

received
July 13, 1927

PLANTS IDENTIFIED AT THE BERLIN BOTANICAL GARDENS, 1927.

Pennell

- ✓ 6771 *Cardamine flaccida* Cham. et Schlecht. prol.
depressa O. E. Schulz.
- ✓ 6675 *Cardamine ovata* Bth. subsp. *Lehmannii* (Hieron.)
O. E. Schulz var *bracteata* O. E. Schulz.
- ✓ 9975 *Draba Pennell-Hazenii* O. E. Schulz n. sp.
- ✓ 9977 *Draba Hallii* Hook. f.
- ✓ 8399 11082 *Tillandsia juncea* Lee.
tutrantha R. & P. var.
- ✓ 9268 *Tillandsia aurantiaca* (Griseb.) L. B. Smith
- ✓ 8389, *Guzmania monostachya* (L.) Rusby.
- ✓ - 6979 -- aff. *Weberbaueri* Mez.
- ✓ 5213 *Triumfetta bogotensis* DC.
- ✓ 5214 -- *acuminata* H. B. K.
- ✓ 8433 11071, 11090, 11086, *Eugenia procera* (Swartz) Poir.
- ✓ - 8507 *Eugenia sericiflora* Benth.
- ✓ - 8215 *Psidium Lehmanni* Diels.

Pennell-Colombia. U. S. National Museum

Jan. 1932

150. *Croton leptostachyus* Muell. Arg.
705. *Tournefortia pauciflora* Killip (type)
979. *Euphorbia graminea* Jacq.
1381. *Croton chamaedryfolius* Griseb.
1867. *Euphorbia cotinifolia* L.
1896. *Delostoma roseum* (Karst. & Tr.) K. Sch.
2880. *Croton gossypifolius* Vahl
3572. *Croton leptostachyus* Muell. Arg.
3954. *Phyllanthus acidus* (L.) Skeels
3997. *Croton niveus* Jacq.

- Pennell & Killip ✓ 5206. *H. personata* Epl.
✓ 6091. *H. " "*
✓ 8117. *H. silvestris* Epl.
✓ 8864. *H. " "*
10229. *H. personata* Epl. (type)
✓ 10790. *H. obtusiflora* Presl
✓ 11182. *H. personata* Epl.

Hyptis
det. by
C. E. S. P.

ColombiaPennell, Killip et als.

- 5707 Eupatorium nemorosum Klatt
 5793 Guzmania coriostachya (Griseb.) Mez
 6103 Eupatorium iresinoides HBK.
 6111 " morifolium Mill.
 6260 Puya floccosa (Regel) Morr.
 6477 Stevia serrata Cav.
 6819 " rhombifolia HBK.
 6849 Pitcairnia pungens HBK.
 6852 Stevia lucida Lag.
 7274 Pitcairnia dendroidea André.
 7285 Eupatorium popayanense Hieron.
 7406 Tillandsia subulata André
 7564 " " "
 8330 Puya floccosa (Regel) Morr
 11474 Guzmania Roezlii (Morr.) Mez
 11064 Thevetia nereifolia Juss.

Plants of F. W. Pennell determined at the Gray Herbarium

Colombia(mailed to various establishments
April 5, 1928)

- 5228 Tillandsia bulbosa Hook. 5436 Eupatorium paezense Hieron.
 6241 Catopsis fulgens Griseb. 7427 " popayanense Hieron.
 8390 " " "
 6979 Tillandsia aurantiaca Griseb. (8487 Adenostemma Lavenia (L.) Ktze.
 9457 " " " det. B.L.R.
 10514 " " "
 11064 Thevetia nereifolia Juss.
 11097 Tillandsia elongata HBK.
 11532 " monadelphica Baker

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Supplementary list determined by Mr. C. A. Weatherby

Pennell, Colombia

- 2558 Juncus Andreanus Weatherby, n. sp. ined.
 6543 "
 7126 " bogotensis HBK., var.

(det. by L.B.S.)

PennellColombia1922

- 6978 Tillandsia complanata Benth. 14443 Tillandsia tectorum Morr.
 7611 " " "
 8399 " juncea Lec.
 9267 " complanata Benth.
 11082 " juncea Lec.
 11261 " " "

F.W.PENNEL

Identified at U. S. National Herbarium, May 1931.

- 516. *Salvia pseudolantana* Epl.
- 546. " *calocalicina* minor Epl.
- 643. *Hydrocotyle bonplandii* Rich.
- 886. *Salvia cataractarum* Briq.
- 1415. *Curtia tenuifolia* (Aubl.)
- 1427. *Syngonanthus gracilis* (Bong.) Ruhl
- 1831. *Eryngium paniculatum* Cav.
- 2075. *Hydrocotyle minutifolia* Rose, ined. (type)
- 2118. *Stenophyllus glaziovii* (C. B. Clarke) Britton
- ✓2174. *Hydrocotyle bonplandii* Rich.
- ✓2281. *Hydrocotyle ranunculoides* L. f.
- 2624. *Hydrocotyle tenerrima* Rose & Killip, ined. (type)
- 2888. *Syngonanthus caulescens* (Poir.) Ruhl.
- ✓2945. *Hydrocotyle gunnerifolia* Wedd.
- 2977. *Ranunculus kunthii* Tr. & Planch.
- 3011. *Eryngium humile pulchellum* Wedd.
- 3204. *Hydrocotyle caldasana* Rose & Killip, ined.
- 3444. *Ditassa cancana* Pittier
- 4435. *Hydrocotyle pennellii* Rose, ined.
- ✓12473. *Fuchsia magellanica* Lam.
- ✓12925. *Potentilla anserina* L.
- ✓13317. *Azorella yareta* Hauman
- ✓13447. *Cerastium soratense* Rohrb.
- ✓13604. *Salvia oppositiflora* R. & P.
- ✓13650. " *sarmentosa* Epl. (type)
- ✓13608. " *oppositiflora* R. & P.
- 13843. *Valeriana poteriodes* Graebn.
- ✓14086. *Gaiadendron punctatum* (R. & P.) G. Don
- ✓14110. *Fuchsia serratifolia* R. & P.
- ✓14332. *Salvia cruikshanksii* Benth.
- ✓14354. *Periloma ocymoides* H.B.K.
- ✓14401. *Satureia elliptica* (R. & P.) Briq.
- ✓14510. *Salvia cruikshanksii* Benth.
- ✓14617. *Clematis peruviana* DC.
- ✓14702. *Cremolobus pinnatifidus* Hook.
- ✓14706. *Clematis peruviana* DC.
- ✓14734. *Satureia elliptica* (R. & P.) Briq.
- ✓14773. *Salvia tubiflora* Sm.
- ✓14788. *Salvia rhombifolia* R. & P.

Pennell & Killip

✓ 6929. *H. weddelliana* Gilg

✓ 7052. *H. verticillata* Gilg

✓ 9841. *H. tolimae* Gilg

✓ 9894. H " "

✓ 9997. *H. dasyantha* Gilg

Det. by Miss C. K. Allen,
Mo. Bot. Gard.

PENNELL & KILLIP, COLOMBIA

Identified at U. S. National Herbarium, May 1931.

- ✓5143. *Hydrocotyle bonplandii* Rich.
 ✓5292. " " "
 " 5388. " " "
 " 5557. " " "
 ✓6192. *Sicydium tamnifolium* (H.B.K.) Cogn.
 ✓6237. *Hydrocotyle umbellata* L.
 ✓6326. " *bonplandii* Rich.
 ✓6424. " " "
 ✓6541. " " "
 ✓6555. " " "
 ✓6592. " *aconitifolia* H.B.K.
 ✓6862. *Cyperus cayennensis* (Lam.) Britton (form)
 ✓7204. *Hydrocotyle bonplandii* Rich.
 ✓7532. *Carludovica plicata* Kl.
 ✓8149. *Rhynchospora globosa* (H.B.K.) R. & S.
 ✓8636. *Hydrocotyle ranunculoides* L. f.
 ✓8707. " *bonplandii* Rich.
 ✓8844. *Salvia calocalicina* Briq.
 ✓8901. " " "
 ✓8942. *Hydrocotyle bonplandii* Rich.
 ✓8947. " *ranunculoides* L. f.
 ✓8948. " *bonplandii* Rich.
 ✓8960. " *caldasana* Rose & Killip, ined. (type)
 ✓9130. *Salvia cataractarum* Briq.
 ✓9202. *Hydrocotyle aconitifolia* H.B.K.
 ✓9206. *Salvia cataractarum* Briq.
 ✓9226. *Hydrocotyle gunnerifolia* Wedd.
 ✓9349. *Hydrocotyle sphenoloba* Wedd.
 ✓9357. *Hydrocotyle pennellii* Rose, ined. (type)
 ✓9360. " *bonplandii* Rich.
 ✓9498. " *gunnerifolia* Wedd.
 ✓9530. *Salvia cyanocephala* Epl. (type)
 ✓9553. " *rufula* H.B.K.
 ✓9560. *Hydrocotyle bonplandii* Rich.
 9673. " *bonariensis* Lam.
 ✓9676. *Salvia rufula* H.B.K.*
 ✓9746. *Hydrocotyle bonplandii* Rich.
 ✓9778. " *gunnerifolia* Wedd.
 ✓9779. *Salvia killipiana* Epl.
 ✓9992. *Eryngium humile pulchellum* Wedd.
 ✓10038. *Hydrocotyle bonplandii* Rich.
 ✓10047. " *gunnerifolia* Wedd.
 ✓10145. " *umbellata* L.
 ✓10241. *Salvia calocalicina* Briq.
 ✓10280. *Salvia tiliaefolia* Vahl
 ✓10295. " *calocalicina* Briq.
 ✓10373. *Lozanella enantiophylla* (Donn. Sm.) Killip & Morton

- ✓ 10485. *Hydrocotyle multifida* Rich.
 + 10604. *Salvia tiliaefolia* Vahl
 o ✓ 10616. " *venulosa* Epl. (type)
 ✓ 10792. " *tiliaefolia* Vahl
 ✓ 10795. *Hydrocotyle bonplandii* Rich.
 " ✓ 11005. " *umbellata* L.
 ✓ 11075. *Vallesia dichotoma* R. & P.
 o ✓ 11192. *Hydrocotyle bonplandii* Rich.
 o ✓ 11342. *Passiflora pilosissima* Killip
 ✓ 11513. *Hydrocotyle bonplandii* Rich.
 ✓ 11935. *Salvia killipiana* Epl.
 ✓ 12064. *Lippia hemispherica* Cham.

Colombia, Pennell, Killip, & Hazen, 1922

- ✓ 5069 *Aciotis purpurascens* (Aubl.) Triana
 ✓ 5070 *Nepsera aquatica* (Aubl.) Naud.
 - 5071 *Aciotis brachybotrya* (DC.) Triana
 o 5121 *Adelobotrya adscendens* (Sw.) Triana
 ✓ 5122 *Tococa acuminata* Benth.
 ✓ 5125 *Topobea alternifolia* Gleason, n. sp.
 ✓ 5128 *Blakea podagrica* Triana
 ✓ 5173 *Tibouchina longifolia* (Vahl) Baill.
 ✓ 5255 *Diolena pileoides* Triana
 o 5284 *Acisanthera Acisanthera* (L.)
 o 5287 *Clidemia bullosa* (Spreng.) Cogn.
 ✓ 5301 *Acisanthera Acisanthera* (L.)
 ✓ 5302 *Clidemia rubra* (Aubl.) Mart.
 ✓ 5304 *Aciotis paludosa* (Mart.) Triana
 ✓ 5307 *Nepsera aquatica* (Aubl.) Naud.
 ✓ 5319 *Aciotis paludosa* (Mart.) Triana
 ✓ 5377 *Tibouchina longifolia* (Vahl) Baill.
 ✓ 5492 *Tibouchina gracilis* (Bonpl.) Cogn.
 o 5518 *Clidemia impatioides* (Naud.) Cogn.
 o 5527 *Tibouchina gracilis* (Bonpl.) Cogn.
 ✓ 5679 *Meriania speciosa* (Bonpl.) Naud.
 ✓ 5985 *Aciotis paludosa* (Mart.) Triana
 ✓ 5997 *Tibouchina gracilis* (Bonpl.) Cogn.
 o 6055 *Arthrostemma campanulare* (Naud.) Triana
 o 6106 *Tibouchina longifolia* (Vahl) Baill.
 o 6121 *Arthrostemma campanulare* (Naud.) Triana

PENNELL-KILLIP, COLOMBIA

U. S. National Museum, January 1932.

- 5018. *Cuphea racemosa* (L. f.) Spreng.
- ✓5217. *Dimorphandra oleifera* Tr.
- ✓5387. *Croton pungens* Jacq.
- ✓6537. *Dysopsis glechomoides* (Rich.) Muell. Arg.
- ✓7200. *Eleocharis* (indeterminable)
- ✓7803. *Trichantha major* Hook. (Det. Morton)
- ✓7928. *Trichantha major* Hook. (Det. Morton)
- ✓9026. *Symplocos serrulata* H. & B. (vel aff.)
- ✓10450. *Pilea fasciata* Wedd. (correction)
- ✓10590. *Tournefortia volubilis* L.
- ✓10799. *Tournefortia paniculata* Cham. (correction)
- ✓11445. " *angustiflora* R. & P.
- ✓11761. *Dimorphandra oleifera* Tr.
- ✓12021. *Eleocharis caribaea* (Rottb.) Blake
- ✓12080. *Delostoma roseum* (Karst. & Tr.) K. Sch.
- ✓12085. *Billia columbiana* Pl. & Lind.
- ✓10913 *Tibouchina lepidota* (Bonpl.) Baill.
- ✓10917 *Monochaetum lineatum* (D. Don) Naud.
- ✓10927 *Tibouchina lepidota* (Bonpl.) Baill.
- ✓10948, ✓10949 *Leandra subseriata* (Triana) Cogn.
- ✓10977 *Aciotis paludosa* (Mart.) Triana
- ✓10978 " *purpurascens* (Aubl.) Triana
- ✓11167 *Meriania speciosa* (Bonpl.) Naud.
- ✓11322 *Blakea*
- ✓11433 *Tibouchina longifolia* (Vahl) Baill.
- ✓11458 *Leandra dichotoma* (Don.) Cogn.
- ✓11501 *Tibouchina longifolia* (Vahl.) Baill.
- ✓11520 *Aciotis paludosa* (Mart.) Triana
- ✓11537 *Diolena lanceolata* Gleason, n. sp.
- ✓11544 " *agrimonioides* Triana
- ✓11547 " *pileoides* Triana
- ✓11588 *Blakea Pyxidanthus* Triana
- ✓11787 *Diolena spicata* Triana
- ✓11797 *Monolena ovata* Cogn.
- ✓11853 *Clidemia dependens* D. Don
- ✓12122 *Arthrostemma campanulare* (Naud.) Triana

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DETERMINATION OF SOUTH AMERICAN SENECIO BY J. M. GREENMAN

Based on Specimens at U. S. N. M., Feb. 1, 1934

Pennell-Killip, Colombia

- Senecio*
- o 6938. *S. subbruncinatus* (Wedd.) Greenman
 - 7 6966. *S. vaccinioides* (HBK.) Wedd.
 - 9225. *S. formosus* HBK.
 - o 9800. *S. latiflorus* Wedd.
 - 9845. *S. vaccinioides* (HBK.) Bip. ex Wedd.
 - o 9881. *S. subdecurrens* Schz. Bip.
 - o 9886. *S. culcitioides* Schz. Bip.
 - ✓ 9923. *S. latiflorus* Wedd.
 - 10009. *S. latiflorus* Wedd.
 - ✓ 10025. *S. formosus* HBK.
 - o 10026. *S. culcitioides* Schz. Bip.
 - o 10536. *S. vaccinioides* (HBK.) Sch. Bip. ex Wedd. var. *pruinosa* Wedd.
 - 11928. *S. abietinus* Willd.
 - 11964. *S. subbruncinatus* (Wedd.) Greenman
 - o 11975. *S. stuebelii* Hieron.

- Pennell & Killip
- ✓ 6166. *Cyperus caracasus* Kunth (Corr.)
 - ✓ 6361. *Stenophyllus junciiformis* (H.B.K.) Britton (det. Britton)
 - ✓ 6418. *Monnina trianae* Chod. (det. E.P. Killip)
 - ✓ 7097. *Aegiphila bogotensis* (Spreng) Moldenke (det. Moldenke)
 - ✓ 7200. *Eleocharis pachystyla* (C. Wright) Clarke
 - ✓ 8701. *Dichromena polystachya* Twinel (con.; *D. globosa* (H.B.K.) R. & S.)
 - o 8831. *Heliconia revoluta* Griggs (det. Griggs)
 - ✓ 10113. *Monnina trianae* Chod. (det. E.P. Killip)
 - ✓ 11511. *Dichromena persooniana* Nees (corr.)
 - ✓ 12031. *Asclepias glaucescens* H.B.K.

Aristolochia Pennell 280. A. (near *niana* Willd.)
3623. A. *pilosa* H. B. K.

Det. O.C. Schmidt

Pennell

3128. *Poecilochroma quitense* (Hook.) Miers
✓ 12206. *Acnistus aggregatus* (R. & P.) Miers
✓ 14296. " " " "

Pennell

1486. *Calonyction aculeatum* (L.) House (Det. A. C. Smith)
1696. " " " " "
✓ 13242. *Cuscuta acutiloba* Engelm. (Det. Yuncker)
✓ 13850. *Psilogramme elongata* (Hook. & Grev.) Kuhn (Det. Maxon)
✓ 14382. *Cuscuta odorata* R. & P. (Det. Yuncker)

Pennell 1865, 2723, 2876. *E. ^{volubilis} tenuis sericatus* (House) v. Oost.

- ✓ 3598. *E. filipes* Mart. (not *E. linifolius*) det. S. J. van Ooststroom
✓ 132. *E. cardiophyllus* Schlecht.
✓ 14787. *E. villosus* R. P.

Pennell-Killip 5426. ✓ *E. ^{volubilis} tenuis longifolius* (Chois.) v. Oost.
(Not. *E. villosus*)

- ✓ 11110. *E. ^{volubilis} tenuis sericatus* (House) v. Oost. det. S. J. van Ooststroom
(Not. *E. villosus*.)

Pennell & Killip, Colombia

Araliaceae, det. Harms

- ✓ 5670. *Sciadophyllum ferrugineum* (H.B.K.) Dene. & Planch.
✓ 7524. *Oreopanax discolor* (Kunth) Dene. & Planch.
✓ 7541. " *crassinervius* (Kunth) Dene. & Planch.
✓ 8199. " *microcephalus* Harms
✓ 8294. *Sciadophyllum ferrugineum* (H.B.K.) Dene. & Planch.
✓ 9045. *Oreopanax coriaceus* Dene. & Planch.
✓ 11650. *Sciadophyllum ferrugineum* (H.B.K.) Dene. & Planch.
✓ 11658. *Oreopanax confusum* Marchal

Supplementary list of identifications, April 4, 1935.

Colombia, Pennell & Killip in 1922.

- ✓ 6546. *Psilogramme flexuosa* (Desv.) Kuhn
✓ 6658. " *elongata* (Hook. & Grev.) Kuhn
✓ 6778. " *flexuosa* (Desv.) Kuhn (sens. lat.)
✓ 6975. " " " "
✓ 7319. " *hirta* (H.B.K.) Kuhn
✓ 7367. " *flexuosa* (Desv.) Kuhn
✓ 7426. " *hirta* (H.B.K.) Kuhn
✓ 7479. " *flexuosa* (Desv.) Kuhn
✓ 9311. *Cyathea divergens* Kunze (det. C. A. W.)
✓ 9446. *Polypodium sericeo-lanatum* Hook. (det. C. A. W., 1934)
✓ 9490. *Psilogramme flexuosa* (Desv.) Kuhn
✓ 9494. " *Mathewsii* (Hook.) Kuhn
✓ 10469. " *flexuosa* (Desv.) Kuhn, (sens. lat.)
✓ 10470. " *hirta* (H.B.K.) Kuhn
✓ 11368. " *retrofracta* (Hook.) Maxon?

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Pennell-Killip, Colombia

(U.S.N.M. March 1938)

no label

- ✓ 5301. *Polypodium montigenum* Maxon, n. sp.
- ✓ 5311. *Cuphea carthaginensis* (Jacq.) Macbr.
- 5800. *Dictyostega purdieana* Benth. (Det. Jonker)
- ✓ 6210. *Citrullus vulgaris* Schrad. Det. Harms
- ✓ 6230. *Gratiola peruviana* L. (Det. Pennell)
- ✓ 7941. *Orchyllium jamesonianum* (Oliv.)
- ✓ 8301. *Dictyostega purdieana* Benth. (De. Jonker)
- ✓ 8838. *Cuphea carthaginensis* (Jacq.) Macbr.
- ✓ 9641. *Cestrum alternifolium* var. *mitanthum* O. E. Schulz
- ✓ 10076. *Plutarchia pubiflora* (Wedd.) A. C. Smith
- ✓ 11071. *Eugenia procera* (Sw.)^w Poir.
- ✓ 11072. *Acalypha cuspidata* Jacq.
- ✓ 11894. *Cestrum caldasii* Morton n. sp. type

Gray

Current S. Amer. Collections

Cyperaceae

(Det. R. Gross; reported by U.S.N.M. June 1939)

Pennell & Killip

- ✓ 9876. *Carex bonplandii* var. *humilior* Kukenth.
- ✓ 9877. *Carex tristicha* Spruce (E. descr.)
- ✓ 9954. *Carex bonplandii* var. *angustifolia* Boott
- ✓ 9961. *Carex microglochin* Wahl.
- ✓ 10355. *Carex moesta* Kunth
- ✓ 11188. *Cyperus surinamensis* Rooth.

Current South American Collections

Solanum (Det. C.V. Morton)

(Reported by U.S.N.M. Aug. 1936)

Pennell & Killip

- ✓ 5203. umbellatum Mill. (not *S. asperum*)
- ✓ 5348. micranthum Willd.
- ✓ 5705. dolosum Morton (type)
- ✓ 5714. evolvulifolium Greenm.
- ✓ 6955. prionoptychum Bitt.
- ✓ 7100. psychotrioides H. & B.
- ✓ 7108. holophyllum Bitt.
- ✓ 7512. longevirgatum Bitt.
- ✓ 7660. holophyllum Bitt.
- ✓ 7661. pauperculum Morton (type) (not *S. lepidotum*)
- ✓ 7839. juglandifolium H. & B.
- ✓ 8348. umbellatum Mill. (not *S. asperum*)
- ✓ 8563. micranthum Willd.
- ✓ 8596. umbellatum Mill. (not *S. asperum*)
- ✓ 8900. juglandifolium H. & B.
- ✓ 9168. venosum H. & B.
- ✓ 9749. Sodiroi var. ramosipilum Bitt.
- ✓ 10620. lepidotum H. & B.
- ✓ 10718. caripense H. & B.
- ✓ 10747. caripense H. & B.
- ✓ 10869. lepidotum H. & B.
- ✓ 11018. lepidotum H. & B.
- ✓ 11220. lepidotum H. & B. var.
- ✓ 11437. suaveolens Kth. & Bonchi
- ✓ 11589. dolosum Morton
- ✓ 11989. deflexiflorum Bitt.
- ✓ 12066. verbascifolium var. adulterinum (Ham.) Don

Ferns, identified by W.R. Maxon & C.V. Morton

✓ Pennell & Killip ✓ 5275. Dryopteris permollis Maxon & Morton

✓ 11683. " "

Pennell and Killip

- ✓ 5410, 5833, 6388, 8766. Baccharis decussata (Klatt) Hieron. (det. Blake)
- ✓ 5577a. Marcgravia myriostigma Tr. & Planch.? (ex char.; lvs. only)
- ✓ 5796. Cavendishia nitens Sleumer (not *C. adenophora*; det. Sleumer)
- ✓ 9965. Rumex tolimensis Wedd. (det. Rechinger)
- ✓ 9979. Alchemilla paludicola Rothm. (not *A. mandoniana*; det. Rothmaler)
- ✓ 11376. Cavendishia nitens Sleumer (not *C. adenophora*; det. Sleumer)
- ✓ 11453. Monopyle bella Morton, sp. nov. type (det. Mor)

Current Collections of Moraceae

(Det. P. C. Standley; reported by U.S.N.M. May 3, 1938)

Pennell-Killip, Colombia

names not
changed on our labels
6/8/39!

- ✓5312. *Cecropia vageleri* Burret?
- ✓6004. *Ficus lehmannii* Standl.
- ✓7873. *Cecropia* (probably new)
- ✓7874. " *humboldtiana* Kl.
- ✓8391. *Ficus zarzalensis* Standl. (type)

Pennell & Killip

- ✓7947. *Sphenomeris killipii* Maxon (type)

Burmeistera

Pennell 10734, 10324, 4397, 3409 *variabilis* (Gl.) Wim. Distr. as
a species of *Centropogon*, *C. variabilis* Gl. /Karst

- Burmeistera* Killip 7770, 7862, 7942, 7955 *ceratocarpa* Zahlbr. Distr. as *lacerata*
Pennell 10323, 10421 *ceratocarpa* Zahlbr. var. *rivina* Wim. 10421 is
the type. Distr. as *B. lacerata* Karst.
5148 *sylvicola* Zahlbr. Distr. as *lacerata* Karst.
Killip 11394, Pennell & Killip 5798 *xerampelina* Wim. Distr. as *glauca*
(Wim.) Gl.
Pennell 4440 *maculata* Wim. Distr. as *glauca* (Wim.) Gl.
Ch. from Centropogon
caldasensis 10322 *caldasanus* (Gl.) Wim. Distr. as a *Centropogon*
10513 *tomentosula* Karst. & Triana
4396 sp. nov. unnamed

- Centropogon* Killip 9776 *unicolor* Wim.
Pennell 9232 *barbatellus* Gl. (distr. as *ellipticus* Gl.)
Killip & Hazen 9623 *luteus* Wim. (1924) Distr as *aurantiacus* Gl. (1925)

Pennell 10784 *rex* Wim.

- Centropogon* 10962 *Warszewiczii* Van Houtte var. *Jervisaei* Wim. f. *brevi-*
lobus Wim.
4238 *fractus* Wim.
3142 *cylindricus* (Gl.) Wim.

Pennell 3547 *fastigiata* HBK.

Lobelia 2921 *aquatica* Cham. ✓
2104 *tenera* HBK.

Lobelia Pennell & Killip 5972, 8172 *fastigiata* HBK.

○ Pennell 10262, 9136 *avicularis* Wim. TYPE NUMBER *Siphocampylus*

Solanaceae-cont. (Det. Morton)

Pennell & Killip

- ✓ 6670. *Lochroma gesnerioides* (H.B.K.) Miers
✓ 7091. " " " "
✓ 9323. " " " "
✓ 10049. *Poecilochroma quitense* (Hook.) Miers

Pennell-Killip

- ✓ 7956. *Gonzalagunia discolor* Standl. (Det. Standley)
○ 8173. *Steiractinia sodiroi* (Hieron.) Blake (Det. Blake)
✓ 10292. *Calonyction aculeatum* (L.) House (Det. A. C. Smith)
✓ 10857. " " " "
✓ 11258. *Steiractinia klattii* (Rob. & Greenm.) Blake (Det. Blake)
✓ 11634. " " " " " "

Pennell-Killip 12000. ✓ *Aristolochia* *pandurata* Jacq.

Pennell-Killip 6870. *Carex purdiei* Boott

6954. *Cestrum mirabile* Morton (type)

8758. *Carex cladostachya* Wahl.

10920. *Cestrum sesseoides* Francey (Det. Morton)

Current South American Collections

Senecio

Cited by Greenman in Ann. Mo. B. G. 25: 795

Reported by U.S.N.M. Dec. 1938.

Pennell-Killip, Colombia

- ✓ 9804. *S. hypsobates* Wedd.
✓ 10008. " "
✓ 9836. *S. ledifolius* (H.B.K.) DC.
✓ 9167. *S. arboreus* H.B.K.
✓ 9644. *S. bogotensis* Spreng.
✓ 6509. *S. ascherbornianus* Hieron.
✓ 6737. " "
✓ 8769. *S. urbani* Hieron.
✓ 9483. " "
✓ 11413. " "
✓ 11835. " "

g

Current South American Collections
(Reported by U.S.N.M., April 1942)

Pennell (incl. Rusby & Pennell) - Colombia

- 1881. *Jacquemontia velutina* Chois. (Det. O'Donell)
- 4760. *Tabernaemontana amygdalifolia* Jacq. (Det. Killip)

Solanum (Det. C. V. Morton)

- 190. *S. lanceifolium* Jacq.
- 2125. *S. stellatiglandulosum* Bitter
- 2429. *S. callianthum* Morton
- 2729. *S. crotonifolium* H.B.K.
- 3166. *S. callianthum* Morton
- 3388. *S. nigrum* L.
- 3573. *S. crotonifolium*
- 3984. *S. lanceifolium* Jacq. (not *asperrimum*)

Pennell & Killip - Colombia
Solanum (det. C. V. Morton)

- 4
- 5239. *S. jamaicense* Mill.
 - 5422. *S. torvum* Sw.
 - 6611. *S. nigrum* L. aff.
 - 7449. *S. callianthum* Morton
 - 7710. *S. cfr. magalophyllum* Bitter
 - 8401. *S. jamaicense* Mill.
 - 8615. *S. ovalifolium* H.B.K.
 - 9744. *S. jahnii* Bitter
 - 11053. *S. sacupanense* Rusby
 - 11161. *S. nollanum* Britt.

Det. E. P. Killip unless otherwise noted.

- 5441. *Anthurium crassinervium* (Jacq.) Schott
- 7364. " *columbianum* Engl.?
- 9021. " *brownii* Mast.?
- 9069. " *alatum* Engl.?
- 11397. *Stenospermaticum popayanense* Schott
- 11857. Fungus (indeterminable) ↙
- 12134. *Polyporus* sp. (no spores; det. Stevenson)

Rose

- X 18903. *Polygonum striatum* C. Koch (det. Brenckle)
- 22250. *Maytenus verticillata* (R. & P.) DC. (det. Lundell)

Pennell - Peru

- 13054. *Nama dichotomum* (R. & P.) Chois.

- 13108. " " " " " "
- 13631. *Solanum fuscatum* Dunal Det. C. V. Morton

Hitchcock -

- X 19992. *Hydrolea elatior* Schott

Gray

Miscellaneous South American Collections

Reported by U.S.N.M., Jan. 1944; det. E.P. Killip unless otherwise noted

Pennell (including Rusby and Pennell) - Colombia

- 1377. *Dalechampia gurunana* Ule (Det. Croizat)
- o 1658. *Heterotrichum octomum* (Bonpl.) DC. (Det. Gleason)
- o 1812. *Athyrocarpus rufipes* (Seub.) Standl.
- o 1887. " *sefoveolatus* (Clarke) Kuntze
- 1971. *Miconia pedicellata* Cogn. (Det. Gleason)
- 2120. *Phytolacca bogotensis* H.B.K.
- 2645. *Tinantia erecta* (Jacq.) Schlecht
- 2874. *Heliconia mutisiana* Cuatr. (not H. robusta)
- 2923. *Lophotocarpus guyanensis* (H.B.K.) J. G. Sm.
- 2994. *Montia fontana* L.
- 3147. *Tournefortia hookeriana* Moq. (perhaps dist. as Cissus)
- 3775. *Heterotrichum octomum* (Bonpl.) DC. (Det. Gleason)
- 4054. *Phoradendron emarginatum* Mart.
- 4633. *Oxandra oblongifolia* Fries (type) (perhaps reported as O. longifolia)

Corrected determinations
have not been added to sheets
already in the herbarium,
indicated on list as "In."

0 = not at G. H.

corrected determinations
not added to specimens already in Hb.

o = not at Gray Hb.

Partial report on Araceae (These sheets were compared with
types or authenticated material at Berlin).

Pennell, Killip & Hazen

- ✓ 5055. *Stenospermantium multiovulatum* (Engl.) N. E. Brown
- o 5112. *Stenospermantium popayanense* Schott
- ✓ 5224. *Anthurium linearifolium* Engl.
- ✓ 5225. " *barbacoasense* Engl.
- o 5359. *Caladium steudneriifolium* Engl.
- o 5757. *Anthurium brownii* Mast.
- ✓ 7189. " *elegans* Engl.
- ✓ 8413. " *rigidulum* Schott
- in 9264. " *longegeniculatum* Engl.
- 2 8988. " *oblongo-cordatum* Engl.
- ✓ 11533. " *monticolum* Engl.
- ✓ 11555. " *antrophyoides* Killip, TYPE.

Pennell, Killip, & Hazen (Miscellany)

- ✓ 5016. *Bidens pilosa* L. var.
- in 5117. *Pilea seemannii* Killip (*P. variegata* Wedd., not Semmann).
- ✓ 5190. *Bidens pilosa* L. var.
- ✓ 5191. " " "
- in 5204. *Oxypetalum cordifolium* (Vent.) Schlecht. (Compared at Berlin)
- in 5594. *Passiflora tolimana* Harms
- " 5698. *Pilea imparifolia* Wedd. (*P. dendrophila*)
- " 5845. " *involucrata* (Sims) Harms (*P. chrysosplenoides*)
- ✓ 6195. *Cosmos caudatus* H.B.K.
- in 6218. *Echinodorus paniculatus* Micheli
- not found ✓ 6316. *Calea colombiana* Gand.
- in 6403. *Eurya sericea chrysophylla* (H. & B.) Hieron. (Cfd. Berlin)
- ✓ 6483. *Pitcairnia pungens* H.B.K.
- ? - ✓ 6587. *Alchemilla sibbaldiaefolia* H.B.K.?
- ✓ 6743. *Eurya canescens* (H. & B.) Blume (Cfd. Berlin)
- ✓ 6762. *Bidens pilosa* L.
- in 6888. *Pilea thymifolia* (H.B.K.) Blume (rather than *P. microphylla*)
- o 7079. *Stemmatella lehmannii* Hieron.
- o 7239. *Bidens pilosa* L.
- chrysantha 7373. *Pilea rojasiana* Killip, TYPE (not *P. trichosanthes*)
- ✓ 7419. *Bidens pilosa* L. var.
- ✓ 7472. *Brunellia stuebelii* Hieron. (Cfd. Berlin).
- ✓ 7548. *Conomorpha pastensis* Mez (Cfd. Berlin).
- not found ✓ 7657. *Buddleia mollis* H.B.K. (Cfd. Berlin).
- 7703. *Pilea pteropodon subintegra* Killip, ined. (too near typical
P. pteropodon).
- ✓ 7802. *Eurya sericea* (H. & B.) Blume (Cfd. Berlin)
- in 7898. *Weinmannia lamprophylla* Hieron. (Cfd. Berlin)

2401

- ✓ 8040. *Calea colombiana* Gand.
 ✓ 8045. *Bidens pilosa* L.
 ✓ 8068. " " var.
 ✓ 8093. *Calea colombiana* Gand. (Compared by Blake with type coll. at Kew).
 ✓ 8250. *Calea colombiana* Gand.
 ✓ 8602. *Oxypetalum cordifolium* (Vent.) Schlechtr.
 change ✓ 8965. *Urera simplex* Wedd. (Not *U. caracasana*)
 9007. *Pilea flexuosa* Wedd. (*P. hazeni*)
 ✓ 9354. *Pilea salentensis* Killip, TYPE (not *P. hirsuta*)
 ✓ 9438. *Pilea carnulosa* Wedd. (*P. flexuosa* of earlier report)
 ✓ 9970. *Colobanthus quitensis* Bartl. (Cfd. authenticated material at Berlin).
 not found ✓ 10212. *Pilea flexuosa* Wedd. (*P. hazeni*).
 change ✓ 10450. *Pilea ophioides* Killip, TYPE (not *P. hirsuta*).
 ✓ 10634. *Biophytum dendroides* (H.B.K.) DC.
 ✓ 10812. *Turnera ulmifolia* L.
 ✓ 10813. " "
 ✓ 10825. *Bouchea prismatica* (Jacq.) Kuntze
 change ✓ 11679. *Passiflora tolimana* Harms
 change ✓ 11887. *Pilea involucrata* (Sims) Urban
 ✓ 11950. *Puya nitida* Mez
 ✓ 11953. *Valeriana crassipes* (Wedd.) Hook
 ✓ 12151. *Chrysanthemum parthenium* (L.) Pers.

Pennell, Killip, & Hazen

- ✓ 5895. *O. barrelieri* L.
 ✓ 5972. *O. corniculata* L.
 ✓ 6146. *O. caucensis* R. Knuth, TYPE
 ✓ 6535. *O. lotoides* H.B.K.
 ✓ 6563. *O. puracensis* R. Knuth, TYPE.
 ✓ 6980. *O. pennelliana* R. Knuth, TYPE
 ✓ 7143. *O. pubescens* H.B.K.
 ✓ 7514. *O. mollis* H.B.K.
 ✓ 8886. *O. lotoides* H.B.K. In A.H. as *O. medicaginea* HBK.
 ✓ 9123. *O. lotoides* H.B.K.
 ✓ 9197. *O. pubescens* H.B.K.
 ✓ 9334. *O. lotoides* H.B.K.
 ✓ 9341. *O. lotoides* H.B.K.
 ✓ 9684. *O. lotoides* H.B.K.
 ✓ 9983. *O. tolimensis* R. Knuth
 ✓ 9984. *O. tolimensis* R. Knuth
 ✓ 11954. *O. medicaginea* H.B.K.

IDENTIFICATIONS OF COLOMBIAN PLANTS COLLECTED BY DR. F. W. PENNELL,
AND E. P. KILLIP

- 5161. *Peperomia reflexa* (sens. lat.)
- 5743. " *cumbricola*
- 6153. " *reflexa* (sens. lat.)
- ✓6291. " *alata*
- ✓6983. " *paletarana* (ined. Cotype)
- 7744. " *alata* R. & P.
- ✓7763. " *clematitidifolia* (ined.)
- ✓8057. " *moralesana* (ined.)
- 8276. " *mollis* HBK.
- ✓11553. " *blephariphylla* (ined.) Type number
- 11716. " *buenaventurana*

Pennell (1917)

- 633. *Liabum caliense* Hieron.
- 769. *L. sagittatum* Sch. Bip. (form)
- 1958. *L. sessiliflorum* (H.B.K.) Less. ?
- 2644. *L. aff.* "
- 4305. *L. ~~nonoense~~ nonoense* Hieron.

Liabum (Det. Blake)

Pennell & Killip

- ✓6336. *L. aff. sessiliflorum* (H.B.K.) Less.
- ✓5785. *L. volubile* (H.B.K.) Less.
- ✓7952. *L. perfoliatum* Blake TYPE
- 6492, 6493, 6594, 6662, 7174, 7181, 7410, 7511, 9135. *L. coriaceum* Hieron.
- 5185, 5720, 6410, 8896. *L. caliense* Hieron.
- ✓9775. *L. tenerum* (Sch. Bip.) Blake
- 6494, 6518, 6890a, 7113, 7450, } *L. sagittatum* Sch. Bip.
- ✓7865, 10431. *L.* }
- ✓5184, 7820, 7860, 8015. *L. hastifolium* P. & E.
- 6899, 7563, 7838, 7965, 8825 } *L. vulcanicum* Klatt
- ✓8908, 8963, 9402 }
- ✓5854. *L. melastomoides* (H.B.K.) Less.
- ✓8547. " "
- ✓9628. " "
- ✓7538. " *nonoense* Hieron.
- ✓6117, 8628, 8700, *L. nigropilosum* Hieron.
- ✓6381, 6583, 7178, 7429, 7510. *L. igniarium* (H.B.K.) Less.

not found in bundle

MISCELLANY COMPOSITAE

Pennell (1917)

- 2213. *Vasquezia anemonifolia* (H.B.K.) Blake
- 1215. " "

Pennell & Killip

- ✓8753. " *anemonifolia* (H.B.K.) Blake
- 9825. *Diplostegium schultzii* Wedd.
- ✓10532. " "

not found in bundle

Pennell - 1917

- 1731. *Laurentia micrantha longibracteata* Wimmer
- 1775. *Lobelia cliffortiana xalapensis* Gray
- 1813. " *tenera* H.B.K.
- 2111. " "
- 2112. " "
- 2183. " "
- 2506. " "
- 2508. *Laurentia micrantha f. subtilis* (H.B.K.) Wimmer
- 2559. *Lobelia erinus grandiflora* Paxt.

(Det. E. Wimmer)

(HBK)

Pennell & Killip

- 5476. *Laurentia micrantha* (H.B.K.) Zahlbr. *Lob. cliffortiana* (n. m. 2)
- 7067. *Lobelia rupestris* H.B.K. *In Hb. as Lobelia*

III. RUBUS (Continued)

Pennell, Killip, & Hazen

- ✓5167. *R. urticaefolius* Poir.
 ✓6126. *R. glaucus* Benth.
 ✓6514. *R. nubigenus* H.B.K.
 ✓6800. *R. glaucus* Benth.
 ✓6840. *R. adenotrichus* Schlecht.
 ✓7447. Cf. *R. nubigenus* H.B.K.
 ✓7558. *R. porphyromallus* Focke
 ✓7575. *R.*
 ✓7652. *R. glaucus* Benth.
 ✓7834. Aff. *R. guyanensis* Focke
 ✓7835. *R. killipii* Berger, TYPE
 ✓8737. *R. urticaefolius* Poir.
 ✓8754. Aff. *R. adenotrichus* Schlecht, perhaps *R. adenotrichus* x
 porphyromallus
 not found 8776. *R. glaucus* Benth.
 ✓8860. *R.*
 ✓9134. Aff. *R. sellowii* C. & S. and *R. peruvianus* Focke
 ✓9227. *R. glaucus* Benth.
 ✓9231. Same as 9134.
 ✓9685. *R. nubigenus* H.B.K.
 ✓10300. *R. glaucus* Benth.
 ✓11003. *R. urticaefolius* Poir.
 ✓11406. *R. porphyromallus* Focke
 ✓11967. *R. choachiensis* Berger, TYPE.
 ✓11969. *R. bogotensis* H.B.K.

II. HALENIA

Pennell (1917)

2434. *Halenia erythraeoides* Gilg (Compared with fragment
 and photo of type at Berlin).

3001. *Halenia dasyantha* Gilg.

Pennell, Killip, & Hazen

Don

6889. *H. brevicornis* (H.B.K.) ~~xxx~~ (Compared at Berlin).
 ✓6929. *H. antigonorrhoeica* Gilg (Compared with type at Berlin).
 ✓7034. *H. major* Wedd. (Compared with fragment and sketch of
 type at Berlin).
 ✓7154. *H. brevicornis* (H.B.K.) Don (Compared at Berlin).
 not found 10575. *H. major* Wedd? (Fruit only).

PENNELL & KILLIP COLOMBIAN COLLECTION--1922
Identified at U. S. National Herbarium by E. P. Killip

- 5207 *Cordia acuta* Pittier *In as cylindrostachya*
 5697 *Passiflora tiliaefolia* L.
 5797 *Tropaeolum integrifolium* Hughes
 5896 *Cordia acuta* Pittier
 6258 *Declieuxia chiococcoides* H. B. K.
 6350 *Passiflora tiliaefolia* L.
 6374 *Cordia acuta* Pittier
 6405 *Tropaeolum pendulum* Kl.
 6411 *Medicago hispida* Gaertn.
 6517 *Aplopappus caucanus* Blake
 6928 *Disterigma leiopodandrum* Blake (type)
 6947 *Tropaeolum* (n. sp. aff. *T. coccineum* Hughes, but barren)
 7218 *Cordia acuta* Pittier
 7383 *Viburnum pichinchense* Benth.
 7898 *Weinmannia balbisiana* H. B. K. (= *W. lamprophylla* Diels)
 8018 *Cordia acuta* Pittier
 8133 *Hypoxis decumbens* L.
 8208 *Rhipsalis roseana* Berger
 8286 *Weinmannia caucana* Killip, rather than *W. lamprophylla*.
 8548 *Cordia riparia* H. B. K.
 8689 *Aeschynomene hispidula* H. B. K.
 8832 *Psychotria anomothyrsa* Schum. & D. Sm.
 9027 *Passiflora tiliaefolia* L.
 9078 " "
 9315 *Piper pinaresanum* Trelease
 9534 *Echeveria subspicata* (Baker) E. Morr. (Det. by Dr. J. N. Rose)
 9625 *Passiflora tiliaefolia* L.
 9632 *Dioscorea sericea* Knuth
 9720 *Passiflora mixta* L. f.
 9766 *Tropaeolum integrifolium* Hughes
 10128 " *chrysanthum* Pl. & Lind.?
 10254 *Cordia riparia* H. B. K.
 10256 " " "
 10307 " " "
 10310 " *acuta* Pittier
 10112 " " "
 10451 *Tropaeolum lehmannii* Hughes (barren)
 10537 *Weinmannia fagaroides* H. B. K., rather than *W. microphylla*
 10580 *Nertera depressa* Banks & Sol.
 10672 *Cordia acuta* Pittier
 10673 " " "
 10674 " *riparia* H. B. K.
 10771 " " "
 10881 " *lanceolata* (Desv.) H. B. K.
 10893 " *riparia* H. B. K.

- Du 10911 *Cordia acuta* Pittier
 o 11006 *Passiflora tiliacifolia* L.
 — 11025 *Cordia lanceolata* (Desv.) H. B. K.
 Du 11190 " *riparia* H. B. K.
 " 11206 *Viburnum cornifolium* Killip & Smith
 " 11648 " " " (type)
 o 11977 *Hypericum mexicanum* L.
 Du 12078 *Cordia globosa* (Jacq.) H. B. K.

None of these at G. H.

8

Pennell-Killip Piper, omitted from earlier list.

6279. *P. agantheanum*, n. sp.
 7264. *P. nitidissimum*, n. sp.
 7374. *P. albo-fustis*, n. sp.
 7688. *P. lentifolium*, n. sp.
 7775. *P. lentifolium*, n. sp.

EPILOBIUM, COLLECTED BY P. W. PENNELL, IDENTIFIED BY G. SAMUELSON

COLOMBIA

- 2642 - *E. meridense* Hausskn.
 2953 " "
 ✓ 7149 " "
 ✓ 9347 " "
 ✓ 9969 " "
 ✓ 10566 " "

VIII. XYRIS (cont.)

Pennell & Killip

- ✓ 5303. *X. jupicai brachylepis* Malme, var. nov.
- ✓ 5316. *X. jupicai* L. C. Rich.
- ✓ 6268. *X. macrocephala* Vahl
- ✓ 7201. *X.* "
- ✓ 7266. *Xyris* (flowers imperfect)

VI. COLLECTIONS OF PENNELL KILLIP & HAZEN IN COLOMBIA 1922

- ✓ 5029 *Miconia acuminifera* Triana
- ✓ 5068 " *barbinervis* (Benth.) Triana
- ✓ 5126 " sp.
- ✓ 5536 " *rubiginosa* (Bonpl.) DC.
- ✓ 5539 " " " "
- ✓ 5696 " *acuminifera* Triana
- ✓ 5808 " *penicillata* Gleason, n.sp.
- ✓ 5983 " *pileata* (Sch. & Mart.) DC. var. *latifolia* Cogn.
- ✓ 5986 " " " " " "
- ✓ 6098 " *aeruginosa* Naud.
- ✓ 6302 " *dodecandra* Cogn.
- ✓ 6319 " *stenostachya* (Schr. & Mart.) DC.

Pennell Killip Hazen 5124, not identified, probably not *Miconia*

Pennell et al.

- ✓ 11685 *Miconia rupicola* Gleason, n.sp.
- ✓ 11772 " sp.
- ✓ 11805 " sp.
- ✓ 12109 " *cardiophylla* Cogn.
- ✓ 9238 " sp.
- ✓ 7530 " sp.
- ✓ 10502 " sp.
- ✓ 7771 " sp.
- ✓ 5286 " *barbinervis* (Benth.) Triana
- 8893 *Ossaea micrantha* (Sw.) Macf.
- ✓ 5570 " " " "
- ✓ 5120 " *grandifolia* Gleason, n.sp.
- ✓ 6708 *Meriania* ~~sp.~~ *splendens* Triana
- ✓ 7797 Sterile, unidentifiable
- ✓ 7502 " "
- ✓ 8912 *Leandra subseriata* (Triana) Cogn.
- ✓ 7930 *Amphitoma flavescens* Gleason, n.gen. & sp.
- ✓ 11884 " " "

Recent South American Collections; identifications by R. E. Woodson, Jr.

- Pennell-Killip 5406. *Mandilla mollissima fendleri* (Muell. Arg.) Woodson
- ✓ 7151. *Phaeostemma tigrina* Woodson (Type)
- ✓ 10783. *Mandevilla mollissima fendleri* (Muell. Arg.) Woodson
- ✓ 10820. " " "
- ✓ 10884. *Mesechites brevipes* (Benth.) Muell. Arg.
- ✓ 11602. *Mandevilla mollissima fendleri* (Muell. Arg.) Woodson
- ✓ 11775. " *hirsuta* (Rich.) K. Sch.

not found in bundle

PENNELL--KILLIP

- ✓5973. *Banara guianensis* Aubl.
- ✓6244. *Epiphyllum oxypetalum* (DC.) Haw.
- ✓6298. *Vismia dealbata* H.B.K.
- ✓6386. *Freziera sericea chrysophylla* (H.B.K.) Hieron.
- ✓6515. *Colignonia ovalifolia* Heimerl (det. Standley)
- ✓6685. *Begonia hederacea* A. DC.
- ✓6948. *Begonia columnaris* Benth.
- ✓6949. *Begonia urticae* L. f.
- ✓7286. *Begonia urticae* L. f.
- ✓7454. *Laplacea intermedia* Benth.
- ✓7612. *Begonia maurandiae* A. DC.
- ✓7722. *Begonia glabra* Aubl.
- ✓7916. " " "
- ✓8035. " *foliosa* H.B.K.
- ✓8146. *Vismia rufescens* (Lam.) Pers.
- ✓8218. *Begonia palustris* Benth.
- ✓8347. *Carica goudotiana* Planch. & Tr.
- ✓8972. *Begonia holtonis* A. DC.
- ✓9165. " *umbellata* H.B.K.
- ✓9338. " " "
- ✓9339. " *maurandiae* A. DC.
- ✓9348. " *urticae* L. f.
- ✓9356. " *maurandiae* A. DC.
- ✓9773. " *umbellata* H.B.K.
- ✓9777. " *urticae* L. f.
- ✓11394. *Burmeistera xerampelina* Wimmer (type)
- ✓11439. *Begonia lanuginosa* A. DC.
- ✓11734. *Vismia rufescens* (Lam.) Pers.
- ✓11999. *Lemaireocereus griseus* (Haw.) B. & R.

PENNELL & KILLIP -- Colombia

det. Standley

- ✓6699. *Alternanthera lanceolata* (Benth.) Standl.
- ✓7184. " " " "
- ✓7195. " *elongata* (Willd.) Standl.
- ✓8735. " *microcephala* var. *laticeps* Standl.
- ✓9143. " *lanceolata* (Benth.) Standl.
- ✓9705. " " " "
- ✓11068. " *pungens* H.B.K.
- ✓11391. *Psychotria hartwegiana* Standl.

Pennell, Killip & Hazen.

- ✓5598. *Siparuna pennellii* Perkins
- ✓6517. *Aplopappus caucanus* Blake. Type.
- ✓6682. *Loasa puracensis* Killip. Type.
- ✓6928. *Diasterigma leiopodandrum* Blake. Type.
- ✓6986. *Aplopappus caucanus* Blake
- ✓7292. *Siparuna killipii* Perkins
- ✓7489. *Diplostephium floribundum* (Benth.) Wedd.
- ✓8174. *Paspalum cordatum* Hack. (Not *P. pectinatum*; northernmost record)
- ✓9053. *Siparuna pennellii* Perkins
- ✓9113. " *killipii* Perkins
- ✓10791. *Meibomia caripensis* (H. B. K.) Kuntze (Not *M. orizabana*) (Det. Schindler.)
- ✓6969. *Diplostephium floribundum* (Benth.) Wedd.
- ✓6929. *Habenia antigonorrhoea* Gilg
- ✓7052. " *verticillata* Gilg
- ✓7154. *Habenia brevicornis* (H. B. K.) Don.
- ✓8299. *Lephaimes aphylla* (Jacq.) Gilg
- ✓9841. *Habenia Tolimae* Gilg
- ✓9838. *Gentiana dasyantha* Gilg
- ✓9863. " *nummularifolia* Griseb.
- ✓10574. " *solidagoides* Reim., nov. sp. (Type)

DIOSCOREA

Pennell-Killip, Colombia.

(Det. R. Knuth)

- 6136. *D. coriacea* H. & B.
- ✓ 6641. " *polygonoides martinicensis* (Spreng.) R. Knuth
- ✓ 7536. " *cañensis* R. Knuth (type)
- 8520. " *polygonoides* H. & B.
- ✓ 8560. " *martensis* R. Knuth
- ✓ 8756. " "
- 9632. " *biplicata* R. Knuth
- ✓ 9731. " *sericea* R. Knuth
- 11858. " *polygonoides* H. & B.
- ✓ 11867. " *larecajensis* Uline

F. W. PENNELL- COLOMBIA

- 72. *Polygala macerrima* Blake
- 75. *Commelina elegans* H. B. K.
- 468. *Bidens pilosa* L.
- 619. *Daucus montanus* Willd.
- 647. *Bidens shrevei* Britton
- 896. *Miconia stipularis* Nand.
- 915. *Euphorbia godotii* Boiss.
- 946. *Sanicula liberta* C. & S.
- 1025. *Eryngium ebracteatum* Lam.
- 1574. *Commelina longicaulis* Jacq.
- 1799. *Tinantia erecta* (Jacq.) Schlecht.
- 2219. *Eryngium stellatum* Mutis
- 2292. *Siegesbeckia cordifolia* H. B. K.
- 2295. *Daucus montanus* Willd.
- 2507. *Minthostachys mollis* (H. B. K.) Epl.
- 2690. *Meibomia campyloclada* (Hemsl.) Kuntze
- 2723. *Evolvulus villosus* R. & P.
- 2746. *Commelina elegans* H. B. K.
- 2876. *Evolvulus holosericeus* H. B. K.
- 3012. *Azorella aretoides* Willd.
- 3170. *Daucus montanus* Willd.
- 3205. *Eryngium foetidum* L.
- 3212. *Sanicula liberta* C. & S.
- 3534. *Polygala Macerrima* Blake
- 3677. *Polygala macerrima* Blake (Type)
- 4063. *Eryngium foetidum* L.
- 4308. *Niphogeton ternatum* (Schlecht.) Rose
- 4738. *Securidaca scandens* Jacq.

Are there at S.H.?

- ✓ 6247 *Rhynchanthera Hookeri* Naud.
- 6287 *Tibouchina Lindeniana* Cogn.
- ✓ 6288 " *longifolia* (Vahl) Baill.
- 6289 " *ciliaris* (Vent.) Cogn.
- ✓ 6295 *Glidemia rubra* (Aubl.) Mart.
- ✓ 6299 *Monochaetum lineatum* (D. Don) Naud.
- 6315 *Tibouchina longifolia* (Vahl) Baill.
- ✓ 6325 *Meriania speciosa* (Bonpl.) Naud.
- 6341 *Monochaetum Bonplandii* (Kunth) Naud.
- 6346 *Blakea Pyxidanthus* Triana
- ✓ 6365 *Tibouchina Lindeniana* Cogn.
- ✓ 6366 " *ciliaris* (Vent.) Cogn.
- ✓ 6372 *Monochaetum Bonplandii* (Kunth) Naud.
- ✓ 6426 *Tibouchina mollis* (Bonpl.) Cogn.
- ✓ 6454 *Monochaetum lineatum* (D. Don) Naud.
- 6458 " *Bonplandii* (Kunth) Naud.
- ✓ 6506 *Axinaea macrophylla* (Naud.) Triana
- ✓ 6550 *Purpurella reticulata* (Bonpl.) Naud.
- ✓ 6604 *Tibouchina mollis* (Bonpl.) Cogn.
- ✓ 6773 *Purpurella reticulata* (Bonpl.) Naud.
- ✓ 6798 *Axinaea macrophylla* (Naud.) Triana
- ✓ 7087 *Brachyotum canescens* (Aubl.) Triana
- ✓ 7090 *Purpurella reticulata* (Bonpl.) Naud.
- 7112 *Axinaea macrophylla* (Naud.) Triana
- 7228 *Tibouchina longifolia* (Vahl) Baill.
- ✓ 7432 " *mollis* (Bonpl.) Cogn.
- ✓ 7662 *Monochaetum multiflorum* (Bonpl.) Naud.
- ✓ 7685 *Leandra dichotoma* (Pav.) Cogn.
- ✓ 7791 *Heterotrichum polyandrum* (Benth.) Gleason
- ✓ 7914 *Blakea Pyxidanthus* Triana
- ✓ 8007 *Killipia quadrangularis* Gleason, n. gen. & sp.
- ✓ 8100 *Tibouchina Lindeniana* Cogn.
- ✓ 8128 " *ciliaris* (Vent.) Cogn.
- ✓ 8144 *Glidemia rubra* (Aubl.) Mart.
- ✓ 8154 *Tibouchina gracilis* (Bonpl.) Cogn.
- ✓ 8224 *Meriania speciosa* (Bonpl.) Naud.
- ✓ 8235 *Rhynchanthera Hookeri* Naud.
- ✓ 8251 *Tibouchina Lindeniana* Cogn.
- ✓ 8324 *Glidemia dependens* D. Don
- ✓ 8510 *Tibouchina longifolia* (Vahl) Baill.
- ✓ 8634 *Arthrostenma campanulare* (Naud.) Triana
- ✓ 8712 *Leandra subseriata* (Triana) Cogn.
- ✓ 8752 *Monochaetum multiflorum* (Bonpl.) Naud.
- ✓ 8887 " "
- ✓ 9032 *Tibouchina lepidota* (Bonpl.) Baill.
- ✓ 9158 *Monochaetum Lindenianum* Naud.
- ✓ 9171 " "
- ✓ 9385 *Centronia mutabilis* Gleason, n. sp.
- ✓ 9474 *Axinaea floribunda* (Naud.) Triana
- ✓ 9545 *Tibouchina paleacea* (Triana) Cogn.
- ✓ 9689 *Centronia mutabilis* Gleason, n. sp.
- ✓ 9990 *Brachyotum Lindenii* Cogn.
- ✓ 10127 *Oseaea micrantha* (Sw.) Macf.
- ✓ 10155 *Tibouchina lepidota* (Bonpl.) Baill.
- ✓ 10519 *Purpurella grossa* (L.) Triana
- 10721 *Monochaetum multiflorum* (Bonpl.) Naud.
- ✓ 10742 *Blakea brachyura* Gleason, n. sp.
- ✓ 10897 *Tibouchina longifolia* (Vahl) Baill.
- ✓ 10902 " "

- ✓ 6333 *Miconia theaezans* (Bonpl.) DC.
 ✓ 6338 " *caudata* (Bonpl.) DC.
 ✓ 6382 " *notabilis* Triana
 ✓ 6390 " *caudata* (Bonpl.) DC.
 ✓ 6394 " *desmantha* Benth.
 ✓ 6774 " *setinodis* (Bonpl.) DC.
 ✓ 6813 " *versicolor* Naud.
 ✓ 6830 " *theaezans* (Bonpl.) DC.
 ✓ 7106 " *orchectoma* Naud.
 ✓ 7428 " *sp.*
 ✓ 7434 " *Gladonia Gleason, n.sp.*
 ✓ 7435 " *theaezans* (Bonpl.) DC.
 ✓ 7498 " *Gladonia Gleason*
 ✓ 7528 " *elaeoides* Naud.
 ✓ 7529 " *Gladonia Gleason*
 ✓ 7544 " " "
 ✓ 7577 " *Pennellii Gleason, n.sp.*
 ✓ 7926 " *Ruizii* Naud.
 ✓ 7927 " " "
 ✓ 7936 " *minica Gleason, n.sp.*
 ✓ 7951 " *Pennellii Gleason*
 ✓ 7969 " *sp.*
 ✓ 7981 " *sp.*
 ✓ 7982 " *stipularis* Naud.
 ✓ 8158 " *aeruginosa* Naud.
 ✓ 8225 " *albicans* (Sw.) Triana
 ✓ 8672 " *aeruginosa* Naud.
 ✓ 8792 " *acuminifera* Triana
 ✓ 8803 " *sp.*
 ✓ 9011 " *longifolia* DC.
 ✓ 9221 " *elaeoides* Naud.
 ✓ 9302 " *turgida Gleason, n. sp.*
 ✓ 9366 " *elaeoides* Naud.
 ✓ 9456 " *polyneura* Triana
 ✓ 9548 " *versicolor* Naud.
 ✓ 10046 " *andina* Naud.
 ✓ 10136 " *sp.*
 ✓ 10163 " *aeruginosa* Naud.
 ✓ 10398 " *sp.*
 ✓ 10399 " *sp.*
 ✓ 10457 " *stipularis* Naud.
 ✓ 10503 " *imbricata Gleason, n.sp.*
 ✓ 10504 " *subalpina Gleason, n.sp.*
 ✓ 10520 " *sp.*
 ✓ 10726 " *lonchophylla* Naud.
 ✓ 10738 " *aeruginosa* Naud.
 ✓ 10886 " *stenostachya* (Schr. & Mart.) DC.
 ✓ 10887 " *spicellata* Bonpl.
 ✓ 10896 " *mollicula* Triana (ex char.)
 ✓ 10904 " *spicellata* Bonpl.
 ✓ 10926 " *stenostachya* (Schr. & Mart.) DC.
 ✓ 10969 " *dodecandra* Cogn.
 ✓ 11248 " *coronata* (Bonpl.) DC.
 ✓ 11333 " *longifolia* (Aubl.) DC.
 ✓ 11415 " *Killipi Gleason, n.sp.*
 11454 " *sp. Heterostichum polyandrum* (Benth.) Gleason

IV. RIBES
(Det. A. Berger)

Pennell, Killip, & Hazen

- ✓9379. *Ribes lindenii* Jancz.
✓9909. *Ribes albiflorum* R. & P.?

Pennell - Colombia 1917

1980. *Meibomia campyloclada* (Hemsl.) Kuntze (not *M. sylvestris*)

Pennell & Killip

- ✓5460. *Meibomia aparine* (Link) Lindl. (not *M. uncinata*)
✓5976. *Nephromeria poeppigiana* Schindl. (not *M. brotalam*)
○ 7854. " " " " "
○ 8049. *Meibomia caripensis* (H.B.K.) Kuntze (not *M. orizaba*)
○ 8503. " *sinclairii* (Benth.) Schindl. (not *uncinata*)
✓8885. " *campyloclada* (Hemsl.) Kuntze (" *M. sylvestris*)
○ 9552. " " " " "
✓10729. " *caripensis* (H.B.K.) Kuntze (not *M. orizabana*)
○ 10791. " " " " "
✓10806. *Desmodium frutescens* (Jacq.) Schindl. (not *M. supina*)
○ 10864. ~~*Meibomia*~~ *Desmodium affine* Schlecht. (not *M. albiflora*)

Pennell - 1917.

2184. *P. coerulea* (L. f.) Macbr.
2215. " "

Pennell & Killip

- 6881. *P. coerulea* (L.f.) Macbr.

VI. Phaseolineae

(Det. C. V. Piper)

Rusby & Pennell and Pennell, 1917.

1522. *Phaseolus peduncularis* H.B.K.
1642. " *linearis* H.B.K.
3793. " *appendiculatus* Benth.

Pennell, Killip, and Hazen

- ✓5428. *Phaseolus vestitus* Hook.
✓6211. *Vigna repens* (L.) Kuntze
✓6842. *Phaseolus flavescens* Piper
✓7191. " *speciosus* H.B.K.
✓7646. " *flavescens* Piper
✓8247. *Vigna repens* (L.) Kuntze
✓8328. *Phaseolus hirsutus* Mart.
✓9602. " *flavescens* Piper
✓9662. " *speciosus* H.B.K.
✓10334. " *flavescens* Piper TYPE.
Salazar 10. *Vigna aristata* Piper TYPE.

Miconia ceramicarpa (DC.) Cogn. 983, 1523, 1969, 2454, 2935, 3204, 3684, 3866,
 4038, 4450
alata (Aubl.) DC. 2312
rubiginosa (Bonpl.) DC. 1993, 2562, 2756
ambigua (Bonpl.) DC. ~~3042~~ 3043
minutiflora (Bonpl.) DC. 1628, 1757, 1807, 2158, 2184, 2561, 4220
chrysophylla (L.C.Rich.) Urb. 2441, 3832, 3956, 4484
hypoleuca (Benth.) Triana 4465
ciliata (L.C.Rich.) DC. 1909, 2012, 2038, 2159, 2559, 2757, 2951,
 3171, 3534, 3671, 4065
argyrophylla DC. 2052, 2306
lepidota DC. 2452, 4212, 4385
Plukenetii Naud. 3600
racemosa (Aubl.) DC. 1968, 2253, 2296, 2495, 2627, 2769, 2878,
 3055, 3954

IX. SPECIMENS STILL AWAITING CONSIDERATION

Killip 11805 *Conostegia*
 Gleason 623, La Cruz 2163, 2484, 2494, probably *Leandra*
 Pittier 9249 Probably *Monochaetum*
 Hitchcock 20531, 21203 Probably *Tibouchina*
 Killip 7690, 7925 Probably *Tibouchina*
 Pennell 10963

NOTE: Descriptions of the new species listed in this and the preceding
 list are expected to appear in the Bulletin of the Torrey Club for June.

Pennell & Killip, Colombia

B. = *Becleria*
 11159, 5774. *Becleria nitens* Fritsch
 11626, 5875, 5891. *B. vestita* Fritsch
 7394. *B. reticulata* Fritsch
 7686. *B. leucocarpa* Morton (type)
 7779, 7887. *B. villosa* Fritsch?
 7900, 9066. *B. acutifolia* Benth.
 7996. *B. riparia* Morton
 8798. *B. tinctoria* Morton (type)
 8923, 8870. *B. leucocarpa* Morton (Det. Morton)
 10412. *B. nubigena* Morton (type)
 10741. *B. microphylla* Fritsch
 11608. *B. decipiens* Morton (type)
 12132. *B. angustifolia* Fritsch

Pennell & Killip

- 6706. *Dendrophthora clavata* (Benth.) Urban
 ○ 7884. *Columnnea lehmannii* Mansf. (Det. Morton)
 ○ 7996. *Besleria ventricosa* Morton Cotype (previously reported as *B. riparia* Morton in error)
 8512, 8586, 9634, 11449, 11450. *Heliconia latispatha* Benth. (Det. Griggs)
 8719, 8784, 8831, 10125, *Heliconia revoluta* (Griggs) Standl. (" ")
 - 8903. *Browallia speciosa* Hook. (Det. Morton)
 ○ 8973, " " " " "
 ○ 9433. *Dendrophthora squamigera* (Benth.) Kuntze
 - 9658. *Heliconia mutisiana* Cuatr. (not *H. robusta*)
 9770. *Tournefortia hookeriana* Moq. (not *Ullucus tuberosus*)
 - 9788. *Dendrophthora squamigera* (Benth.) Kuntze
 ○ 9789. " *clavata* (Benth.) Urban
 9796. *Eucalyptus globulus* Labill. (juvenile foliage; det. Walther)
 9824. *Lupinus microphyllus* Desr. (Det. C. P. Smith)
 9833. " *bryoides* C. P. Smith " " "
 9991. *Alchemilla pinnata* R. & P. (Det. Leonard)
 10039. *Cerastium trianae* Briq. (Reported as *C. caespitosum* Tr. & Planch.; not of Gilib)
 - 10275. *Dichorisandra hexandra* (Aubl.) Standl.
 ○ 10397. *Leandra nervosa* (Tr.) Cogn. or perhaps *lehmannii* (Det. Gleason)
 10452. *Saurauia spinuligera* R. E. Schultes (type)
 10555. *Carex bonplandii* var. *angustifolia* Boott
 - 11396. *Mezobromelia bicolor* L. B. Smith (type of genus and species)

Basell.

Pennell-Killip

Hydrocotyle

Det. Mathias

- o 8960. H. pusilla A. Rich.
- 9673. H. umbellata L.
- 2 ✓ 9226, H. hederacea Mathias (type)
- o 9778. H. "
- ✓ 7204. H. bonplandii truncatiloba (Urb.) Mathias
- ✓ 11513. H. " "
- ✓ 6326, H. " "
- ✓ 11192. H. " "
- ✓ 5388. H. " "
- 2 ✓ 5292. H. " "
- 2 ✓ 5143. H. " "
- ✓ 8948. H. " "
- ✓ 8707. H. " "
- ✓ 9746. H. " "
- ✓ 6555. H. " glabra Mathias (type)
- ✓ 6541. H. " "
- ✓ 5557. H. " "

Ferns; det W.R. Maxon (Current Collections)

Pennell, Killip & Hazen 5684. *Cyathea petiolata* Karst.
9496. " *corallifera* Sod.
9622. " *crassipes* Sod.
9693. " *corallifera* Sod.
11392. " *petiolulata* Karst.

Pennell, Killip & Hazen

5934. *Asplenium raddianum* Gaud.
7711. " "
8994. " "

Pennell & Killip - Colombia

5310. *Tradescantia cumanensis* Kunth (Det. Morton; not *T. elongata*)
8447. *Dioclea lehmanni* Diels (not *D. guianensis*)
8466. " " " " "
11605. *Guatteria latisepala* Fries (Cited by Fries)

Pennell's Colombian plants to be reported.

1375 Mikania caudata Benth.
2173 " laurifolia (L. f.) Willd.
2400 " " " "

Pennell Colombia

4400 *Polypodium semihirsutum* Kl.

4552 *Vittaria lineata* (L.) Sm.

2596 " *Ruiziana Fée*

Nos. not reported (det. by C. A. W.)

Pennell



Pennell, Francis W. et al. 1917. "[Untitled] (Colombia, dated and undated fragments)." *Plant lists : Chile, Colombia, Ecuador, and Peru*

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