

1588, 1590-92, 96.

G

Besleria (Det. C. V. Morton)

from
Killip
4/4/36

Pennell-Killip

- ✓5774. triflora var. australis Morton
- ✓5875. vestita Fritsch
- ✓5891. " "
- 6129. solanoides H.B.K.
- 6145. " "
- o ✓7394. reticulata var. pubistyla Fritsch
- ✓7686. leucocarpa Morton type
- ✓7900. solanoides H.B.K.
- ✓7996. riparia Morton?
- ✓8065. solanoides H.B.K.
- ✓9077. " "
- ✓10412. nubigena Morton type
- ✓10487. Pennellii Morton type
- ✓10741. microphylla Fritsch
- ✓11119. solanoides H.B.K.
- ✓11159. triflora var. australis Morton
- ✓11608. decipiens Morton type
- ✓11626. vestita Fritsch
- ✓12132. angustiflora Fritsch

CAESALPINACEAE OF THE COLOMBIAN EXPEDITION OF PENNELL AND
KILLIP, DETERMINED BY J. N. ROSE.

- 5421. *Cassia viciaefolia* Benth.?
 -5477. *Chamaecrista jahnii*.
 Not at G.H. -5611. *Cassia hirsuta* L.
 " " " -5614. *Chamaecrista patellaria* (DC.) Greene.
 " " " -5638. *Cassia spectabilis* DC.
 " " " -5642. *Chamaecrista patellaria* (DC.) Greene.
 " " " -5644. *Cassia occidentalis* L.
 -5960. *Chamaecrista simplex* Standl.
 -5961. " " "
 " " " 6040. " *patellaria* (DC.) Greene.
 " " " 6445. *Cassia picta* G. Don.
 " " " 7137. " *tomentosa* L.
 -8373. " *occidentalis* L.
 " " " 8380. " *tora* L.
 " " " 8381. " *reticulata* Willd.
 " " " 8522. " *indecora* H. B. K.
 -8607. " " "
 " " " 8613. *Chamaefistula macrophylla* (Kunth) B. & R.
 -9631. *Cassia mutisiana* Kunth.
 " " " 10690. *Chamaecrista*.
 " " " 10698. *Cassia patellaria* (DC.) Greene.
 " " " 10839. " " "
 " " " 11061. " *reticulata* Willd.
 " " " 11079. " *spectabilis* DC.
 -11535. *Chamaecrista patellaria* (DC.) Greene.
 -12071. " *pilosa* (L.) Greene.
 " " " 12072. " *serpens* (L.) Greene.
 -5369. *Cassia leptocarpa* Benth.
 -5373. " *tora* L.

CENTROPOGON IN COLOMBIAN COLLECTIONS OF PENNELL KILLIP AND HAZEN
IDENTIFIED BY H. A. GLEASON ALSO BURMEISTERA

- o 5148 Burmeistera lacerata Karst.
- ✓ 5150 Centropogon speciosus Planch.
- ✓ 5151 Burmeistera succulenta Karst.
- ✓ 5183 Centropogon cornutus (L.) Druce
- ✓ 5407 " "
- ✓ 5723 Centropogon gravidus Gleason
- ✓ 5773 Burmeistera lacerata Karst.
- x 5783 Burmeistera succulenta Karst.
- ✓ 5798 Burmeistera glauca (Wimmer) Gleason
- ✓ 5921 Centropogon gravidus Gleason
- o 6041 Centropogon cornutus (L.) Druce
- ✓ 6144 Centropogon Planchonis Zahlbr. probably
- o 7089 Centropogon Lindenianus Wimmer
- o 7192 Centropogon Planchonis Zahlbr. probably
- ✓ 7229 Burmeistera lacerata Karst.
- o 7240 " "
- ✓ 7325 Burmeistera carnosae Gleason
- ✓ 7382 Centropogon fulvus Gleason
- ✓ 7414 Centropogon pedicellaris Gleason
- ↓ 7455 ✓ 7445 Centropogon Macbridei Gleason
- ✓ 7527 Burmeistera Killippii Gleason
- ✓ 7545 Centropogon breviflorus Gleason
- ✓ 7619 Centropogon pedicellaris Gleason
- ✓ 7695 Centropogon pedicellaris gallerensis Gleason
- ✓ 7700 Centropogon gesneraeformis Drake
- ✓ 7701 Centropogon pedicellaris gallerensis Gleason
- ✓ 7770 Burmeistera lacerata Karst.
- ✓ 7862 Burmeistera lacerata Karst.
- ✓ 7942 " "
- ✓ 7948 Centropogon pedicellaris gallerensis Gleason
- ✓ 7955 Burmeistera lacerata Karst.
- ✓ 7967 Centropogon pedicellaris gellerensis Gleason
- ✓ 7980 Burmeistera Killippii Gleason
- ✓ 8063 Burmeistera lacerata Karst.
- ✓ 8087 Centropogon Lehmanni Zahlbr.
- ✓ 8562 Centropogon cornutus (L.) Druce
- ✓ 8597 " "
- ✓ 8617 " "
- ✓ 8726 Centropogon congestus Gleason
- ✓ 8866 Centropogon grandis (L.f.) Presl
- ✓ 8872 Centropogon Caoutchouc (H.B.K.) Gleason
- ✓ 9232 Centropogon ellipticus Gleason
- ✓ 9233 Centropogon barbatellus Gleason
- ✓ 9333 Centropogon beslerioides (H.B.K.) A. DC.
- o 9375 Centropogon Lindenianus Wimmer
- o 9376 Centropogon beslerioides (H.B.K.) A. DC.
- ✓ 9405 Burmeistera carnosae Gleason
- ✓ 9561 Centropogon Caoutchouc (H.B.K.) Gleason
- ✓ 9623 Centropogon aurantiacus Gleason
- ✓ 9649 Centropogon cornutus (L.) Druce
- o 9759 Centropogon serratus Gleason

CENTROPOGON AND BURMEISTERA, CONTINUED

- ✓90169 Centropogon congestus Gleason
- ✓010170 Centropogon cornutus (L.) Druce
- ✓010171 " "
- ✓010172 " "
- ✓010187 " "
- ✓010225 " "
- ✓10279 Centropogon Lehmanni Zahlbr.
- ✓010284 Centropogon Planchonæ Zahlbr. probably
- ✓010321 " " "
- ✓10322 Centropogon caldasensis Gleason
- ✓10323 Burmeistera lacerata Karst.
- ✓010324 Centropogon variabilis Gleason
- ✓010325 " "
- ✓10421 Burmeistera lacerata Karst.
- ✓10468 Centropogon subcordatus Zahlbr.
- ✓10603 Centropogon decemlobus Gleason
- ✓10626 Centropogon cornutus (L.) Druce
- ✓10685 Burmeistera succulenta Karst.
- ✓10724 Centropogon cinereus Gleason
- ✓010734 Centropogon variabilis Gleason
- ✓010743 Centropogon cinereus Gleason
- ✓11114 Centropogon Planchonis Zahlbr. probably
- ✓11115 Centropogon speciosus Planch.
- ✓11122 Centropogon gravidus Gleason
- ✓011164 Burmeistera lacerata Karst.
- ✓11394 Burmeistera glauca (Wimmer) Gleason
- ✓011821 Centropogon speciosus Planch.
- ✓011941 Centropogon ellipticus Gleason
- ✓012119 Burmeistera Pennellii Gleason
- ✓012142 Burmeistera carnososa Gleason

13 / 17

104633

CORDIA OF THE COLOMBIAN EXPEDITION OF PENNELL & KILLIP,
DETERMINED BY E. P. KILLIP.

✓5207.	✓	Cordia	cylindrostachya (R. & P.) R. & S.
✓5267.	✓	"	ferruginea (Lam.) R. & S.
Not at G. J. — 5896.	"	"	cylindrostachya (R. & P.) R. & S.
7218.	"	"	" " "
✓7920.	✓	"	micayensis Killip. <i>Type</i>
✓8018.	✓	"	cylindrostachya (R. & P.) R. & S.
✓8024.	✓	"	colombiana Killip. <i>Type</i>
✓8332.	✓	"	corymbosa (L.) G. Don.
✓8441.	✓	"	microcephala Willd.
✓8548.	✓	"	ferruginea (Lam.) R. & S.
✓10112.	✓	"	cylindrostachya (R. & P.) R. & S.
10254.	"	"	ferruginea (Lam.) R. & S.
10255.	"	"	" " "
10256.	"	"	" " "
✓10307.	✓	"	" " "
✓10310.	✓	"	cylindrostachya (R. & P.) R. & S.
✓10645.	✓	"	lanceolata (Desv.) H. B. K.
✓10672.	✓	"	cylindrostachya (R. & P.) R. & S.
✓10673.	✓	"	" " "
✓10674.	✓	"	ferruginea (Lam.) R. & S.
✓10712.	✓	"	corymbosa (L.) G. Don.
✓10771.	✓	"	ferruginea (Lam.) R. & S.
✓10816.	✓	"	corymbosa (L.) G. Don.
✓10822.	✓	"	" " "
✓10881.	✓	"	microcephala Willd.
✓10893.	✓	"	ferruginea (Lam.) R. & S.
✓10911.	✓	"	cylindrostachya (R. & P.) R. & S.
✓10988.	✓	"	corymbosa (L.) G. Don.
✓11190.	✓	"	ferruginea (Lam.) R. & S.
✓12034.	✓	"	alba (Jacq.) R. & S.
✓12078.	✓	"	subtruncata Rusby.

PENNELL AND KILLIP'S COLOMBIAN CYPERACEAE

IDENTIFIED BY N. L. BRITTON

- ✓5033 *Diplacrum longifolium* (Griseb.) Clarke
- ✓5054 *Dichromena globosa* R & S
- ✓5288 *Cyperus*
- ✓5309 *Eleocharis retroflexa* (Poir.) Urban
- ✓5317 *Lipocarpa maculata* (Michx.) Torr.
- ✓5318 *Fuirena umbellata* Rottb.
- ✓5355 *Cyperus diffusus* Vahl. Not typical
- ✓5514 *Rynchospora polyphylla* Vahl
- ✓5515 *Rynchospora glauca* Vahl
- 5523 *Scleria hirtella* Sw.
- ✓5524 *Kyllinga odorata* Vahl
- ✓5526 *Dichromena ciliata* Vahl
- 5618 *Fimbristylis diphylla* (Retz) Vahl
- ✓5741 *Eleocharis geniculata* (L.) R. & S.
- 5828 *Cyperus hermaphroditus* (Jacq.) Standley
- ✓5867 *Kyllinga brevifolia* Rottb.
- ✓5922 *Cyperus Lagunetto* Steud.
- ✓5952 *Cyperus Haspan* L.
- ✓5953 *Cyperus tristachyus* Boeckl. ?
- ✓5954 *Fimbristylis complanata* (Retz) Link
- ✓5955 *Scleria hirtella* Sw.
- 5979 *Scleria bracteata* Cav.
- ✓5981 *Eleocharis retroflexa* (Poir.) Urban
- ✓6157 *Cyperus densus* Link
- ✓6166 *Cyperus hermaphroditus* (Jacq.) Standley
- 6225 *Cyperus cayennensis* (Lam.) Britton
- ✓6231 *Scirpus cubensis* Poepp. & Kunth
- ✓6254 *Stenophyllus junciformis* (HBK.) Britton
- ✓6266 *Rynchospora corymbosa* (L.) Britton
- ✓6271 *Eleocharis pachystyla* (C. Wright) Clarke
- 6282 *Scleria bracteata* Cav.
- ✓6360 *Stenophyllus asperulus* (Poir.)
- ✓6361 *Stenophyllus*
- ✓6434 *Cyperus hermaphroditus* (Jacq.) Standley
- ✓6557 *Scirpus inundatus* Poir.
- ✓6836 *Cyperus melanostachys* HBK.
- 6912 *Rynchospora Ruiziana* Boeckl. ?
- ✓7196 *Eleocharis maculosa* (Vahl) R. & S.
- ✓7856 *Dichromena globosa* R. & S.
- ✓8031 *Cyperus melanostachys* HBK.
- 8069 *Cyperus hermaphroditus* (Jacq.) Standley
- 8111 *Rynchospora glauca* Vahl
- ✓8116 *Rynchospora polyphylla* Vahl
- 8118 *Rynchospora aristata* Boeckl.
- ✓8121 *Dichromena ciliata* Vahl
- 8143 *Stenophyllus junciformis* (HBK.) Britton
- ✓8155 *Rynchospora glauca* Vahl
- ✓8166 *Eleocharis maculosa* (Vahl) R. & S.
- 8168 *Cyperus Haspan* L.
- ✓8169 *Rynchospora*
- 8170 *Eleocharis maculosa* (Vahl) R. & S.

- ✓8189 *Stenophyllus junciformis* (HBK.) Britton
- 8211 *Eleocharis maculosa* (Vahl) R. & S.
- 8221 *Rynchospora corymbosa* (L.) Britton ?
- 8229 *Scleria hirtella* Sw.
- 8231 *Eleocharis maculosa* (Vahl) R. & S.
- ✓8237 " "
- ✓8240 *Cyperus unioloides* R.Br.
- 8241 *Eleocharis mutata* (L.) R. & S.
- ✓8242 *Rynchospora corymbosa* (L.) Britton
- 8243 *Psilocarya robusta* (Kunth) Nees
- ✓8321 *Scleria bracteata* Cav.
- 8370 *Cyperus vegetus* Willd.
- ✓8378 *Cyperus comosus* (Willd.) Poir.
- ✓8476 *Dichromena ciliata* Vahl.
- ✓8582 *Eleocharis geniculata* (L.) R. & S.
- ✓8641 " "
- ✓8644 *Eleocharis sulcata* (Roth) Nees
- ✓8648 *Cyperus Lagunetto* Steud.
- 8649 *Cyperus Haspan* L.
- 8650 *Cyperus melanocarpa* HBK.
- ✓8759 *Rynchospora polyphylla* Vahl
- 9331 *Rynchospora locuples* Clarke ?
- 9448 *Uncinia hamata* (Sw.) Urban
- 10553 *Rynchospora Ruiziana* Boeckl.
- ✓9955 *Scirpus inundatus* Poir. ?
- ✓11042 *Rynchospora corymbosa* (L.) Britton
- ✓11044 *Scleria microcarpa* Nees
- ✓11093 *Cyperus Lagunetto* Steud.
- ✓11196 *Scleria*
- ✓11247 *Eleocharis mutata* (L.) R. & S.
- 11403 *Cyperus Luzulae* Rottb.
- ✓11508 *Cyperus Lagunetto* Steud.
- ✓11509 *Fimbristylis miliacea* (L.) Vahl
- ✓11516 *Dichromena ciliata* Vahl
- ✓11526 *Rynchospora setacea* (Berg) Boeckl.
- ✓11539 *Calyptrocarya glomerulata* (Brong.) Urban
- ✓11599 *Uncinia hamata* (Sw.) Urban
- ✓11632 *Rynchospora polyphylla* Vahl
- ✓11646 *Dichromena globosa* R. & S.
- ✓11667 *Scleria*
- 11683 *Eleocharis sulcata* (Roth) Nees
- ✓11690 *Fimbristylis spadicea* (L.) Vahl
- ✓11693 *Rynchospora cephalotes* (L.) Vahl
- ✓11744 *Eleocharis mutata* (L.) R. & S.
- ✓11753 *Rynchospora setacea* (Berg) Boeckl.
- 11789 *Calyptrocarya glomerulata* (Brong.) Urban
- 11885 *Cyperus Lagunetto* Steud.
- ✓12000 *Fimbristylis ferruginia* (L.) Vahl
- ✓12008 *Cyperus odoratus* L.
- ✓12015 *Fimbristylis spadicea* (L.) Vahl
- ✓12016 *Fimbristylis spathacea* Rottb.

About 20 sheets still unidentified, mainly *Rynchospora*.

G. H.

c = not at G.H.

CYPERACEAE OF 1922 COLOMBIAN TRIP

Determined by Dr. N. L. Britton

- ✓ Killip 5106 *Mapania cordobana* Britton, n.sp.
✓ Killip 5204 *Mapania killipiana* Britton, n.sp.
✓ Pennell 5403 *Rynchospora polyphylla* Vahl.
Pennell & Killip 6530, 9489 ✓ *Rynchospora macrochaeta* Steud.
Pennell & Killip 6560, 9956 ✓ *Rynchospora macrochaeta* Steud.
Killip 6718° *Rynchospora caucana* Britton, n.sp.
Pennell 7037° *Rynchospora macrochaeta* Steud.
Pennell 7452° *Rynchospora pennellii* Britton, n.sp.
Killip 7787° *Rynchospora panicifolia* Maury
Pennell, Killip & Hazen 8701 ✓ *Dichromena watsoni* Britton
Killip & Hazen 8840° *Cyperus cimicinus* Presl.
Killip & Hazen 8841° *Cyperus hermaphroditus* (Jacq.) Standl.
✓ Pennell 10552° *Rynchospora pennellii* Britton, n.sp.
Killip 11196 ✓ *Scleria chimborazensis* Clarke
Killip 11517° *Rynchospora daguensis* Britton, n.sp.
Killip 11667° *Scleria killipiana* Britton, n.sp.
Pennell & Killip 11860° *Psilocarya robusta* (Kunth) Nees [too young].
Killip & Joseph 11962 ✓ *Rynchospora macrochaeta* Steud. (?)

GESNERIACEAE OF PENNELL, KILLIP & HAZEN'S COLOMBIAN COLLECTIONS

IDENTIFIED BY DR. KARL FRITSCH, GRAZ, AUSTRIA, JULY, 1928

✓ 5242 - *Episcia*

✓ 5349 *Kohleria spicata* (H.B.K.) Oersted

✓ 7884 *Alloplectus*

In Hb. under
Isolaena

8079 *Kohleria spicata* (H.B.K.) Oersted

✓ 8540 " "

o 8836 " *ocellata* (Hook.) Fritsch

✓ 8961 *Klugia violacea* Fritsch, sp. nov.

✓ 9066 *Besleria*

✓ 9642 *Kohleria spicata* (H.B.K.) Oersted

✓ 11119 *Besleria*

✓ 11434 *Diastema pictum* Regel

Klugia violacea Fritsch is published in Sitzungsberichten der Akademie
der Wissenschaften in Wien 1926.

LOBELIACEAE OF THE PENNELL-KILLIP EXPEDITION

identified by H. A. Gleason

- ✓ 5476 *Lobelia Cliffortiana* L.
- ✓ 5786 *Siphocampylus pyriformis* Zahlbr.
- ✓ 5866 " *obovoideus* Gleason
- ✓ 6358 *Lobelia Cliffortiana* L.
- ✓ 6451 *Siphocampylus niveus* (Willd.) Vatke
- ✓ 6500 " *umbellatus* (HBK.) G. Don
- ✓ 6512 " *popayanensis* Benth.
- ✓ 6523 " *Benthamianus* Walp.
- ✓ 6539 " *Bonplandianus* Zahlbr.
- ✓ 6590 " *megalanthus* Zahlbr.
- ✓ 6625 " " "
- ✓ 6672 " *popayanensis* Benth.
- ✓ 6750 " " "
- ✓ 6768 " *megalanthus* Zahlbr.
- ✓ 6887 *Lobelia Cliffortiana* L.
- ✓ 6960 *Siphocampylus Benthamianus* Walp.
- ✓ 7067 *Lobelia* sp.
- ✓ 7221 *Siphocampylus pyriformis* Zahlbr.
- ✓ 7509 " *Pennellii* Gleason
- ✓ 7540 " *asper* Benth.
- ✓ 7979 " *umbellatus* (HBK.) G. Don
- ✓ 8033 " *obovoideus* Gleason
- ✓ 9136 " sp.
- ✓ 9351 *Centropogon leucophyllus* Gleason
- ✓ 9359 *Siphocampylus venosus* Gleason
- ✓ 9427 " " "
- ✓ 9621 " *dentatus* Gleason
- ✓ 9663 " " "
- ✓ 9717 " *Benthamianus* Walp.
- ✓ 9738 " *dentatus* Gleason
- ✓ 9776 *Centropogon* sp.
- ✓ 10091 *Siphocampylus Benthamianus* Wlp.
- ✓ 10233 *Centropogon decemlobus* Gleason
- ✓ 10348 " *carpinoides* Gleason
- ✓ 10419 " *leucophyllus* Gleason
- ✓ 10490 " " "
- ✓ 10962 *Siphocampylus* sp.
- ✓ 11656 *Lobelia Cliffortiana* L.
- ✓ 11719 " " "
- ✓ 11876 " " "
- ✓ 11944 *Siphocampylus Columnae* (L.f.) G. Don
- ✓ 12081 " *Hazenii* Gleason

Mr. Johnston brought this
list back from Washington Jan. 1925.

G.

Current South American Collections

Malvaceae

(Det. E. Ulbrich)

Pennell - Colombia

467. *Sida pyramidata* Cav.

Pennell - Killip - Colombia

✓5351. *Sida rhombifolia* L.

✓5632. *Sida supina* L' Her.

✓8625. *Sida rhombifolia surinamensis* (Miq.) K. Sch.

✓10636. *Pavonia paniculata corymbosa* (Sw.) Gurcke.

✓10871. *Pavonia geminiflora* Moric.

✓11073. *Sida supina* L' Her.

✓12027. *Abutilon incanum* Sweet?

✓12028. *Sida decumbens* St. Hil.

✓12055. *Sida supina* L' Her.

MENTHACEAE OF COLOMBIA COLLECTED BY PENNELL, KILLIP & HAZEN, 1922

Identified by Carl Epling, 1925

- ✓ 5630 - *Leonotis nepetaefolia* R.Br.
- ✓ 5647 *Ocimum micranthum* Willd. ✓ 10001 - *Satureia nubigena glabrescens* (Benth.)
- ✓ 5667 *Salvia scutellarioides* Kunth ✓ 10181 *Scutellaria incarnata* Ventenat
- 6216 *Ocimum micranthum* Willd. ○ 10260 *Leonotis nepetaefolia* R.Br.
- ✓ 6383 *Sphacele parviflora* Benth. ○ 10277 *Scutellaria Ventenatii* Hooker
- 6387 " " ○ 10282 *Salvia scutellarioides* Kunth
- 6398 " " ✓ 10592 *Satureia brownei* subsp. *eubrownei*, nom. nov.
- ✓ 6430 *Satureia brownei* subsp. *eubrownei*, nom. nov.
- ✓ 6433 *Salvia palaefolia* Kunth ○ 10766 *Salvia scutellarioides* Kunth
- ✓ 6752 *Satureia nubigena* (Kunth) Briq. ✓ 10777 *Satureia brownei* subsp. *eubrownei*, nom. nov.
- ✓ 6763 *Sphacele conferta* Benth. ✓ 10810 *Ocimum micranthum* Willd.
- ✓ 6930 *Satureia nubigena glabrescens* (Benth.)
- ✓ 7157 " *brownei* subsp. *eubrownei*, nom. nov.
- ✓ 7278 *Sphacele parviflora* Benth. ✓ 10829 *Ocimum micranthum* Willd.
- ✓ 7282 *Scutellaria trianaei* Pl. & Linden
- ✓ 7654 *Satureia brownei* subsp. *eubrownei*, nom. nov.
- 7663 *Salvia scutellarioides* Kunth ✓ 10941 *Satureia brownei* subsp. *eubrownei*, nom. nov.
- ✓ 8048 *Scutellaria trianaei* Pl. & Linden
- ✓ 8285 " *incarnata* Ventenat ✓ 11211 *Salvia scutellarioides* Kunth
- ✓ 8747 *Sphacele parviflora* Benth. ○ 11888 " "
- ✓ 8892 *Prunella vulgaris* L. ○ 12041 *Ocimum basilicum* L.
- ✓ 9040 *Satureia brownei* subsp. *eubrownei*, nom. nov.
- ✓ 9212 *Salvia palaefolia* Kunth ✓ 12065 *Ocimum basilicum* L.
- ✓ 9243 *Satureia brownei* subsp. *eubrownei*, nom. nov.

G

Pennell-Killip, Colombia

MIMOSACEAE & CAESALPINACEAE
(Det. N. L. Britton)

- 5217. *Mora megistosperma* (Pittier) B. & R.
- 5369. *Ditremexa leptocarpa* (Benth.) B. & R.
- 5373. *Emelista tora* (L.) B. & R.
- 5421. *Adipera indecora* (H. B. K.) B. & R.
- 5463. *Mimosa pudica* L.
- 5477. *Chamaecrista flavicoma* (H. B. K.) Greene
- 5613. *Mimosa pudica* L.
- 5614. *Chamaecrista petellaria* (DC.) Greene
- 5633. *Pithecolobium dulce* (Roxb.) Benth.
- 5638. *Pseudocassia spectabilis* (DC.) B. & R.
- 5642. *Chamaecrista petellaria* (DC.) Greene
- 5644. *Ditremexa occidentalis* (L.) B. & R.
- 5661. *Chamaecrista serpens* (L.) Greene
- 5960. " *simplex* Standl.
- 5961. " " "
- 5978. *Anneslia lehmannii* (Harms) Britton
- 6040. *Chamaecrista petellaria* (DC.) Greene
- 6056. *Mimosa pudica* L.
- 6085. *Mimosa floribunda* Willd.
- 6217. *Mimosa pigra* L.
- 6223. *Acuan virgatum* (L.) Medic
- 6242. *Pithecolobium lanceolatum* (H. & B.) Benth.
- 6284. *Mimosa floribunda* Willd.
- 6389. " " "
- 6810. *Mimosopsis quitensis* (Benth.) B. & R.
- 6835. *Mimosa floribunda* Willd.
- 6895. *Inga punctata* Willd.
- 7137. *Adipera tomentosa* (L. f.) B. & R.
- 8019. *Mimosa floribunda* Willd.
- 8123. *Inga oerstediana* Benth.
- 8126. *Mimosa floribunda* Willd.
- 8333. *Pithecolobium dulce* (Roxb.) Benth.
- 8373. *Ditremexa occidentalis* (L.) B. & R.
- 8379. *Mimosa pigra* L.
- 8380. *Emelista tora* (L.) B. & R.
- 8381. *Chamaesenna reticulata* (Willd.) Pittier
- 8452. *Inga ornata* Kunth
- 8491. *Mimosa pudica* L.
- 8522. *Adipera indecora* (H. B. K.) B. & R.
- 8607. *Adipera indecora* (H. B. K.) B. & R.
- 8613. *Chamaefistula macrophylla* (Kunth) G. Don
- 8950. *Inga punctata* Willd.
- 9043. *Punjaba killipii* B. & R. (type)

- ✓ 9631. *Peirania mutisiana* (Kth.) Pittier
- o 10839. *Chamaecrista petellaria* (DC.) Greene
- o 10690. " *flavicomis* (H. B. K.) Greene
- o 10698. " *petellaria* (DC.) Greene
- o 11043. *Inga ornata* Kunth
- o 11061. *Chamaesenna reticulata* (Willd.) Pittier
- o 11079. *Pseudocassia spectabilis* (DC.) B. & R.
- ✓ 11091. *Pithecolobium dulce* (Roxb.) Benth.
- ✓ 11255. *Inga marginata* Willd.
- ✓ 11260. *Anneslia lehmannii* (Harms.) Britton
- o 11265. *Inga ornata* Kunth
- ✓ 11535. *Chamaecrista petellaria* (DC.) Greene
- o 11761. *Mora megistosperma* (Pittier) B. & R.
- ✓ 11771. *Senegalia cordobana* Britton (type)
- o 12071. *Chamaecrista pilosa* (L.) Greene
- o 12072. " *serpens* (L.) Greene

Monnina

(Det. A. C. Smith, unless otherwise noted):

Pennell - Killip - Colombia

- Q-5888. *M. subspeciosa* Chod. (type)
- 6418. *M. trianae* Chod. (Det. Killip) *cheilanthos?*
- ✓6868. *M. trianae* Chod. (Det. Chodat)
- Q-7031. *M. crassifolia* H. B. K.
- ✓7045. *M. revoluta* H. B. K.
- Q-8723. *M. trianae* Chod. (Det. Chodat)
- o-10113. *M. trianae* Chod. (Det. Killip)
- ✓10386. *M. multibracteata* Chod. (Det. Chodat)
- o 11156. *M. solandraefolia* Tr. & Pl.

Colombian Peperomias.

Philadelphia Academy, July 1924.

(G) Seen only in the Gray Herbarium.

Hazen •11828 *P. salentoi perfulva* n. var.
•11837 *P. tenuimarginata villosa* n. var.

Killip •5346 *P. cisnerosana* n. sp.
•5392 *P. cicatricosa* n. sp.
(mixed with *P. zarzalana*).
•5448 *P. guayabalana* n. sp.
•5548 *P. salentoi perfulva* n. var.
•5554 *P. pseudo-stipitica* n. sp.
•5559 *P. acutata interstitiorum* var.
•5563 *P. tenuimarginata* n. sp.
•5839 *P. discistila* n. sp.
•5918 *P. discistila* n. sp.
•5919 *P. trichophora* n. sp.
called 5925? •5928 *P. puberulicaulis* n. sp.
•6780 *P. puraceana* n. sp.
•6814 *P. oxalidopsis* n. sp.
•6825 *P. (reflexa) americana* (Miq.)
•6846 *P. galioides* HBK.
•7675 *P. Ellsworthi* n. sp.
•7763-4 *P. clematitidifolia* n. sp.
•8005 *P. muscipara* n. sp.
•8360 *P. guayabalana* n. sp.
•9747 *P. leucostachya tolimensis* n. var. (G).
•9764 *P. erythematostela* n. sp. (G)
•9784 *P. cucarronerana* n. sp. (G).
•9787 *P. Aspergillus* n. sp.
•9813 *P. pseudo-malmeana* n. sp.
•11172 *P. perplexans* n. sp.
•11203 *P. alata* R. & P.
•11225 *P. calimana* n. sp.
•11296 *P. granulifera* n. sp.
•11401 *P. pseudo-stipitica* n. sp.
•11411 *P. discistila* n. sp. (G).
•11441 *P. pellucida* HBK.
•11447 *P. melanostigma* Miq.??
•11482 *P. daguana* n. sp. (G).
•11483 *P. geminispica* n. sp. (G).
A most remarkable plant.
•11487 *P. acuminata* R. & P.
•11600 *P. clipeata* n. sp.
•11620 *P. reticulosa* n. sp.
•11671 *P. pavasiana* n. sp. (G)
•11718 *P. buenaventurana* n. sp. (G)

n. sp. or DC.? See
cardinalis

o = not at G. H.

Killip & Hazen 5879 *P. viridiflora* n.sp.

✓ 8383, 8421 *P. nummularifolia* HBK.

• 8772 *P. salentoi* n.sp.

• 8812 *P. pendentibacca* n.sp.

• 8984 *P. salentoi* n.sp.

8985. *P. salentoi* n.sp.

• 8998 *P. micranthera* n.sp. (G).

• 9017 *P. santa-ritana* n.sp. (G).

→ 9018 *P. salentoi perfulva* n.var. (G).

• 9559 *P. albidiflora* C.DC. (G).

• 9582 *P. divaricato-paniculata* n.sp.

• 9591 *P. carnosula* n.sp.

• 10131 *P. furcaevenosa* n.sp.

• 10140, 10234 *P. sympodialis* n.sp.

• 11051 *P. nummularifolia* HBK.

• 11129 *P. viridiflora* n.sp.

Pennell

2045 *P. Aspergillus* n.sp. (G).

2277 *P. bogotana* n.sp. (G).

2625, 2630 *P. zipaquirana* n.sp. (G).

→ 2631 *P. galioides* HBK. (G).

• 5904 *P. clipeata* n.sp.

• 6943 *P. epilobioides* n.sp.

• 6983 *P. paletarana* n.sp.

• 6985 *P. divaricata emacrescens* n.var.

• 7116, 7598 *P. divaricata furcans* n.var.

• 7599 *P. san-antoniana* n.sp.

• 7606 *P. cordata* n.sp.

• 7623 *P. (reflexa) americana* (Miq.).

• 8813 *P. Pennelli* n.sp.

• 8910 *P. salentoi* n.sp.

• 8935 *P. porriginifera* n.sp.

• 9293 *P. pseudo-alata* n.sp.

• 9294 *P. Pennelli* n.sp.

• 9295-6 *P. infralutea* n.sp.

• 9297-8 *P. divaricata* n.sp.

• 9318 *P. pseudo-alata* n.sp.

• 10605 *P. leucostachya* C.DC. (G).

Not at G. H.

Pennell & Hazen • 10082 *P. quindioi* n.sp. (G).

• 10083 *P. pseudo-alternifolia* n.sp.

• 10089 *P. epilobioides* n.sp. (es)

Pennell & Killip ✓ 5758 *P. nigro-ungulata* n.sp.

• 5762 *P. (reflexa) americana* (Miq.)

• 5763 *P. puberulicaulis* n.sp.

• 5780 *P. perplexa* n.sp.

• 5826 *P. pseudo-stipiticarpa* n.sp.

• 5862 *P. stipiticarpa* n.sp.

• 6291 *P. alata* R. & P.

• 6457 *P. galioides* HBK.

• 6618 *P. epilobioides* n.sp.

• 6637 *P. paletarana* n.sp.

• 7242 *P. moralesana* n.sp.

• 7243 *P. opacifolia* n.sp.

Omission.

Pennell

• 6984 *P. pseudo-malmeana* n.sp.

0 = not at Gray Herb.

Pennell & Killip • 7252 *P. moralesana* n.sp.

• 7326 *P. acutata* n.sp.

• 7353 *P. divaricata furcans* n.var.

• 7365 *P. villosula* n.sp.

• 8057 *P. moralesana* n.sp.

• 8187 *P. mollis* HBK.

• 8201 *P. opacifolia* n.sp.

• 8276 *P. mollis* HBK.

• 8291 *P. moralesana* n.sp.

• 11862 *P. galioides longifolia* C.DC.

• 8421 *P. nummularifolia* H.B.K.

Pennell, Killip & Hazen • 8429 *P. rotundifolia* HBK. (G).

• 8440 *P. zarzalana* n.sp.

• 8619 *P. talinifolia* H.B.K.

Corrected by F. W. P.
from specimens returned to Phila.

1268 ab p 21
arepif - 5071
Pennell et al. - Colombia. 1922.
" 8821

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Pipereae - Pennell, Killip, Hazen
(1922 collection)

Pothomorphe

- ✓ [5443. *P. peltata* (L.) mig.]
 ✓ 5562. *P. umbellata* (L.) mig.]
 ✓ [8081. " *peltata* (L.) "]
 ✓ [8566. " *peltata* (L.) "] Piper
 o 4618. *P. tuberculatum* Jacq.
 ✓ 5060. *cinereum* C. DC.
 ✓ 5061. *rupisessum* n. sp.
 ✓ 5062. *flavamentum* n. sp.
 ✓ 5063. *granulosum* R. + P.
 ✓ 5231. *novo-granatense* C. DC.]
 ✓ 5338. " " " "]
 ✓ 5362. *cinereum Killipianum* ined.
 ✓ 5397. *Ellsworthi* n. sp.
 ✓ 5404. *mustelinum* n. sp.
 ✓ 5434. *Holtonii* [*ciliiferum* n. var.]
 ✓ 5552. *hirsutifolium* n. sp.
 ✓ 5596. *atrobaccum* n. sp.
 5704. *exserens* C. DC. sens. lat.
 5863. *porphyrostachyum* n. sp.
 ✓ 5868. *praemorsauriculum* n. sp.
 ✓ 6183. *tuberculatum* Jacq.
 6585. *Miersinum* C. DC.
 6811. *doconucense* n. sp.
 6824. *lacunosum* H. B. K.
 ✓ 7135. *calagualanum* n. sp.
 ✓ 7188. *incitum* n. sp.
 ✓ 7225. *Aucioi* n. sp.
 o ✓ 7226. *aquae-foedae* n. sp.

- ✓7236. brachystylum n. sp. { 7364. P. nitidissimum, n. sp.
 ✓8037. san-antonianum n. sp. { 67688. lentifolium, n. sp.
 607775. " " "
 ✓8061. ortegianum n. sp.
 ✓8071. ^aramplanum n. sp.
 8232. elatum n. sp.
 ✓8352. zarzalanum n. sp.
 8575. caucanum n. sp.
 859⁴7. armenianum n. sp.
 ✓8627, tabejanum n. sp.
 8767. lanceaefolium H. B. K.
 ✓8781. aequalifolium n. sp.
 8801. Hazeni n. sp.
 8806. boquianum n. sp.
 ✓8925. cyprium n. sp.
 ✓8940. varicosum n. sp.
 ✓8971. prasiostachyum n. sp.
 ✓9⁹47. canaanense n. sp.
 9048. ^{C. DC.}exserens^a sens. lat.
 9056. Pennelli n. sp.
 ✓9075. canaanense. type no.
 9193. { ^{uc d}verrucosinophum n. sp.
 (also a bit of 9205)
 ✓9205. ⁿpinaresaxum n. sp.
 ✓9724. ibaguense n. sp.
 11014. Holtonii C. DC.
 ✓11200. curtipes n. sp.
 ✓11219. setosum n. sp.
 ✓11235. nyssaefolium n. sp.
 ✓11240. calimanum n. sp.
 11241. "

~~11412. exserens sens. lat.~~

✓11486. flavamentum Trel.

in Piper 11490. smilacifolium H.B.K.

✓11495. rupisessum Trel.

✓11510. cinereum Killipianum Trel.

✓11529. porrectifolium

✓11531. decurtispicum

in Piper 11598. atrobaccum Trel.

✓11615. cumbreanum n. sp.

✓11617. calocoma C. D. C.

~~11618. asperiusculum~~

✓11700. novo-granatense C. D. C.

✓11809. lucifugum n. sp.

✓11812. ^Smilacifolium

Trianaeopiper

o✓7762. T. Killipi n. sp.

Peperomia

Already reported to Mr. Pennell.

[I authorities added by F. W. Pennell]

names added to our list
and
labels written

PLANTAGINACEAE OF PENNELL, KILLIP & HAZEN'S

COLOMBIAN COLLECTION, 1922.

* - Determined by Dr. R. Pilger, Berlin Botanical Garden,
Germany (Other specimens named by F. W. Pennell from
comparison with these.)

✓*	6703	-	Plantago		aff. hirtella Kunth
✓	9869		"	rigida	Kunth
✓*	10002		"	"	Kunth
✓*	10579		"	"	Kunth
✓	10733		"	hirtella	Kunth, f. minor
✓	10763		"	"	Kunth
✓*	10906		"	"	Kunth, f. minor

By S. F. Blake (Polgala)

- | | |
|--------------------------------------|---------------------------------------|
| 5066. <i>Polygala paniculata</i> L. | 6356. <i>P. asperuloides</i> H. B. K. |
| 5067. <i>P. asperuloides</i> H.B.K. | 6357. <i>P. hygrophila</i> H.B.K. |
| 5168. <i>P. asperuloides</i> H.B.K.? | 7256. <i>P. hygrophila</i> H.B.K. |
| 5170. <i>P. paniculata</i> L. | 7312. <i>P. paniculata</i> L. |
| 5500. <i>P. longicaulis</i> H.B.K. | 8171. <i>P. longicaulis</i> H.B.K. |
| 5501. <i>P. hygrophila</i> H.B.K. | 8776. <i>P. asperuloides</i> H.B.K. |
| 5852. <i>P. leptocaulis</i> T. & G. | 8943. <i>P. paniculata</i> L. |
| 5963. <i>P. leptocaulis</i> T. & G. | 10290. <i>P. asperuloides</i> H.B.K. |
| 6025. <i>P. paniculata</i> L. | 10608. <i>P. paniculata</i> L. |
| 6062. <i>P. asperuloides</i> H.B.K. | 10707. <i>P. asperuloides</i> H.B.K. |
| 6256. <i>P. longicaulis</i> H.B.K. | 10879. <i>P. asperuloides</i> H.B.K. |
| 6261. <i>P. asperuloides</i> H.B.K. | 10900. <i>P. paniculata</i> H.B.K. L. |
| 6293. <i>P. hygrophila</i> H.B.K. | 10901. <i>P. asperuloides</i> H.B.K. |
| 6313. <i>P. longicaulis</i> H.B.K. | 11087. <i>P. asperuloides</i> H.B.K. |
| 6365. <i>P. paniculata</i> L. | 11279. <i>P. asperuloides</i> H.B.K. |
| | 11861. <i>P. hygrophila</i> H.B.K. |

Tentative determinations of Palmae.

By O. F. Cook

- | | |
|--------------------------|---------------------------|
| 5261. <i>Geonoma</i> | 9057. <i>Geonoma</i> |
| 7644. <i>Chamaedorea</i> | 9067. <i>Chamaedorea</i> |
| 7734. <i>Chamaedorea</i> | 9314. <i>Geonoma</i> |
| 8266. <i>Ceroxylon</i> | 9525. <i>Ceroxylon</i> |
| 8576. <i>Tilimia</i> | 11039. <i>Martinezia</i> |
| 8787. <i>Geonoma</i> | 11136. <i>Chamaedorea</i> |
| 8788. <i>Chamaedorea</i> | 11137. <i>Geonoma</i> |
| 9049. <i>Ceroxylon</i> | 11238. <i>Chamaedorea</i> |

RUBIACEAE COLLECTED IN COLOMBIA BY PENNELL & KILLIP

Determined by Paul C. Standley

- 5014. *Borreria laevis* (Lam.) Griseb.
- 5023. *Relbunium hypocarpium* (L.) Hemsl.
- 5024. *Borreria oeymoides* (Burm.) DC.
- 5026. *Psychotria rufiramea* Standl. n. sp.
- 5080. *Sabicea hirsuta* H.B.K.
- 5133. *Evea crassifolia* Standl. n. sp.
- 5134. *Psychotria longissima* Standl. n. sp.
- 5135. *Psychotria daguensis* Standl. n. sp.
- 5136. *Evea tomentosa* (Aubl.) Standl.
- Not at G.H. 5138. *Evea violacea* (Aubl.)
- 5139. *Faramea occidentalis* (L.) Rich.
- 5140. *Psychotria cinota* Standl. n. sp.
- 5141. *Evea violacea* (Aubl.)
- 5146. *Urceolaria exotica* Gmel.
- 5180. *Manettia coccocypseloides* Wernh.
- 5181. *Tontanea canescens* (Willd.) Standl.
- 5262. *Evea tomentosa* (Aubl.) Standl.
- 5264. *Psychotria anomothyrsa* Schum. & Sm.
- 5265. *Evea violacea* (Aubl.)
- 5305. *Tontanea hispidula* Standl.
- 5306. *Oldenlandia herbacea* (L.) DC.
- 5573. *Psychotria hazeni* Standl. n. sp.
- 5576. *Psychotria acuminata* Benth.
- 5582. *Psychotria rufiramea* Standl. n. sp.
- 5583. *Psychotria* sp.
- 5591. *Psychotria lateriflora* Standl. n. sp.
- 5700. *Faramea oblongifolia* Standl. n. sp.
- 5710. *Palicourea querceticola* Schum. & Krause
- 5715. *Faramea oblongifolia* Standl. n. sp.
- 5790. *Psychotria aschersoniana* Schum. & Krause
- 5889. *Psychotria anomothyrsa* Schum. & Sm.
- 5987. *Malanea colombiana* Standl. n. sp.
- 6089. *Relbunium hypocarpium* (L.) Hemsl.
- 6096. *Tontanea canescens* (Willd.) Standl.
- 6139. *Palicourea cyanantha* Standl. n. sp.
- 6140. *Palicourea popayanensis* Benth.
- 6161. *Psychotria micrantha* H. B. K.
- 6258. *Declieuxia chioceoides* H. B. K.
- 6294. *Ladenbergia magnifolia* (R. & P.) Klotzsch
- 6322. *Palicourea pyramidalis* Standl. n. sp.
- 6335. *Palicourea popayanensis* Benth.
- 6345. *Palicourea macrocalyx* Standl. n. sp.
- 6367. *Borreria ferruginea* DC.
- 6368. *Psychotria spraguei* Wernh.
- 6380. *Cinchona*
- 6522. *Relbunium hypocarpium* (L.) Hemsl.
- 6606. *Palicourea stipularis* Benth.
- 6692. *Nertera depressa* Banks

RUBIACEAE - 2

- Not at G.H. -6753. *Relbunium hirsutum* (R. & P.) Schum.
 -6876. *Palicourea popayanensis* Benth.
 -6886. *Relbunium ciliatum* (R. & P.) Hemsl.
 -6894. *Palicourea heterochroma* Schum. & Krause
 -6931. *Arcytophyllum muticum* (Wedd.)
 -6959. *Psychotria Hartwegiana* Standl.
 " " 7069. *Relbunium hirsutum* (R. & P.) Schum.
 -7082. *Palicourea stipularis* Benth.
 " " 7208. *Borreria ocymoides* (Burm.) DC.
 -7209. *Tontanea hirsuta* (Bartl.) Standl.
 " " 7250. *Palicourea heterochroma* Schum. & Krause
 7289. *Nertera depressa* Banks
 " " 7345. *Palicourea calycina* Benth.?
 " " 7352. *Palicourea calycina* Benth.?
 -7393. *Manettia* sp.
 -7395. *Nertera depressa* Banks
 -7417. *Relbunium hypocarpium* (L.) Hemsl.
 -7456. *Nertera depressa* Banks.
 -7462. *Palicourea bogotensis* Standl.
 -7463. *Palicourea santae-anae* Standl. n. sp.
 -7476. *Palicourea Pennellii* Standl. n. sp.
 -7533. ~~Manettia~~ *Manettia corticeifer* Wernh.
 -7616². 76176. *Psychotria Aschersoniana* Schum. & Krause
 " " 7631. *Palicourea calycina* Benth.?
 -7694. *Palicourea killipii* Standl. n. sp.
 -7696. *Duggena rudis* Standl.
 -7699. *Guettarda micayensis* Standl. n. sp.
 -7748. *Psychotria reflexiramea* Standl. n. sp.
 -7751. *Psychotria anomothyrsa* Schum. & Sm.
 " " 7754. *Hoffmannia killipii* Standl. n. sp.
 " " 7760. *Psychotria micayensis* Standl. n. sp.
 -7782. *Evea axillaris* (Sw.) Standl.
 " " 7821. *Sabicea colombiana* Wernh.
 -7823. *Duggena tomentosa* (H. & B.) Standl.
 " " 7825. *Manettia coccocypseloides* Wernh.
 " " 7892. *Psychotria killipii* Standl. n. sp.
 -7933. *Palicourea killipii* Standl. n. sp.
 -7934. *Raritebe viburnoides* Standl. n. sp.
 -7943. *Psychotria gallerana* Standl. n. sp.
 " " 7945. *Palicourea killipii* Standl. n. sp.
 " " 7957. *Palicourea caucana* Standl. n. sp.
 -7959. *Duggena cornifolia* (H. B. K.)
 " " 7971. *Urceolaria exotica* Gmel.
 -7991. *Galium obovatum* H. B. K.
 " " 8064. *Rondeletia glabrescens* Standl. n. sp.
 -8088. *Cinchona* sp.
 -8108. *Borreria ferruginea* DC.
 " " 8177. *Declieuxia chioococcoides* H. B. K.
 " " 8192. *Psychotria carthaginensis* Jacq.
 " " 8290. *Tontanea canescens* (Willd.) Standl.
 " " 8292. *Psychotria spraguei* Wernh.
 " " 8298. *Borreria ocymoides* (Burm.) DC.
 " " 8319. *Ladenbergia magnifolia* (R. & P.) Klotzsch

RUBIACEAE - 3

Not at G.H.

- 8353. *Hamelia erecta* Jacq.
- 8362. *Psychotria glomerata* H.B.K.
- 8445. *Duggena cornifolia* (H.B.K.)
- 8524. *Psychotria micrantha* H.B.K.
- 8534. *Hamelia erecta* Jacq.
- 8580. *Psychotria micrantha* H. B.K.
- 8592. *Borreria laevis* (Lam.) Griseb.
- 8623. *Manettia coccocypseloides* Wernh.
- 8624. *Relbunium hypocarpium* (L.) Hemsl.
- 8661. *Psychotria brachiata* Sw.
- 8725. *Palicourea popayanensis* Benth.
- 8793. *Psychotria salentana* Standl. n. sp.
- 8804. *Palicourea acetosoides* Wernh. ?
- 8807. *Psychotria anomothyrsa* Schum. & Sm.
- 8863. *Relbunium hypocarpium* (L.) Hemsl.
- 8868. *Palicourea macrocalyx* Standl. n. sp.
- 8873. *Palicourea stenothyrsa* Standl. n. sp.
- 8874. *Psychotria anomothyrsa* Schum. & Sm.
- 8902. *Duggena cornifolia* (H.B.K.)
- 8919. *Psychotria rufiramea* Standl. n. sp.
- 8926. *Duggena cornifolia* (H.B.K.)
- 8941. *Palicourea myriantha* Standl. n. sp.
- 8954. *Duggena tomentosa* (H. & B.) Standl.
- 8986. *Hoffmannia killipii* Standl. n. sp.
- 8989. *Palicourea dorrantha* Wernh.
- 9002. *Psychotria Hazeni* Standl. n. sp.
- 9014. *Psychotria salentana* Standl. n. sp.
- 9028. *Palicourea laxa* (R. & P.) R. & S.
- 9107. *Nertera depressa* Banks
- 9144. *Palicourea caldasana* Standl. n. sp.
- 9186. *Palicourea querceticola* Schum. & Krause
- 9191. *Palicourea caldasana* Standl. n. sp.
- 9321. *Psychotria anomothyrsa* Schum. & Sm.
- 9390. *Psychotria* "
- 9410. *Nertera depressa* Banks
- 9472. *Manettia* sp.
- 9481. *Palicourea quindensis* Wernh.
- 9579. *Palicourea* "
- 9604. *Manettia Holtonii* Wernh.
- 9735. *Condaminea corymbosa* (R. & P.) DC.
- 9810. *Palicourea caldasana* Standl. n. sp.
- 10003. *Arcytophyllum aristatum* Standl. n. sp.
- 10004. *Relbunium hypocarpium* (L.) Hemsl.
- 10005. *Nertera depressa* Banks
- 10051. *Galium canescens* H. B. K.
- 10152. *Coffea arabica* L.
- 10157. *Palicourea laxa* (R. & P.) R. & S.
- 10189. *Duggena cornifolia* (H. B. K.)
- 10311. " " "
- 10415. *Manettia corticifer* Wernh.
- 10416. *Nertera depressa* Banks
- 10417. *Relbunium hypocarpium* (L.) Hemsl.
- 10464. *Palicourea nubigena* Standl. n. sp.

Rubiaceae
~~REBUNION~~ - 4

- Not at S.H. 10465. *Palicourea macrocalyx* Standl. n. sp.
 " 10466. *Psychotria aschersonianoides* Wernh.
 " 10488. *Arcytophyllum latifolium* Standl.
 " 10489. *Nertera depressa* Banks.
 " 10510. *Palicourea tatamana* Standl. n. sp.
 " 10511. " " " "
 " 10512. *Manettia corticifer* Wernh.
 " 10581. *Nertera depressa* Banks
 " 10627. *Rondeletia euryphylla* Standl. n. sp.
 " 10892. *Duggena cornifolia* (H. B. K.)
 " 10915. *Duggena asperula* (Wernh.) Standl.
 -10938. *Duggena cornifolia* (H. B. K.)
 -11028. " " "
 -11124. *Palicourea longiflora* Standl. n. sp.
 -11162. *Psychotria acuminata* Benth.
 " 11199. *Condaminea corymbosa* (R. & P.) DC.
 -11344. *Psychotria acuminata* Benth.
 " 11369. *Schradara exotica* Gmel.
 -11419. *Psychotria aschersoniana* Schum. & Krause
 -11465. *Psychotria anomothyrsa* Schum. & Sm.
 " 11466. *Psychotria emetica* Willd.
 -11530. *Psychotria santae-rosae* Standl. n. sp.
 -11538. *Faramea insignis* Standl. n. sp.
 -11556. *Duggena rudis* Standl.
 -11562. *Manettia* sp.
 -11661. *Palicourea popayanensis* Benth.
 -11684. *Sabicea adpressa* Wernh.
 -11696. *Diodia hyssopifolia* (Willd.) C. & S.
 -11701. *Malanea colombiana* Standl.
 " 11707. *Rustia occidentalis* (Benth.) Hemsl.
 -11709. *Chiococca alba* (L.) Hitchc.
 " 11714. *Psychotria longissima* Standl. n. sp.
 " 11749. *Evea violacea* (Aubl.)
 -11759. *Psychotria pendula* (Jacq.) Urb.
 -11764. *Malanea colombiana* Standl. n. sp.
 -11765. *Faramea occidentalis* (L.) Rich.
 -11785. *Evea cordobensis* Standl. n. sp.
 " 11792. *Faramea insignis* Standl. n. sp.
 " 11940. *Arcytophyllum nitidum* (H.B.K.)
 " 11958. *Arcytophyllum muticum* (Wedd.)
 -12006. *Oldenlandia corymbosa* L.
 " 12123. *Rebunium hypocarpium* (L.) Hemsl.

Corrected determinations have not been
put on sheets already in Herbarium. R

COLOMBIAN RUBIACEAE COLLECTED BY PENNELL & KILLIP, 1922.

Revised and additional determinations by Paul C. Standley, Field Museum
of Natural History.

- ✓ 5028 *Sickingia myriantha* Standl.
✓ 5080 *Sabicea villosa* R. & S.
" 5133 *Cephaelis crassifolia* Standl. Type
o 5146 *Schradera acuminata* Standl. Type
✓ 5264 *Psychotria macrophylla* R. & P.
o 5305 *Coccocypselum hispidulum* Standl.
✓ 5576 *Psychotria cuspidata* Bredem.
" 5583 *Palicourea Lehmannii* (Krause) Standl.
" 5710 " *angustifolia* H. B. K.
✓ 5711 " *ovalis* Standl. Type
✓ 5717 *Chiococca alba* (L.) Hitchc.
" 5137 *Didymochlamys Whitei* Hook. f.
✓ 5859 *Sickingia myriantha* Standl.
o 5889 *Psychotria macrophylla* R. & P.
✓ 5898 *Hillia parasitica* Jacq.
✓ 6294 *Buena magnifolia* (R. & P.) Wedd.
o 6322 *Palicourea guianensis* Aubl.
o 6345 " *heterochroma* Schum & Krause
o 6367 *Borreria tenella* (H. B. K.) C. & S.
✓ 6368 *Psychotria erythrocephala* (Schum. & Kr.) Standl.
" 6380 *Cinchona pubescens* Vahl
" 6606 *Palicourea anceps* Standl. Type
" 6876 *Palicourea anceps* Standl.
" 7082 *Palicourea anceps* Standl.
" 7209 *Coccocypselum hirsutum* Bartl.
o 7345 *Palicourea antioquiiana* Standl.
o 7352 *Palicourea antioquiiana* Standl.
✓ 7393 *Manettia utopia* Wernh.
" 7462 *Palicourea vaginata* Benth.
" 7463 *Psychotria Aschersonianoides* Wernh.
o 7631 *Palicourea antioquiiana* Standl.
✓ 7696 *Gonzalagunia flexuosa* Standl. Type
" 7748 *Psychotria longirostris* (Rusby) Standl.
" 7699 *Guettarda sabiceoides* Standl.
" 7823 *Gonzalagunia Killipii* Standl. Type
" 7959 " *discolor* Standl. Type
o 7971 *Schradera revoluta* Standl. Type
✓ 7991 *Relbunium nitidum* (H. B. K.) Schum.

January 15, 1930.

COLOMBIAN RUBIACEAE COLLECTED BY PENNELL & KILLIP, 1922.

Revised and additional determinations by Paul C. Standley, Field Museum
of Natural History.

- ✓ 8088 *Cinchona pubescens* Vahl
 " 8108 *Borreria tenella* (H. B. K.) C. & S.
 " 8192 *Psychotria alba* R. & P.
 " 8292 " *erythrocephala* (Schum. & Kr.) Standl.
 ✓ 8445 *Gonzalaguina cornifolia* (H. B. K.) Standl.
 ✓ 8557 *Manettia coccocypseloides* Wernh.
 ✓ 8794 *Posoqueria latifolia* (Rudge) R. & S.
 ✓ 8804 *Palicourea calophlebia* Standl. Type
 " 8868 " *bryophila* Standl.
 ✓ 8873 " *macrobotrys* (R. & P.) R. & S.
 " 9028 " *perquadrangularis* Wernh.
 " 9186 " *angustifolia* H. B. K.
 ✓ 9204 *Psychotria pisonioides* Standl. Type
 ✓ 9472 *Manettia utopia* Wernh.
 " 9481 *Palicourea angustifolia* H. B. K.
 " 9579 " " "
 " 9604 *Manettia calycosa* Griseb.
 ✓ 9782 *Palicourea psittacorum* Standl. Type
 " 10157 " *perquadrangularis* Wernh.
 " 10465 " *bryophila* Standl. Type
 " 10488 *Arcytophyllum capitatum* (Benth.) Schum
 " 10510 *Psychotria tatamana* Standl.
 " 10511 " " " Type
 ✓ 11124 *Palicourea Lehmannii* (Krause) Standl.
 " 11162 *Psychotria cuspidata* Bredem.
 " 11344 " " "
 " 11369 *Schradera cacuminis* Standl. Type
 ✓ 11562 *Manettia alba* (Aubl.) Wernh.
 ✓ 11583 " *coccocypseloides* Wernh.
 ✓ 11684 *Sabicea villosa* R. & S., var. *adpressa* (Wernh.) Standl.
 " 11785 *Cephaelis campyloneuroides* Standl.

January 15, 1930

UMBELLIFERAE OF THE COLOMBIAN EXPEDITION OF PENNELL & KILLIP,
DETERMINED BY J. N. ROSE.

- 5474. *Eryngium ebracteatum* Lam.
-5832. *Daucus montanus* H. B. K.
-5695. *Sanicula liberta* C. & S.
5967. *Eryngium ebracteatum* Lam.
6016. " "
Not at G. H. -6046. " *foetidum* L.
6267. " *ebracteatum* Lam.
" " 6431. *Spananthe paniculata* Jacq.
" " 6432. *Helosciadium*.
" " -6485. *Celeri graveolens* (L.) Britton.
-6632. *Neonelsonia acuminata* (Benth.) C. & R.
-6676. " " "
-6755. *Azorella*.
-6924. *Niphogeton ternatum* (Schlecht.) Rose.
7065. *Daucus montanus* H. B. K.
" " 8245. *Eryngium ebracteatum* Lam.
-8945. *Daucus montanus* H. B. K.
-9166. *Myrrhidendron pennellii* Rose.
-9452. " " "
" " 9502. *Conium maculatum* L.
" " 9597. *Neonelsonia acuminata* (Benth.) C. & R.
" " 9698. *Daucus montanus* H. B. K.
" " -9826. *Oreomyrhis andicola* (Lag.) Endl.
-9871. " " "
-9875. *Niphogeton lingula* (Wedd.) Rose.
-9882. "
-9927. *Myrrhidendron glaucescens* (Benth.) Rose.
-10484. *Neonelsonia acuminata* (Benth.) C. & R.
" " 10568. *Niphogeton ternatum* (Schlecht.) Rose.
" " 10642. *Eryngium ebracteatum* Lam.
" " 10697. " *foetidum* L.
" " 11212. " "

URTICACEAE OF THE COLOMBIAN EXPEDITION OF PENNELL & KILLIP,
DETERMINED BY E. P. KILLIP.

- 5117. *Pilea variegata* Seem.
 -8059. *Phenax hirtus* (Sw.) Wedd.
 -8535. *Pouzolzia obliqua* Wedd.
 Not at G.H. -8656. *Phenax hirtus* (Sw.) Wedd.
 " " " 8710. *Boehmeria caudata* Sw.
 -8786. *Pilea imparifolia* Wedd.
 -8869. " *multiflora* (Poir.) Wedd.
 -8933. *Urera baccifera* (L.) Gaud.
 " " " 8965. " *caracasana tomentosa* Wedd.
 -9000. " *baccifera angustifolia* Wedd.
 " " " 9007. *Pilea hazeni* Killip.
 -9089. *Phenax rugosus* (Poir.) Wedd.
 -9299. *Pilea multiflora* (Poir.) Wedd.
 -9336. " *pubescens* Liebm.
 " " " 9346. *Urtica ballotaeifolia macrostachya* Wedd.
 ✓ -9354. *Pilea hirsuta* (Pav.) Wedd. ?
 -9438. " *flexuosa* Wedd.?
 " " " 9447. " . Material insufficient.
 " " " 9475. " *multiflora* (Poir.) Wedd.
 -9482. " " " "
 -9609. *Boehmeria aspera* Wedd.
 -9733. *Myriocarpa stipitata* Benth.
 -9772. *Pilea multiflora* (Poir.) Wedd.
 " " " 9964. *Urtica ballotaeifolia* Wedd.
 -11000. *Boehmeria caudata* Sw.
 -10111. *Phenax rugosus* (Poir.) Wedd.
 -10121. *Pilea Hazeni* Killip. *Type*
 -10129. " *mutans* Wedd.
 " " " 10246. *Phenax rugosus* (Poir.) Wedd.
 " " " 10326. *Pilea pennellii* Killip. *Type*
 " " " 10374. " *obetiaefolia* Killip. *Type*
 -10375. " *tatamensis* Killip.
 -10376. " *fallax* Wedd.
 " " " 10377. " " "
 " " " 10378. " *tatamensis* Killip. *Type*
 " " " 10379. " *dauciodora* Wedd.
 " " " 10380. " *purpurea* Killip. *Type*
 -10381. *Boehmeria coriacea* Killip. *Type*
 " " " 10450. *Pilea*?
 -10476. " *ornatifolia* Killip. *Type*
 -11440. " *pubescens* Liebm.
 -11446. *Pouzolzia occidentalis* Wedd.
 " " " 11457. *Pilea hyaline* Fenzl.
 -11550. " *daguensis* Killip. *Type*
 " " " 11552. " . Material insufficient.
 " " " 11887. " *chrysosplenoides* Wedd.
 -11891. " *multiflora* (Poir.) Wedd.
 -7841. *Phenax hirtus* (Sw.) Wedd.

- Not at G.H. " " "
- 5439. *Pilea microphylla* (L.) Liebm.
 - 5447. *Boehmeria ramiflora* Jacq.
 - 5698. *Pilea dendrophila* Miq.
 - 5845. *Pilea chrysosplenoides* Wedd.
 - 5878. " *gallowayana* Killip. Type.
 - 6122. *Phenax hirtus* (Sw.) Wedd.
 - 6139. *Myriocarpa densiflora* Benth.
 - 6170. *Urera caracasana* (Jacq.) Griseb.
 - 6671. *Urtica ballotaefolia macrostachya* Wedd.
 - 6673. *Pilea puracensis* Killip. Type.
 - 6680. *Phenax grossecrenatus* Killip. Type.
 - 6777. *Pilea fallax* Wedd.
 - 6831. *Boehmeria arbuscula* Killip. Type.
 - 6888. *Pilea microphylla* (L.) Liebm.
 - 6944. " *fallax* Wedd.
 - 7336. " " "
 - " " " 7373. " *trichosanthes* Wedd.
 - 7375. " *fallax* Wedd.
 - 7672. " *acuminata* Liebm.
 - 7678. " *mutans* Wedd.
 - 7703. *Pilea pteropodon subintegra* Wedd. Type.
 - 7850. *Urera caracasana* (Jacq.) Griseb.
 - 7875. *Boehmeria caudata* Sw.
 - 5367. *Pouzolzia occidentalis* Wedd.
 - 7559. *Pilea fallax* Wedd.



Pennell, Francis W., Killip, Ellsworth P., and Hazen, Tracy Elliot. 1922.
"[Colombian Expedition of Pennell & Killip, Lists by Plant Family]." *Plant lists : Chile, Colombia, Ecuador, and Peru*

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