Acc 12-053

Killip Field Notes, # 33000-35696

1939

Columbia Cacti /

Wundermann

Monats. Deutsch.

Kakt.-Gesell.

~~fr 3~~ Jan. 1932

hp 3 sq.

2 plants received from
Mun. Org. 4/9, both orchids
from forest
near Chermal

Brom = ? dryanderac
Kam

Orch = "Guereus" with
same dope as 34911
Cavendishii guereus

Bromel, collected at
San Antonio
34912

Standard Blank Book

No. 67½

Journals Double \$ and Cts. no Units
Cash Books " " " "
Day Books " " " "
S. E. Ledgers " " " "
D. E. Ledgers Full Page Form "
Long Day Books "
Records with Margin Line

In 150, 200, 300 and 500 Pages

Made in U. S. A.

Planty Notes

born (3) = 6

19. 33210 (lt.) com = 2 145 35 458
33211 (rt) m = 2 148. 35502
20. 33100 - com (4) = 6 128
24. 33337 - com (10) = 13
26. 33350 - (4) com m = 3
41. 33610 - 1
54. 33711 - com (3) = 5
56. 33826 - bcf = 3
62. 33942 - com Bulb 7
63. 33943 - com Bulb - 4
64. 33944 - com Bulb - 3
69. 33948
81. 34153 - (1) g = 2
82. 34099 - com (2) = 6
85. 34349 - com (1) = 4
88. 34507
89. 33628 (2)
96. 34540 com = 2
97. 34540 com = 2
98. 34540 com = 2
100. 34704 com (2) = 5

Mat.
p4
made
Oct. 39

Standard
Blank
Books

No. 67½

Journals Double \$ and Cts.

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Day Books " " "

S. E. Ledgers " " "

D. E. Ledgers Full Page Form

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Negatives - Col. 39

20

117.

56.

88

89

41

69

63

24

19

64

26

54

145

Col. 39

96

97

52

81

148 (Negatives)

- ✓ 33001 *Lycopodium*
Stiff, bushy. L., up to 2'
- ✓ 33002
Alga; on roots & stems of mangrove
- ✓ 33003
"
- ✓ 33004 *Vittoria Ptolonia*:
Epip.
- ✓ 33005 *Dimorphandra*
Shrub-like. Stems up to 12' high; arising from panicle of large "leaves" (see later coll.)
- ✓ 33006 *Laguncularia*
S. long br.; fl. pink-w
- ✓ 33007 *Pavonia*
S ± 3 ft; pet. y-pi
- ✓ 33008 *Piper*
S 3-4 ft, w
- ✓ 33009 *Apo?* *Trigon*
Herb. vine.
- ✓ 33010 *Rhabdod.*
Suff. vine; cor pale pi to white. Lvs 2-4 ft long
- ✓ 33011 *Maep.*
V; pet. y
- ✓ 33012 *Gescentia*
T 3-10-15' (fr)
- 33013 *Orch.*
Ep.; old sep. light pi
- 33014 *Orch.*
Ep.
- 33015 *Orch.*
Ande light pi & white to pink. + a few perfect sp. to new band. Ep. See later coll. See notes.
- ✓ 33016 *Orch.*
no young found.
- ✓ 33017 *Benthamanthia?*
Coarse herb, densely viscous throughout, up to 4 ft high, with suffused central stem & no branches; pet. pinkish, standard lined with deeper pi.

Buenaventura Bay, Agua Dulce ^(no mangroves) 4 2/3/39

mangrove swamp
neth. of R. Dagbaj

: Puntarenas, mangroves.

coastal thickets.
Behind mangrove swamp

swamp marsh

coastal thickets

woods

marsh

- ✓ 33018 *Brom.*
Ep. lvs in large whorls, up to 25" l.
- ✓ 33019 *Brom.*
" " " " " " 3' l.
- ✓ 33020 *Phyllanthus*
Slender annual
- ✓ 33021 "
Perhaps native here
- ✓ 33022 *Hyptis*
H. with elong. br.; cor. whitish
- ✓ 33023 *Bacopa*
H. frust. & stems; cor. wh.
- ✓ 33024 *Crotalaria*
Fl. y
- ✓ 33025 *Stachytarpheta*
Fl. 3-4'; cor. tube wh, limb rich blue to pinkish bl.
- 33026 *Passiflora quadrangulata*
Seeds from fruit cocktail at hotel
- 33027 "
legumin
- ✓ 33028 *Tradescantia*
Per. w
- ✓ 33029 *Paspalum*
Good pasturage for horses
- ✓ 33030 *Hyptis*
Large herb, cor. w
- ✓ 33031 *Paspalum*
- ✓ 33032 *Ruellia cornubona*
- ✓ 33033 *Min. pigma?*
St. 6-8" pi 3-4', div. br.
- ✓ 33034 *Paspalum*

"Chiripaya"

Guayaquil: Puntarenas Pa. ^{behind} mangr. sw.
Coastal thickets

2/3/39

: waste places about city

2/4/39

Said to have come from

Cali

Grows in Pafuma

Waste ground
waste places

2/5/39

"Siempre viva"

"Dormidera"

- ✓ 33035 *Crassiea*
Herb, 1-3 ft; pet y
- ✓ 33036 *Desmodium*
Fls. pink; proc. l., dr. suber. "Pegapaga"
- ✓ 33037 *Cyperus*
- ✓ 33038 *Chidemia*
5 ± 2'; pet. wh. "Mora"
- ✓ 33039 *Melast.*
Herb, or - branched above; pet. pale pi; anths deep pi
- ✓ 33040 *Melast.*
Pet. ri pi
- ✓ 33041 *Thomson*
Cor. deep pi in o out petals; light pi in o out dent.
- ✓ 33042 *Xyris*
Pet. y
- ✓ 33043 *Scroph.*
Particulate herb; cor. viol. out, white in, lobes viol - margined
- ✓ 33044 *Hydrocotyle*
Repenant herb; fls. greenish wh.
- ✓ 33045 *Eleocharis*
- ✓ 33046 *Ficoides*
- ✓ 33047 *Cyperus*
Pet. pi.
- ✓ 33048 *Asclepias*
Stems l.; pet. light y
- ✓ 33049 *Uniola*
Stoloniferous herb.
- ✓ 33050 *Spilanthes*
Stem slightly succul.; rays bright y; petals anal y
- ✓ 33051 *Piper*
2-3 m

Buenaventura; marsh

2/5-

Waste places

Tidal swamp.

Swamp.

~~Marsh~~ Wet soil

Waste places

Gorgonilla Is. - sandy beach

2/8

- ✓ 33052 *Chamaefistula*
much fr.
Tree 5m, trunk 5-7 cm. diam.; pet. light y
- ✓ 33053 *Peperomia*
Reptant on tree trunk, & dependent
- 33054 *Epidendrum nocturnum* ?
Epip. 5 pet. gr.; lip. wh.; cal. brownish
- 33055
Moss on roots of 33054
- ✓ 33056 *Ficus*
Tree 6-7 m.
- ✓ 33057 *Adiantum*
Crevices of rocky cliffs
- ✓ 33058 *Kyllinga*
" " Careop. h.
- 33059 *Gesneria tomentosa*
Old infl.
- ✓ 33060 *Arac.*
Reptant, zigzag stems
- ✓ 33061 *Chlorodendron*
St ± 2 m. Densely w; styles purp.
- ✓ 33062 *Bignon.*
High-climbing vine on trees
- ✓ 33063 *Simarub.*
Sm. tr ± 3 m. fr.; br. spread.
- 33064 *Polypodium*
Ep.
- ✓ 33065 *Rub.*
- ✓ 33066 *Andrena* patches in sandy trail
Agavea Trichostema Trichostema (Chapm) Trigon
Culm. 2 m; fr. 2.3 m.
- ✓ 33067 *Acalypha*
Sm. tr, 4 m.
- ✓ 33068 *Rub.*
Tr., wood br., slender trunk; young fr. br.

~~Barro Colorado~~ Gorgonilla Is.; woods along coast

2/8/29

: rocky cliffs

Woods along coast

Samby
dense forest; 130 m.

- ✓ 33069 *Eutrichia*
Tr. 4-5 m; cor. wh.; also at sea-level
- ✓ 33070 *Arac.*
Climbing trunk
- ✓ 33071 *Peperomia*
Sep. from trees
- ✓ 33072 *Cestus*
A. trunk, $\pm 1.7-2$ m. h.; fr. n., per. y
- ✓ 33073 *Polypodium*
Climbing on TT
- ✓ 33074 *Arac.*
Climbing on T
- ✓ 33075 *Fern*
Fr. 1.5-2 m l. when dec.
- ✓ 33076 *Moss*
On decaying log
- ✓ 33077 *Solanum*
S ± 2 m; cor. w, anthers y
- ✓ 33078 *Myrsine?*
T. 4-5 m; fl. pi
- ✓ 33079 *Peperomia*
Sep. from tr.
- ✓ 33080 *Moss*
On dec. log.
- ✓ 33081 *Faramea*
Sh. 3-3.5 m
- ✓ 33082 *Erythraea?*
h. 3-4 m.
- ✓ 33083 *Pothospermum*
H. up to 1 m
- ✓ 33084 *Sciadophyllum*
S ± 2 m; lvs & infl. at top
- ✓ 33085 *Anthurium*
Tr. h.

Gorgonilla Is.; dense sandy forest, 130-200 m. 2/8

- ✓ 33086 *Clidemia*
Sh. ± 1 m, with erect stems; anth. ophil. pi.
- ✓ 33087 *Pub.*
S 1.7-2 m; cor. ruf. pi, fr. purplish
- ✓ 33088 *Piper*
Sh. ± 2 m
- ✓ 33089 *Piperanum*
Rep. from tr. br.
- ✓ 33090 *Anthurium*
On tr; lvs very shiny
- ✓ 33091 *Polypodium*
On trees
- ✓ 33092 *Melast.*
Sh. ± 2 m; stem str.; fr. bright blue
- ✓ 33093 *Miconia lacina*
S 1-1.5 m; pet. r. st. pi
- ✓ 33094 *Clusia*
Much br. sh on tree
- ✓ 33095 *Piper*
S ± 1.5 m.
- 33096 *Cassia*
Tr. 6-7 m, spr. crown; pods up to 40 cm (see!) un
- ✓ 33097 *Hesperia*
Tr. pet. or - y, at length or
- ✓ 33098 ~~*Hesperia*~~ ^{*Blasia*}
fr. purplish-black
S $\pm 1.5-2\frac{1}{2}$ m; pet. waxy wh, fil. yel gr; anth y, deep gr. dist
- ✓ 33099 *Ictaria*
- ✓ 33100 *Marila*
Tr. $\pm$ vase-shaped; lvs or infl. at top of ascending br.
- ✓ 33101 *Adiantum*
- ✓ 33102 *Hypolytrum*

Gorgonilla Is.; dense sandy forest 130-200 m.

2/8

Gorgona Is. ^{see vol}; thicket near coast

2/9

woods " "

beach

Coastal thicket

→ predominant pl. of SE corner

bank of
in forest along small stream
dense forest

bank
in forest along small stream

- ✓33103 *Dichromaena*
Very hairy
- ✓33104 *Ichnosiphon*
Per. wh.
- ✓33105 *Spigelia*
fls. wh. H
- ✓33106 *Polypodium duale*
on tree trunk
- ✓33107 Rub.
Er. herb. 1 m high; fr. r
- ✓33108 *Piper*
S ± 1 m
- 33109 *Vanilla*
V
- ✓33110 *Arac.*
- ✓33111 *Piper*
Shrub ± 2.5 m.
- ✓33112 *Blabea*
S. 90 cm; fl. wh & fr. purpl., sweet, pulp pinky
- ✓33113 *Casearia*
Shrub 5 m. to 1 m, much br.; fls. greenish wh.
- ✓33114 *Palicourea*
Small tree, 4 m.; br. infl. reddish; cor. y
- ✓33115 *Piper*
Shrub tree
- ✓33116 *Arac.*
Long vine
- ✓33117 *Piper*
Sh 3 m, small tr
- ✓33118 *Papilionis*
Tr. ± 5 m; cor. wh.
- ✓33119 *Piper gigantum*
T, 4 m, elong. br.

Gorgona Is. bank of small stream ^{+ seasonal} in forest

2/9

dense for.

Gorgonilla Is: dense sandy forest, 130-200 m.

2/8

£

- ✓ 33120 Piper
Sh. ± 1.5 m.
- ✓ 33121 Ruyechia
Tr. 11 m, trunk 80 cm. diam.
See Separate Fruit Collection
- ✓ 33122 Cessentia
Fr. tr., 3 m, ^{branches} ~~trunk~~ spreading
- ✓ 33123 Lycopodium
- ✓ 33124 Sauvagea
Herb; flt. pink w
- ✓ 33125 Melast.
H. fl. wh.
- ✓ 33126 Terminalia catappa
Tr. 8 m. (erect.)
- ✓ 33127 Psychotria
Tr. 4 m or more; cor. wh.
- ✓ 33128 Rub.
- ✓ 33129 Comp.
S. 2 m.
- ✓ 33130 Peperomia
Tr. ^{erect} on cliffs
- ✓ 33131 Acanthaceae
"
- ✓ 33132 Gelmantia
on shaded cliffs
- ✓ 33133 Melast.
H. to 75 cm; pet. pi; st. w
- ✓ 33134 Didania
Herb; pet. pi
- ✓ 33135 Bryopsis
- ✓ 33136 Gelmantia

Additional Material in
General Herbarium

u
united for the
"Almendro"

"Malbrilla arisca"

Gorgona 92: ~~woods near coast~~

2/9

coastal thickets

woods

woods near coast

2
10

Gorgonilla: on cliffs along shore

2/10

Gorgona 92. (east side) coastal thickets

2/11

- ✓33137 *Scleria*
- ✓33138 *Peperomia*
~~cl.~~ Cl. trees & def.
- ✓33139 *Nelost.*
S. fls. fr.
- ✓33140 *Neopolytrichum*
- ✓33141 *Funaria*
on small logs; wh.
- ✓33142 *Nelost.*
H.
- ✓33143 *Arce.*
Ter., Cl. st.
- ✓33144 *Hep.*
On tree
- ✓33145 *Moss*
Do
- ✓33146 *Piper*
- ✓33147 *Rub.*
Tr. for. wh.; br. in fruit purple, black; fr. gr.
- ✓33148 *Rub.*
Rounded infl. Sm. tree
- ✓33149 *bielen.*
V; fls. white
- ✓33150 *Hypoxis*
- ✓33151 *Selag.*
Ter.
- ✓33152 *Rub. myrsinites*
Cor. ~~fr.~~ ^{wh.} 5 ± 1 m
- ✓33153 *Euph.*
S 2.5-3 m; very much; fls. gr.

Gorgona Is.: ^{Marph} ~~Coastal~~ ~~Wooded~~

2/11

dense forest along shore

- ✓ 33154 *Mandevilla*
✓
✓ 33155 *Spermaria*
H.; fls. w.
✓ 33156 *Sclag.*
Vine
✓ 33157 *Adiantum*
✓ 33158 *Piper*
8-1.5 m.
✓ 33159 *Coccyzium*
H.; stem, red,
✓ 33160 *Geonoma*
Tr. 80 cm. high
✓ 33161 *Rhipidoptera*
on dec. tr.
✓ 33162 *Achi.*
Ep.; pet. deep pi; lip. o. y.
✓ 33163 *Polypodium*
Ep
✓ 33164 *Sclag.*
Ter. stem up.
✓ 33165 *Tectaria?*
Sterile
✓ 33166 *Morassae*
J. ± 4 m; buds y w
✓ 33167 *Cyper.*
✓ 33168 *Piper*
80 cm; sterile
✓ 33169 *Scl.*
Slender sh. ± 1 m; cor. wh. smooth. glab.
✓ 33170 *Bauhinia marina* sp. nov.
S. erect. ± 1 m; pet. wh.

Gorgona Is. (east side); dense for. along stream

2/11

- ✓ 33171 Melast.
S; pet. pi.
- ✓ 33172 Heliconia.
- ✓ 33173 *Henitelia* *Cyclodium trianae* var. *chocense* A. K. Smith
Caul. ± 80 cm; fr. 1.6 cm, ~~or~~
- ✓ 33174 *Epidendrum*
Ep. 5 pet. gr. lip & cal. wh.
- ✓ 33175 Moss
On dec. tr.
- ✓ 33176 Rub.
Br. wh. slender shr
- ✓ 33177 *Carludovicia*
- ✓ 33178 Rub.
- ✓ 33179 Pl. wh. J ± 5 m. up
Leaves.
H. on muddy bank; cor. bright y
- ✓ 33180 Arac.
Spathe wh; spad. fruit red
- ✓ 33181 *Pepanomia*
Ep.
- ✓ 33182 *Islandia*
Ep
- ✓ 33183 *Elaph.*
Ep.
- ✓ 33184 *Lindaea*
Ter.
- ✓ 33185 Arac.
Ep.
- ✓ 33186 Melast.
Smt. ± 3 m
- ✓ 33187 Bromel.

Gorgona Is. (west side); dense forest along stream

2/11

U

U

~~U. 1836~~

U. 1836

H 40 G

U. 1836

U. 1836

U. 1836

- ✓ 33188 Moss
Clumps out. t.
- ✓ 33189 Selag.
On bank
- ✓ 33190 Hymenop.
On wet tt.
- ✓ 33191 Hymenop.
- ✓ 33192 Cyperac.
- ✓ 33193 Rub.
Bl. dec. bush; tr. 10 m.
- ✓ 33194 Moss
On Pter.
- ✓ 33195 Trichomanes
Ep.
- ✓ 33196 Polypodium
Ep.
- ✓ 33197 Hymenophyllum
Ep.
- ✓ 33198 Asplenium *Thelypteris lepicurii* (Hook.) Tryon var. I. det A.S. Smith 1976
- ✓ 33199 Polypodium
- ✓ 33200 ?
- ✓ 33201 *Stenactis*; characteristic; low at top of straight trunk to ± 3 m.
- ✓ 33202 *Casearia*
Shr. tr; fl. greenish w
- ✓ 33203 *Faramea*
Shr. tr. 5-6 m. fl. wine-red; cor. light gr.
- ✓ 33204 *Conterea*
W.V., cor. wh.
- ✓ 33204 *Gesner.*
W.V.; cor. rich pi

2/1/76
Zorgona Fa.; along stream in dense for.

: edge of forest at coast

- ✓ 33205 *Myrt.*? *Guttf.*?
Tree 10m. a more; fr. red
- ✓ 33206 *Rumpelia*
Tr; fls. greenish wh.
- ✓ 33207 *Bignou.*
WV; fls. bright y
- ✓ 33208 *Melast.*
T pet. rich pi; st. deep purp
- ✓ 33209 *Rub.*
T ~~Cor tube~~ Cor tube yg, lobes rich pi
- ✓ 33210 *Clusia*
T $\pm$ 3m.; fls. w.
- ✓ 33211 ?
T $\pm$ 3m.; fr. dull red.
- ✓ 33212 *Melast.*
T. pet. deep pi
- ✓ 33213 *Fern*
Tr. pet. rich pi Ter.
- ✓ 33214 *Pera*
S 3-4m; fr. greenish w
- ✓ 33215 ?
Small tree.
- ✓ 33216 *Dicranoptera bifida*
Overhanging cliffs
- ✓ 33217 *Marcgravia*
V. buds red.
- ✓ 33218 *Dicranoptera fectinata*
Overhanging cliffs; no fertile seen
- ✓ 33219 *Rub.*
Fls. T. buds greenish wh
- ✓ 33220 *Bumel.*
Ter. per. pale pi.
- ✓ 33221 *Ceropia*
Tr. $\pm$ 12m.

Gorgona Is. : edge of forest at coast

2/11

19 Rh. (Tae left)

add points to each leaf

19 " " " " " "

un.-1C

un

- ✓ 33222 *Hedyosmum* ^{Carriacou}
 1 ± 3 m; ripe fr. black, lustrous
- ✓ 33223 *Malp.*
 V; pet. y.
- ✓ 33224 *Polyposia*
 Climbing tr.
- ✓ 33225 *Rub.*
 2-2.5 m.
 Sm. tr; slender straight tr; br. wh.
- ✓ 33226 *Arac.* ~~sp.~~
 Fr. scarlet
- ✓ 33227 *Rub.* ^{br. redish pi.} send ours to F
- ✓ 33228 *Ach.*
 Ep. pet. pi.; dotted & blotched with purp.
- ✓ 33229 *Aschynomene*
 Herb; pet. y, stem. pair out, pi. striped in
- ✓ 33230 *Chamaecrista*
 H.; fls. y
- ✓ 33231 *Peperomia*
 Repent in soil or open.
- ✓ 33232 *Jess.*
 Bracts light gr.; cor. brightly.
- ✓ 33233 *Utricularia*
 Cor. y
- ✓ 33234 *Scleria*
- ✓ 33235 "
- ✓ 33236 *Piper*
 T ± 4 m
- ✓ 33237 *Pisonanthus*
 Cor. gr.
- ✓ 33238 *Nelox*
 Ter.; lvs. red; br. pi; per. w

Gorgona Is.; edge of for. at coast.
 thickets along coast
 edge of for. at "
 along stream in dense for.

Buenaventura: waste places

(R.R.) (2 Km. W. of Córdoba)
 Km. 18 (Pumping Station), e. of Buenaventura:

Open hillside

Bog
 swamps.

dense forest

swamp.

dense forest

1247a *Leuca.*

- ✓ 33239 Rub.
 tube lobes bright blue
 tube quite ^{to} shrub
- ✓ 33240 Calathea um
 Per. wh.; fl. $\pm$ 1.5 m.
- ✓ 33241 ~~Calathea~~ *Trichopogon nigripes* var. *brunneus* Bonap.
 Per. w. fl. $\pm$ 1 m
- ✓ 33242 Piper um
 Ter
- ✓ 33243 Bromel.
 Ep. um
- ✓ 33244 *Leuca.* "Vibora" "Vibora"
 Cr. tube grayish dist. ² ~~to~~ prop; lvs solid deep r. base or green or red var
- ✓ 33245 *Leuca.* !
 Br. y, red dist. lvs red base.
- ✓ 33246 ~~Myrsine~~ *Cycloclium trianae* var. *chocoense* A. K. Smith
 (Slip fr.)
- ✓ 33247 *Pindsara*
 a um
- ✓ 33248 Moss or
 On leaves
- ✓ 33249 *Anthurium*
 On tree
- ✓ 33250 *Arac.*
- ✓ 33251 Ter.
Leuca.
- ✓ 33252 Ter.; ~~no fl.~~ *Leuca.* wh.
Trichomanes pinnata
 Ter.
- ✓ 33253 *Trich.*
 Ref. or tt.
- ✓ 33254 *Pilea*
- ✓ 33255 Ter.
Palm

Km 18

dense forest

414

50 cm. diam. um. long.
 Trunk $\pm$ 15 m; ~~fr.~~ fr. 10 cm.
 Infl. with short, stem $\pm$ 20 cm diam / petiole; Total width $\pm$ 60 cm.

- ✓ 33256 Cyperaceae
- ✓ 33257 Melast.
- ✓ 33258 Rub.
fl (st. □) pet. pinkish white
- ✓ 33259 Marcellia
Herb V.
Buds y-g. Fr. T.
- ✓ 33260 Rub.
Sun T. br. white; tube of wh, lobes w (slender br)
- ✓ 33261 Rub.
Fr. ~~br.~~ purple
- ✓ 33262 Hypopodium
- ✓ 33263 Costus Calceola
Per. wh, pi. striated
- ✓ 33264 Peperomia
Ref. on TT
- ✓ 33265 Melast.
S ± 2 m, pet. o st. pi. (lvs retic)
- ✓ 33266 Melast. Tococa
Fr pi.
- ✓ 33267 Piper
Inf. h. ± 2.6 m.
- ✓ 33268 Coccocypselus
E. S ± 20 cm.
- ✓ 33269 Gesner
Des. of 2 or 4 red blotches on lvs
- ✓ 33270 Arac.
"Guaco", "Vibora"
- ✓ 33271 Coccocypselus
E. S; fr. scarlet
- ✓ 33272 Iridium
H.; pet. w

Km 18

dense for.

2/14

473a

- ✓ 33273 Rub.
H.; lvs purplish & ben
- ✓ 33274 Melast
- ✓ 33275 Bauhinia
WV
- ✓ 33276 Rub.
T. fr. wh.
- ✓ 33277 Melast.
H.
- ✓ 33278 Boroniel.
Dr. bright r.
- ✓ 33279 ? Clusia
Jr.
- ✓ 33280 Burmann ?
Epiphyt.; fls. white prox; black pi. dist.
- 33281 Melast.
fls. deep pi
- ✓ 33282 Geacua.
Cr. y.
- ✓ 33283 Melast.
- ✓ 33284 Cyclanthus
2h; fl. 1.5m
- ✓ 33285 moss
on leaf p. 284
- ✓ 33286 Chamaefistula
- ✓ 33287 Chamaedorea
- ✓ 33288 Melast
- ✓ 33289 "
H

Jun 18

Dense for.

2/14

1K

- ✓ 33290 Comp.
 ✓ 33291 Euph.
 ✓ 33292 Piper
 $S \pm 2.5m$
 ✓ 33293 Anthurium
 Ter; spathe pale wh.; spad. $\pm$ 1m at length deep
 ✓ 33294 Piper
 $H \pm 3m$
 ✓ 33295 Pityrogramma
 $\pm 60cm$ high
 ✓ 33296 Cyperus
 Heads pale
 ✓ 33297 Hyptis
 H, fls. purp.
 ✓ 33298 Tournefortia
 ✓ 33299 Melast.
 H; pet. pale pi
 ✓ 33300 Melast.
 $H \pm 35cm$
 ✓ 33301 Comp.
 $H \pm 1m$; fls. y
 ✓ 33302 Rub.
 V; frs. red
 ✓ 33303 Sol.
 Tr. y; stem spiny $H \pm 1m$
 ✓ 33304 Grass
 ✓ 33305 Rub.
 H, $\pm 1.2m$; br. ^{red} cor. wh
 ✓ 33306 Anthurium
 on T

16m 18

Along r.r.

Scrub for

Ph. ^{D-6} Centa culebra

Rio Dagua, at end of highway, Buenaventura dense for. 2/15-

along stream

un 5

un-5

- ✓ 33307 *Arborea*
Infl. or.
✓ 33308 *Bromel.*
✓ 33309 *Melast. seloa*
Sh. 1.5 m.; st. er.; infl. pinkish
✓ 33310 *Henitelia*

- ✓ 33311 *Rub.*
T, 8 m.; fr. purple br; clusters
✓ 33312 *Rub.?*
T ± 10 m.
✓ 33313 *Glom.*
H 2 m., st. simple; fls. r.
✓ 33314 *Rub.*

- ✓ 33315 *Artium*
Ep.
✓ 33316 *Rub.*

- ✓ 33317 *Manettia*
HV; cor. green!
✓ 33318

- ✓ 33319 *Salvia*
H ± 80 cm.; stems in clusters; infl. distichous; fls. or. w. pi.

- ✓ 33320 *Dryophloeus Cycloclium triana* var. *chocense* A.C. Smith

- ✓ 33321 *Melast.*
✓ 33322 *Melast.?*
H., Fls. pi.

- ✓ 33323 *Artium*
Ep. Spikes purple

un 9 Buena Vista: Rio Sagua, at end of highway; ^{frs.} along str.

un 9

along R. Sagua

un 7

un 9

un 9

un 9

- ✓ 33324 Melast.
 H 1m; Fr. red
- ✓ 33325 Polypodium lance.
 Rep. on tr.
- ✓ 33326 Brom.
 Ep.; br. bright red; per. y
- ✓ 33327 Brom.
 Ep.
- ✓ 33328 Coeloc.
 Br. r.; ± 2m
- ✓ 33329 Vacc. ??
 T. calyx o ped. r; fls. y
- ✓ 33330 ~~Scler.~~ Guariania
 K. V.
- ✓ 33331 Gesner.
 Br. r; cor. y. Epiph.
- ✓ 33332 Guariania
 H stem prostrate
 W; calyx r; cor. y
- ✓ 33333 Anthurium
 Ep.
- ✓ 33334 Anthurium
 Ep.
- ✓ 33335 Melast. (other name?)
 H. ± 30cm; pet. o st. w
- ✓ 33336 Heliconia
 Pl. 2.5m. br. red, y at base
- ✓ 33337 Calce. (Phytolophos?)
 Stipe 50cm, vert y. leaf. 3m or more; infl wh., base at base of anther
- ✓ 33338 Rub.
- ✓ 33339 Orch.
 Sw T, edge of per; tube light gr, lobes purplish br.
- 33340 ~~Isachne~~
 H ± 1.7m.; per. y; ped. 60-80cm. I

along river ~~down~~
 Buenaventura, Rio Sagua, at end of highway; ~~for~~

2/15

Buenaventura ^{Agua dulce}
 with shore of bay; dense for.

2/16

- ✓ 33341 Moss
On lvs. of Rub.
- ✓ 33342 *Antennaria cordif.*
Spathes gr., spathe red (ter.)
- ✓ 33343 Rub.
Fl.; fr. light gr.
- ✓ 33344 *Danaea*
Ter.
- ✓ 33345 Melast.
- ✓ 33346 Selagin.
Sh ± 2 m; fl. light gr., st. w.
- ✓ 33347 Fern
- ✓ 33348 *Piper*
S. 2-2.5 m.
- ✓ 33349 Commel. ? *Cyrt.*
Ter.
- ✓ 33350 Palm
Ph. 26
Slender tr. 10-15 m; prob. tree overtopping fr. in Ph. Sterile
- ✓ 33351 Palm *Oncocarpus*? Fr. 2.5 m
Smooth tr., ± 3 m h, 12 cm diam. Sterile; sometimes with
- ✓ 33352 Liliif.
T ± 2 m; fl. light y
- ✓ 33353 Rub.
T ± 4 m; calyx deep purp (fr age), green (y); cor. w
- ✓ 33354 *Tococa*
S ± 80 cm
- ✓ 33355 Cucurb.
H V; cor. light green out, wh in.
- ✓ 33356 *Antennaria*
- 33357 *Killipsteria*
On bank cut back from R. Dagua for m. Exposed
for ± 50 ft.

Buenaventura: Agua Dulce; dense for.

2/16

50 m
Córdoba: bank of R. Dagua, close to m.
(Top of P. 33 juv.)

2/17

✓ 33358 *Marchantia*33359 *Rhynchospora*✓ 33360 *Piper*

H.

✓ 33361 *Paspalum*✓ 33362 *Oryopteris*✓ 33363 *Eleocharis*

33364 "

✓ 33365 *Selagin*33366 *Polygala*

Pet. pinkish blue

✓ 33367 *Gram*✓ 33368 *Hydrocotyle*

Rep. H.; fls. greenish-wh.

✓ 33369 *Renealmia*

Ter. H.; st ± 1m up to lowest leaf; lvs distichous

✓ 33370 *Mandevilla*

H.V.; cor. pale y

33371 *Calathea*

Per. y

✓ 33372 *Sabicea*

S 1.5-2m; fr. blue

✓ 33373 *Peperomia*

Suc. #

✓ 33374 *Jococa*

Low S; pet. rich pi

Cordoba: wet bank ^{cliffs} of R. Dagua, along r.r.

2/17

ditch

wet bank

Ditch

Wet bank

dense forest

clearing

dense for.

✓ 33375 *Sobralia*?

low. apex; col. wh.

Ter. Sep. light gr.; 2 pet. ~~lance~~ pink; lip whitish, pi.-stippled,✓ 33376 *Nepsera*

H ± 60-70 cm; pet. pi. pinkish wh

✓ 33377 *Dryopteris*✓ 33378 *Melast*

H, ± sep. pet, stam style pi

✓ 33379 *Eriotheca quadrangulata*

S 1-1.5 m; cor. light pi.

✓ 33380 *Heliconia*

Br. bright red; per. deep y; infl. pendul

33381 *Gesner*

Cor. light pi.

33382 *Begon. Rub.*

Sp. i. br. (379a) Erect h, ± 50 cm high

✓ 33383 *Tococa*

S ± 2 m WV, ± 6 m.

✓ 33384 *Peperomia albifolia*

Gr dec. long

✓ 33385 *Coccoloba*

HV portulac; fr. bright blue

✓ 33386 *Marsipposiphon*

HV; fls. wh.

✓ 33387 *Rub.*

S cor. wh

✓ 33388 *Palicourea*

T 4-4.5 m; branches inf. red; cor. y

✓ 33389 *Melast.*

Slender sh.; fr. pi

✓ 33390 *Tridax*

Ter. h.;

✓ 33391 *Peperomia*

H., st. repent at base

Cratogeomys: clearing

dense for.

clearing
dense for.

clearing

dense for.

- ✓ 33392 Melast.
 Sm. t. 7 ± 3 m.; pet. pale pi; fr. deep pi
- ✓ 33393 Peperomia divaricata
 Ter.
- ✓ 33394 Nicotiana
 Slender t.; fls. wh.
- ✓ 33395 Manihot
 Tall, branched h. fls. y-g
- ✓ 33396 Cissua
 HV; pet. red!
- ✓ 33397 Anac.
 T. br. wh or greenish w. spaces purplish br
- ✓ 33398 Rhyngchosia
 H. v.; fls. y
- ✓ 33399 Vanilla
 HV; tubs y g; pet. w
- ✓ 33400 Ruellia
 $4 \pm 60-70$ cm.; cor. pi
- ✓ 33401 Melast.
 H, elong. br.; cor. pet. magenta
- ✓ 33402 Licania
 V on tree; cor. pale pi
- ✓ 33403 Kibania
 H. v.; infl. greenish w
- ✓ 33404 Ficus
 H
- ✓ 33405 Tradescantia
 Suc. H.; per. wh.
- ✓ 33406 Moss
 On Anthurium
- 33407 Orch.
 Ep.; per. seg. red
- ✓ 33408 Rub.
 Sm. tr $2-2.5$ m; infl. pendulous

50 $\pm$ 100 m.
 Cordoba, dense for.

2/17

clearing

Swampy in Jan.

clearing

on fr. tree

in open

thickets

in ditch

dense for

un

✓ 33409 Arac.

Lep. on trees; lvs red ben. Sterile

✓ 33410 Cyca

✓ 33411 ?

T ± 6m, 2cm. diam; fls. wh (on main stem)

✓ 33412 Moss

On dec. log

✓ 33413 Chamaedorea

St. 7m to inf., 2cm diam; infl. brown.

✓ 33414 Trichomanes

Climbing TT

✓ 33415 Melast.

Slender Sh

✓ 33416 Dichorisandra

E. H.

✓ 33417 Moss

On lvs. of 413

✓ 33418 Gesner

Ep. cor. whitish

✓ 33419 Geonoma

✓ 33420 Calathea

Fls. wh.

✓ 33421 Cyathia

Caulis ± 3m; fronds 2m.

✓ 33422 Siphonanthus

Saprop. Cor tube yellow, lobes pale for out; blue in

✓ 33423 Gesn. reticulata

Ter.; cor. wh.

✓ 33424 Gesn.

Ter. cor. wh.

33425 Mariscus beccarii

Ter.

Cordoba: dense for 50-100 m.

2/17

t-3

t-3

m-k

~~33437a~~ *hirs.* = 33450

33426 *Chamaedorea*

✓ 33427 *Melast.*

Sm Tr

✓ 33428 *Besleria*

Ter. Herb $\pm$ 80 cm. br n.

✓ 33429 *Nicotia*

~~Cyrtos~~

✓ 33430 *Cyrtos*

33431 *Hep.*

on tt.

✓ 33432 *Asplenium*

on tt

✓ 33433 *Moss*

on tt

✓ 33434 *Leucobryum*

on tt.

✓ 33435 *Diolema lucida*

Pet. pi

✓ 33436 *Moss*

On Arac.

✓ 33437 *Arac.*

Ter.; Steile

✓ 33438 *Vriarteia?*

Steile

✓ 33439 *Moss*

on tt

✓ 33440 *Mimodendron grande*

Ter. H.

✓ 33441 *Aulium*

On soil.

33442 *Gymnosiphon*

Saproph. per. ground wh

un *Ardisia*; dense fr., 50-100 m.

2/17

un-K

u

- 33443 Burmannia
Saproph.; fl. white
- ✓33444 Acanth.
T. H.; fr. gr.
- ✓33445 Arac.
Ep.; fr. green
- ✓33446 Rub.
Sun. tr. fr. light gr.
- 33447 Coenogonium
Out
- 33448 Brom.
Ep. br. red; per. fr.
- 33449 Brom.
Ep. br. red; per. y
- 33450 ~~Arac.~~ Moss (23437a)
~~Ter. spathul. (out 250)~~
- ✓33451 Costus?
Ter; 2' diam. in; infl. red
- ✓33452 Brom.
Ep. br. r
- ✓33453 Brom.
Ep.
- ✓33454 Brom.
Ep.
- 33455 Brom.
Ep. H
- ✓33456 Aucturium
- ✓33457 Moss
On lvs of 456
- ✓33458 Eleocharis
- ✓33459 Rynchospora

un

Cordoba, 50-100 m; dense for.

417

un-3

un-10

u

un

Open marsh

Open hillside

✓ 465a

✓ 33460 *Peperomia longispica*
Epi.33461 *Peperomia obovata*
Ep✓ 33462 *Xanthosoma hellobrif.*
Rep. on tt.✓ 33463 *Piper*
S ± 1.8 m.✓ 33464 *Bilbergia*
Est✓ 33465 *Cucurbit.*
High climbing HV; cor. ~~orange~~ greenish y✓ 33466 *Rub.*
Suf. H.; up to 80 cm.✓ 33467 *Polypodium* *Cucurbit.*
Ter. HV (33465a)✓ 33468 *Polypodium*
Ter.✓ 33469 *Tern*
Fr. ± 1.5 m.✓ 33470 *Passiflora serrata* - dig.
H.V.✓ 33471 *Piper*
S ± 1 m.✓ 33472 *Piper*
S ± 50 cm✓ 33473 *Acalypha*
Smt 1-2 m.✓ 33474 *Scroph.*
H. fls. deep blue, foler dist✓ 33475 *Phoradendron*
HV; fls. pi.; stamens white; keel pinkish base in✓ 33476 *Centropogon*
Sh along fr.; cor. rich pi.

3

H

H
2 m
H

H

Bahia Solano; ^{partially cleared forest} ~~repto~~ ^{linda} ~~Mutis~~ sea-level

2/21

~~Quadrata~~ ~~seca~~ marsh
marsh along stream

clearing

edge of woods

2/22

- ✓33477 *Psychotria viridis*
S ~~± 2 m~~ ^{± 2 m}; fr. r.
- ✓33478 *Sabicea*
Bracts scarlet; cor. white 7. S ± 1.3 m
- ✓33479 *Siparuna grandifolia*
S, elong. br.; fls. wh. on main (stem)
- ✓33480 *Acerb.*
HV; fr. bright r.
- ✓33481 *Passiflora vitifolia*
HV So p. scar. outer fil. red; inner wh.
- 33482 *Panicum thifasciatum*
HV sterile
- 33483 *Rub.*
T, ± 3 m; fls. y
- ✓33484 *Epiphyllum*
Out.; fls. bright purple
- ✓33485 *Heliconia*
Bract red at cluster of faces, yellowish green ^{± 1 m. high; lvs. 3 m. long; fls. red} per. olive green
- ✓33486 *Gesner. communis*
Ter. cor. light pi
- ✓33487 *Polypodium*
Kp. on tr
- 33488 *Arac. ?*
- ✓33489 *Piper*
H, suffrutescent ± 1 m
- ✓33490 *Piper hirta*
S elong br ± 1.5 m
- ✓33491 *Piper nigrum*
H 80 cm; ± suffrutescent.
- ✓33492 *Pilea inaequalis*
Ter. & on tr, repent
- 33493 *Gesner. Peperomia*
H ± 1 m; fls. greenish white

Bahia Solano: dense forest along Chusabanda Lalla, no. of Ciudad Mante.
~~edge of forest~~ 2/22

un

1K

un

un-15

18-

✓ 501a *Carludovica*✓ 33494 *Gesneria*✓ 33494 *Psychotria pendula*

S ± 1m; fls. greenish wh.

✓ 33495 *Psychotria pendula*

S ± 1m; nipl. pendulous

✓ 33496 *Tectaria trifolia*

Ter.

✓ 33497 *Polypodium*

Rep. on CT.

✓ 33498 *Dipazuma*

S with elong. br.; pet. wh.

✓ 33499 *Diplazium*✓ 33500 *Gesneria aurantiaca*

Lvs. red at apex & along margin; cor. bright y

✓ 33501 *Carludovica*

Stem 20cm.; nipl. at base

✓ 33502 *Heliconia*Blade 2m l.; pet. 1.5m.; ^{bracts deep pink} ~~fls.~~ red, dependent; ^{cor.} bright y✓ 33503 *Erythrina*

Small tree, ± 5m; trunk 15cm. diam., erect, unbranched

✓ 33504 *Melast.*

H 1-2m. fr. pi.

✓ 33505 *Grass*

"orquidilla"

✓ 33506 *Adiantum*✓ 33507 *Tectaria*✓ 33508 *Brachistia*

Cr. gr. H ± 2m.

✓ 33509 *Besleria*

S ± 1.5m br. red.

✓ 33510 *Dioscorea*

Bahia Solano: dense for. along thurb. Tella

2/21

✓ 5342 541

✓ 33511 *Dryopteris*✓ 33512 *Besleria atalipes*Er., unbranched sh. ± 2 m; fls. r.✓ 33513 *Trichomanes*

Rep. or tt

✓ 33514 *Psychotria macrophylla*

H up to 1 m

✓ 33515 *Cosmibuena*

Sh. t 3-4 m; branches drooping

✓ 33516 *Asplenium*

On trees; lvs in rosette

✓ 33517 *Trichomanes peltata*

On tt.

✓ 33518 *Piper elongata*S ± 2 m spike red.✓ 33519 *Geonoma*✓ 33520 *Clidemia*

Bi. fls. wh

✓ 33521 *Piper*

It.

✓ 33522 *Piper*

It.

✓ 33523 *Pilea gallowayana?*Ter. herb; fls.; ± 60 cm.✓ 33524 *Rub*T ± 3.5 m; fr. wh.✓ 33525 *Siplegia*

Ter.

✓ 33526 *Polypodium*

Ter.

✓ 33527 *Pteris*

Bahía Solano: same for. along Huachula Lella 2/22

un

33528 *Anthurium*

Ter. Spathe wh.; Spadix pi

33529 *Diplazium*✓ 33530 *Leptochilus*

Ter.

✓ 33531 *Costus*

H ± 1 m. Br. yellowish

✓ 33532 *Aphelandra*Br. bright r; cor. y. Sh ± ^{75 cm} 2 m, stem slender, straight✓ 33533 *Gesneria*

Sup. H. br. r., cor. pi.

✓ 33534 *Pilea carolinensis*

On tree

33535 *Pteris* (juvenile?)un-ll.✓ 33536 *Relax.*

Prostrate on bank of stream

✓ 33537 *Peperomia*

On tree

✓ 33538 *Habelecho.*✓ 33539 *Compositae.*

arboresc + ~ 2,50 mts.

✓ 33540 *Henrietta*

Sm ± 4 m; pet. wh.

✓ 33541 *Polygodium* *Piper* *hab. Gulf.*Ter. ^{5 m} 5 m (514a)✓ 33542 *Fern*

Dr. ± 1.8 m.

✓ 33543 *Trichomanes*

On branches

✓ 33544 *Diplazium*

Bahia Solano: dem. for. along th. Tecla

2/22

- 33545 Moss
On *Fectaria trifolia* frond
- 33546 Moss
On *Sepium* leaves
- ✓ 33547 Moss
On dec. log
- ✓ 33548 Moss
On aroid leaf
- ✓ 33549 Fern.
Ter. Br. greenish wh.
- ✓ 33550 Piper
H ± 2.5-3 m.
- 33551 *Cecropia*
- ✓ 33552 ?
T ± 4-5 m.;
- ✓ 33553 *Dryopteris*
- ✓ 33554 *Lasiacis*
- ✓ 33555 *Costus*
± 2 m.
- ✓ 33556 Piper
S 2-2.5 m, strictly dichotomous branching
- ✓ 33557 Sol.
S ± 2.5 m; fl. black
- ✓ 33558 *Besleria*
Cor. or.
- ✓ 33559 *Dicliptera*
H ± 50 cm; cor. fl.
- ✓ 33560 *Arae.*
- ✓ 33561 *Opur.*
Sm. th. fr. or.

u

u

u

clearing

thicket

dense for.

Calva Solans: dense for. along R. Lella

2/22

33562 ?

WV fr. red w. l.

un

✓ 33563

S; pendent fruiting branches; fr. y; calyx gr.

✓ 33564 *Campelia*

H ± 80-100 cm.

✓ 33565 *Heliconia*Lvs ± 1 m; br. r., yellow toward base; fl. y; ^{green at apex} ~~green~~✓ 33566 *Cojoba*T ~~± 6-8 m.~~ 6-8 m.✓ 33567 *Pavonia*

N; fls. wh.

un

✓ 33568 *Piper*

S ± 2.5-3 m.

✓ 33569 *Passiflora chelidonea*

H V. sterile

✓ 33570 *Peperomia*

Ep.

✓ 33571 Rub ?

C ^{"Yarba-buenilla"}
Crotas ~~nodulosa~~ nodulosa de culabros ± 50 cm. fls.✓ 33572 *Coslus*Stem erect, simple, suffrutesc. 2-2.5 m.; inf. dependent
± 2 m; fls. red✓ 33573 *Aphelandra*Stem erect, simple, suffrutesc. 2-2.5 m.; inf. dependent
Ep. h. ± 2 m; fls. y. (cf. 33572) Ph.✓ 33574 *Dalechampia*

H V.; bracts ashy gray

✓ 33575 *Eupatorium*

Erect, ± 2 m; florets pinkish w

✓ 33576 *Aphelandra*

H 80-150 cm.; br. r.; cor. rich pi

33577 *Peperomia*

• Ep.

33578 *Alternanthera*

H. ± 80 cm; lvs. red beneath; inf. wh

Balua Solano: dense for. along R. Lella

2/22

~~Flowering~~ Clearing

dense for.

Clearing

dense for.

Clearing

Clearing

edge of woods
dense for.+
Shrub. Seca (dry stream bed)

dense for. near R. Seca

clearing

- ✓ 33579 *Piper*
S ± 2 m.
- ✓ 33580 *Orae*.
Epip.
- ✓ 33581 *Adiantum*
- ✓ 33582 *Tournefortia*
S; stem simple or few-br., ± 1.5 m; cor. w
- ✓ 33583 *Mauetia*
H.V.
- ✓ 33584 *Solanum*
S ± 2.8 m; cor. wh., anth. y
- ✓ 33585 *Piper celtidif.*
S ± 3 m.
- ✓ 33586 *Calceitron*
H V Cor. w.
- 33587 *Centropogon*
WV; cor r. Un-11
- ✓ 33588 *Pityrogramma sulphurea*
~~or~~
- ✓ 33589 *Acanth*
Er. suff. herb ± 1 m; cor. pinkish blue
- ✓ 33590 *Chamaefistula*
S ± 3 m; pet. light y Un-9
- ✓ 33591 *Dryopteris*
- ✓ 33592 *Nelost.*
WV; fr. reddish
- ✓ 33593 *Canna*
H ± 3 m; lvs up to 80 cm; per. red.
- ✓ 33594 *Lasiacis*
H V
- ✓ 33595 *Begonia*
Succ. H V, drooping branches; pet. wh

- Balua Solano near th. sea
~~Clearing~~ ~~on hill~~ 2/22
- dense for.
- Bank of stream
- East of Ciudad Mitis; Clearing 2/23
- edge of for.
- Clearing
- Edge of for.
- Clearing
- Edge of for.
- open stream-bed (thub. Tello's)
- Edge of for.

- ✓ 33596 *Ipomoea*
H V; cor. bright pink
- / 33597 *Grass*
H; ± 2.5 m.
H; along. fr.
- / 33598 *Justicia*
H ± 50 cm; cor. light blue
- ✓ 33599 ~~*Amorpha*~~ *Moss*
On lvs of 600
- / 33600 *Amorpha* ^{fr. sep. "Bacao"}
T ± 10 m; ♂ wh; ^{fr. sep. "Bacao"}
33601 *Peperomia* ^{un}
Dependent on tt.
- / 33602 *Begonia*
H.
- / 33603 *Theobroma* ^{See Separate Fruit Collection} ^{fr. sep. with one} "Bacao" (Cecropia)
T ± 8 m; br. reflexed; fls. wh.; fr. r.
- / 33604 *Phyllis*
H; cor. y
- / 33605 *Phaseolus*
H V; fls. y g.
- / 33606 *Grass* ^{"Basto Jacagua"}
Stems rootstock. Cult.
- / 33607 *Phaseolus*
H V; fls. purple & wh.
- / 33608 *Solanum*
H ± 30 cm; cor. wh
- / 33609 *Pinus*
On lvs of 600
- / 33610 *Calathea* ^{Pl 41}
Lvs (incl. pet.) ± 2.5 m.
- 33611 *Cean.* ^{un K}
H; fls. pi.
- / 33612 *Adiantum*

Bahia Solano: open stream-bed

2/23

clearing

edge of fr

~~do~~
open stream bank
~~open stream bed~~

dense forest
open stream bank
~~open stream bed~~

open stream bed.

" " bank

dense forest.

- ✓ 33613 Melast.
H with long slender stem; lvs. red. base.
- 33614 Lab. Commersonia?
T 15 m; fr. only
- ✓ 33615 Inga
T ± 10 m.
- ✓ 33616 Sabicea
S; bracts pinkish pi; cor. pi. dist., base prop
- ✓ 33617 Piper
S $\pm 2-2.5$ m.
- ✓ 33618 Psychotria
H ± 2 m; fr. wh.
- ✓ 33619 Delag.
- 33620 Trichomanes punctatum
len - 16
- 33621 Psilocarya
H
- ✓ 33622 ~~Dryopteris~~ Cyclothem Arisaema var. chorocense A. K. Smith
- ✓ 33623 Chamaedorea
Tr. ± 2.3 m, 10 cm. diam; infl. at base of lvs. ^{lvs. ± 1 m}
- ✓ 33624 Neumelia
Caulis ± 2.2 m ^{7 cm. diam.} fr. ± 0.5 m. long.
- ✓ 33625 Danaea
- ✓ 33626 Melast.
Un. G
- ✓ 33627 Clavigia
Sm. ± 13 m; buds green wh.; ~~the~~ trunk straight
- 33628 Anthurium
Ter. Herb; spathe w. ^{Pl. ± 3 m at hillside}
- ✓ 33629 Vanilla
H V.

Bolus Solano: dense for.

2/23

edge of for.
open stream bed

dense for.

open stream bed

Edge of for.

- ✓ 33630 Gesner.
Hv.; cor. wh.
- ✓ 33631 *Funaria*
On log
- ✓ 33632 *Funaria*
ss.
- ✓ 33633 *Peperomia*
Ht
- ✓ 33634 *Tetracera*
WV climbing on trees
- ✓ 33635 *Condaminea corymbosa*
S
See Separate Fruit Collection.
- ✓ 33636 *Lecythidaceae*
Fruit found on ground
- ✓ 33637 *Orech.*
5 pet. pi.; lvs. wh. not proc.
dark purple dist. out. in, y at
Ter; stem simple ~~to 2.5 m.~~ ± 2.5 m. (center); cor. wh.
- ✓ 33638 *Piper*
St ± 2.5 m.; br. div.
- ✓ 33639 *Rhor.*
Paras.
- 33640 *Hypoleis.*
Cor. pinkish wh., with small purple dots
- ✓ 33641 *Valeriana sorbif.*
Cor. w
- 33642 *Melast.*
H $\pm$ sup. pet. mag.
- 33643 *Stylosanthes*
Pet. y
- ✓ 33644 *Castilleja*
Br. red.
- 33645 *Euph.*
H $\pm$ sup. ± 30 cm.; flower & style bright pi
- ✓ 33646 *Oryopteris*

Bahia Solano: open thicket

2/23

open stream bed

thicket

edge of for.

dense for.

San Antonio ~~to 4.75 m.~~ thicket 1900 m.

2/26

Partially shaded bank

✓33647 *Lomaria*

Roots separate. Cf. if 2 things here

✓33648 *Thalictrum*
S ± 60 cm; fr. wh.✓33649 *Eup.*
S ± 1 m; fl. & styles pink blue✓33650 *Lad. Anclonia*
S, simple stem; ~~stems~~ ± 2.5 m; infl at apex; cor. green✓33651 *Thalictrum*
low bush sh ± 50 cm; fr. bright pink✓33652 *Salvia paleonifolia*
H.; cor. rich blue✓33653 ? *Not*
S ± 2 m; fls. wh.✓33654 *Viola*
fls. wh.✓33655 *Arce.*
T Sp. or Sp. wh.33656 *Moss*33657 *Polypodium* on stems of 655
more later common✓33658 *Hep.*✓33659 *Meriania*

"Siete cuervos" or

✓33660 *Psychotria*
T ± 5 m; cor. pink✓33661 *Besleria*
Sun. T ± 4 m; cor. r.✓33662 ?
T ± 5 m✓33663 *Thalictrum*
T 3-4 m; fr. wh.San Antonio 1900 m. ^{wooded bank} ~~edge of woods~~ (frank.)

2/26

Dense for. ± 2000 m

- /33664 Brom.
 Ep. Per. bright blue
 33665 Moss
 On lvs 664
 ✓33666 Eleocharis
 Ep. In only
 33667 Aitcheum un.
 Ep.
 ✓33668 Melast
~~T~~ T $\pm$ 5m; fls. pi.
 ✓33669 Gesner
 T; cor. r, lobes purple at center, y at margin. ^{lvs solid r. lvs. n. with larger spots}
 ✓33670 Gesner sericea ^{lvs 1/2}
 T; cor. r. throughout 2
 ✓33671 Acauth.
 H $\pm$ 1m; cor. pinkish wh, lobes deeper pi
 ✓33672 Senecio Corp.
 H V; rays y
 ✓33673 Phyllanthus
 Slender upright $\pm$ prostrate branches or bank
 ✓33674 Eup.
 S $\pm$ 2.5m; florets wh
 ✓33675 Baccharis?
 S 1-1.5m; infl. pink wh
 ✓33676 Grass
 along cr.
 ✓33677 Calceolaria
 H $\pm$ 40cm; cor. y
 33678 Acauth u
 In. only
 ✓33679 Acauth
 /33680 Rub.
 Tree $\pm$ 6m; flor. branches red; lvs. y

San Antonio, 2000m.; dense for

2/26

wooded bank edge of woods (bank)

(Monte Frio) 20°C
 El Valle: Yanaconas ~~La Victoria~~, 1700-1850m. 2/27
 open bank

Dense for.

- ✓33681 *Psychotria cuspidata*
Sh or succ. tr., up to 2.5 m; fls. ~~white~~ wh.
- ✓33682 *Psychotria*
succ. 4-5 m; fls. wh.; lvs. smooth; fr. red.
- ✓33683 *Arac.*
Ep.; ~~fr.~~ bracts red at base.
- ✓33684 Moss
juv.
- 33685 *Peperomia quadrifolia* "Cuadrillito" lun
Ep. Medicinal para la gonorea
- ✓33686 *Piper*
Sh. $\pm$ 2.5 m.
- ✓33687 *Rub.*
T $\pm$ 5 m; fr. wh.
- ✓33688 *Rub.*
Fr. branches r.; fr. sm blue. T $\pm$ 3 m. 2
- ✓33689 *Arac.*
Ep.
- ✓33690 *Arac.*
 $\pm$ 30 cm.
- ✓33691 *Arac.*
Ep.
- ✓33692 *Polthomorpho* "Hoja de ~~Santa~~
 $\pm$ 4 m Medicinal. "Santamaria"
- ✓33693 *Rub.*
Herb; fr. blue
- ✓33694 *Rub.* "Hoja de la ^{Uva} sangre
 $\pm$ 1 m.
- ✓33695 *Piper* "Cordoncillo"
S $\pm$ 3 m.
- ✓33696 *Peperomia*
Ep. fr. with red red lines
- ✓33697 *Bern.* "Doradilla"

Yanacouas

dwarf for.
1700-1850 m.

227

- ✓33698 Orch.
Ep. ± 1.5 m. ~~Pet. 5 pet. y; lip y, red at center~~ fl. y. red at center
- ✓33699 Arac.
Apo.
- ✓33700 Oncidium
5 pet. y, lip red, y at center. Ep.
- ✓33701 Fern *Thelypteris piloso-hispida* (Hook.) Alst. det. A.R. Smith, 1978
 ± 2 m.
- ✓33702 *Passiflora tryph.*
H.V. fls. wh.
- ✓33703 Elaph.
On tree
- ✓33704 Cyper. un
- ✓33705 *Amyclum*. un
Epi.
- ✓33706 Fern un
- ✓33707 Moss
- ✓33708 *Piper lorei*
Sh ± 4 m; spikes ± 50 cm; lvs. like an *Antennaria*
- ✓33709 *Lindsaea*
Ter.
- ✓33710 Moss.
On dec. branches
- ✓33711 *Cyperus*? Ph-54
Caudex ± 9 m. high, 10 cm. diam; lvs. ± 6 m. long
- ✓33712 *Cecropia* un
T ± 14 m; lvs. wh. beneath.
- ✓33713 Gesner.
Stem simple; fls. maroon.
- ✓33714 *Psychotria nervosa*
H. Pr. black, very lustrous

Yanacomas 1700-1850 m. ^{dense for.}

2/27

- ✓33715 *Lycopodium*
Rastrera
- ✓33716 Moss.
On dec. branches
- ✓33717 Fern
Growing perpendicular to the ground
- ✓33718 *Panicum*
± 30 cm.
- ✓33719 *Agrostis*
~~Flo~~
- ✓33720 *Tibouchina*
Herb, ± sup. 60-70 cm; fls. light blue
- ✓33721 *Vernonia*
Tall vine; heads lilac
- ✓33722 *Viburnum*
Tree ± 6 m; fls. wh.
- ✓33723 *Uncaria cuspidata*
Tree 6-8 m.
- ✓33724 *Wernmannia*
T ± 8 m; fls. wh.
- ✓33725 *Melast.*
PB ± 2 m, ^{erect} stem erect; fls. in axils of lvs.
- ✓33726 *Sciadopityum*
Tree ± 15 m
- ✓33727 *Isoloma*
H. fls. r.
- ✓33728 *Moss*
Bright green; on dec. logs.
- ✓33729 *Rubus*
H. V. Fls. wh.
- ✓33730 *Befaria*
Tree ± 5 m; cor. reddish pi. (Some plants only 1 m)
- ✓33731 *Cordia*
S ± 1.5 m; fls. wh.

Yauaconas, 1700-1850 m; dense forest

2/27

Open to

Open hillside

Edge of woods

dense for.

~~Clearing~~
Clearing

- ✓33732 Sol.
Herb; fls. lilac; lvs. very spring
- ✓33733 Melast. "Mortino"
S ± 1 m;
- ✓33734 Melast.
± 1 m.
- ✓33735 Sol. Melast.
Pls. ~~fr. S. 50-2 m.; fr. gr. with lilac lvs.~~
- ✓33736 Sol.
S. 50-2 m; fls. y; fr. gr. with lilac lvs.
- ✓33737 Tibouchina
H; stem simple; cor. purp.
- 33738
H; fls. wh.
- 33739 Sclerophyllum
H.
- ✓33740 Psidium araca. "Guayabo"
T
- ✓33741 Fern.
- ✓33742 Calliandra carbonaria
T ± 7 m; stem bright red.
- ✓33743 Hib. longifolia
Ep.
- ✓33744 Elaeagia
T ± 7 m; no fls.
- ✓33745 Ficus
T ± 5 m.
- ✓33746 Selag.
- ✓33747 Panpalum
- ✓33748 Rupichlopora polyphylla

Yanacunas, 1700-1850 m; clearing

2/27

open hillside

Yanacunas (El Silencio) 1900-2200 m.
dense for.

2/28

open hillside

dense for.

Open hillside

Barrina
"Barrina de Tacho"

fruit edible

33749 *Paspalum*

33750 *Digitaria*

33751 *Gesneria*

H ± sup. 30 cm.; fls. r.

33752 *Centropogon*

HV; cor. deep pi.

33753 *Gesneria*

Er. S; 1-1.5 m; cor. r.

33754 *Aira*

33755 *Saurauya*

T, ± 9 m; pet. wh

33756 *Sisyrinchium*

Per. pale y

33757 *Oxalis*

Fls. lilac.

33758 *Rubus glaucus*

WV; pet. wh; fr. r

33759 *Gesneria atrolineata*

H; fls. red, with black lines within

33760 *Gnoss*

33761 *Sol.*

stem ^{sub} repent; on ~~factus~~ fls. wh.

33762 *Hydrocotyle*

Repent h; fls. greenish wh.

33763 *Potentilla*

Repent H; fls. y

33764 *Acalypha*

T ± 5 m.

33765 *Plantago*

Yanacouan: El Silencio; open hillside

2/28

"Orquidella"

un

fruit edible

dense for.

poteros

un

un

dense for.

poteros

"Papas, siglante"

dense for.

poteros

- ✓ 767a ~~767~~
 ✓ 767
 33766 *Sanicula liberta* C. & S.
 ✓ 33767 *Gesner. falcata* (Common in the area)
 H, or; cor. l.
 ✓ 33768 *Begonia*
 H; 30 cm; fls. wh.
 33769 *Peperomia* in Km
 Very small epip.
 33770 *Och.* in ~~30~~
 ✓ 33771 *Peperomia nigra*
 Ep.
 ✓ 33772 *Asplenium*
 Ep.
 ✓ 33773 *Elag.*
 Ter.
 ✓ 33774 *Lasiacis*
 Vin.
 33775 *Och.* in
 Ter. 5 ped. green; lvs. wh; col. deep gr.
 ✓ 33776 *Peperomia*
 Ter.
 33777 *Rub. angustifolia* u-l
 T; fr. only
 ✓ 33778 *Polypodium costaric.*
 For. intue.
 ✓ 33779 *Hep.*
 Wet soil
 ✓ 33780 *Ficus*
 Bright green above, white beneath
 ✓ 33781 *Solanum*
 Er. H, ± suff., ± 1 m.; cor. y.
 ✓ 33782 *Sol.*
 N. Er. 50-1 m; fls. cor. wh.

Yanacunas: El Silencio; de mefor.

2/28

- ✓ 33783 *Uncinia*
Ter.
- ✓ 33784 *Burmeisteria*
Er. ± 1 m; cor. green
- ✓ 33785 Moss
On lvs. of 784
- ✓ 33786 Orch.
Refract. orth; fr. only
- ✓ 33787 *Polystichum*
- ✓ 33788 *Asplenium*
Ter.
- ✓ 33789 *Asplenium*
- ✓ 33790 Elaph.
On fallen t
- ✓ 33791 Hep.
with 790
- ✓ 33792 *Chamaedorea*
Trunk ± 2.3 m to infl.
- ✓ 33793 *Lasiacis*
High climbing ✓
Arac. ~~rubra~~ *Spathiphyllum*
- ✓ 33794 Ter.
- ✓ 33795 *Peperomia* una
Ter.
- ✓ 33796 *Piper*
 ± 1.5 m.
- ✓ 33797 *Besleria*
On H $\pm$ sup.; erect st. ± 1 m; Cor. r, with white hairs
- ✓ 33798 orch. *Pleurothallis*
Ep. 3 ft. red, darker r. at center; 2 pet lvs. & cor. y.
- ✓ 33799 *Piper*
S; spikes purple una-3.

Yaucoconas: El Silencio; dense forest

2/28

- 33800 *Paullinia*
High-climbing, woody vine; spikes wh.
- 33801 *Gesner. elongata*
H ± 1.5 m; stem erect; cor. r.
- 33802 *Myrsine*
T ± 8 m; fls. w
- 33803 *Magnoliaceae* "Cabuajo"
T ± 30 m; fls. sessile, purple; stems wh.
- 33804 *Bactris* "Chontilla"
Trunk ± 2.5 m to inf.
- 33805 *Bactris* "Sanea de araña"
T, ± 15 m; fr. only
- 33806 *Gesner.*
Subscandent herb; buds only
- 33807 *Marchantia*
On bank
- 33808 *Cerastium* u. v
- 33809 *Fungus*
On tt
- 33810 *Lichen*
On tt
- 33811 *Asplenium*
On tt
- 33812 *Diplazium*
Short stout thick caudex; fr. ± 2 m.
- 33813 *Marchantia*
On wet bank
- 33814 *Moss*
With 813
- 33815 *Polytrichum* sp. m
On moist bank
- 33816 *Centropogon*
Er 5; .80-1.2 m.; fls. red

Yanacouas: El Silencio; dense for.

2/28

potens

dense for.

33817 *Diplazium*33818 *Gesner.*H $\pm$ 80 cm.33819 *Elaph.*

On fallen TT

33820 *Pennisflora praeculta*H $\pm$ 1 m.33821 *Acutanthus*33822 *Caribbea*33823 *Heliconia*

Br. red; fr. y; infl. erect.

33824 *Piper*S $\pm$ 2 m.33825 *Diplazium*33826 *Dryopteris* *Thelypteris pilosa hispida* (Hook.) Alst. det. A.R. Smith33827 *Gesner.*H $\pm$ 1 m; erect; cor. bright r.33828 *Gesner.*

H cor. r.

33829 *Passiflora*

On log; deep red br.

33830 *Passiflora*

On logs

33831 *Pilea*

Ter; sterile

33832 *Phyllanthus*

S, 20-60 cm; fls. greenish y.

33833 *Arac.*Petiole r, with wh. bands; lvs deep gr., white
along veins.

Yamouas: El Silencio; dense for.

2/28

7510 ft

- 33834 *Hsuea*
 Drooping from trees
- 33835 *Geum*
 H. fr. wh.
- 33836 *Thib.*
 Ep.; buds red out.
- 33837 *Elaeagnus* u-15
 Ep. fr.
- 33838 *Anthurium*
 Ep.; sp. pink
- 33839 *Anthurium* u-15
 Ep.
- 33840 moss
- 33841 *Ort.*
 moss
- 33842 *Oxalis*
 S $\pm$ 2.2 m; pet y
- 33843 *Polypodium* u-15
 Ort.
- 33844 Fern
- 33845 *Bromel.*
 Very common at this alt, but more fr.
- 33846 *Alchornea*
 Ep. buds deep green at apex
 T 10-15 m.; fr. deep gr.
- 33847 *Myrt.*
 fls. wh. T $\pm$ 15 m.
- 33848 *Visinia rufescens* "Laere"
 T 3 m; ind. reddish
- 33849 *Verberna* "Verberna"
 N.
 for typhoid fever
- 33850 *Grass*

Yanaconas: El Silencio, dense forest

2/28

2000
1500 m.Yanaconas: near school
 edge of woods
 open fields

2/3/1

33851 *Papanea guianensis*
T ± 4 m.

33852 *Paucium*

33853 *Asoloma*

Erect h, ± 1 m; cor. r.

33854 *Cephea*

Fls. pinkish blue; very common

33855 *Paspalum*

33856 *Cucubora*

Pl. 56

Pl. "Casarichi"

T ± 8 m.; cor. wh.

33857 *Eleocharis*

Moist ground

33858 *Nymphaea*

On bog

33859 *Tournefortia*

S 2.5-3 m; fls. & fr. wh.

33860 *Tropaeolum*

HV; pet. bright r.

33861 *Browallia*

H; cor. bright bl.

33862 *Clusia*

T 6-7 m.

33863 *Liabum*

H erects ± 1 m; fls. y

33864 *Weinmannia*

S ± 2.5 m; fls. wh.

33865 *Tigridia javana*

H.

33866 *Desmodium*

HV; fls. bright bl.

33867 *Clusia*

Inf. wh; S with along. br.

Yandouan: near school; Thales

3/1

bank

open hillside

Along stream

Dense forest ± 2000 m.

El Valle: Saladito, ± 1500 m.

3/2

San Antonio, 2200-2350 m.

bank along trail

dense for.

bank along trail

dense for.

bank along tr.

Tulipan

u 15

u 16

- 33868 *Sobralia* Ua
Ter ± 80 cm; per. wh.
- 33869 *Eleocharis*
Ter, ± 80 cm; br. pi; per. (buds) wh
- 33870 *Epilobium fimbriatum*
Ter; 5 pet. wh or pinkish; $\pm$ few spotted purpl; ^{lip some} 2 spots
- 33871 *Begonia?* sub.
Ter; pet deep pi to r; ± 50 cm.
- 33872 *Thib.*
Br. purp. cor. wh at base & apex, pi at ~~center~~ middle
- 33873 *Tringia*
On bank, dull gr. above, which ~~be~~
- 33874 *Psychotria* u-l
S ± 1.5 m.; cor. rich purple
- 33875 *Clusia brevicauda* Ua
T, 5 m; buds cream
- 33876 *Disterigma*
S, much branched, branches hanging over shrubs; ^{br. pi.} ~~leaves~~
- 33877 *Rub.*
T ± 8 m fr. only
- 33878 *Anthurium* u-b
Ep.
- 33879 *Ochla* u-b
^{stemless} Ep; 5 pet. pt; lip & wh, y-g at apex; col. wh.
- 33880 *Thib.*
Ep; long br.; calyx & cor. below deep pi, cor. above ^{wh}
- 33881 *Gesn. rugosa*
Br. r; fr. wh.
- 33882 *Arch*
- 33883 *Ep.* per. greenish brown
Stelis
- 33884 *Ep.* fr. gr.; 3 pet. deep pi, lip & col. gr.
Arch
Ep. sterile?

El Valle: San Antonio, 2200-2350 m. 3/2
Rhynch.

roadside bank

dense for.

± 7100 ft.

- 33885 *Hymen.*
Drooping on TT.
- 33886 *Hymen.*
T 5-6m; cor. pi, spotted
- 33887 *Polypod.*
Ep.
- 33888 *Polypod.*
Ep.
- 33889 *Acauth* unk
H Br. pi.; cor. wh, unspotted
- 33890 *Asplen.*
Ep.
- 33891 *Burmannia*
H; cor. gr.
- 33892 ?
T $\pm 15m$; calyx very fleshy; fls. r. fr. red.
- 33893 *Gesner*
H $\pm 80cm$; cor. r.
- 33894 *Anthurium*
Ep.
- 33895 *Gesner. sericea*
T; cor. deep pi.
- 33896 *Och.* A-11
Ep.; buds reddish
- 33897 *Pteris*
- 33898 *Hymen*
T; $\pm 6m$; trunk 8cm; fls. wh.
- 33899 *Dryopteris* *Thelypteris lepicurii* (Hook.) Tryon var. 1. det AR Smith 1976
- 33900 *Polytrichum*
On dec. TT
- 33901 *Hep*
DD

El Valle: San Antonio ^{same for} 2200-2500m

3/2

- 33902 Polypodium
 4m
 33903 Anagallis
 Ep.
 33904 Bauhinia
 # Long-climbing vine; sterile
 33905 Gesner.
 Ter. $\pm$ 60cm; br. y.
 33906 Orch.
 Ter. 3 ft with wh. hairs, y apex, canine base; ^{col. greenish y} ^{with yellow} ^{with canin line}
 33907 Dypsis
 33908 Policonia
 Sm tr, $\pm$ 3 m; branches inf. blue; cor. ^{light blue over} ^{with} ^{lobes} ^{deep} ^{green}
 33909 Anthurium
 Ep. spathe wh; spad. reddish pi
 33910 Chamedorea
 Trunk $\pm$ 2 m.
 33911 Brom.
 Ep; ~~fr. bright blue~~ of 65 (64+) bracts red-brown
 33912 Brom.
 Ep. Bract r
 33913 Carludovicia
 Ep. Ter. $\pm$ 3 m; fr deep pi
 33914 Gesner.
 Ep; br. r.; buds greenish-y; fr. white
 33915 Piper
 T $\pm$ 4 m.
 33916 Peperomia
 Ter.
 33917 Cleome
 H $\pm$ 2 m; fls. purplish
 33918 Anthurium
 Ep.

u-1c

San Antonio, 2200-2300 m, dense fr.

3/2

u-9

u-9

- 33919 Polypod.
Rep. on tt
- 33920 Gesn.
Ep.; br. r.
- 33921 Bonarea
H. V, ^{bloody} thick - climbing; flt. red, ^{with large purple spots} dec. of toward y claus.
- 33922 Mimosa florib.
Stem. pi.; 5±2 m, branches along
- 33923 Lantana
Suffrutescent. 30-1.5 m; cor. wh, pink-tinged
- 33924 Acalypha
T ± 5 m.
- 33925 ?
T ± 8 m; fr.
- 33926 Sol.
Er. S ~~±~~ 1 m; fr. purplish-black
- 33927 Rynchospora
- 33928 Euph.
T
- 33929 Samaya
T ~~4-5 m~~ 3-4 m.
- 33930 Tillandsia
Ep.
- 33931 Phyllanthus
H; fls greenish
- 33932 Asplen.
Ep.
- 33933 Melast.
T 3-4 m.
- 33934 Hymenoph.
Drooping from t branches
- 33935 Centropogon
S 1.5-2 m; cor. or, red apex

San Antonio; dense for.

3/2

on inside (only).

thickets

dense for.

- 33936 *Nelost.*
S ± 1 m; pet. w, stem y
- 33937 Moss
Drooping from branches
- 33938 *Begonia*
Shrub, 30-50 cm; pet. wh
- 33939 *Alsophilula*
Caudex short, subterranean; fr. 5 m. l, ^{incl. stipe} ± 2 m
- 33940 *Thick. spk.*
T 7-8 m; cor. wh
- 33941 *Orch.*
Ter; fl. wh
- 33942 *Chamaedorea*
= 62 Ph. 1 (with S,
trunk ± 8 m
- 33943 *Chamaedorea*
= 63 Ph 2
Trunk ± 8 m; trunk ± 9 cm diam.
- 33944 *Chamaedorea dryanderana* ^{prostrata} ~~erect~~
= 64 Ph 3
Slender tree, trunk ± 2.5 m, 2-3 cm diam
- 33945 " *usph.*
Slender tree, trunk ± 2.5 m high
- 33946 Moss
On dec. log.
- 33947 *Inga*
"Guato parero"
T ± 10 m 8 m; Stam. wh.
- 33948 *Meltonia peruviana*
"un Ph-69"
young tree, intro
- 33949 *Inga*
"Guavino" "Guabito"
T ± 5 m; st. wh
- 33950 *Orch.*
Life gr. out, wh or pi-stipled in
Ep. 5 pet. gishy, densely lined in with deep pi, ^{col. green} un
- 33951 *Camnaceae*
H ± 2 m; br. y, becoming reddish if fr. fresh leaves, reddish after
- 33952 *Croton gongph.?*
Sh. a sent ± 2.5 m,

San Antonio,

same for.

3/2

"El Hatico," Haco. of Dr. Molino Garcia, 2 Km, n of Palencia
Open

3/5

woods

33956a. *Piper*
SE 2m.

33953 *Cordia alliodora*.

5 ± ~~1.4~~ 1.4m;

33954 *Bignonia*

Woody vine; ev. y.

33955 *Bignonia*

Woody vine; cor. wh.

33956 *Ploradendron*

Parasitic

33957 *Polygodium fimbriatum*
Sh. ± 2m (956a)

33958 *Basell.*

HV

33959 *Holcus*

33960 *Lantana*

Suff. herb, ± 1m; cor. wh to pinkish wh.

33961 *Crucif.*

Pet wh

33962 *Echeveria*

Succ. lvs; buds yellowish

33963 *Orch.*

Ter; 3 sep. q, 2+ lvs 4-9.

33964 *Hibiscus* or *Abutil.*

H ± 2m; fl. red. (Cult.)

33965 *Passiflora bogotensis*

H.V.

33966 *Monstera?* *Polygodium fimbriatum* = alt 7410

5 ± 1.5m; cor. pinkish y.

33967 *Pilea lindleyi*

H, up to 80cm.

33968 *Hieracium*

H fls or y

33969 *Alchem. orbic.*

Roots subrep.

V = to Sand Inst.

El Hatico

open grassland

3/5-

woods

= alt. 7410

↑
Cund.: Bogotá, ± 2200m

shaded bank

3/8

Salto de Tequendama; partially shaded
islands
alt. ± 2500m.

- 33970 *Presine* (not *celosia*)
H, subscandent; inf. greenish
- 33971 *Comp.*
S 2-2.5 m; sep. grayish wh.
- 33972 *Salvia*
H; cor. deep blue
- 33973 *Oxalis* "Acclera"
N. elong. branches up to 1 m long; pet y
- 33974 *Cuphea* *serpyllifolia*
Subrep., suff. herb; pet. rich purple
- 33975 *Kyllburgia*
Moist soil
- 33976 *Begonia*
Herb. br. herb up to 1 m high; fr.
- 33977 *Saurauja*
T $\pm$ 5 m; pet wh
- 33978 *Comp.*
S $\pm$ 1.5-2 m; rays wh.; florets greenish
- 33979 *Pilea gonolobium*
Suc. herb up to 1 m
- 33980 *Passiflora* *erythrophyllos*
H.V.
- 33981 *Valeriana*
H.V.; fls. greenish wh; fruit with papery but not fleshy
- 33982 *Comp.*
Br. greenish wh. S $\pm$ 3 m.
- 33983 *Oenothera*
Pet y
- 33984 *Piper*
S $\pm$ 2.5 m
- 33985 *Comp.*
Herb. S $\pm$ 1 m; fl. wh
- 33986 ~~*Minutaria*~~ *Oenistia*
Solong. br; cor. wh.
S 2-2.5 m; cor. greenish y

Salto de Tequendama; partially
shaded hillside

3/8

woods

shaded hillside

- 33987 *Euph.*
S $\pm$ 2.5 m; fleshy
- 33988 *Cent.*
Slender herb; rays wh.
- 33989 *Stevia*
Fls. wh; sup. herb 35-50 cm.
- 33990 *Aypha defetala*
Sh, long slender br. up to 1.5 m. long; pet. deep purplish-blue
- 33991 *Heimia*
HV
- 33992 *Thit. cordata*
Much br. sh, branches erect; cor. tube deep pi, green apex
- 33993 *Bouteloua*
- 33994 *Psychotria*
S ~~1.5-2 m~~ 1.5-2 m; up. branch pi.
- 33995 *Epidendrum*
Ter. per. seg. all light green, fleshy
- 33996 *Isoloma*
Er. sh $\pm$ simple stem, $\pm$ 1-1.5 m high
- 33997 *Castilleja*
~~Suffrutescent~~ Shrubby; $\pm$ 1 m
br. r.,
- 33998 *Melast.*
 $\pm$ 50 cm
Sup. herb; pet. deep pi, anthers y.
- 33999 *Euphorbia*
- 34000 *Bomarea racemosa*
Climbing;
High-climbing vine, upper part of stem
Red notes
- 34001 *Morima*
S $\pm$ 50 cm; pet. deep blue
- 34002 *Apium*
Un
- 34003 *Geranium*
St. suberect; pet. pi.

Salto de Tequendama

shaded hillside

3/8

open woods

H

open hillside

open woods

open hillside

thickets

open hillside

34004 Grass

34005 Myrica pub.
T 3-4 m.34006 Trif. filiforme
Ref. H. & fls. y34007 Eleochar.
pitch34008 Cuphea
H; slender, sparsely br; pet. blue34009 Cuphea
H. pet. deep pi.34010 Phytolae.
2.0-1.5 m.
H ~~5-10 m~~; fls. o fr. rich pi

34011 Carex

34012 Miconia thaezans
~~Small~~ Small tr, 2.5-3 m; pet. wh34013 Casearia
± 2.5 m;
Slender tr.

34014 Grass

34015 "

34016 "

34017 "

34018 Paspalum

34019 Cordia

S 2.5-3 m, stem ± 10 cm diam; cr. light gr, erect (w lobes/denticulate)

34020 Ryuchiopsis

Salto de Tegundama; open hillside

3/8

woods

open hillside

open hillside

H

u

- 34021 ~~Stachys~~ *Sphoropogon*
S elong tr.; cor. wh.
- 34022 *Mintha* ~~stachys~~
with elong. branches;
S; cor. wh.
- 34023 *Weinmannia*
Sm T; sterile
- 34024 Grass
Elong stem
- 34025 *Klappothia*
H subsc.; pet. wh.
- 34026 *Bomarea*
See notes on 34000
- 34027 *Alternanthera*
Subsc. herb; heads greenish wh.
- 34028 *Scroph.*
H; cor. light y
- 34029 *Passifl.*
H V. climbing over shrubs.
- 34030 *Rynchospora*
- 34031 *Plantago*
- 34032 *Boehmeria* *ragosa*
S 50-100 cm.
- 34033 *Tropaeolum*
H V; calyx r, lobes gr; pet. ~~sub~~ purple black
- 34034 *Begonia* *tropaeolifolia*
Succ. vine, dependent on bank
- 34035 Grass
- 34036 *Calceolaria*
Cor. y
- 34037 *Myrt.*
T ± 4m br.

Salto de Tegundama; open hillside
≡

3/8

shaded hillside

open woods

~~open~~ hillside

Thicket

~~shaded hillside~~

open bank

Thicket

open hillside

wet bank

edge of woods

34038 *Cissampelos tropaeolifolia*
H

34039 *Polyst.*

34040 Moss

34041 Orch.

34042 *Viburnum*

S ± 3 m; fr. black; fls. wh

34043 *Spilacete*

S ± 1 m; corolla deep blue; fr. blue

34044 Leg.

Suf. H to 1.2 m; fls. y

34045 *Epidendrum*

5 pet. light pi; lip w; col. y. Ter.

34046 Grass

34047 Paep.

34048 *Rubus*

Woody vine; fr. black

34049 *Panic. mixta*

H ✓ St p. n.; corolla w; irregular.

34050 *Cordia*

S 2.5-4 m; cor. wh.

34051 *Hesperomela*

S ± 2 m; pet. wh

34052 *Parosmia*

T; calyx & st. cream wh.

34053 *Hesperomela*

S

34054 *Rapanea*

T to 5 m

Salto de Tequendama; *Urichia*

3/8

Brink of falls

Above Usaquén, 9200-9500 ft.; ^{bank} along road
= 2800-2900 m.

3/12

"utamo"

"Curuba"

"Martino"

Un-P

34055 *Smilax tomentosa*

WV

34056 *Espeletia*34057 *Senecio*S $\pm$ 70cm; fls. y34058 *Oreopanax*T $\pm$ 7m34059 *Lichen*

On twigs

34060 *Moss*

On soil

34061 *Arch-Mesclaria*Ter; 5 pet. greenish, pi-tinted; lvs pi-spotted ^{col y.}34062 *Moss*

On branches

34063 *Lichen*34064 *Lichen* "34065 *Moss* "

On soil

34066 *Sphagnum* "34067 *Lichen*

On branches

34068 *Lichen*34069 *Sphagnum* "

On soil

34070 *Polytrichum*Mixed with *Sphagnum*34071 *Stelis*

Ep. buds pi

Above Utaguain, 9200-9500 ft.

s/r 2

Los Gages, below Par. de Guacat
 $\pm$ 10700 ft. (3250m)
woods

- 34072 *Seneio*
Rupl. 7-9. S 2-3m.
- 34073 *Bouarea*
HV, slightly vol., climbing to 3m; sep + pet. red, yish prior
- 34074 *Macrocarpaea*
S 2-2.5m; cor. greenish y; branches ar.
- 34075 *Moss*
on soil
- 34076 *Weinmannia*
S
- 34077 *Drinys*
Su-tr. fl. cream
- 34078 *Tibouchina grossa*
T 3-4m; pet. deep red
- 34079 *Culeita*
- 34080 *Stelis*
Ep; per. sep. gr., ^{pink} slightly ^g-tinged.
- 34081 *Mysminac*
S
- 34082 *Eloph.*
Ter.
- 34083 *Aspl. zorra*
Ter.
- 34084 *Rhexia refracta*
- 34085 *Polytr.*
Rep. mt.
- 34086 *Lomaria*
- 34087 *Stelis*
Ep; per. y
- 34088 *Hep.*
Roots f. ach.

Un-P

Gino Bue

Un-P.

Los Gaguas, below Par. de Guasca
± 10700 ft.

3/12

alt.
= 7492

~~alt. 7446~~

= alt. 7490

= alt. 7463

= alt. 7479

= alt. 7454

34089 *Orch.*
Ep.34090 *Orch.*
Moist soil (Sphag.)34091 *Rhynchospora*34092 *Hypochaeris*

S 30 cm - 60 cm fls. y.

34093 *Grass*

Hanging from branches

34094 *Hymenophyllum*34095 *Jamesonia*34096 *Psilogramma*34097 *Deplatanthium*

Compact S, up to 50 cm; rays purple

34098 *Polytrichum*

Hanging on trees

34099 *Espeletia grandifl.*

Ph-82

34100 *Polytrichum*

Ep.

34101 *Psilogramma*

Vine

34102 *Agave*

Un-P

34103 *Aster*~~Un-P~~34104 *Grass*34105 *Sisyrinchium*
Per. ygiant
Un. P

3/12

#

Paramo de Guasca, ± 11000 ft. (3350 m)

woods

= alt. 7489

= alt. 7459

open

Los Gages

woods

Par. de Guasca $\pm 11,300$ ft. open (3450
(3475 m))

woods

open

= 7456 alt. 7485 / woods

Los Gages ± 10700 ft.

open

Par. de Guasca $\pm 11,300$ ft. (3450
(3475 m))

34106 Carex

34107 Rubus chivachensis

Suberect S, elong. branches; fls. pink-red

34108 Halenia

Cr. & light green

34109 Werneria

Erf. lvs flat on ground; nups yellow.

34110 Acaena

34111 Epidendrum

Erf. Per. sep. ovl y-g, lip pi-spotted; cal. pi.-margin

34112 Orch.

Erf.

34113 Hep.

Roots of orch.

34114 Elaph.

Ter.

34115 Stelleria

Subsc. herb; ped. wh

34116 Hymen.

Erf.

34117 Orch. (distichous)

Erf. per. yish-y

34118 Lichen

On branches

34119 Chusquea weberbaueri

St. erect 1.5-2 m

34120 Paep.

young lvs very hairy

34121 Moss

on bank

34122 Galium

Cr. wh. E. H

Pat. de Guasca, $\pm 11,300$ ft open (3450 m)

3/12

woods

Los Gages, ± 10700 ft.Par. de Guasca, $\pm 11,300$ ft. (3450 m)

= Alecton 7488

open

woods

- 34123 moss
on trees
- 34124 *Dryopteris fruehlii*
- 34125 "
- 34126 *Polypodium*
Ep.
- 34127 *Cestrum*
S 1-2 m; cor. y.
- 34128 *Vicia*
Cr. h., ± 15 cm; fls. pinkish blue
- 34129 *Carex*
- 34130 Lichen
On rocky bank
- 34131 *Werneria*
Caespitose flat on ground; rays wh
- 34132 *Paspalum* un-1c
- 34133 *Stachys* *riming* 11/1/39
Cor. blue un-1c
- 34134 Eup.
Sh. ± 1.5 m (compact) (old)
- 34135 *Vaccinium*
S ± 2 m; cor. wh
- 34136 Grass un-1c
- 34137 *Espeletia*
Ray y; fl. antessile
- 34138 *Senecio*
Compact sh; 1.5-2 m.
- 34139 *Olcheanella orbic.*
Eub. ref.

(3450 m).
Par. de Guasca, $\pm 11,300$ ft. woods

3/12

= Alston 7453

= Alston 7486

open

 $\pm 11,500$ ft. (3500 m)

Eup. *vaccinosefolium*
is small. local Eup.
from Guasca, near
very common

34134?

34135 m
 $\pm 11,400$ ft. (west side)
3450 m
 $\pm 11,300$ ft. (east side)

- 34123 moss
on trees
- 34124 *Dryopteris furensii*
- 34125 "
- 34126 *Polypodium*
Ep.
- 34127 *Cestrum*
S 1-2 m; cor. y.
- 34128 *Vicia*
Cr. h. $\pm$ 15 cm; fls. pinkish blue
- 34129 *Carex*
- 34130 Lichen
On rocky bank
- 34131 *Werneria*
Caespitose flat on ground; rays white
- 34132 *Paspalum*
un - 1C
- 34133 *Stachys* *Wimmeri* 11/6/39
Cor. blue
- 34134 *Eup.*
Sh. $\pm$ 1.5 m (compact) (old)
- 34135 *Vaccinium*
S $\pm$ 2 m; cor. white
- 34136 Grass
un - 1C
- 34137 *Espeletia*
Ray y; fl. sessile
- 34138 *Senecio*
Compact sh; 1.5-2 m.
- 34139 *Alchemilla orbic.*
Subsp.

(3450 m).
Par. de Guasca, $\pm$ 11,300 ft. woods

3/12

= Alston 7453

= Alston 7486

open

 $\pm$ 11,500 ft. (3500 m)

PLANTS OF PERU

vitaminosa, 90 cm. high;
white.
On ridge

* 3425 m

 $\pm$ 11400 ft. (west side)

3450 m

 $\pm$ 11300 ft (east side)

- 34140 ~~Erica~~ *Kelsoa*
Composite sh. $\pm 2.2m$.
- 34141 *Polytrichum*
On soil
- 34142 *Vaccinium*
Low S
- 34143 *Alchemilla*
Spreading h. $\pm$ woody
- 34144 Moss
On soil.
- 34145 Grass
u-K
- 34146 *Geranium cucullatum*
Rep. herb.; wet pi.
- 34147 *Alchemilla aphanes*
u-K
- 34148 *Paep.*
Low. smooth. Caesp.
- 34149 *Euph.*
Comp. shrub 2-2.5m.; Rays white
- 34150 *Senecio forsteri*
Rays deep pink.
- 34151 *Diplostegium*
S; Rays lavender
- 34152 *Ranunc.*
Stems
- 34153 *Puya*
Ph 81
- 34154 *Bomarea*
Seg. red. suberect herb
- 34155 *Veronica*
Cor. bright blue
- 34156 *Euph. Thib.*
S 2.5-3m, elong. br.

Par. de Guasea $\pm 11,300$ ft. woods (east side)

3/12

open

woods

open

± 10800 ft. ~~woods~~

marsh

open (3475-3566m)
11400-11700 ft Ph.

woods $\pm 11,300$ ft (3450m)

Los Gages, ± 10700 ft marsh in open $\pm 10m$

woods

- 34157 *Senecio*
wv
- 34158 *Oplis* un-11
Suc. subsc. H; pet. y
- 34159 *Hydrocotyle*
HV
- 34160 *Liabum*
HV; rays bright y un-15
- 34161 *Polystichum*
- 34162 *Luzula*
- 34163 *Begonia*
Suc. H; pet. pi.
- 34164 *Stelis*
Ep.; per. y-g
- 34165 *Anthurium*
Ter.; subscand.
- 34166 *Marchantia*
- 34167 *Peperomia*
Efr
- 34168 *Bambusa*
Suberect, ~~bran~~ $\pm$ 2 m, branches slightly drooping
- 34169 *Clusia*
T 15-20 m; fls. green y
- 34170 *Eppalotia argentea*
Keys y; lvs. silvery white.
- 34171 *Polygon*
- 34172 *Gross*
- 34173 *Hypemium*
S^h 20-50 cm; pet y

Los Gages, $\pm$ 10700 ft. Woods along
stream

3/12

= alt. 7448

clearing open hillside.

woods along stream

edge of falls

open

open bush

- 34174 *Nicotiana*
Compact S, ± 2 m; pet. wh
- 34175 *Melast.*
S; pet. rich pi.
- 34176 *Senecio*
Compact S ± 1 m; inf. y
- 34177 *Melast.*
S 50-100 cm; pet. purpl., anthers y
- 34178 *Hypericum*
S 20-50 cm; pet. y
- 34179 *Thib.*
S $2\frac{1}{2}$ -3 m, elong. br.; cor. fr; whitish at apex
- 34180 *Bidens*
WV; rays y
- 34181 *Castilleja*
Br. bright red; 8 ft 40-70 cm
- 34182 *Liatris*
WV; rays y
- 34183 *Hypericum*
S 1-1.5 m; pet y
- 34184 *Acaena*
S, spreading on ground
- 34185 *Hypericum*
Erect S, 30-50 cm; stems & br. erect; pet y
- 34186 *Eup.*
Slender S, ± 1 -1.2 m; fls. whitish? (old)
- 34187 *Elaph.*
on shaded bank
- 34188 *Gaultheria*
S ± 80 cm, elong. subprostr. br.; fr. black
- 34189 *Lobelia*
Slender h, up to 1 m high; cor. blue
- 34190 *Senecio verticillata*
Er. S 35-50 cm.; florets yellowish green

Los Lagunas, ± 10700 ft. open

3/12

Boqueron de Chipaque, ± 10700 ft. (unshaded)
thickets (3250 m.)

3/16

open bank

thickets

Edge of woods

- 34191 *Claph*
- 34192 *Lycop. jussiae*
subscandent
- 34193 *Diplostefium*
S 1-1.5 m; florets greenish wh, rays wh
- 34194 *Hesperomela*
S or sm. t 2.5-~~3~~ 3.5 m; pet. wh.
- 34195 *Werneriina* *torulosa*
T 3-4 m
- 34196 *Eup. crassifol.*
S 1.7-2.5 m; florets & styles wh.
- 34197 *Mouningia*
Er. S 1.1-1.2 m; pet. deep blue
- 34198 *Vicia*
Pet. blue; subprostr. herb.
- 34199 *Acytophyllum*
Er. S, 80-120 cm; cor. wh.
- 34200 *Befaria* "Anguicho"
S 30-70 cm; cor. bright r, paler at apex
- 34201 *Borreria*
Pl. suff.; elong br.; cor. wh.
- 34202 *Carex*
- 34203 *Stachys*
H subscandent; cor. blue
- 34204 *Melast*
S $\pm$ 50 cm; pet. deep pi.
- 34205 *Eup.*
S $\pm$ 1 m; inf. wh.
- 34206 *Cestrum* *brupif.*
S 30-60 cm; fls. cor. greenish wh, ~~pinkish~~ streaked
- 34207 *Grass*

(150 m)
Boqueron de Chapague, $\pm$ 10300 ft.
open land

3/10

open

thickets

open

thickets

~~th~~

open

thickets

open hillside

thickets

open

- 34208 *Luzula*
 34209 *Baccharis*
 34210 *Espeletia*
 Trunk up to 20 cm; rays y
 34211 *Senecio*
 Compact ± 1.5 m; infl. greenish
 34212 *Baccharis*
 S
 34213 *Ranunculus*
 Pet. y
 34214 *Alchemilla aphanoides*
 34215 *Sisyrinchium*
 Per. y
 34216 *Puya*
 Lvs ± 30 cm; culms ± 60 cm.
 34217 *Cestrum*
 Shrub 2.5-3 m; cor. blackish
 34218 *Marchantia*
 34219 *Scleria*
 34220 *Grass*
 34221 *Pfaffia*
 H ± 50 cm.
 34222 *Opuntia*
 Tr; seg. pinkish wh; col. pi.
 34223 *Mimosa*
 S 40-60 cm; pet. dull blue
 34224 *Grass*
 ± 1.5 m; infl. pinkish red

(3150 m).
 Boqueron de Chapague, ± 10300 ft.
 open bank

87.6

In open

marsh

open

Thickets

~~Chusquea~~ *Chusquea*; *Chusquea* (1530 m)
~~WIEB.~~

Roadside ditch
 open bank

34225 *Cordia*H $\pm$ 40 cm; per. wh.34226 *Thib.*

S 1-1.5 m; cor. r, lobes pink

34227 *Salvinia filicoides*34228 *Oryopsis opposita* (Vahl) Wrt.34229 *Jussiaea*34230 *Siphocamp*

H 25-40 cm; cor. r.

34231 *Gram*

(common here)

34232 *Licania*

cor. blue

34233 *Eup.*S $\pm$ 30 cm; flowers pink34234 *Acalypha*

Sun T.

34235 *Miconia*

T 3-4 m; pet. wh.

34236 *Peperomia*

On bank

34237 *Peperomia*

Do. shade

34238 *Peperomia*

On branches

34239 *Casipourea*

On wet bank

34240 *Henrietta*

Tree 3-4 m; pet. wh.

34241 *Scleria*

Cund. Meta: Huatam

open

3/16

ditch

partially shaded bank

(Cund. Meta)

open

Piquel 1200m forested valley

Meta: 20 km. So. of Villavieja $\pm$ 500m.
dense palm jungle

3/17

34242 *Tococa*S or sm t, with elong. branches; ant-upter; pet. ^{wh}, pale fr. ^{anth wh} m; dense palm jungle34243 *Polypod.*

on tt

34244 *Rhus*

T 3-4 m; buds greenish

34245 *Cordia nodosa* *Visamia*T ⁴⁻⁵ m, stem ^{at top = brown} erect, spreading (sterile)34246 *Piper*

S usually 30-60 cm, rarely to 2 m; br. spreading

34247 *Herrenia*Sm t, 3 m high; lvs at summit, fls. ^{on lower part of} stem which is ^{+ 2 cm diam.}; pet. red34248 *Piper*T 4-6 m, com. but only 1 sp. seen; ^{largest leaf = 13 in long and narrow} on top of34249 *Ecchatoxanthus*

on tt

34250 *Picramnia*T 3-4 m; st. simple 2-3 cm diam; ^{ant-upter} lvs. dense; ^{infl. stem} br. orange34251 *Casarea*

S 2.5-3 m, elong br.; pet. wh

34252 *Virola*Large tree (fallen), ^{infl. red} no fruit34253 *Papaver*

Dependent from branches

34254 *Peperomia*

Large tree (fallen); buds greenish-wh.

34255 *Uncaria*

T 1 m; pet. pi.

34256 *Gram*Stems erect ± 1 m34257 *Cyper*34258 *Sparganium*Ter. spike light green, white an; seed greenish
Common along this stream

3/17

Meta: 20 km SE of Villavieja

edge of jungle

dense palm jungle

marshy stream bed

- 34259 *Eucalypt*
In water &
- 34260 *Enicost*
do
- 34261 *Acanth*
In water
- 34262 *Cladonia*
on log
- 34263 *Moss*
do
- 34264 *Moss*
do
- 34265 *Pithecel*
T $\pm$ 10 m; ~~calyx~~ cor & stamens pi.
- 34266 *Philodendron palmatum*
Climbing on trees; fruit wine-col.
- 34267 *Palm*
Trunk straight, ²⁰⁻²⁵ 20 m, 15-20 cm diam.
- 34268 *Pandanus*
WV; fr. deep r.
- 34269 *Meli?*
T 10-12 m, fr. only
- 34270 *Palm*
See Separate Fruit Collection! Fruit Sep.
Aculeate; inf. at base; lvs 4 m long, pet. 1.5 mm
- 34271 *Dussia*
S $\pm$ 2.3 m; with slender trunk & dis. br.
- 34272 *Rub.*
S or SW T
- 34273 *Aplousis*
S $\pm$ 1-1.5 m; br. r, fls. 7; fr. bright blue
- 34274 *Chamaedorea*
T slender, $\pm$ 1.5 m; fr. purple
- 34275 *Palm*
See Separate Fruit Collection!
T straight $\pm$ 6 m high

Notes: 20 km SE Villavieja to 00 m.
Along shallow stream bed

3/7

stream bank in jungle
palm jungle

34276 Cyper.

34277 Ischnop

H, st. $\pm$ 1 m; per. wh.

34278 Uclast.

S. along br.; pet. wh, fr. purp

34279 Thunberg

On log; pinkish red.

34280 Pittacul cuneif.

Vine? Fr. on stem

34281 Bertiera Bertiera

Sun t; fr. black; buds cream

34282 Moss

On wet log

34283 Polyp.

on tt

34284 Olyra

1-1.2 m

34285 Phil.

Ep.; spathe red lower $\frac{1}{2}$, pinkish wh up.

34286 Selagin, hookii (! det)

Ter. (very rare) Very cool. at Fuzun?

34287 Polypod.

on t.

un-K

34288 Xanthos. dilacerata

Ep

34289 Piper

S 1-1.5 m.

34290 Renealmium

Aest.; infl. at base, fr. r., per y; ^{low distinct} stem $\pm$ 1.5 m.

34291 Uclast

H; pet pi

34292 Misc. Scorpioides

T 7-9 m;

Note: $\pm$ 20 km 20 Villavieja
palm jungle

3/17

Edge of jungle.

34293 *Mic. albicans*

T

34294 *Apor.*

HV; fr. only

34295 *Nimrod colombiana*

WV

34296 *Siparuna*34297 *Erosima* single.

Br. subsp.; fls. y

34298 *Hirtella*

T

34299 *Myrt.*T $\pm$ 9m34300 *Sap.*

T 6-8m

34301 *Euphorbia*

T 5-8m

34302 *Rapini*

T fr. w/ fr. hump

34303 *Dicler*

WV

34304 *Clitoria*

T 8-10m

34305 *Bursera*

T

34306 *Pinbistylis*

muddy shore of pool

34307 *Utricularia*34308 *Galactia*

St purp, heel pinkish

34309 *Hyptis*

Cul pinkish white

Grise Blue

Grise Blue

edge of jungle

llano

edge of woods

Llanos

20 Km SE of Villavieja; ^{edge of} ~~fringe~~ jungle

9/17

34310 *Panicum*34311 *Andropogon*34312 *Comm.*
*Gram.*34313 *Xyris*34314 *Sub. Group*Succ., thick rootstock; ~~sp. wh.~~ *Adiantum*34315 *Chenopod.*

Stems 50 cm.; fls. y.

34316 *Gnaphalium*

Suff. spreading br.; fls. y (viscous)

34317 *Leg.*

Suff.; fls. y

34318 *Hyptis*

Stems 30-50 cm.; cr. wh.

34319 *Grass*

34320 "

34321 "

34322 *Trachypogon?*34323 *Grass*34324 *Polygala*34325 *Eriosema*

cr. y

34326 *Eup.*

Suff. pi.

20 Km. S.E. of Villavieja, *Planos*

3/17

*Bur**Bur*

- 34327 Phas.
St. rep.; pedicels erect; fls. pink & green
- 34328 Ananthe
Infl. wh.
- 34329 Soleria
- 34330 Ruellia
Cor. pink blm
- 34331 Dichromum
Br. wh. at base
- 34332 Zornia Ben
Pet 4
- 34333 Jacaranda
T; fls. blm (on ground)
- 34334 Orch.
Ep.
- 34335 Grass
- 34336 Arec.
Ep. (more slender?)
- 34337 Clusia
T 4-5m; fr. light gr.; seeds red
- 34338 ~~Passiflora~~ ~~sub.~~
Sor sub; fl. purple-black
- 34339 Saccoloma
- 34340 Vismia
T 4-5m
- 34341 Chanisosa
Inf 1; infl. greenish
- 34342 Cecoloma
T 3-4m; pet. brightly
- 34343 Chamuf.
St 1.5m; pet. light y; apex deep
up to base purple.

+ 20 Km se Villavieja Flam.

3/17

palm jungle

Villavieja: roadside thicket, 5-10 km
edge of jungle SE of city

3/18

Villavieja: roadside thicket

5/18

34344 *Bidens*

HV; rays bright y

34345 *Trichanthes gigantea*

T 6-8 m; cor. greenish yellow, pist. bright

34346 *Stigmaph*

WV; pet. y

34347 *Cestrum*

Shrub to 3-4 m; cor. greenish

34348 *Passiflora*

Sup. V; cor. w

34349 *Cordia*

Corolla y

34350 *Vernonia*

Suber. herb; florets w

34351 *Brownea*T $\pm$ 4 m; pet. bright r34352 *Wassery*

T; Bracts r

34353 *Heliconia*St simple, $\pm$ 2.5 m; br. r, fr. y34354 *Acauth*

Sup. br. 1.2-1.8 m; cor. wh, pinkish in

34355 *Justicia*

H 40-50 cm; cor. wh

34356 *Casaria*

Shrub, elong br; pet w

34357 *Piper*

much-br. sh 2-2.2 m

34358 *Tischneria*

HV; cor. w, green at base

34359 *Heliconia*H $\pm$ 3 m; br. r, fr. gr., wh apog34360 *Rhaz*

HV; pet. y. g

Villavicencio: ^{roadside} thicket, 5-10 km ^{SE} city

3/18

roadside tree

thicket

field

thicket

Pl 83

Bee

34361 *Aphelandra*
H 1.80-1 m; cor. bright r

34362 *Pomora*
H V; cor. pi.

34363 ~~Cassia~~ *Chamaefistula*
Subscand., suff. herb, ± 3 m; sepals green; pet. y

34364 *Jaquimonia*?
H V. Cor. wh

34365 *Amar.*
H V; suff. greenish

34366 *Psych.*
S 2.5-3 m; branch infl. o cor. r; calyx bright y

34367 *Scroph.*

34368 d "

Ben

34369 "

"

34370 "

"

34371 *Gum.*

"

34372 *Samarangia*

34373 *Aeschyl.*
Suff H; pet y

34374 ~~Cassia~~ *Panicum*

34375 *Erdis*

Sh, St erect, ± 2 m; trunk greenish

34376 *Passiflora*
W V; fr. red

34377 *Mendocinia*
W V; cor. r.

Vellaviscus; roadside thicket, 5.00 km
S.E. of city

3/18

Along Rio Ocoa

Sandy ~~stream~~ ^{edges of river}

rocky river bed

wooded edge of river

34378 *Delonix*34379 *Cestrum*

S or sm t, 2.5-3m; fr. black, lustrous

34380 *Cordia nodosa*

S, elongate; fr. wh

34381 *Vismia*

8m t; pet yg out. wh in

34382 *Tupa*

T 4-5m; st. w

34383 *Mimosa*

Suf. vine; sterile

34384 *Erechtites*

H

34385 *Hibiscus*

S, ± 1m; pet. deep pi.

34386 *Paullinia*

WV, sterile

34387 *Sipanea*

S 3-4m, elong fr

34388 *Psych. bracteata*

S or sm t 3-4m; fr. light blue

34389 *Smilax*

WV

34390 *Alchornea*

T 6-7m.

34391 *Tetrapteris*

WV; pet. y

34392 *Sol? Styrax?*

?

34393 *Cyrtosperma*34394 " *Chloranthus*

= Alst. Rio Ocoa wooded edge of river

3/18

= Alst. 7673

rocky stream bottom

wooded edge of river

woods

↑
wooded edge of river

rocky stream bed

- 34395 *Oryzopsis*
 34396 *Paspalum*
 34397 Grass
 34398 *Heteranthera renip.*
 In stream
 34399 Euph.
 H
 34400 *Calopogon* *numm.*
 HV; fls. blue
 34401 *Mollugo* *vert.*
 34402 *Ancilema*
 Per. wh.
 34403 *Jussiaea*
 Stem 1-1.2 m; fls. y.
 34404 *Jussiaea*
 Stem 1, up to 1 m; fls. y.
 34405 *Elodea*
 Per. w.
 34406 *Elodea*
 34407 *Pennisetum*
 Infl. at base; leafy stem 2.2 m; fls. r.
 34408 Euph.
 Stem 40-50 m; fls. wh.
 34409 *Piptadenia*
 T 6-7 m; cor. gr., stam. red
 34410 Grass
 34411 Apr.
 HV, Cor. wh.

Rio Ocoa, near Villavieja; rocky stream bed

3/78

thickets

rocky stream bed

Villavieja; 5-10 km s.e. of city
 marshy ground

floating in pool

muddy edge of pool.

Rio Guatequia: ~~stream~~ ^{river} bed

edge of river

- 34412 *Cyperus*
Heads deep brown
- 34413 ~~*Hyptis*~~ *Cyperus*
H $\pm$ 1 m; cor. deep pi.
- 34414 *Malv.*
2-2.2 m.
Coarse herb; lvs at top; infl. on main stem; pet. r.
- 34415 *Peirainisia*
S 2-2.2 m; pet. y
- 34416 *Plum*
HV; pet. yish-pi
- 34417 *Acalypha cordata*
T 8-9 m; infl. green
- 34418 *Passifl. acutidii*
HV
- 34419 *Piper flavescens*
S $\pm$ 1.8 m.
- 34420 *Euph. alternatum*
S $\pm$ 1 m.
- 34421 *Epidendrum*
Ter; hr. pi.
- 34422 Moss
On wet bank
- 34423 *Kyllinga*
- 34424 *Centropogon*
H $\pm$ 60 cm; cor. pi.
- 34425 *Sol.*
S $\pm$ 30 cm.
- 34426 *Mikania*
WV
- 34427 *Cissus*
HV; infl. red
- 34428 *Vernonia*
WV

Rio Guatiquia: stream bed

3/18

edge of river

woods along river

near edge of river bed

woods along river

Bm

- 34429 *Comp.*
Coarse h; ~~1.5 m~~ ± 2.2 m; rays deep pi.
- 34430 *Gurania*
H V; fr. long-dependent
- 34431 *Dryopteris opposita*
- 34432 *Coffea*
- 34433 *Arac.*
Ter.; spathe green; spadix pi
- 34434 *Pennisetum*
Acaulescent; fr. 2-3 m with ~~of~~ spike
- 34435 *Islandia*
Ep. h.
- 34436 *Begonia*
up to 50 cm
Suc. th; pet. wh
- 34437 *Grass*
Up to 2 m high
- 34438 *Xylophora*
Per. W
- 34439 *Psidium*
3-9 m; cor. pure wh
- 34440 *Melast. (Chilensis)*
S ± 2 m; pet. wh
- 34441 *Salacia*
Tree; infl. grayish w
- 34442 *Vernonia*
Suf herb ~~1.5-2.5 m~~ 1.5-2.5 m; florets pi
- 34443 *Crotalaria*
Suf herb; ± 50 cm; pet. light y, streaked with red
- 34444 *Cassia*
Suf herb ± 60 cm; pet. bright y
- 34445 *Pissip. maliformis*
H V; exocarp of fr. hard

Rio Guatequeña; woods along river

3/18

Muddy bed of river

Woods along river

Ren

Ben

rocky stream bed

Vulcanic area: the field

3/19

thickets

- 34446 *Urvillea*
HV; fls. wh, fr. greenish
- 34447 *Dialium*
HV; buds pinkish blue
- 34448 *Eup.*
style pi.
- 34449 *Carica*
Pl. ± 1.5 m; fls. greenish y
- 34450 *Eup.*
bloody & style light pi.
- 34451 *Machaonia*
Shr t, 2.5-3 m, subsc., finely br.
- 34452 *Croton*
H; fls. wh
- 34453 *Xanthosoma*
Ep
- 34454 *Dioscorea*
HV (sterile)
- 34455 *Cuphea*
H; pet. pale pi.
- 34456 *Acalypha*
T 6-8 m
- 34457 *Sesuvium*
WV
- 34458 *Pisonia daniellii*?
HV
- 34459 *Inga guatemalensis*
T 10-12 m; ~~sh. wh~~ cor. wh
- 34460 *Phapalis*
H; cor. greenish y
- 34461 *Helicteres*
S; fls. red
- 34462 *Clibadium*
S, 2.5-3 m; infl. wh

Vulavavensis: thicket

3/19

woods along
1 Quebrada Cañabrava;

field

woods along R. Can.

Bu

34463 Piper

S 2.5-3m.

34464 Ouratea

T 7-8m; pet. y

34465 Epid.

Ep.

34466 Seijania

Suf. vine; pet. wh.

34467 Coccoloba

S n sm t.

34468 Ques.

H V; an. y

34469 Cucurbit.

H V, Fr. sep.

34470 Clammyf.

T $\pm$ 3m; pet. y

34471 Paullinia

seef. v

34472 Piper

S n sm t, $\pm$ 3m.

34473 Comp.

S 2-2.5m; rays y

34474 Paullinia

W V; fls. wh.

34475 Mim.?

Tree 6-8m; sterile

34476 Croton

S 2-2.2m; pet wh

34477 Strobil. cerise

H 1.5-2m; br. gr. prop, yish dist

34478 Phytolacca

H 1-1.3m; fls. wh.; br. inf. pi

34479 Wissadula

Suf h $\pm$ 1m; pet. light y

See Separate Fruit Collection)

Rm

un

Villav.: woods along R. Canabana

3/19

Rio Guatiquia; wooded edge of rain

34480 *Cayaponia*
H V cor. gr.

34481 *grass*

34482 *Leanthus*

H 80-100 cm; cor. yellow

34483 *Adenaria floribunda*
Sm 2-3 m

34484 *Paulinia hispida*
Inf. V; pet. wh.

34485 *Neliceonia* br. y, pink at base; fruit blue
H; peduncles at base (ground), hairy, 1 leaf; main lvs with pet. ± 1.8 m.

34486 *Apro*
H V; cor. wh

34487 *Serjania*
W V; pet wh

34488 *Separuna*
S long br.

34489 *Aphelandra tetrag.*
H ± 60 cm; cor. r.

34490 *Phyllanthus*

34491 *Passifl. acuminata*
H V; ref y pet w

34492 ~~*Couroupita*~~ *Alseodaphne*

34493 *Pityrogramma calandulana*
T 8-10 m; pet. y

34494 *Miconia*

Sm t, 3-4 m; pet w

34495 *Abol.*

34496 *Neliceonia*
T pr. black

Pl. ± 2.1 m; bracts deep red; lvs poor

Rio Gualeguia: wooded banks of river

open bank

wooded banks

3/19

- 34497 *Costus*
Pl. ± 3 m.; br. o per. r.
- 34498 *Dimerocostus*
Pl. 2.5-3 m.; per. wh.
- 34499 *Nyplia*
Cr. wh; suberect h.
- 34500 *Eleocharis*
- 34501 *Aeschynomene*
Sup h, ± 1 m.; pet y
- 34502 *Nyplia*
H. on wh.
- 34503 ~~*Eupatorium*~~ *Polygonum*
Infl. greenish wh; fls. greenish wh
- 34504 Sol.
Shrub ± 60 cm; lvs. dimorphic; cr. blm; anthers y
- 34505 *Panicum*
- 34506 *Isoloma*
H.; cr. bright r
- 34507 *Lam.*
In fruit. Give oil
- 34508 *Ipomoea*
HV; cr. wh.
- 34509 *Stylosanthes*
H up to 1 m; pet y
- 34510 *Dioscorea*
H ± 60 cm;
- 34511 ?
High-climbing WV; lvs not seen; cor pinkish white
- 34512 *Lupinus*
H ± 60 cm, branched from base; st. purple; leaf nitid
- 34513 *Cordia*
S or sub t. trunk ± 1 m high, 10 cm. diam; crown rounded cor. white

Rio Guatiquia, wooded banks

3/19

in mud, river bed

rocky stream bed

in mud, river bed

wooded river banks

Buenavista: open bank

Villavieja

Buenavista: thicket

open bank

woods

East from Boqueron de Chipaque; open ²⁹⁰⁰ ~~9600~~ 10,300 ft.

- 34514 *Paoralea*
S 40-50 cm; fls. deep blue
- 34515 *Lupinus*
Sup. herb, suberect br.; fls. deep purp. - base bluish
- 34516 *Valeriana*
H; flowering stem ± 80 cm high; cor. wh
- 34517 *Paspalum*
- 34518 *Peperomia* ^{minoris no}
of a ^{under name!}
Cec. P.A.
- 34519 *Solanum*
Repet h; cor. wh, anthers y
- 34520 *Alternanthera*
Spreading h, br. up to 1 m long; infls. greenish wh
- 34521 *Croton Verbesina*
WV; Sup V; rays bright y
- 34522 *Muhlenbergia*
WV; florets whitish; styles pi.
- 34523 Umbel.
H 1-1.5 m; fls. green
- 34524 *Rubus*
WV; pet. wh.
- 34525 *Tournefortia* ~~scabula~~ ^{scabula}
2.5-3 m, along tr.
S ~~2-3~~ 5 m; cor. quite wh; fr. pure white
- 34526 *Cordia*
S 2-2.5 m; cor. greenish
- 34527 *Loasa* H 40-50 cm; pet. wh; seeds y, 2. lined
appendages w
- 34528 *Scaevola* Lab. ^{Ind Bm}
Cor. pi, lobes purple at base in
- 34529 *Cucurbit.*
H & sterile
- 34530 *Piper*
S ± 2.5 m

Ext from Boqueron de Clifogues, 10,200 ft.
thickets

open

Boqueron de Clifogues, 10,200 ft. open bank

Extrem Cond. brought to Paris of Inst. Bot.

Toluca:
Guindis Trail, ^{Km 4.5} ± 7800 ft; wooded valley
2375 m.

open

wooded valley

- 34531 *Salvia*
Slender sh along br; cor. red.
- 34532 *Valeriana*
H V; cor. wh
- 34533 *Comb.*
H V; rays bright y
- 34534 *Rebunium*
H V; fr. red
- 34535 *Delag. lindigii* M. ! acaen.
- 34536 *Begonia*
H up to 70 cm; buds pi.; pet. & wh.
- 34537 ~~*Transpila grandifolia*~~ *Comb.*
H V; young infl. greenish
- 34538 *Juncea*
- 34539 *Grass*
- 34540 *Palu*
Sp. Separate Fruit Collection. Ph 96-98 # 2 seeds in MB form
- 34541 *Stelia*
Ter; seg. all light green wh
- 34542 *Maxilaria*
Ter; fr. greenish orange, stem striated with red. brown
- 34543 *Polytrichum*
- 34544 *Lichen*
- 34545 *Grass*
- 34546 *Opalis*
H Prost. branches; pet y.
- 34547 *Saurauya*
T 4-5 m. trunk to 30-40 cm diam

Tolina: Guindis Highway; wooded valley

3/27

= acaen 7751

2400 m
44-43 8450 ft. 7900 ft.
Km 38, mostly sand

Open bank

Km 38 8450 ft. 2700 m
9000 ft.

2950 m
9000 ft open bank

- 34548 *Rhus*?
T 4-6 m; calyx green gr.
- 34549 *Grass*
- 34550 *Eup. paniculata*
Suff. H up to 20 cm; inf. wh.
- 34551 *Olea*,
Ter; fr. or.
- 34552 *Vacc.*
Shrubby, suff. br.; cor. wh.; inf. fr. umbel
- 34553 *Polytrichum*
- 34554 *Epilobium*
Suff. herb; pet. pink
- 34555 *Rosa*
on bank
- 34556 *Lichen*
- "
- 34557 *Grass*
- 34558 *Phytol.*
H up to 40 cm; inf. rich pi.
- 34559 *Vacc.*
low spreading shr; cor. wh.
- 34560 *Eup.*
S $\pm$ 80 cm; inf. greenish wh.
- 34561 *Salvia*
Cor. deep. red?
- 34562 *Kleptochia*
Suff. H up to 1 m; pet wh.
- 34563 *Ribes*
S $\pm$ 1 m
- 34564 *Campyl.*
Scand. hr.

Toluca : ^{open bank} *Chimel's Highway*, ± 9000 ft.
2950 m

3/27

10200 ft.
3100 m

Ben

- 34565 Begonia
Succ. h., pet. bright r
- 34566 Moss
On soil
- 34567 Acaul
HV
- 34568 Gauch.
Succ.
- 34569 Hydrocotyle
HV
- 34570 Lomaria
F
- 34571 Pilea
Succ. h., woody at base ^{to 1.5 m}
- 34572 Arch.
Ter. seg. pinkish red; col. green at apex
- 34573 Opalis emag.
Succ. Herb, elong br; pet. yellow
- 34574 Sphagnum
Wet bank
- 34575 Moss
" "
- 34576 Polypodium mitten?
On tr.
- 34577 Diegesbeckia
H $\pm$ 40 cm; florets y
- 34578 Grouse Mistletoe
WV bud greenish; fol. oaty light pi
- 34579 Herb.
S, elong branch; br. ^{deep} pink; cor ~~red~~ red(?)
- 34580 Mistletoe
WV
- 34581 Mistletoe
For compact tr $\pm$ 2 m; pet. wh., deep gr. ~~not~~

Tollina: Guindio Highway, ^{3100m} 10200 ft.
open

3427

thicket

open bank

Boqueron del Guindio ¹⁰⁸⁰⁰ 10800-11000 ft.
(3300 - 3350 m.)

34582 *Carex*34583 *Hesperomelios*
Compact S. 1.5-2 m34584 *Rubus*
wv; pet w34585 *Bouan*34586 *Och.*
H. ^{sub} ped. with red out, pale in; pet light red ^{green-tinted dist. with a few bright spots.} ^{anther. eies. cov.} yellow.

Ep. per. greenish pi

34587 *Och. Stelis*

Ep. per. greenish y; in very dense clump

34588 *Stelis*

Ep; per. greenish y

34589 *Vae.*

S up 2.5 m; much-branched branch

34590 *Cornu. Crebis*

Low H; rays y

34591 *Hydroc. grossul.*

H V

34592 *Scroph.*

Cor. blue

34593 *Och.*

Ep.; per. red, mottled spotted deeper red out

34594 *Sol.*

Bow sh, anther blue; cor. w, anther y

34595 *Begonia*

Surf. herb, branches succ., fls. wh

34596 *Stellaria*

H V pet wh

34597 *Rumex*

Refined h; fls y

34598 *Och.*

Ep; per. deep red

Bog. del Quindío 10800-11000 ft.

3/27

34599 Moss

Roots on 34598

34600 Puccinia

S $\pm$ 50 cm on dec. log; ~~fr~~ fr. r.

34601 Carex pich.

34602 Grass

34603 Acal.

Ep. fr. ~~g~~ y-g

34604 Bromarea

H V Sep or r. pet y, orange only, outside tan. apex, unspike

34605 Jugula

34606 Scirpus

forming a dense mat

34607 Acal.

Ep. fr. perhaps = stem

34608 Anthura hypnif.

Ep. on tt.

34609 Anthura

Ep

34610 Thib

Sep along br. cor. r-l

34611 ~~Croton~~ Valeriana

WV

34612 Bromarea Gesner.

Sep l, on dec. log; br, caly r cor r.

34613 Rubus

H WV; pet wh; fr. black

34614 Epipend.

Ep; sep. light y, red-tinged; cal purp, green apex

34615 Mikania

WV fruit

Bog. del Pindio 10800-11000 ft.

3/27

- 34616 *Montia*
Floating in pool
- 34617 *Epil. fimbriatum*
Sp. Tier; seq. light pi, simple - sparse
- 34618 *Centropogon*
Erect with erect branches ± 1 m. ^{not, gr-wh in} cor. ~~gr~~ ^{strongly petal} ^{adn}
- 34619 *Bomarea*
V; buds red.
- 34620 *Dioscorea*
H V coll. G. Valera
to 4629
- 34621 *Begonia*
- 34622 *Uelast*
Sh 1.5 m; pet. wh, pitirized; aneth green
- 34623 *Begonia*
Sup. succ. h.; pet. deep pi-red
- 34624 *Lichon*
For on tt
- 34625 *Parnip.*
Tuber gr., no p. pi. ~~tot~~ W V
- 34626 *Grass*
- 34627 ~~Carex~~ *Rubus*
W.V. an un for Rub.
- 34628 *Rub.*
T 2-3 m; cor. wh.
- 34629 *Apro.*?
H V
- 34630 *Polythud*
Rep. on bank above bank
- 34631 *Polyth.*
on bank
- 34632 *Grass*

Boq. del Chumil 10800 - 11000 ft

3/27

just below 3250 m.
10700 ft. open bank

34633 *Asplenium phlegmarum* (Muhl.) Nutt.

34634 Vac.

34635 *Geum*

Cor. r.; sep. up to 6 cm

34636 *Orch.*

Seq. rich pi, col. gr, y after. Ter. ± 1 m

34637 *Grass*

34638 *Lycop. reflexum*

34639 *Centrop.*

S ~~to~~ ± 1.5 m; cor. r., lobes yish

34640 *Gaultheria*

Low s

34641 *Polygodium* Elaph.

34642 *Momoria*

S 1.5-2 m; sep. deep blue

34643 *Palicourea*

S ± 2 m; cor. rich blue

34644 *Pilea*

Inc. H.

34645 *Oreopanax*

8 m. t. ? young sterile plant, with or. st. lobes yish

34646 *Hydroc. humb.*

HV; inf. gr.

34647 *Rynchos.*

34648 *Elaph.*

Ter.

34649 *Epid.*

Ter.; 5 sep. light y, pinkish at base; lvs light y, with 2 red spots in; col. pi -

3250 m.
Chusquea big tree, just below Boguena, 10200 ft.
 open bank

3/27

2450 m.
 ± 8000 ft.
 open bank

2900 m.
 open bank ± 9500 ft.

3/28

to

2900-3000 m.
 dense for. 9500-9900

- 34650 *Begonia*
Succ h, sup. below, to 60 cm;
- 34651 *Mexicanum*
T $\pm$ 3 m; pet. rich purple; anth. y
- 34652 *Wernianum*
T; less from young, sterile plant.
- 34653 *Oreopanax*
Terrestrial, bushy at summit, $\pm$ 2.5 m.
- 34654 *Elaph.*
On tree
- 34655 *Rub. Psychotria* = one of 3/27
Compact S, $\pm$ 50 cm; cor. wh.
- 34656 *Anthurium*
Ep.
Thib.
- 34657 S, elong br. cor. red prox, wh dist.
- 34658 *Polypodium*
S 2-2.5 m; ray y
- 34659 *Pilea* 3V col
Succ. H. $\pm$ 1.8 m, much branched
- 34660 *Guzmania*
Coarse H, $\pm$ sup.; infl to 40 cm long.
- 34661 *Alchemilla orbiculata*
- 34662 " *aphanoides*
- 34663 *Pilea*
Succ (V)
- 34664 *Rhynchospora*
- 34665 *Elaph.*
Ter.
- 34666 *Tropaeolum*
H V, no fl.

2900-3000 m.

Grindelia thymifolia, 9500-9900 ft.
dense for.

3/28

Anthurium coripetense N.E. V. det. T. Croat 1990

2900 m.

open bank 9500 ft

3150 m.

along gulch 10300 ft.

- 34667 Moss.
- 34668 Alga
- 34669 Cuscut.
Sterile HV
- 34670 Moss
on bank
- 34671 Fern *Ctenitis biserialis* (Baker) Lellinger det. A.R. Smith 1978
- 34672 *Alsoyula*
Caules short; fr. ± 2.2 m.
- 34673 *Rubus*
Suf., prostr. branch
- 34674 *Cardamine*
H; pet. wh
- 34675 *Alternanthera*
H, ± 1 m; inf. wh
- 34676 Lichen
on bank
- 34677 *Cladonia*
- 34678 Lichen
- 34679 Sol.
S ± 2.5 m; pet. wh
- 34680 Lichen
on bank
- 34681 Lich
" "
- 34682 Polyp.
" "
- 34683 *Cyathea*
Caules ± 30 cm

3150 m.
Quindio Highway, ± 10300 ft.
wet rocks near falls

3/28

open 3050 m.
wet gully ± 10000 ft.

2900 - 3000 m.
dense for. 9500 - 9900 ft.

2925 m.
open bank ± 9600 ft.

2925 m.
thickets 9600 ft.

gully

- 34684 *Urena*
T; sterile
- 34685 *Aphelandra*
Stripping to ± 1.2 m; no fls.
- 34686 *Olea*.
Ter. fr. only
- 34687 *Gutierrezia* *gossypii*.
Sh ± 2 m.
- 34688 *Spatholobus* *campanulata*
Small tree, common on sts. of Cali
- 34689 *Eupatorium*
Suf. herb.
- 34690 *Trifolium*
Fls. y
- 34691 *Croton* Ph-
a few fr. collected; no herb. spec.
- 34692 *Croton*
Many fruits collected; no herb. spec.
- 34693 *Struthanthus*
Par. sh.
- 34694 *Oreocaulis*
Par. S
- 34695 ? *Ror*
T $\frac{5-8}{2}$ m; fr. y.
- 34696 *Brown*.
E. W.; per. blue
- 34697 *Phacelia*
HV; fls. deep purp.
- 34698 *Polygonum* *acuminatum*
Cane 1 ft, elong. st. to 1.5 m. long; fls. ~~pinkish~~ white
- 34699 "*Cuscuta*
do; per. greenish white
- 34700 *Cuscuta*
Living on herbs; cor. white

^{2925 m.}
Quindío Highway, gully ± 9600 ft.

3/28

^{2900-3000 m.}
dense for 9500-9900 ft.

Dry hills near Cali

3/29

Cali (cuel.)
Quindío Highway, 10,200 ft. 3100 m.
↓
open bank.

3/30

3/27

" " ^{hillside.}
open bank, 9000 ft.
^{2950 m.}
open hillside 2970 m.
2910 m.

Near Río Cauca, n.e. of Cali, ± 1000 m.
thickets

3/31

"Pino"

34701 Grass

34702 Malv.

Suf. $\pm 1m$; fls. deep r.

34703 Ynga

T $\pm 9m$;

34704 Ynga

T 8-9m; stems wh.,

34705 Rub.

Erect S, 2.5m; stem single, cauliflorous; fls. red

34706 Moss

On bank

34707 Mercuria

T 3-4m; pet. rich purple

34708 Sol.

20-100cm $\pm 80cm$.

H. branched toward apex, branches spreading,

34709 Pilea dentata

Suc h, st. repent at base, branches up to 40cm high

34710 Gesner. tubulosa

H, cor. wh.

34711 Pilea pseudo-unifolia

Stem suberect ~~pro~~

34712 Conostegia

T 5-6m; pet. wh.

34713 Diplazium

34714 Peperomia dussanii

H. repent on ground, forming dense masses in forest

34715 Moss

On lvs. of Piper

34716 Pilea pseudo-unif. v. grandif.

Scandent on tt

34717 Peperomia ulmifolia

Ter very suc.

Ph 117

Near Rio Cauca, n.e. of Cali, $\pm 1000m$

3/31

(1200m) (1180m)
 3900 ft. ~~4800 ft.~~
 Estación Olaya Herrera,
 open

4/2

(1200m)
 Guerenal, 4000 ft. forest

open bank

forest
 thickets

N. Digna Valley

Chorrera de la Elsa, 3200 ft. (975m)

wet rocky forest
 in spray & pools

(825m)
 west of La Elsa; 2700 ft.; wooded gully.

- 34718 *Pepuonia cordata*
Suc. ter h.
- 34719 *Valeriana scandens*
Suc, h, - v; cor. wh.
- 34720 *Pteris hirtus*
S up. to 1.5 m, very slender, much branched stem
- 34721 *Clidemia filifera*
- 34722 *Idybaanthus?*
H V
- 34723 *Piper*
S 2-2.5 m.
- 34724 *Costus*
H St $\pm$ 1.5 m;
- 34725 *Arac.*
Ter. Spathe green lower $\frac{1}{2}$, wh. upper $\frac{1}{2}$, ^{brown} near base
- 34726 *Psychotria macrophylla*
H, stem suc., $\pm$ 1 m; cor. wh.
- 34727 Moss
On lvs of 4726.
- 34728 *Tectaria pauciflora*
Rhiz. short - rather narrow
- 34729 *Guzalagunia*
~~St~~ S 1 m T.
- 34730 *Trich. radicans*
Raph. on bark
- 34731 *Chamaedorea*
Thick slender, $\pm$ 3 m h, 4-5 cm. diam; inf. ^{slight below lvs.} brown
- 34732 *Piper subamplyx.*
S $\pm$ 2 ~~or~~ 2.5 m.
- 34733 Selag. "cortariensis" ~~cf~~ *Selaginella bombycina* Spring det?
Ter.
- 34734 *Polypodium cf. calense* (Aubl?)
Ep h.

R. Origua Valley, west of La Elva ⁽²⁾
densely forested gently 2700 ft.
thicket. (800 m)

4/2

densely forested valley

brown, wetter
where

- 34735 *Asplenium*
On t
- 34736 *Oplismenus* cf. *wallisii* (undergrowth)
- 34737 *Gurania*
longly climbing
Suf. vine; cor. red.
- 34738 *Acauth.*
H; cor. white
- 34739 *Papaya* "Papayuela"; "papapula"
T, trunk ± 1.7 m; fruit bright orange fr. sep. Also has
- 34740 *Chelonanthus*
Herb, up to 1 m; cor. greenish y
- 34741 *Uelast.*
H.; lvs reddish fibrous, pet. wh.
- 34742 *Piper ardatum* - *myosia*
S 50-80 m.
- 34743 *Manettia*
Suf. vine, dependent over bank
- 34744 *Eup.*
H $\pm$ 80-100 cm.
- 34745 *Oplismenus*
- 34746 *Besleria apillaris*
H ± 1.8 m; cor. r.
- 34747 *Acauth.* just. *divaricata*
H; cor. wh.; H ± 1.8 m.
- 34748 *Pilea pteropoda*
Succ. herb 1-2 m; infl. white
- X 34749 *Henrietta viscosissima*
S 1.5-2 m, very viscous; pet. wh.
- 34750 *Piper angustifolium*
Much br. S 2.5-3 m.
- 34751 *Sol. inaequilatrum*
S $\frac{80}{1}$ m; cor. w, anther y; fr. r

R. Digua Valley: densely forested valley
w. of La Elva, 2700 ft (2)
(820 m)

4/2

forest, 2500 ft (760 m) (3)
open bank, 2200-2400 ft. (4)
... 670-730 m

(930 m)
forested gully, 2400 ft. (5)
Río Engaña, (670 m) densely forested
2200 ft. (6) river banks

880 m
makes diagram on p. 16 (also at 2200 ft.)

- 34752 *Solanum pallidum*
3 or 4 m. t.; fr. red.
- 34753 *Cuphea*
Pet. pinkish blue
- 34754 *Mimosa*
S ± 1.8 m., with spreading branches; stamens pi
- 34755 *Acalypha divaricata*
T 6-8 m.
- 34756 *Dichromena* (1)
Lvs. slender
- 34757 *Dichromena*
Lvs. broad.
- 34758 *Piper*
S ± 2 m.
- 34759 *Cavendishia guianensis* *guianensis* gets name from this = *guianensis* used to make off. sex love fruit with wh.
fls. deep red.
- 34760 *Aral.*?
young sterile plant, 2.5 m., leafy at apex; stem slender
- 34761 ~~*Sol. glabrum*~~
S 2 m high; cor. wh. (or yellow?)
- 34762 ~~*Diplazium*~~ *Hemidictyon marginatum*
- 34763 *Paspalum*
- 34764 *Marchantia*
- 34765 *Dicranopteris* (rare!)
- 34766 *Pityrogramma schaffneri*?
- 34767 *Ditremoxa*
Sf. h.; ± 1 m.; fls. y
- 34768 *Liabum hastatum*
H; info. y

R. Orquíza Valley; R. Euzana, ^(670 m) 2200 ft.
densely forested river bank
open

4/2

densely forested river bank

^{900 m}
La Elsa, 3000 ft. open bank

4/3

34769 *Blechnum*34770 *Dryopteris opposita* (Vahl) Urban34771 *Nicotiana*

S ± 2.5 m.

34772 *Plum?*

T 15-20 m.

34773 *Saurauya*

T 12-15 m; fls. wh.

34774 *Paspalum rubrum*

H V; fr. red

34775 *Pilea macrodonata*

34776 Moss

on wet rock

34777 *Gesner.*

Cor lobes white, tube green; lvs pale beneath

34778 *Tab.?* *Loas.*

local herb, suberect fls. pinkish; plant viscid

34779 *Pilea hyalina*34780 " *pubescens*34781 *Asp.*

S 2.5 m; infl. wh.

34782 *Besleria birta*

S 2-2.2 m; stem purple

34783 *Sol.?*

S 1.5-2 m; fls. pinkish wh; fr. red

34784 *Gesn. antenarioides*Coarse herb, resembles *Antennaria*; fls. rather old or34785 *Gesn.*

Suf. vine; cor. wh.

R. Origua Valley, west of La Elva, ^{(7) 900} 3000 ft.
thicket

4/3

(670-790 m)
dense for, 2200-2600 ft.
(8)

Shaded bank.

dense fr. in spray at edge of a falls
(8a) 2400 ft.
(730 m)2000-2100 ft. (600-640 m)
Rio Blanco; rocky stream bed
(9)

thickets in stream bed

fls. rather old or even not in bud

- 34786 *Peperomia*
Reper on old stump.
- 34787 *Peperomia*
Do.
- 34788 *Habenaria*
Ter; per. pure wh.
- 34789 *Toloma seneca* sessile in upper lvs; cor R.
H, becoming suff; variable in size & habit (infl. sometimes
- 34790 *Marcgravia* Five Br
W V
- 34791 *Melast.* " 4
S or sm. t.; infl. cauliferous
- 34792 *Marant.* " "
Coarse herb
- 34793 *Heliconia* [pet. 40 cm l, blade 193 cm l; 38 cm from margin to midrib on one side, 23 cm. on other (at widest point)]
Infl. 72 cm. long, deflexed; bracts deep r; peduncle 105 cm long
- 34794 *Ruellia Boellmanii*
S 1.5-2 m, much branched; stem slender
- 34795 *Aplis*
Suff. l., ± 1 m; pet. y
- 34796 *Carludovica*
- 34797 *Arac. luteipes*
Sterile; scand ter. succ. l.
- 34798 *Desm.*
H; cor. purple
- 34799 *Moss*
On wet rocks
- 34800 *Peperomia*
Ter very succ l
- 34801 *Pilea*
- 34802 *Selag.* *Selaginella novae-hollandiae* (Sw.) Spring

- (600-640 m)
R. Orjica Valley; Rio Blanco, 2000-2100 ft. 4/3
(9a) thickets in stream bed
- (9b) open bank near R. Blanco
2000 ft.
- (9c) edge of forest, 625
- 10 Chorrera de la Elva, 3200 ft. (475 m)
dense forest
- in spray of falls

- 34803 Selag.
- 34804 Ruprechtia filif.
- 34805 Maladra
Coarse, up. herb, 2-2.5m; pet. brightly
- 34806 Selag. kunzeana AB. ^{hins Ben}
- 34807 Aphelandra.
H ± 40cm; cor. bright r
- 34808 Peperomia
Eps. Terr.
- 34809 Piper
S or 8 m t ~~± 2m~~, along br. up to 2m long
- 34810 Pilea
- 34811 Piper
T 5-7m.
- 34812 Louchitis hirsuta L. ^{Blue bar} ! Alston
- 34813 Melast.
Coarse h, ± 2m; fr. r.
- 34814 Cucurb.
H. V. Cor. greenish of wh.
- 34815 Eup.
S 2.5-3.5m; uph wh.
- 34816 Rub.
T; tube & lobes cream-wh out; lobes orange in
- 34817 Begonia pauciflora ^{pet. wh.}
T, 3.5-4m; lvs & fls. at summit; trunk ± 4cm. diam.
- 34818 Calliandra
Summit ± 2.5m, spreading branch; cor w, ^{pi} stam.
- 34819 Rubus
WV; pet. wh.; fr. black

(975m)
3200m.
R. Orjira Valley; Chonera de La Elsa 4/3
in spray of falls (10)

3200m.
densely forested
fully just below falls (10) (975m)

thickets "

open bank

La Elsa. dense for. 2900 ft. (880m)

4/4

(900m)
La Elsa, thickets, 3000 ft.

- 34820 *Begonia*
Erec., erect herb, ± 50 cm; pet. wh.
- 34821 *Lichen*
wet rocks
- 34822 *Cyperus*
- 34823 *Sol. flavum*
Suff. h. ± 60 cm; cor. y, fr. red.
- 34824 *Lichen*
On wet rock
- 34825 *Pilea dentata*
- 34826 *Arac.*
Sterile. Ter.
- 34827 *Arac.*
on tree
- 34828 *Anthurium*
Scandant on bank; sterile
- 34829 *Peperomia microphylla*
Report ~~dependent~~ on branches
- 34830 *Peperomia*
Report on branches
- 34831 *Urera caracasana*
Small tree; trunk ± 5 cm. diam; infl. on trunk
- 34832 *Solanum surinense*
 ± 3 m; fr. bright red; fl. cor. light green; ^{stem slender} cauliflorous
- 34833 *Anthurium*
Ter.
- 34834 *Trich. radicans*
On bank
- 34835 *Bromel.*
Ter; fr.
- 34836 *Bromel.*
Ter. Bracts r; per. red, pi. at apex

R. Digua Valley; La Elsa, ^{9600m} 3000 ft. 4/4
open hillside
(12) Rio Engaña, 2200 ft. (675m)
densely forested river bank

- 34837 *Lasiacis*
A. with clay br. 2-2.5 m. long.
- 34838 *Crech.*
Ep.; per. purple
- 34839 *Ruellia congestiflora*
- 34840 *Costus*
Sep. purple; cor. greenish y
- 34841 ?
Tree; buds greenish
- 34842 *Hydrocotyle*
Repart h.
- 34843 *Acalypha*
Tree 8-10 m; infl. green
- 34844 *Polyph. fraxinif.*
On bank
- 34845 *Palau* (Note: usually typical)
8 cm. diam. + 2.2 m; then fibrous bases
Trunk $\pm$ 3 m, with rings about 4 cm. apart up to 1
- 34846 *Ouch.*
Ep.; buds yellowish gr, pi. at apex
- 34847 *Pepenomin*
Ter. leaves thin!, not succ. un.
- 34848 *Cleome*
pet. deep r., pedicels pi.
Stem erect $\pm$ 1-1.5 m. tall, $\pm$ 4 cm. thick
- 34849 *Passifl. chelidonium*
Sterile; H.V.
- 34850 *Dyplazium*
- 34851 *Pteris*
Root thick, subterranean
- 34852 *Pavonia*
Stem h; 60-1 m; pet. wh.
- 34853 *Cremosperma*
Wet bank

(620 m)
R. Digua Valley, Rio Engaña, 2200 ft
(12) densely forested river bank

4/4

of sheaths; leaves $\pm$ 2.5 dm. long.
fr. black

34854 Gesner.
H; cor. tube wh, lobes blue

34855 Asplenium
Wet bank under falls

34856 Hep.
On branches

34857 ?

34858 Moss
On rock

34859 Carludovicia
Stem ± 60 cm.

34860 Columnnea cor. yellowish (? var.)
Ter. Sup. l.; br. light gr.; lvs. red at margin (var.)

34861 Columnnea
Ter; lvs. green beneath; bracts red; cor. y

34862 Lycopodium
On Ch. y

34863 Moss.

Coll. Dussan

34864 Peperomia
Efr.

34865 Peperomia
Efr.
Ter.

34866 Peperomia
Ter; lvs. very fleshy

34867 Peperomia
Efr.

34868 Peperomia
Efr.

34869 Ureocoma
Small tr, ± 3.5 m.

34870 Eup.
H ± 2 m; infl. white

R. Orquíza Valley; R. Engaña
 ± 2200 ft; (12m) (12)
densely forested river bank

4/4

along road (except ?)

(13) La Margarita, on R. Orquíza, ± 2500 m. (60 m)

34871 *Cordia* ^{Dr. (r. D. D. Case)}
 5-8 m T, 3.5-4 m; trunk 6 cm. diam.; fr. red.

34872 *Eucharis*

Per. pure wh.

34873 *Gnaph.*

34874 *Sol.*

8 ± 2 m; cor. wh.

34875 *Eup.*

5-2.5 m; florets & style pi

34876 *Malv.*

H ± 50 cm.; pet. y

34877 *Fuga*

T 6-8 m; cor. greenish wh; stamens wh

34878 *Cucumb.*

HV Ripe fr. red

34879 *Dryopteris* (cf. *andreaea*) (Sod.) C. Chr.

Blue has

34880 *Cucumb.*

HV; cor. y

34881 *Dryopteris* *paduipora* Hieron. Blue ! Alston
 new to Col. ^{Blue}

34882 *Poleph.* (aff. *vacuifolia*)

Ref. on TT.

34883 *Adiantum* *macrophyllum* Sw. Blue ! "

34884 *Rub.*

Tree

34885 *Trich.* *sphenoides* Kunze ! Alston
 on TT

34886 *Biophytum*

Bot. pi

34887 *Adiantum* *concinnum* HB Will.

R. D. D. Case. R. D. D. Valley; La Margarita, on V. D. D. ⁽¹³⁾ ± 2600 2500 ft. (760 m)

4/4

(14) La Dna ^(900 m) ± 3000 ft. open

4/5 -

2800 ft.

thickets

open 2500 ft (760 m)

2600 ft.

thickets 2500 ft. (760 m)

La Margarita dense forest (760 m)

- 34888 *Asplenium* Blue lvs
 34889 *Polypodium occultum* Christ ! Alston "
 Ten
 34890 *Ruellia*
 Cor. pc
 34891 *Policonium*
 76-8m; branches of upl. y; cor. r.
 34892 *Fittouia*
 Lvs. strongly variegated with wh. above
 34893 *Centropogon* (Dussan cor)
 S; cor. r.
 34894 *Urera baccifera*
 S Erect st 1-2m; fruit pc.
 34895 *Sol.*
 Refert; cor. wh.; anth y
 34896 *Phyllanthus*
 Slender herb
 34897 *Pasp. coriaria* Pers.
 H V; slender
 34898 *Pavonia*
 H $\pm$ 90cm; fl. y
 34899 *Lindera*
 H; cor. light blue & dark blue
 34900 *Heliconia*
 Pl. $\pm$ 2m. high, br. y in lower $\frac{1}{2}$, red rest, per. y.
 34901 *Elythria*
 Cor. pinkish blue
 34902 *Cordia* cor. wh
 S $\pm$ 4m, stem 6-8cm. diam, much br toward apex.
 34903 *Selaginella novae-hollandiae* (Kro.) Spring Blue lvs
 34904 *Peper*
 Lr. 3cm

Rio Orquíza Valley; La Margarita on
 R. Orquíza, 2500m. (760m)

4/5

field clearing

↓ dense for.

field clearing.

dense for.

- 34905 *Palu* "Chontodora"
Fr. eaten; taste + like chestnut
J 6-7 m, trunk with many black spines; fruit on ground
- 34906 *Orch.*
Ep. (nospec.) fruits taken for Fairchild
- 34907 *Polygala*
Fls. pi.
- 34908 *Dicranopteris*
very rare; coll. by Lehman
- 34909 *Fuga*
J. 5-6 m; stamens white
- 34910 *Fuga*
J 5 m; " "
- 34911 *Orch.*
Ep.
- 34912 *Brom. dryandrea*
- 34913 *Sobradia* col. wh. Rarely, perianth tube white
or stippled with deep purple at apex
Ter. 3 pet. green gr, 2 light purp., paler at base, lip wh, purple
- 34914 ?
Tree, 4-5 m; fr. red, spines and
- 34915 *Melast. quadrang.*
T, 3-4 m; pet & stamens styles purplish pi.
- 34916 *Delag.*
on bank
- 34917 *Gesner cordato-bractea*
Ter,
- 34918 *Rub.?*
T 5-6 m; infl. green
- 34919 *Crossara*
T 6-7 m; ripe fruit purplish black; br. infl. white
- 34920 *Melast. cauliflora*
T 3-4 m; fr. red for pet. pinkish wh, transparent
- 34921 *Paulownia*
Ep.; infl. deep green

- R. Dagua Valley, La Elsa 2900 ft. ^{0h.} (880m) 4/5-
- La Margarita 2500 ft. (60m)
- La Elsa, open bank (880m)
- El Valle: El Salado, 3500 ft. ^{edge of forest} (1050m)
- .. Cali - ~~El Salado~~ in yard 4/7
(Mrs. Bugandis, garden)
- El Valle: Along highway 10-15 Km. E. of Buenaventura 4/12
edge of forest
dense forest

34922 Melast

Ter b, pet wh; fl. vivid

34923 Rynchospora

34924 Scindophyllum

T 2.5-3 m; lvs r imp. at summit

34925 Cephraelis

S 70-80 cm; br. bright red; cor. y

34926 Cyperac.

34927 Rub

T ~~6~~ 6-7 m; fl. purplish brown

34928 Melast.

Apparently a vine; this stem long-dependent from high trees

34929 ?

Parasite

34930 Anac.

Ep. Spathe light gr, spadix y-g

34931 Cucurb.

H V, sterile

34932 Calathea?

Ep.; per. rich pi, paler at base

34933 Euph.

Ep

34934 Aechmea

Ep.; br. bright red

34935 Philodendron

Ep.; spathe wh, greenish at base

34936 Sabicea

Br. green, per. pi; S 2.5-3 m.

34937 Guttif?

T

34938 Acanth

Er. S $\pm$ 60 cm; br. gr.El Vaile: Along highway 10-15 km e. of Boqueron
dense forest

4/12

open swamp
dense forest

- 34939 *Melast.*
Sm. tr., with elong. br.
- 34940 ~~Do~~ ?
Tree; but is it fruit or gale?
- 34941 *Arac.*
Ep.
- 34942 *Arac.*
Ep.
- 34943 *Hymenoph.*
On branches
- 34944 *Hep.*
Do
- 34945 *Pilea*? *Melast.*?
At base of tr
- 34946 *Gesner*
Ep. Cor. tube greenish wh, lobes deep pi.
- 34947 *Arac.*
Ter. Spikes grass gr., spadix purplish br. & pr. red
- 34948 *Anthurium*
Ep.; cor. " " " " " "
- 34949 ~~Gesner~~ *Columnea*
Ter. Lvs with red spots in apex of leaves, in upper half; cor. or. - r.
- 34950 *Columnea*
Ter; lvs " " " " upper 2 pairs of lvs; cor. or. red.
- 34951 *Columnea*
Ter; apex & margin of lvs purplish red; cor. y
- 34952 *Brouss.*
Ep.; fls. blue, paler distally
- 34953 *Malp.*
Tree; fls. y
- 34954 *Trichomanes*
On tr
- 34955 *Thib.*
Ep. ^{along branch}; cor. red; old calyx white
↓ ? see if tree or fl.?

El Valle: along highway 10-15 Km e.
of Buenaventura; dense forest

4/12

Buenaventura Bay; mangrove swamp

4/13

if seen fls. ↓

- 34956 *Maep.*
on branches
- 34957 *Epilobium nocturnum*
Ep.; 5 aeq. light gr., lip ^(appressed) col. wh.
- 34958 *Oreocarya tuberosa*
Herb, reptant on ground and on small tree-branches
fls. & styles white
- 34959 *Maep*
Tr. 3-4m; pet. light fr. un
- 34960 *Oreol.*
Ep. fr. only
- 34961 *Capanea ??* See Separate Fruit Collection "Pinuel"
Tr 8-10m; pet. wh.
- 34962 *Alga?*
on branches of 34959
- 34963 *Euphorbia*
Ep.; cor. wh.
- 34964 *Pavonia*
S 3-4m; fls. yellowish
- 34965 *Piper*
S 1-1.2m., br. divar.
- 34966 *Blac.*
S 3-4m; pet. purplish brown; fr. brown (unripe)
- 34967 *Arac.*
Scandent on trees; spathe purple, spadix wh.
- 34968 *Dimorphandra*
Tr, 12-¹⁸20m high; trunk up to 80cm. diam; infl. wh. very common
- 34969 *Epid.*
Ep. fr.
- 34970 *Tillandsia*
Ex Per. rich purple, whitish at base
- 34971 *Zichen*
on branches.
- 34972 *Rub.*
Small fr.

El Valle: Boventura Bay; mangrove swamp

4/13

- 34973 *Aech.*
Ep; per. pure wh.
- 34974 *Aerostichum*
Tendrils 2-2.5 m. long
- 34975 *Carludovica* stems wh.
Ep; leaves ~~opposite~~ in pubes clusters with flowers at base;
- 34976 *Elleanthus*
Ep. (fruit)
- 34977 *Hept.*
On # 34975
- 34978 *Guzmania variegata*
Ep. lvs. variegated purple-green; br. red, per. pink
- 34979 *Anthurium*
EH; spadix purple.
- 34980 *Anthurium*
do do.
- 34981 *Anthurium*
Ep.; spathe deep gr; spadix pinkish gr.
- 34982 *Nelumb.*
Tree 3-4 m, with long. br.; pet. wh; aeth. 4-9
- 34983 *Thib.*
wooly Ep, along. br.; cor. r.
- 34984 ?
S, 1.5-2 m; fr. pink
- 34985 *Anthurium*
Ep-; spathe gr; spadix deep purple upper half, pinkish purple lower
- 34986 *Rub.*
St 8 dm, $\pm$ 3 m; cor. green, lobes deep gr.
- 34987 *Coussipourea*
T, 3-4 m, trunk $\pm$ 15 cm diam; fls. wh
- 34988 *Rub.*
Ep. ? br. deep of. red
- 34989 *Pogonochloa*
On tree

El Valle: B'ventura Bay; mangrove swamp

4/13

Mangrove Swamp along lower
R. Sagua

4/14

34990 Myrt.

34991 *Sobralia*Ep. ^{stem} 1-1.2 m. high; per. wh.34992 *Sobralia*Ep. ^{5 seg. y-g out, r-brown in; sep} 80-100 cm.; ^{wh & purpl. in; col.} light y34993 *Arac.*

Subsc. on trees; spaths of shape & color of lvs; spadix white (clump fruit of 4967 to this)

34994 *Thib.*

W. Ep.; cor. red

34995 *Psychotria*

S 1.5-2.5 m; cor. wh; fr. bright blue

34996 *Gesner. communis*WV; cor ~~white~~ ^{white} out, reddish in, lobes 1 at center, y-gating34997 *Guzalagumini*

S, 2-3 m; stems slender, br. spreading; cor & fr. wh.

34998 *Polygodium lanawlatum*

Ref. on TT

34999 *Calathea alba*Ter; per. pure wh; lvs red den, gr. at base; ^{of purple black} along costa above35000 *Triplaris*Ter. fls. red with ^{deep green & orange above} fr. base; pet. ~~white~~ ^{pinkish} wh35001 *Niconia theaeoides*

S 2-3 m; fr.

35002 *Melast. elongata*

Subsc. sh, elong. br; fr. reddish brown

35003 *Hep.*

on br.

35004 Moss

oo

35005 *Adiantum saccolomites*

Ter.

35006 *Philod. psychotriacifolia*

Subsc. ter herb, forming tangles; spaths green in lower 1/2, white & dotted; wh. upper half.

El Valle: B'ventura Bay; mangrove swamp

4/14

El Chocó: ^{alt ± 800 m.} Negra, forest along R. San Juan

4/17

- 35007 *Juniper*
Fl. wh; on dec. branches
- 35008 *Saucopezia*
Suff. herb; st erect 35-50 cm; br. r, cor y
- 35009 *Neumethia*
S; buds r; pet & st. pinkish
- 35010 *Aphaelis*
Er. S 80-100 cm; invol. r.
- 35011 *Adiantum*
- 35012 *Pilea imparifolia*
Rep. on ground on lower part of T t
- 35013 ~~*Trichomanes*~~ *Moss*
Rep. ~~on~~ on br.
- 35014 *Rub. Psych. leucomela*
S or sm t, 2.5-3.5 m; cor. light y
- 35015 *Psych. guianensis*
T 3.5-4 m; infl. branches r; cor. bright y
- 35016 *Gesner. pseudocoma*
WV; cor. wh. out, y or r. in; = 4996, but pedicels slenderer, calyx
narrow; lvs more alternate at base
- 35017 *Asplenium tenuis*
on TT
- 35018 *Pepinaria*
Rep. on TT
- 35019 *Rub.*
Er. sh, ± 1 m high; purple fr. br.
- 35020 *Lycopodium* or orch?
on TT
- 35021 *Pilea cuthadamensis*
Ter, subrep; hairs erect on upper leaf, surface
- 35022 *Gesner.*
Rep. on t; br. y
- 35023 *Selagin.*
Ter.

El Choco: Negria; forest along R. San Juan

4/17

- 35024 *Columna hirsuta* ^{claw here green} Lvs solid red along veins ^{on tips} Ep.; cor. ^{tube} yellowish pi, lobes deep red at center
- 35025 *Peperomia*
Repet on br; lvs fleshy, appressed to branches
- 35026 *Cephaelis* 1
S ± 2.5 m; br. deep pi.
- 35027 *Polypodium elongatum* ~
Rep. on t
- 35028 *Polypodium leptoscheiloides* 3
On t; sterile
- 35029 *Relbunium haematodes* (Humb) Spring ~
on t
- 35030 *Passiflora biflora* 2
H.V. sterile
- 35031 *Costus*
Er, upright herb, ± 1.5 m; br. deep r; out. per. light r, inner f
- 35032 *Philodendron suborbiculatum* 1
Rep. on t
- 35033 *Anthurium* 3
ds, Spathes grass-gr; spathe deep gr; young fr. 7-9
- 35034 *Piper*
S 1.5-2.5 m. high
- 35035 *Columna*
On tr; lvs. red ^{blotched} beneath in ^{calyx r, cor. y} axillary panicle of flowers;
- 35036 *Isocheilus* 1
Ep. appressed to t; buds wh.
- 35037 *Polypodium*
Rep. on t (fr. in 2 rows)
- 35038 *Scroph.*
Pro. herb; cor. wh.
- 35039 *Pilea*
Succ. herb
- 35040 ? Smiley "Zarsapariella"
WV; stems & roots used for rheumatism

El Chivo: Uegria; forest along R. San Juan

4/17

60 m
Bebedó; clearing

shaded bank

Astrolagaya 60 m

Drummondia to be

4/19

4/20

- 35041 *Palicourea guianensis*
S 2.5-3.5 m; br. inf. red; cor. bright y
- 35042 *Uncaria paniculata*
T 3-4 m; pet. & st. pinkish wh.; fr. purple
- 35043 *Blabea scandens*.
W.V.; fr. reddish br.
- 35044 *Psychotria bracteata*
S 1.5-2 m; cor. wh; fr. light blue
- 35045 *Cephaelis tomentosa*
S; st. erect $\pm$ 1 m; br. red; cor. y
- 35046 *Faramea*
W.V.; cor. wh.; fr deep r.
- 35047 *Liboclinium*
Low S; fr. blackish; pet, stam & sty. pi
- 35048 *Piper*
S 2-2.5 m, with long, subs. br.
- 35049 *Eschatozamia*
Efr. On t
- 35050 *Trichomanes* ~~umbrosum~~
On tt.
- 35051 *Columna angustisepala*
Ser. Sep & st. $\pm$ 1 m; calyx r.; ^{cor. pinkish red; lobes or red-spotted in margin} lvs deep r at apex or at margin
- 35052 *Dryopteris*
Ter; frond 1.5 m. long, inch. stipe $\pm$ 75 cm
- 35053 *Aulicium*
~~Refer~~
- 35054 *Peperomia paniculata*
Efr.; lvs. slightly auc.
- 35055 *Polyph. brasiliensis* um
Ref. on tt
- 35056 *Dryopteris*
Ter.
- 35057 *Solanum*
Subs. sh; cor. wh; anther y

El Choco: Andagoya, ⁷⁰⁻¹⁰⁰ m; second growth for.

4/20

(Notes typed)

- 35058 *Piper*
Slender br.; S 60-100 cm. rarely 25 cm.
- 35059 *Clidemia cauliflora*
S 2-2.5 m; calyx cream; pet. wh.; fr. r.
- 35060 *Culcitum*
- 35061 *Peperomia elongata*
Ep. Succ.
- 35062 *Piper*
S 25-30 cm.
- 35063 *Polyph. laevis*
Rep. on TT
- 35064 *Piper*
S 2.5-3 m.
- 35065 *Polyph. Elaph.*
Ep. Stems
- 35066 Herb,
Fl. wh.
- 35067 Brown.
Ep.; lvs in dense cluster; fr. only
- 35068 Palm
Tr. 3 m high, 15 cm. diam, long spines; inf. ± 30 cm. ^{below} lvs.
- 35069 *Cordia* ~~compta~~ ferrug.
S stem slender, ± 2.5 m. long, branched; cor. wh.
- 35070 *Hyptis*
H $\pm$ sup. up to 1.5 m; cor. wh.
- 35071 *Hyptis*
Slender; cor. wh.
- 35072 *Nancleria*
S 2-2.5 m; cor. r.
- 35073 ~~Stachy~~ *Sichromena*
- 35074 *Stachytarpheta*
Sup. H up to 1.5 m.; cor. blue tube wh, limb blue

70-100 m.
Andagaya: second growth for.

4/20

clearing

- 35075 *Traloseantia*
Per. wh
- 35076 ~~Philodendron~~ *Spathiphyllum*
Ter. spathe wh; spadix cream
- 35077 Lab.
H.; lvs. variegated above; cor. deep blue, lower lip pale
- 35078 *Bignonia*
High climbing W.V.; cor. pi., wh at base (fls. on ground)
- 35079 Gesner.
Ter; cor. y
- 35080 *Niconia*
S 2.5-3 m.; pet. o straw wh
- 35081 *Smilax* un
W.V.; buds greenish
- 35082 *Trichomanes*
Ter
- 35083 *Bealera*
Ep.; stems 1-1.5 m long; fl. s; cor. y
- 35084 ~~Dryopteris~~ *Cyclodium* *Tricase* var. *choerose* A.R. Smith
- 35085 *Piper* un
S $\pm$ 3 m
- 35086 *Piper*
S $\pm$ 2.5 m
- 35087 *Arac.* un
Ter. Herb; stem $\pm$ 30 cm; infl. drooping; lvs variegated along with both sides
- 35088 *Anthurus*
Ep. fr. or. spathe light g
- 35089 *Pasp. macrophylla*
Coarse erect herb, $\pm$ 1 m; fl. w; cor. greenish wh
- 35090 *Polka* *filipes*
S $\pm$ 2-2.5 m
- 35091 *Arac. trifolium*
Ter. Spathe y, drooping; spadix greenish wh

Andagoya 70-100 m. clearing

8/20

dense for.
lower Andoto River 100-150 m
clearing along stream

second growth for.

dense virgin for.

- 35092 *Cephaelis*
S 2-2.5 m; br. gr.
- 35093 *Cyclanthes*
Pet. 1.5 m long; ped. ~~± 1 m~~ 50-75 cm
- 35094 *Psychotria hirsuta*
Er. S, ⁵⁰⁻80 cm; fr. bright blue; cor. wh.
- 35095 *Bourrouma*
T ~~80~~ 8-10 m.
- 35096 *Calacthea* un
H ± 1.5 m; lvs. r. beam; fls. wh.
- 35097 *Palen*
Lvs 2 m. long,
- 35098 *Hemiteella Chileflora*
S ± 3 m
- 35099 *Chilensis*
Sambact ± 2 m; pet. ^{plains wh; orth. light y} pi; fr. deep blue
- 35100 *Clavija*
S; stem simple, ± 2.2 m, 3 cm diam. fr. or-r.
- 35101 *Spigelia*
Hb rich pi; fr. black; H 60-80 cm.
- 35102 *Marila*
T 3-4 m; tr. simple, ^{occ} ± 8 cm diam; lvs o inf. at ~~5 m~~ 8.
- 35103 ?
Tr. ± 4 m, sterile; lvs unimul; largest ± 80 cm long
- 35104 *Philod.*
Ep. Spathe W
- 35105 *Peperomia* un
Rep. Sp. or t
- 35106 *Gesner. hirsuta*
Ep.
- 35107 *Cissampelos* un
H V
- 35108 *Vernonia*;
W V; fls. purple.

Andagoya; dense for. along lower
R. Condoto 100-150 m

4/20

2^d growth for.

- 35109 *Dioscorea*
 Pet. pi
- 35110 *Pilea*
 Suc., suber. herb, inf. at base; stems up to 40 cm
- 35111 *Philod. marginata*
 Repent Ep.; infl. at base of lvs; spathe y
- 35112 *Philod.*
 Ep.; ~~infl.~~ infl: spathe green at base, ^{spadix pink pi} cream above
- 35113 *Philod.*
 Cf. above; infl. much smaller but in fruit! (Omitted from label)
- 35114 *Coccoloba*
 cor! y - ~~Stem~~ wet bank
- 35115 *Costus*
 E. H $\pm$ 1.5 m; br. deep r.
- 35116 *Rub.*
 Slender s., up to 1 m; buds gr.-y
- 35117 *Pilea seemannii*
 Ter., succ. herb, repent at base, large br.
- 35118 *Dioscorea*
 Subrep. ter herb; pet. pi.; lvs red ben
- 35119 *Carludovicia*
 Rocky stream bed
- 35120 *Dichorisantha*
 Ter.; base of stem long-repent
- 35121 *Piper*
 S. $\pm$ 2 m
- 35122 *Dichromena*
- 35123 *Clitadinum* "Salvia"
 S; floats wh. Stem & lvs used as f. p.
- 35124 *Diplazium*
 on t
- 35125 *Arclit*
 Ep; per. very fleshy ⁵ & lips green, lined in with ~~sw~~ red; col. y-g. ~~Pantobutts~~

Andagoya; dense for. along ^{lower} R. Condoto
 160-150 m.

4/20

along densely forested banks of
 small stream

clearing along stream

clearing

4/22

Quebrada Guarapo
 Río; dense forest ^{on ridge} along
 125-180 m

35126 Grass
~~Steno subsp. Kotschy~~ *Stenopogon*

35127 Herb.

Par; fr. pink

35128 *Hemitelia*

Caudex ± 20 cm. high

35129 *Anthurium truncatulum*

Sp.; spathe gr.; spadix light green.

35130 *Oreola pilevirens*

Pt. y

35131 *Solanum*

H; cor lobes faintly green; anther y

35132 Tree fern

Frond 2.4 m long, stipe 80 cm.

35133 *Columnaria flava*

Ter. stem ~~100-120~~ 80-120 cm long; br. 4 or 5 cm. ^{3rd or 2nd pair of leaves} ~~glossy~~ ^{pinnate} ~~in~~ ^{on}

35134 *Renalmia*

Inf. or

35135 *Adiantum*

35136 *Cyper. octoculatus*

35137 *Calochortus*

Per. wh. Plant ± 1.5 m high

35138 *Polyp. costaricensis*

Ref. on tt

35139 Selag. flabel.

Ter.

35140 *Anthurium coladivides*

Ter. Spathe gr. wh. spadix ls

35141 Moss

On lvs of Marant.

35142 *Lamproloma*

Pods dropping from branches

Andagoya: Quebrado Guarapo ridge
~~Box~~ dense forest
 120-180 m.

4/22

- 35143 *Anthurium*
Ep. spathe deep gr. fr. brown
- 35144 *Cyrtosperma*
- 35145 *Trichomanes junatum*
- 35146 *Rub. stenosepala*
Shrub up to 80 cm; calyx w. lobes white.
- 35147 *Rub. do. nympha*
H; br. green; lvs strongly bullate
- 35148 *Crematosperma*
Wet bank; cor. y
- 35149 *Trichomanes*
Ep. r. t.
- 35150 *Peperomia multifolia*
do
- 35151 *Fraxinus*
On log; red on both sides
- 35152 *Mabea*
elongate br.
T 5-6 m; fls. y
- 35153 *Orch.*
Ep; per. pi (young)
- 35154 *Trich.*
Ep out
- 35155 *(Palae) Chamaedorea*
Junk 2.5 m 3 m; + 5 cm diam; lvs + pet. + 60 cm
+ 7.5 m.
- 35156 *Moss*
On lvs of 5155
- 35157 *- paniculata*
Sm. tree; buds cream; fr. black
- 35158 *Polypodium racemosum*
S 3.5 m; bud cream
- 35159 *Lococa*
S 1-1.5 m; inf. branch red; fr. deep purp.

Andagoya, Quebrada Guarapo; dense for.
120-180 m. on ridge

4/22

- 35160 *Piper*
Tree, 5m high, trunk $\pm$ 8cm diam
- 35161 *Hep.*
Densely covering bog
- 35162 *Tania*
erect, ~~erect~~ 20cm. high & 4cm. diam. Sterile
- 35163 *Myrsin*
S; fr. red
- 35164 *Oryopteris* *Thelypteris valdepirosa* (Baker) Reed
Caulis $\pm$ 15cm
- 35165 *Trichomanes*
h. t. t.
- 35166 *Nicotiana*
T 3-4m
- 35167 *Duritolochia*? "Saragosa"
W (stem only) mixed with aqueducts & used in place
of guano; found to be very effective
- 35168 *Och.*
Ep; buds cream
- 35169 *Mapania*
- 35170 *Gesum*
out.
- 35171 *Och.*? apparently
Saprophyte? leafless; buds fr. cream
- 35172 *Moss*
On dec. log
- 35173 *Cyba*
- 35174 *Rub*
T 3-4m
- 35175 *Rub*
T 6-7m; bracts cream; cor. wh
- 35176 *Asplenium serratum*
Ep

Andagoya; Quebrada ^{Suavito} ~~Suavito~~ forest
120-180m

4/22

- 35177 *Marchantia*
On dec. log.
- 35178 *Tringys*
Ter.; fl. white
- 35179 Moss
On dec. log
- 35180 *Rub. nigrocampa*
1.5-6 m; fl. blackish
- 35181 *Arac.*
Ter.; spathe light gr; spadix 7-9
- 35182 *Guarea pilosa*
HV sterile
- 35183 *Acetum*
Ep. 5-5 gr.
- 35184 *Tringys*
Plant pink, funnel-shaped. On dec. log
- 35185 *Tringys* ^{as one, white ben.}
Plant mahogany-colored, Ter.
- 35186 *Heliconia*
Ep. br. deep red; fl. blackish
- 35187 *Rub.*
Ep. br. light gr; Dor. tube deep pi, lobes white
- 35188 *Erythodes*
Ter.; per. greenish white
- 35189 *Carludovica grandis*
Ep; fl. or.; lvs arising flabellate
- 35190 *Paramea*
S young fr. greenish white
- 35191 *Cephaelis*
cf 5092; S 2.5-3 m; cor. white
- 35192 *Cyathia squamora*
Callex $\pm$ 30 cm long, 3.5-4 cm diam; fl. 75-90 cm ^{long}
- 35193 *Rub. Courassa attenuata*
S 2.5-3 m; buds pi

Andagoya; dense for. on ridge along blue liana
400-600 ft. Guarapo
120-180 m

4/22

- 35194 *Lindsaya*
Ter.
- 35195 *Carludovica*
Ter. o Ep.
- 35196 Rub.
Suff. herb; cor. wh
- 35197 *Selagin*
On bank along stream, rather open
- 35198 *Acaath.*
H ± 75 cm; cor. bright pi.
- 35199 *Isotoma longiflora*
Fls. wh.
- 35200 Verb.
HV; calyx lobes wh.
- 35201 *Gean.*
WV; cor. wh
- 35202 *Solanum*
Sun. t, 3-4 m
- 35203 *Solanum*
WV; cor. wh, anthers y
- 35204 *Scleria*
~~Maritima~~
- 35205 *Pariflora*
HV sterile
- 35206 *Celastr?*
J; fls. green y, red tinged
- 35207 *Bromelia flavo-rubra*
Ep; branches infl. rbr. red; fls. y
- 35208 Moss
On tt
- 35209 *Rhizidophyllum*
Rb. on tt
- 35210 Arch
Ep; infl. old

Andagoya; dense forest ~~on edge~~ along
Quib. Guarapo 120-180 m

4/22

open bank of ~~river~~ Quib. Guarapo

Tado' 90 m. n of Río San Juan

forest
~~thicket~~ along

Río San Juan Yacurí 200-225 m.
Camp. I; in open

4/24

edge of
marshy stream ~~bank~~

dense forest

✓ spec Yacurí (acc. to Bradbury), the name of the
stream entering S. Juan at Camp I & forming valley
to west of ridge on which these collections
were made. Whole region called Caracabá, but
check spelling

- 35211 *Diclenantroneuma*
Ter; pet. pi.
- 35212 *Polypodium angustatum*
On TT
- 35213 Moss
on TT
- 35214 *Gesneria platyphylla*
Ter.; br. deep red.
- 35215 *Gesneria* lvs red in upper veins, base
Ep.; br. red; cor. light y; lobes red in.
- 35216 *Gesneria angustifolia*
Ep; Calyx lobes greenish wh; cor. y
- 35217 *Carludovicia*
Caudex. subter.; fr. deep gr.
- 35218 ?
clay br.
J; fr. deep gr. calyx & fr. green
- 35219 *Pilea antioguensis*
at base of TT
- 35220 *Anthurium*
Ep. spadix gr.
- 35221 *Heliconia*
Ep.; fr. deep gr.
- 35222 ?
last ~~two~~ ep.?
- 35223 *Paullinia*
WV; buds gr.
- 35224 *Besleria grandiflora*
Ter herb; cor. mahogany-red; calyx deep red
- 35225 *Heliconia papayifolia*
Ep.; br. red.
- 35226 *Brouss.* ?
Ep.; br. red, yish at base; infl. covered with gelatinous ^{um} ooz.
- 35227 *Pilea*
St. repent at base, branches lax, suberect; infl. wh.
on ground or on base of TT

Camp. I; dense for. (200-275 m)

4/24

- 35228 *Diolena grandif.*
 Ter; lvs 1 ben; pet. fr. wh.
- 35229 *Gesum*
 Ep; cor. tube light pi, densely red-spotted in; lobes r. in
- 35230 *Tulandria*
 Ep.; br. red; per. red, wh at apex
- 35231 *Thib.*
 Ep. along br.; br. rich pi.; cor. slate blue, lobes white
- 35232 *Dichouzantha*
 Ter; fr. wh. un
- 35233 *Gesner. rubioides*
 Ep. br. light green, pink tinged; cor blue brown 2/3, wh. 1/3
- 35234 *Crematosperma*
 Ter. cor. wh.
- 35235 *Peperomia cordifolia*
 Ep. Rep. out.
- 35236 *Hep.*
 out
- 35237 *Anthurium*
 Ep.; spathe gr; spadix or.
- 35238 *Anthurium*
 Ep; fr. red
- 35239 *Gesum* un
 Ep; calyx r; cor. pi
- 35240 *Thib. umbellata*
 Ep; br. infl. r fr. r.
- 35241 *Gesum. elaphoglossoides*
 Ep; cor. bright y; infl. at base; lvs. light gr. ben.; calyx white
- 35242 *Gesum*
 Cor. cream, ter?
- 35243 *Viola*
 l.; pet. wh.
- 35244 *Gesum. sericea* un
 Ep; buds cream

Comp. T; dense for.

4/24

fr. deep purple on other specimen

- 35245 *Liliaceae*!
Ter; per. r, pale at base
- 35246 *Brom*
Ep; br. r.
- 35247 *Yucca*
Ep. calyx deep red; cor. light r.
- 35248 *Thiob.*
Ep; lvs dual
- 35249 *Miconia ampliseaulis*
St. $\pm 1m$; fls. light gr.; st. wh.
- 35250 *Pilea*
- 35251 *Phil. caudex*
Ch; spadix wh.
- 35252 *Miconia pseudopum.*
S 3-3.5m; fls. light pi
- 35253 *Aspl. thurberii*
Ter; sp. inf. lost?
- 35254 *Austrian*
Ep; spathe gr.; sparsely green fls.
- 35255 *Brom*
Ter. br. r, per. wh.
- 35256 *Miconia*
T. 3-4m
- 35257 *Cyrt. magniflora*
- 35258 *Elaph.*
Ep; sterile
- 35259 *Ref. on t.*
- 35260 *Cycas circinalis*
Caudex sub t. fl. up to 1.5m long
- 35261 *Phil.*
Ep.; fl. or.

Camp I, dense for.

4/24

- 35262 *Trichomanes repens*
Rep. on tt
- 35263 *Davallia*
Ter.; no fert. along out of plants
- 35264 *Mariposaria*
Ep.; per. deep fern
- 35265 *Trichomanes*
In clumps on tt
- 35266 *Jacarantha* ??
T ± 2.5-3 m; leafy toward apex; old fr (?) black
- 35267 *Trich.*
Rep. on tt
- 35268 Moss.
On *Anthurus*
- 35269 *Ore.*
Ep.; per. deep fern
- 35270 *Zamia* ? *Wrightia*
S or t? lvs. deep fern. ben tt; cor. pinkish blue
- 35271 *Panicum. tiliacifolium*
H.V.; sterile
- 35272 *Rub.*
Tree? Calyx gr.
- 35273 *Sphagnum Torreyana* ?
Forming mat
- 35274 *Scroph.*
Prost. herb, or shrub
- 35275 *Spathiphyllum*
Ter.; spathe pure wh; stayt greenish wh
- 35276 *Eubonia*
Per. pure wh; pl. leafless
- 35277 *Elm?*
Tree 4-5 m; fr. green
- 35278 ?
Tree, 3-4 m " "

Yeracün 700-900 ft.
Yeringai
Camp I; dense forest

4/24

Thickets

open sandy ground along stream

clearing open bank

clearing

open woods.

dense forest (fern)

4/25

- 35279 *Cyathea*
Caul. ± 60 cm. high; fr. ± 150 cm. long. ^{incl} ~~fr.~~
- 35280 *Gesner*
Ter.; cor. y
- 35281 *Cyperus*
- 35282 *Cyperus*
- 35283 *Polypodium*
- 35284 *Euphorbia*
S 1-1.5 m; ~~stems~~ rays wh
- 35285 *Pilea*
- 35286 *Gesner*
Ep.; cor. cream, not spotted
- 35287 *Dryopteris* *Cyclodium* *trianae* var. *chocoense* A.R.Sch
- 35288 *Thib*
Ep;
- 35289 *Renealmia*
Fr. red
- 35290 *Geonoma* (all of 2 lvs taken)
Trunk 5 cm diam, 2.2 m. high; pet. ± 30 cm.
- 35291 Moss
On lvs of 5290
- 35292 *Tococa*
Ep. sh. ± 1.5 m; pet. pi.; st. palm; fr. black
- 35293 *Geonoma*
Trunk 3 m high, 3 cm. diam
- 35294 *Orch.*
Ep; fr. pi
- 35295 *Orch.*
Ep; fr. wh

Camp I, dense fr.

4/25

open woods

~~thicket~~

dense fr.

- 35296 Moss
On roots of 5295
- 35297 Sapind.?
Buds green
- 35298 Anthurium
Ep. un
- 35299 Plumbago
Ep.; fls. withered "
- 35300 Miconia
S or sub T, 2.5-3m; fr. black; pet. orange, lob
- 35301 Peperomia
Rep. on tt
- 35302 Polypodium
on tt
- 35303 Epidendrum
Ep.; per. seq. green - green
- 35304 Philodendron
Ep.; infl. branched & calyx red; lvs. lustrous above
- 35305 Dyclazum
- 35306 Sapot. (fr. separate) "Cainito" un
Fr. ± 2.5 m; fr. & lvs from ground fr. edible
- 35307 Pilea ophiodesmia
Ep.; lvs. mottled above
- 35308 Gesneria buds green, red-lined longitudinally
Ep.; lvs & bract light gr. base, red-blotched close to apex
- 35309 Gesneria
Ter. herb; fls buds red
- 35310 Gesneria
Ep.; bracts light gr
- 35311 Palm
infl. at base; fr. white
- 35312 Moss
Caulis ad subterranean; fr. 3.3 m. long incl. pet.
on tt

Camp I, dense for.

4/25-

- 35313 *Coussarea* fr. deep gr.
J 4-5m. high; trunk slender, much branched above
- 35314 *Piper*
S, st. erect ± 1.2 m; to name for my guide, whose ^{name appears} ~~name~~ ^{is} ~~is~~
- 35315 *Arctium*
Ep. spathe gr.; spathis, pinnate ?
- 35316 Rub. ??
- 35317 *Piper*
H.; buds deep pi
st. erect ± 1.5 m; cf. ~~cf.~~ 35314
- 35318 *Derris*
~~Is~~
- 35319 *Trichomanes erecticaipa*
Ter.
- 35320 Selag.
On wet TT
- 35321 Moss
On dec. log.
- 35322 Melast.
J 6m; trunk, 25-30 cm diam; pet. red pi
- 35323 Selag.
On bank
- 35324 Elaph.
On T; sterile
- 35325 Moss
On branches
- 35326 Rub
J 4-5 m; fr. flaccid
- 35327 *Philodendron cordatum*
Ep; spathe light gr.; lvs dull above
- 35328 *Gesner*
Ep. lvs with broad red margin below; calyx ^{light gr.} ~~light gr.~~
- 35329 *Costus*
Per. wh.

Camp I; dense for.

4/25-

- 35330 *Xanthosoma*
Ter. spathe deep r; spadix wh
- 35331 *Picramnia*
T; spikes drooping; fls. yg
- 35332 Moss
On branches
- 35333 Hep
Do
- 35334 *Cyathia squarrosa*
Under 2.2 m
- 35335 Rub.
S 2.5-3 m
- 35336 Piper
S $\pm$ 3 m
- 35337 Gum? Rub.
S $\pm$ 30 cm
- 35338 *Peperomia*
Ep; lvs rather fleshy; infl. green
- 35339 ~~On~~ Trich.
On branches
- 35340 Hep.
On T.T.
- 35341 Elaph.
On branches
- 35342 *Polypodium suprasculptum*
On T.T.
- 35343 Aich. ??
Ter; per. pinkish blue
- 35344 *Arctium*
Ep. spathe light gr; spars deep purple.
- 35345 Moss
On lvs of 5344
- 35346 Lycop.
Ep. ~~no~~

Camp I, dense for.

4/25-

35347 *Cyathia*
Caudex $\pm$ 45 cm. high

35348 ?

T 3-4 m; Fr. red, with 5 deeper lines at sutures

35349 *Anthurium*

Ep.

35350 *Anthurium*

Ep. Sp. & spad light gr

35351 *Anthurium*

Ep.

35352 *Heliconia*

Tree, 4-5 m; buds gr.

35353 *Lycopodium*

35354 *Cephaelis* *Siphonanthus*
wr; cor. wh

35355 *Ciphaea*
Pet. light pr

35356 *Guava*

35357 *Lida rhombifolia*
H up to 1 m

35358 *Tournefortia*

35359 *Saurau*
Cor wh

35360 *Chelodanthus*

35361 *Prochilus*
Ep. opposite to trunk; per. wh

35362 *Opoe*

35363 *Opoe* Sp. 3-4 m; cor. y

Copied I; leave for.

8/24-

2d growth woods

edge of river, in open

Banks of R. San Juan, open river bank
Cerro de la Cruz, $\pm$ 100 m.

open woods

shaded river bank

- 35364 *Dichroma*
Br. green, not variegated
- 35365 *Lumbricaria*
HV; cor. wh
- 35366 *Arac.*
Ter.; spathe ^{sp. gr.}; spad. or.
- 35367 *Raputia*
- 35368 *Voyria*
Saprophyte; cor. y
- 35369 *Mapania*
- 35370 *Leptochilus*
Ter.
- 35371 *Selag.*
High climbing, with long-drooping, "whiplike" roots
- 35372 *Ardisia*
Tr 6-7 m; cor. wh
- 35373 *Wasscepinia*
T, 4-5 m.; br. bright r.
- 35374 *Aphelandra*
Coarse h, ~~60-80 cm~~ 60-80 cm; fls. reddish
- 35375 *Palms*
in upper half of trunk; sterile
Trunk ± 2.2 m h, ± 2 cm diam. Lvs. evenly spaced out,
- 35376 *Cephaelis*
Fr. S, 2 m high; br. bright red
- 35377 *Cyrtosperma*
Andropogon-like, fr. ± 1.6 m. long. basal part sep.
- 35378 *Phaseolus*
HV; fls. green & y
- 35379 *Selag.*
- 35380 *Dichroma*
In clumps

Camp I. open bank of R. San Juan

4/25

Quilagaya: clearing (escape) 65 m.

4/27

" 21 growth for, west side of
R. San Juan 60-90 m.

Clearing.

Sandy & gravelly edge of
river. * = characteristic plants
along S. Juan 60 m.

- 35381 Moss
Dependent from branches
- 35382 *Saurauesia* *
- 35383 *Acauth*; *Scroph.*? *
- 35384 *Piper*
Tr. ± 4 m; branches hanging over bank *
- 35385 ? "*Pislinde*" *
- Variable in height 3-8 m; only along these rivers.
- 35386 *Acauth* *
- Cor. wh
- 35387 *Pilea*
On muddy bank
- 35388 *Alga*
On wet rocks
- 35389 *Grass* *
- 35390 *Cortus* ^{upper half}
Pl. 1.5-2 m; per. wh. red-striped toward margin in
- 35391 *Phyllanthus*
- 35392 *Cassarea* *
- S, elong. br up to 2 m l.
- 35393 *Dryopteris*
- 35394 *Inga*
J 8-10 m; sterile
- 35395 *Trinitaria*
- 35396 *Polypodium*
On C.
- 35397 *Castilla* "*Canala*"
Tall tree, giving rubber

Andagaya: ~~sturdy~~ & gravelly shore of
R. San Juan across from camp 60 m.

4/27

dense for. along stream
60 m.

- 35398 *Polypodium*
Report
- 35399 *Sandhazia*
St. subglab., br. red, cor. y
- 35400 *Pilea*
Report in soil
- 35401 *Eucharis*
Pr. wh
- 35402 *Pityrogramma*
- 35403 *Eleocharis*
- 35404 *Peperomia*
- 35405 *Phyllanthus*
- 35406 *Cleome*
- 35407 *Dioscorea grandis*
Ter.; pet wh
- 35408 *Piper firma*
Ter. Herb, suff. stem 15-60 cm high
- 35409 *Solanum*
Lvs S, br. up to 1.5 m, long; cor. greenish wh, pink-tinged
anther green
- 35410 *Guania*
IV Calyx light r, cor. light y
- 35411 *Crematosperma*
white along under side
Lvs; lvs bright gr. above, pale below. cor. y
- 35412 *Piper*
S 2-2.5 m.
- 35413 *Heliconia*
St $\pm$ 1.5 m; infl. pendant; no complete lvs seen; br. r
- 35414 *Pilea degeneri*
Rep on ground & up base of tree

Audagoya: dense forest along stream,
across river from Audagoya
60 m.

4/27

Audagoya
Río Condoto, Camp III, Mandinga 60 m.
Swamps

4/28

clearing

→ dense for. along
trail from Oredge III to
Chicabado Guarapo (alt. 120-180 m.)

- 35415 *Coussarea*
T 5-6 m; corolla light blue, lobes slightly dark blue
- 35416 Rub?
T 5-6 m; cor. wh.
- 35417 *Guas* at summit, fls. among them
T with straight, slender trunk $\pm$ 5 m high; lvs in rosette
- 35418 *Psychotria*
S or small T 2.5-3.5 m; buds green
- 35419 Rub. *Mulin*
H; fr. wh.
- 35420 *Moss*
Along branches of 5419 or on other br
- 35421 *Piper* 1 m
S 1.5 m
- 35422 *Solanum pallidum* 1 m
S $\pm$ 1.5 m
- 35423 *Hemialium*
Leafy stem $\pm$ 2.2 m; infl. at base; fr. or
- 35424 *Myrsine*
On edge of leaf
- 35425 *Paullinia*
WV; fls. (buds) in clusters on old wood, green wh
- 35426 Rub
Tree; branch fallen; fr. wh. or - tinged
- 35427 *Palma* *Palma nigr*
No infl. See sep. note
- 35428 *Didyma meoanthia* white at base, caducous
Tr.; cor. pet. ~~fr.~~ pinkish blue; anthers cream
- 35429 *Geum*
Tr.
- 35430 *Carludovicia*
Ep; fr. or.
- 35431 *Caesalp.* (cf. *Archeis*)
Tree 12-15 m; pod seen but not obtainable

Rio Condoto: dense forest along trail
from Bridge III to Q. Guacapo
120-150 m.

4/28

Br. penicillata, fr. tinged, bud cream

35427. *Stictis* $\pm$ 2 m high, about 12 to a plant, fruiting.
Trunk 40-60 ft high, $\pm$ 20 cm diam; much used
for wood. Lvs 3 m long, inch. pet $\pm$ 1 m.
Sheath twice as long as specimen taken

- 35432 Fern
Ep.
- 35433 Vauapa
Tall tr.; sterile
- 35434 Rub
Tr. 8-9 m; cor. y-g; lvs toward summit
- 35435 *Leucobryum*
Plant reddish; on tt.
- 35436 *Isoetes*
Br. subsc; lvs very sharp-edged
- 35437 *Oryopteris*
Tr.
- 35438 *Oleandra*
Clustering high on tt
- 35439 *Antithea acuta*
Tr.; spathe green; spad. pi
- 35440 ?
Tr. 7-8 m high; fr. deep r; seeds or-r.
- 35441 *Leiphasium*
Sapw. cor. faint blue tube light gr, lobes sky-bl
- 35442 *Melast.*
Vine appressed to tt.; ^{fruiting} ~~sterile~~ fr. red
- 35443 *Xanthosoma arcuatum* var. ²
Ep; spathe gr.
- 35444 Moss
on dec. log
- 35445 Fern
on bank
- 35446 *Biophytum*
lvs light gr.
- 35447 *Pilea*
Rep. ter sub. lt
- 35448 Rub.
T 7-8 m; fr. wh

R. Condoto: dense forest along trail
from Sredge III to D. Guarapo
120-190 m.

7/28

Bank of small stream

- 35449 *Piper*
er. 3 ± 1 m
- 35450 ?
Projecting from trunk of a Melast.
- 35451 *Dicranostyles*
high det. wh; cor. wh
- 35452 *Piper*
5 ± 2.5 m.
- 35453 *Viscaria*
J 5-6 m; lvs light gr. ben.
- 35454 *Dryopteris*
Prostr. to 1.8 m, incl. stipe
- 35455 *Viscaria*
J 7-8 m; lvs rusty-br. ben.; fls. red-br.
- 35456 *Vernonia longifolia*
Soft, pappus wh
- 35457 *Vernonia plumifera*
Soft; fls. deep purple; pappus wh
- 35458 *Pinella lobata*
H ± 1.5 m.; infl. light y
- 35459 Gesner
Erect shrub 1.5 m high, calyx y-g; cor. bright red. (Pl 145)
- 35460 Rub
Jr 4-5 m, along br.; bracts purp.; cor. wh.
- 35461 *Crematosperma*
Jr. cor. y
- 35462 *Spigelia*
H 50-80 cm; cor. pi, tube wh
- 35463 *Philodendron*
Sc. out
- 35464 *Aeschynomene*
Of muddy soil, partly in water
- 35465 *Mauvielia*
Lvs green at base, light y. white above, light y (out); tube red in

R. Condoto: dense for. along trail
from Dredge III to R. Guarapo
120-180 m.

4/28

El Choco: *Pastinaca*, about 75 m forest
along road to thickets
thickets

4/29

forest

thickets

dense forest
(only seen here)

marsh

thickets

- 35466 *Peperomia*
Ter.
- 35467 *Geonura*.
Ter on bank
- 35468 *Bromel.*
Ep.; br. r; per(?) wh
- 35469 *Acanth.*
Br. wh
- 35470 *Coccoloba*
Rep. h; cor. light blue; fr. deep blue
- 35471 *Aristolochia*
HV; cor. fls. green lower half, hood red, green-veined
- 35472 *Cayaponia*
HV; fr. y, 8 cm. long, 5 cm. diam
- 35473 *Cordia*
S 1-1.5 m high, with elong. br; cor. wh.
- 35474 *Anthrostenum*
Herb elong. br; pet. pink (faint beyond),
br at center, rat margin
- 35475 *Croton*
Coarse erect H 80-120 cm; fr. y
- 35476 *Passiflora vitifolia*
HV; sep. & pet. r.
- 35477 *Geonura*.
HV; br. gr., pi-liged; fr. r.
- 35478 *Solanum*
S. $\pm$ 1.5 m., elong br; cor. wh. anthers y
- 35479 *Trema nicantha*
Tree
- 35480 *Scroph.*
Suberect herb; cor. bright blue
- 35481 *Bromel.*
Ep.; buds blue pink, perianth blue almost
- 35482 *Croton*
T 3-6-8 m (observed also at Camp I)

Ystima $\pm$ 75 m. dense for.
along road to Chibolá

4/29

shaded bank

dense for

thickets

dense for.

thickets

open marsh

35500 Trichomanes

On t t

See Separate Fruit Collection

35501 Anon.

"Guásimo blanco"

Tree 15-20 m, trunk 80-100 cm. diam; bark put in water, 6-18 m high, trunk 20-25 cm diam.

35502

Palau

No stipe; trunk 40-60 ft.

"Chontaduna" Pl

See Separate Fruit Collection

infl. borne just below lowest leaf
leaf $\pm$ 7 ft. long in pet. 2.5 ft. fruit eating taste, like chestnuts.

35503

Brownea multijuga

35504

Epidendrum

Ep.; all fr. reg. greenish wh

35505

Palau

Among roots of 5504

35506

Orch.

Ep.; fr. young (?)

35507

Orch.

Ep.; fr. wh

35508

Orch.

Ep.; sterile ?

35509

Orch.

Ep.; old fr. reddish

35510

? Fern

Hang in a dense mass from t t

35511

Eleocharis

35512

Moss

On t t

35513

Palau

Tr. $\pm$ 3 m h, 3 cm diam; pet. $\pm$ 12 cm; fr.

35514

Myrt.

Shr. $\pm$ 2.5 m; buds (?) reddish

35515

Comp.

V. scandent up t t

35516

Codonanthus

Scandent on t t, (buds)

Audagoya: second growth forest 70-100 m.

4/30

Pl. Guarapo

5/1

run exudes and is used to soap palm oil

125 m.

148

(See record notes) clearing

very common on plantations along S. Juan

Rio Tró, Geo. Rhodes coll. 170 m

4/30

dense for.

Buena Ventura Bay: mangrove swamp

5/4/5

Hidol Thichela along mangrove swamp

- 35517 *Boueria*
Suberect H.; cor. wh.
- 35518 *Decur. frutescens*
Herb, suff. below, br. ^{erect}; pet. pinkish purple
- 35519 *Oxalis*
Pet. w
- 35520 *Passifl. coriacea*
N.V.; sep. light gr.; fr. purple
- 35521 *Melochia*
H. $\pm$ 50 cm; pet. wh.
- 35522 *Coleumma*
H: tube light r. out, y. in, lobes light red, deeper red-spotted,
- 35523 *Chaptalia*
Suff H, up to 1 m; pet. wh.
- 35524 *Pavonia*
- 35525 *Desmodium*
St. repent
- 35526 *Psychotria*
S $\pm$ 1.5 m, much branched above; cor. wh
- 35527 *Passifl. subpectata*
N.V. stem
- 35528 *Passifl. capsularis*
H.V.; all flower parts greenish wh.
- 35529 *Pouzolzia obliqua*
S or suff t. $\pm$ 3 m
- 35530 Moss
On TC
- 35531 *Heliconia*
Stem $\pm$ 1.7 m; suff. erect; br. or, yish ^{open}
- 35532 *Oreocoe*
S $\pm$ 2.3 m; pet. purple (perhaps soaked)
- 35533 *Desm. albiflorum*
Subp. h., pet. wh
with subprostrate branches

B/ventura Bay, thickets along
mangrove swamp
Cisneros: open bank

5/4

5/5-

thickets

open bank

thickets

~~open~~ open woods

thickets

Unicats given Bugota, and brought back, mounted,
as loan ^{15 2/5-48} Date = date of return
to Bugota

125 - 3/4/41

180 - 1/6/41

181 - 3/4/41

11 ret. 3/4/41

2 .. 1/6/41

270 - 5/50

301 - ~~31~~ 44 3/15/45

306 - 10/53

307 - 10/53

308 Cant find 10/53; We have a good sheet *Guzmania muscicola*
of this; prob. ret.

315 9/47

316 3/4/41

322 "

323 1/6/41

327 Brown (see note on 306)

329 3/4/41

334 9/47

335 3/4/41

336 11/18/41

354 3/4/41

445 5/50

587 *Centropogon* (cant find)

prob. ret.

590 3/4/41

618 "

626 "

799 "

630
577
4

- 35534 *Fittoria*
Ref. H., lvs conspicuously white venis above
- 35535 *Geum*
Ter; cor. orange
- 35536 *Carludovica palmata*
Acaulescent; pet. ~~1.5-1.8 m.~~ 1.5-1.8 m.; infl. green
- 35537 *Adiantum macrophyllum*
- 35538 *Tillandsia*
Ep.
- 35539 *Solmsia*
H V; infl. orange
- 35540 *Adiantum melanoph.*
- 35541 *Cayaponia*
H V
- 35542 *Lasiacis*
High climbing
- 35543 *Selaginella bombycina* Spring
On bank
- 35544 *Cissampelos grandif.*
H V
- 35545 *Calathea glauca*
St. $\pm$ 60 cm. fls ~~est~~ ov. wh; per. granules, y dist, pale prox
- 35546 *Geophila*
Ref. H; cor. wh; fr. r
- 35547 *Hep.*
Hanging from branches
- 35548 *Renealmia* (fr. rep.)
Leafy stem 2-2.1 m; infl. pedunc $\pm$ 30 cm; fr. ^{legit} r.
- 35549 *Dryopteris*
^{mont.}
Caudex subter.
- 35550 *Peperomia elongata*
Ep.

El Valle: Cisneros, open woods
400-500 m.

5/5-

thickets

open woods

- 35551 *Polypodium purpuraceum*
on t.
- 35552 *Cyrtopeltis semicordata*
Ler.
- 35553 *Melothria*
HV
- 35554 *Costus*
H $\pm$ 1.8 m; br. r; per. wh.
- 35555 *Fevillea*
HV; fr. black
- 35556 *Vernonia*
Erect tree $\pm$ 4 m; pappus white
- 35557 *Anthurium*
Ep. Spadix deep bright pi, fr. (?) wh, pubescent at base
- 35558 *Paspalum halimii*
HV; sterile
- 35559 *Oryzanthus*
Par.
- 35560 *Oryopteris* *Thelypteris gemmulifera* (Hieron.) det. B. Lallinger 1981
- 35561 *Eup.*
S; $\pm$ 2 m
- 35562 *Madriantia gracilis*
Lax ^{stem} $\pm$ 50 long; per. wh.
- 35563 *Cayaponia*
HV
- 35564 *Piper*
S $\pm$ 2.2 m.
- 35565 *Chamaefistula*
Shr. t., 3-3.5 m; pet. light y
- 35566 *Pongolzia occ.*
Shr. t. 3-4 m
- 35567 *Paspalum vilif.*
HV; sep. & pet. scarlet

Casimero $\pm$ 400-500 m. open woods

375 -

thickets

open woods

- 35568 ~~Croton~~ *Dimerocostus* per. wh, or pink at ^{center}
Arborescent; trunk 4 m high, 7 cm. diam. ~~fl. white~~
- 35569 *Ficus*
Tr. 5-6 m.
- 35570 *Polyph.*
Ep
- 35571 *Piper*
S $\pm$ 2 m
- 35572 *Epidendrum*
Ep; ~~fr. green~~ per. green.
- 35573 *Croton*
Tr 6-7 m
- 35574 *Acanth.*
H $\pm$ 1 m; lower lvs. pi
- 35575 *Turnera ulmifolia*
H $\pm$ 40 cm; pet. y
- 35576 *Canna*
H, $\pm$ 1.2 m; per. r.
- 35577 *Begonia*
Ter.; pet. wh, pi-tinted
- 35578 *Cheilanthes*
- 35579 ~~Bradburia~~ *Centrosema pubescens*
HV; ~~pet~~ standard ~~wh~~ bluish pi
- 35580 *Mor.*
Tree 5-6 m; infl. y-g
- 35581 *Columna*
^{tbls}
Cor. r., lobes green, black-spotted in
- 35582 *Alternanthera*
H ~~60-80~~ 70-80 cm; infl. greenish wh
- 35583 *Dracopis sericea*
HV; pet. pinkish blue.
- 35584 *Lepidodermis*
#V

Cisneros 400-500 m; open woods

5/5-

300 m thickets along R. Dayana

shale bank

thickets along R. Dayana

shale bank

thickets " " "

- 35585 *Pilea*
Succ. limb
- 35586 *Aphelandra*
S ± 1.5 m; cor. bright r.
- 35587 *Bromel.*
Ep.
- 35588 *Selag.*
Ter.
- 35589 *Acanth.*
Herb. ± 1.8 m; cor. blue
- 35590 *Aphelandra*
S ± 2 m; cor. bright r.
- 35591 *Peperomia*
Report on branches
- 35592 *Oncidium* ~~pusillum~~
Epi; cor. bright y
- 35593 *Pavonia*
H ± 80 cm; pet. pi.
- 35594 *Oxalis*
Pet y
- 35595 *Aureum*
Ter.; infl. at base of pet.; lvs up to 1 m lvs
- 35596 *Panicum trichosperum*
- 35597 *Grass*
- 35598 *Sida limifolia*
Pet wh
- 35599 *Marchantia*
On wet bank in spray of falls
- 35600 *Gesner*
Ter; cor. wh out pinkish-pink in & at center of white lobes
- 35601 *Selag.* *Selaginella novae-hollandiae* (Sw) Spring

Asiatics, 300 m; thickets along R. Dagua

5/5

open shale bank

wet bank in spray of water

- 35602 Grass
 35603 Moss
 35604 *Piper cordatum*
~~Fr.~~ S. branched at base, br. up to 2.8m.
 35605 *Pilea unaniphylla*
 35606 *Hydrocotyle Euph.*
 Keft. br. H; florets blue
 35607 Gesner
 Cor. tube wh, lobes blue
 35608 *Peperomia*
 sp.
 35609 ~~Chor~~ *Selagin*
 35610 *Pilea pubescens*
 35611 *Brachyotum*
 H $\pm$ 1.8m.; cor. y; fr. red
 35612 *Euphorbia*
 St. red toward turn
 35613 *Vernonia*
 S $\pm$ 2m; florets pinkish blue
 35614 *Tectaria*
 35615 Scroph.
 Provst. h, cor. wh
 35616 Scroph
 Ex. herb; cor. blue.
 35617 *Portulaca*
 res. deep pi.
 35618 *Solanum*
 H up to 50cm; cor. wh

Asuñun 300m; wet bank in spray
 of falls.

75-

open woods
 wet bank in spray of falls

thickets

wet bank — — —

" " " "

open bank

shaded —

thickets

wet bank in spray of falls

gravelly ^{river} ~~stream~~ bed

- 35619 *Galactia*
Rep. H; pet blue
- 35620 *Chamaecrista*
B.T. 4
- 35621 *Polygala*
Pet. pinkish blue & wh
- 35622 *Mucuna* (30122a)
Seeds
- 35623 *Hypnum* (33190a)
on rock
- 35624 *Grass* (33136a)
- 35625 *Bromel.* (33220a)
Ter.
- 35626 *Genes.* (33244a)
Ter.
- 35627 *Luidia* (33247a)
- 35628 *Genes.* (33245a)
Ter.
- 35629 *Genes.* (33245b)
Ter.
- 35630 *Croton* (33263a)
- 35631 *Pachyrrhizus* (33340a)
- 35632 *Rub.* (33383a)
- 35633 *Rypch.* (33633)
- 35634 *Moss* (33419a)
on 33419a
- 35635 *Pennisetum*
8 in 10 ft; few to 20 ft; one to 30 ft

- Asieros, 300 m., gravelly streambed
open bank 5/5-
- Bventura: waste place 5/7
- Gorgona Is.: beach 2/9
- " : east side (d.f. along stream) 2/11
- " " " " coastal thickets "
- " " " " " 2/14
- Que. 18, dense for. "
- " " " " " "
- " " " " " "
- " " " " " "
- " " " " " "
- North shore, Bventura Bay 2/16
- " " " " " "
- Cordoba: in ditch 2/17
- " dense for. "
- El Estero

- 35636 *Carludovica* (33501a)
 35637 *Piper* (33518a)
 35638 *Piper* (33521a)
 35639 *Acanth.* (33576a)
 35640 *Uros* (33710a)
 On die. branches
 35641 *Germer.* (33767a)
 35642 *Sol.* (33781a)
 35643 " (33782a)
 35644 *Moss* (33803a)
 On branches
 35645 *Trichomanes* (33826a)
 35646 *Orel.* (33883a)
 Epf.
 35647 *Germer.* (33914a)
 Epf.
 35648 *Berberis* (34118a)
 Small tree
 35649 *Grass* (34145a)
 35650 *Cyperaceae* (34276a)
 35651 *Marsil.* (34277a)
 35652 *Hypoxis* (34309a)

- Balsa Solana; dense for. along th. Jacinto* 2/22
 " " "
 " " "
 " " "
Yanacunas: dense for. Monte Lirio 2/27
 " *El Silencio* 2/28
 " " "
 " " "
 " " "
 " " "
 " " "
San Antonio 3/2
 " "
Par. de Guasca 3/12
 " "
± 20 km S.E. Villavieja; palm jungle 3/17
 " " "
 " " *llanos*

- 35653 Leg. (34400a)
HV; pet. blue
- 35654 Clibadium (34408a)
- 35655 Mimosa. (34409a)
Tree 5-6m high
- 35656 Melast. (34440a)
S
- 35657 Cissampelos (34537a)
- 35658 Arch. (34541a)
Ep. Ter.
- 35659 Opalis (34546b)
- 35660 Comp. (34546c)
- 35661 Hib. (34579a)
S, along branches; bracts pi; cor. white
- 35662 Rub. (34598a)
Ep.
- 35663 Garcetina (34640a)
low S
- 35664 Pilea
- 35665 Rust on 34698 (34698a)
- 35666 Acauth. (34738a)
- 35667 Eup. (34744a)
- 35668 Rub. (34839a)
Ep.
- 35669 Elaeagnus (34976a)
Ep.

Rio Ocoa; rocky stream bed

3/18

Rio Guatigüiza; streambed

"

" edge of river

" woods along river

Quindío Highway, Km 45; wooded valley ^{2430m}

3/27

" " open land, 2700m.

" " 2750m

" " "

" " divide

" " ± 2800m

3/28

" " open land, ± 2800m

"

Along R. Cauca, n.e. of Cali; 6000m

3/31

La Elva, 825m; densely forested valley

4/2

" " "

Rio Engueta

4/4

B/ventura Bay; mangrove swamp

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- 35670 Melast. (35042a)
Tree, 3-4m; fr. purple
- 35671 Gesner. (35083a)
- 35672 Anthurium (35098a)
- 35673 Palm (35097a)
- 35674 Orch. (35188a)
Tree.
- 35675 Myrsine (35163a)
Tree.
- 35676 Hef. (35340a)
On tree.
- 35677 Moss (35383a)
On branch
- 35678 Piper (35408a)
Tree.
- 35679 Hef. (35420a)
On branches
- 35680 Hib. (35422a)
- 35681 " (35422b)
- 35682 Gesner (35422c)
- 35683 Bromel. (35422d)
Ep.
- 35684 Bromel. (35422e)
- 35685 Arac. (35422f)
- 35686 Antiochia (35471a)

Andagoya, 75-100m; 2nd growth fr.

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Lower R. Condoto

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Quadrada Guapo

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Corcovada Region

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Across R. San Juan

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Guanduzo - Guapo

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Estimada

- 35687 Fern (35533a)
 35688 *Cusca*
 Fruit from Hotel alpin Real
 35689 *Hymenoph.* (34263a)
 35690 " (33562a)
 35691 *Calathea* (34724a)
 35692 *Samol. secumum* (34418a)
 35693 *Diolena spicata* Turrill (35243a)
 35694 *Wiss.* (34673a)
 35695 *Heter. Ficus* ~~35005b~~
 35696 *Verb.* 33239a
 35697
 35698
 35699
 35700
 35701
 35702
 35703

Cusines; Thibets

Cali

20 Km S. de Villavieja

Bahia Solana, Arch. Jucita

Oregia Valley

R. Guatiquia

Corcobada -

Humboldt

R. Uegria

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