along stream. Fls. green.
PH BM GH
7830.  
(2)  
**Tiarélla cordifolia** L.  
**F** Herb in rich woods along streams. **FRs. pale green.**

7831.  
**Asarum canadense**  
(2)  
**F** Creeping prostrate herb in rocky woods. **FRs. dark chocolate-brown.**

7832.  
**Genus**  
(3)  
**F** Herb in rich woods. **FRs.**  
**PH** yellow.

7833.  
**Osmorrhiza**  
(4)  
**Claytonii** (Michx.) B. Clarke  
**Raf. Sweet Cicely**  
**F** Herb in rich woods. **FRs.** white. Stems and pedioles dark purplish, with odor of...
7834. *Ranunculus acris*.  
F  Herb on open roadside at forest margin. Fls. bright yellow.

F  Tree 6 m. Tall in spreading branches; smooth grey bark. Bracts yellowish green.  
F  v. "Hop Hornbean"

7836. Callitriche heterophylla Pursh.

7837. Caulophyllum thalictroides Rununculace. F. (1) Herb in rich woods along stream. Frs. immature, green

7838. Senecio aureus L.
F. (4) Erect herb in sandy wash along stream. FIs. deep yellow

7839. Apocynum sibiricum Jacq.
F. Erect Herb in shallows of rocky stream. FIs. Cream.
7840. Iris pseudo-acoris
F (1) Herb in shallows of rocky stream. Fls. bright yellow.

7841. Carex intumescens Rudge
F PH

7842. Carex baileyi Britton
F (1) Cespitose herb. in sandy wash on island in stream.

7843. Allium canadense L.
(3)
F BM PH

F (2) Scandent herb in full sun in rocky wash along stream.
F15. White.


7846. Ranunculus repens L.


7847. Arisaema triphyllum s.l. (L.) Schott


7848. Veratrum viride Ait. var. viride

7848. Coarse herb 1.0 m tall in rich woods along stream. F15.
7849. Anemone Thalictrum dioicum L.
F Herb in sandy wash on Island in stream. Filaments white, anthers bright yellow.

7850. Arisaema dracontium

7851. Iris versicolor L.
F Rhizomatous herb in rocky wash along stream in running water. Fls. light blue-violet.

7852. Ranunculus abortivus L. (3)
F Herb on moist road bank in rich woods. Frs. Lt. green.

7853. Habenaria (1)
F Fragile herb growing on in open swamp among sedges. Frs. cream.

7854. Coptis groenlandica (1, Order) Herr. (2)
F Herb among mosses on fallen logs in swamp. Frs. green.

7855. Dryopteris spinulosa (O. F. Mecel) DC. (2)
F Herb in rich moist woods at edge of swamp.
7856. Veronica
(2) Erect herb in standing water among sedges in open swamp in hemlock forest. Fts. pale blue-violet.

7857. Fragaria virginiana Duches.
(2) Stoloniferous herb on open roadbank at woodland marquis. Petals white.

7858. Lycopodium clavatum l.
(2) Creeping herb in rich woods on slope.

7859. Viola
(1) Herb in woodland swamp. Fts. very pale violet.

7860. Saxifraga pensylvanica
(2) Rosette herb in open swamp among sedges in rich woodland.
Imm. fruits green.

7861. **Cornus alternifolia** L.
(3) F
TH BM
Treelet 3 m. tall on slope in rich woods, mostly hemlock.
Fls. white.

7862. **Polystichum acrostichoides** (Michx. Schott)
(1) F
Rosette herb on steep bank along road in rich woods.

7863. **Antennaria neglecta** Greene
(2) F
Rosette herb on steep open bank along road. Capitula silvery white.

7864. **Dryopteris Oristata** (L.) Gray Jenu
(2) F
Herb at edge of woodland swamp.

7865. **Rubus**
(2) F
Prickly, scandent shrub on open road bank. Petals white.
7866. Caltha palustris
  (2) Herb in open woodland
  Swamp in standing water
  Frs. H. green.

7867. Botrychium virginianum (L.) Sw.
  (1) Herb in rich woods.

7868. Ranunculus hispidus Michx.
  (4) Herb in standing water
  Among sedges in open wood-
  land Swamp. Petal yellow.

7869. Carex folliculata L.
  (3) Herb in open woodland
  Swamp.

7870. Carex trisperma Dewey Cypereae.
  (3) Herb in open woodland

  (4) Herb in open woodland
7872. Lycocodium annotinum L. (1) Creeping herb in rich woods on slope.

7873. Lycocodium obscurum L. (1) Erect herb with creeping rhizome on slope in rich woods.

7874. Osmunda cinnamomea (2) Fern in open swamp in rich woodland.


7876. Acer pensylvanicum L. (2) Small tree 5 m. tall in rich woods on steep bank along road. Fts. light green.

7877. _Ranunculus repens_ L.
(3) Creeping herb on muddy shore of stream. Petals bright yellow.

7878. _Alopecurus pratensis_ L. (moist) F (1) Grass in disturbed area along stream.

7879. _Galium obtusum_ Bigel.
(2) Sprawling herb in moist, disturbed site along stream in full sun. Fls. white.

7880. _Penstemon digitalis_ Nutt.
(3) Herb to 1 m. tall in moist disturbed site along stream. Fls. white.
7881. *Staphylea trifolia* L.
(3)
Small shrub 2 m. tall in forest along stream. Imm. fruits light green.

7882. *Physocarpus opulifolius* (L.) Maxim. *Rosaceae*
(3)
Shrub 2.5 m. on open stream bank. Petals white. det. T. Plowman 1979.

7883. *Erigeron philadelphicus* L.
(3)
Herb in moist disturbed site along stream. Rays pale pink to white.

7884. *Triosteum Anglet* 'Haburn Caprifolium* *Asteraceae*.
(2)
Herb in open woods on slope. Frs. green.

(3)
Shrub 2.5 m. tall. Lvs. aromatic. Frs. immature, light green.
7886. *Smilacina racemosa* (L.) Desf.

(2) Erect in woods on slope.

F PH Immature green.

7887. *Toxicodendron radicans* (1) Terrestrial woody

F Vine in old field. Fls.

greenish yellow

m.v. "poison ivy"

7888. *Apoecynnum cannabinum* (2)

F Erect herb 1.2 m. tall.

PH Stems with abundant white latex. Fls. creamy white.

7889. *Senecio aureus* (perennial) (2) Erect herb in old field.

F Rays & disc deep golden yellow.
Lonicera japonica Thumb.

(F) Strangling vine in old field.

Fls. white, turning dull yellow, very fragrant.

(BM) Forming extensive thickets in woods and fields.

(PH)

891. Ranunculus recurvatus Poir.

(2) Herb in rich woods or slope.

Fls. green.

(PH)
28 July 1949.

7892. Anthurium podophyllum


7893. Anthurium versazurfae


7894. Anthurium Croazii Madison

(F) Cult. herb, aseemelent. Petiole in section, dull green. Lvs. firm membraneous. Spathe 1/3 green, reflexed, indented at margin. Spadix pale purple primrose.
Ex. Proumaz & Kennedy 5655


*Brugmansia × insignis*

F
Bedford, Mass. Coker's Plant.
Ex. F. Lockwood Collection.


Monterey County. Salinas, along the Carmel River

*Cerocephalum conicum*  liverwort. (L.) Dumort.

(2)

F
Liverwort growing on sandy stream bank.
Philippino Market.

7847. *Cucurbita moschata* (Lam.) Poir.
Det. T. Andre's 1989
F
Flowers and shoots sold as pot herb. F15. yellow-orange.

7848. *Momordica balsamina* L.
F.2
Leaf shoots sold as pot-herb.

7849. *Momordica balsamina* L.
F
Fruit sold as vegetable. Oblong, light green, surface warty.

7908. *Ipomoea aquatica* Forsk.
F
Vining herb with semi-succulent stems, no milky latex. Sold as pot-herb.
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<th>No.</th>
<th>Name</th>
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<tbody>
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<td>7904</td>
<td><em>Simira</em></td>
<td>Seedling, cult. at U. Chicago greenhouse. Grown from seed collected at Jardin Botanico, Cuzco. 3 July 1978.</td>
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</table>
California: Marin County,
Tompales Bay, Inverness.

7906. Rhamnus californica Esch. 
(3) det. C. Niegoa 1980.
Shrub 4 m. Fruits
yellowish green.

7907. Photinia frutifolia Lindl. 
(2) Tree 5 m. tall. Lvs.
Shiny above. Fls. white.

7908. Arctostaphylos viridis Eastw. 
(2) det. C. Niegoa 1980.
Shrub 1.5 m. Frs. dull orange.

Tree 4 m. tall. 8 fts.

7910. Quercus agrifolia Née.
(3) Shrub 2.5 m. tall in
oak-pine woodland.
California: Monterey County. Cachagua Valley, along the Carmel River.  

7911. Flex Rhamnus crocea Nutt.  
(2) Shrub 3.5 m. tall. Fruits red. Lvs. shiny. Dry, dry hillside scrub.  
det. C. Niezgoda 1980

7912. Symphoricarpsus rivularis Sksd.  
(1) Shrub 1 m. along stream in woods. Berries white.  

7913. Eriogonum  
Polygona.  
(3) Shrub 1 m. tall forming extensive mat in sandy wash. FIs. cream.

7914. Clematis lasiantha Nutt.  
(2) Herbaceous vine in open sandy wash. FIs. greenish white.  
ssp. *latifolia* (Hook.) Keck.

7916. *Composit.*
Suffrutescent in open sandy wash. Fls. golden yellow.

Ernst shrub 2.5 m. in open pine-oak woodland. Fls. red. det. C. Niezgoda 1980.

7918. *Linanthus hortonii* (Curran) Greene
Ephemeral herb in open dry meadow. Fls. pale lavender.
7919. _Eriogonum_  
_Polygonaceae._  
Prostrate herb in open sandy wash. Fls. cream.

7920. _Lotus_  
_Leguminosae._  
Erect herb in open dry meadow. Fls. peli green.

7921. _honicer a subspicata_ $\times$ _A._  
_Caryophyllaceae._  
Erect subspicate thistle 5 mm. tall in hillside thicket. Fls. cream, sweet scented. Young fruits green.

7922. _Alnus rhombofolia_ Nutt.  
_Weeping willow._  
Tree 6 m. tall in woods along river.
7923. *Trichostema lanceolatum* Bent.  
(4) Photo  
F  
CAS  
GH  

'Strongly aromatic herb in dry open meadow. Fls. light blue, visited by honey bees.'

7924. *Asclepias californica* Greene  
(2)  
F  

Silvery herb 1 m tall in dry open meadow. Fls. green.

7925. *Plantago*  
(2)  

Rosette herb in dry open meadow.

7926. *Eriogonum*  
(2)  

Rosette herb with long scape growing in open sandy wash.

7927.  
(1)  

Slender herb on moist streambank in woods.  
Fls. white.
7928. Toxicodendron diversilobum
   (2) N.v. "poison oak"
   F Shrub 1 m. tall in oak-pine woodland. Frs. white.

7929. Helianthemum decurrens (Less.) Vatke Comp.
   (3) Tall herb 1.8 m. in moist riverbank. Frs. yellow.

   (3) Rosette herb in open sandy wash. Infl. to 5 m. tall.
   F Frs. light brown.

7931. Quercus
   (2) Tree 8 m. tall, in open dry woods on gentle slope. Lvs. green above, whitish beneath.

7932. Quercus
   (1) Spreading tree 5 m. tall.
   In dry open woods on gentle slope.
7933. Umbellularia californica (H. & A.) Nutt.
(2) "California Bay Laurel"
Aromatic tree 5 m. tall on moist wooded hillside. F.R.S.
Shiny green.
Iwu. used in cooking 20 spic.

California: Santa Clara County

7934. Diospyros kaki
(2) "persimmon"
Cult. tree 8 m. tall.
F.R.S. light green.

7935. Juglans regia
(2) "walnut"
Cult. tree 8 m. tall.
F.R.S. light green.
Alkaline Samples Chewed with Coca:

1936. From Vicia faba
"Llippa" = made from ashes of roots of Vicia faba.
Puno Market, Puno, Peru.
15 Feb. 1975. These flat wide elliptical cakes.

1937. From Chenopodium quinoa stems.
"Llippa" = made from ashes of stems of Chenopodium quinoa.
Puno Market, Puno, Peru.

1938. Toora de Quinua
Chenopodium quinoa Willd.

1939. Toora from Toknay roots.
(cf. Plowman 4724, "toknay" = Vernonia sp.).

Sent to L. Rivier.


Amorphous balls.

Bought in shop in Machu Picchu, Prov. La Mar, Dept. Ayacucho, Peru. 5 Jan. 1975.

Amorphous lumps.
7940. *Tocra de Quinua*

*Chenopodium quinua* Willd.
Spherical balls.
Bought in market, Cusco, Peru. 15 Jan 1975.

"Llacta, Lejía."

Purchased in small shop in
not sent
Guaqui, Dept. la Paz, Prov. Ingavi, Bolivia.
Spiral shape.

7942. *Tocra* - unknown source.

Market, Cerro de Pasco,
Dept. Pasco, Peru.
Sent to
L. Riviere
Small "fingers," whitish.
April, 1976.
(collected by W. J. E. Kress)
1943. *Mambe*

Crude fine prepared from limestone from El Estrecho, Río Magdalena. Purchased at San Agustín de Huila, Colombia. August 1974.

1944. *Llpta de Quinua*


1945. *Llpta de Quinua*

7946. *Chenopodium pallidicaule*
Sellén
Llippi de Cañihua
sphere (not cylinder)
Llippa made from ashes
Purchased in market
Pucarámbbo, Pro. Pucarámbbo,
Dept. Cuzco, Peru, by
E. + C. Franquemont,

7947. *Llipta de Theobroma Cacao*

Purchased in Chinchero
Market. Made in Quillaabamba,
Pro. La Convención, PERU,

Sent to
L. Rivier

Purchased by E. + C. Franquemont.
Amorphous mass.
1948. *Llipta de Cañihua*

*Made from Cañihua in Puno (Chenopodium pallidicaule Aellen).*


1949. *Llipta de Cañihua*

*Made in Cusco from Cañihua (Chenopodium pallidicaule Aellen).*


1950. *Llipta de Quinoa + Cacao*


7952. Mussafia hyacinthina (Stud.) Send. & Bign.  
Chamizo  
Det TP 1981

Bought in market in Tingo Maria, Huancayo, Peru.  
5 July 1978.  
Said to be brought from Chanchamayo Valley.  
Used with coca.

7953. Cal  
Purchased in shop in Trujillo, Peru, by Jeffrey  
Sent to L. Rivier MacElroy. 1976

7954. Cal de Mariscos  
Live made from seashells,  
Sent to... for coca chewing.  
Purchased by A. F. Weil  
Chicago, Field Museum. 12 Oct 1979

7955. Hypoestes sanguinolenta
  det. W. Grime
(2) Acanth.

F US

Herb 1 m. tall cult. in pot. Lvs. green, with pale pink spots. Buds coppery. Corolla violet.

University of Chicago Greenhouse. 10 Oct 1979

7956. Anthurium
(2) (1+1) Arace.

Bird nest anthurium cult. in pot. (Grown for years in Cambridge, orig. uncertain but check early cult. collections).

Petiole 1 in section, lv. coriaceous with knife-edge mid rib above. Spathe purplish. Spadix purple-brown. Roots white, deep pink within.

Sept 10, 1979 Chicago: Lakefront at Belmont Rocks,

7957. Nelanthus annuus L. Comp.
(1) Tender herb 1.5 m. Reys yellow.

7958. Cenchrus brownii var. urbanum
(1) Comp.

Ive xanthifolia Nutt.
(1) Tender herb 1.5 m in refuse.

Fr. green. det. M. Nee 1982.
Chicago, Ill. 10 Sept 79.

7959. Kelloggia elegans
(1) = Talbotia elegans (Oliv.) Balf. ut R. 1933
F
Cult. herb. fls. creamy white.

22 Oct. 1979. Univ. of Chicago

7960. Bromelia cf. scarlatinia S. Moreno

Rosette herb 50 cm. across.
Upper leaves with inner
bright scarlet at base, up to
half the leaf blade. Breeds
scarlet without. Inner
breeds milk-white.

Ovary + style white tomentum.
Corolla tube white, fleshy,
lobes purple abaxially, purple with distinct white
margin adaxially; white tipped.
Anthers white, lobes recurving slightly at anthesis.

From Plowman et al. 7032
Collected at Petros, Dept.
Loreto, Peru 1977.
1 Oct 1979 Harrisburg, PA.

7961. Quercus acutissima Carruth.
(F)

6780 Hickory Lane.

Cult. in field as game food.

Native of Japan, Korea, China.

Field Museum 24 Oct 1979

7962. Miscanthus floridulus (L.) Willd.
(F)

Stem from a broom in Anthropology collections acc. # 258852.

Collected in Japan: Kyushu.

Kagoshimi-ken, Satsuma-gun.

Kamikoshiki-mura. Eishi.


Chicago, Ill. 23 Oct 1979

7963. Abutilon theophrasti
(2)

F

Weed in vacant lot at

Montrose + Clarendon

F15. Deep yellow.

7964. Hibiscus trionum
(1)

USM

Prostrate herb in mowed field at

1 Nov 1979

**1965. Stevia rebaudiana (Bertoni) Bertoni**

F

Cult. herb at Field Museum, grown from cutting received from Univ. of Chicago greenhouse.

Fls. white. Lvs. sweet to taste.

**1966. Piaranthus sp.**

F

Cultivated as house plant.

Commercial source.

Creeping succulent herb.

Fls. pale yellow with fine, dark purple lines within.


1967. Lechea

F

Durham, Stratford Co.


Herb in open, mowed meadow along shore.
Chicago, Illinois.
Cultivated plants.

1968. Anthurium bakeri
(1) Cult. herb. Spathe green.
F: Spadix green, fruits bright red at maturity. 15 Nov. 1979.
Purchased at Fastastic Gardens, Miami, Fla.

1969. Brunfelsia americana L.
(1) [(x B. lacatea (Kr. & Urb.)]
F: Unbranched shrub 1 m. tall, grown from seed. Fls. creamy white, turning yellowish with age.
10 Nov. 1979.

24 Nov. 1979.
7971. Rhipsalis

F Cult. epiphytic herb

7972. Inga feuillei DC.

F Treelet 2 m. tall cultivated in pot as house plant. Sterile.

7973. Corchorus alatus Linn.

F Flowering shoots sold F K as pot herb in Filippino BH Grocery Store, Wilson & Eton, Sheridan Sts., Chicago.
Fls. yellowish-orange.

M.V. "Saloyo." 24 Nov. 1979

1974. Brunfelsia undulata Sw.

(2)


1975. Costus cuspidatus (Nee & Martius) Maas

(1)


(1)

(1) 
Croizat Collection: Alto Orinoco, 1951.
Headwaters, place called
Igüato, Field Steyermark

Phenakospermum -
Santa Elena, entrance to Gran
Ávaba, km. 120-125
Tall forests bordering savannahs.

cf. Field Museum article 1945.
Thesis: Repro. Biology 9 Plants at
Bosque de IVIC, Alto de Piqu.7
Bosque montañoso siempre verde.
1400 m.
Erythroxylum amazonicum
Fis. May - Dec
FRs: all year long.
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27 Meals $25
taxi $30
28 Meals $32
taxi 30
1 Car to Carma $45
12x1 b Mews
Circa $13
Meals $48
2 12x1 b Queen
$32 Meals $28
3 Rent a Car $105
Meals $26
4 Home to Caracas
$135 + 4
Bus $14
Meal $61
5 Meals
6 Meals
7 Meals
$28