

ASSIGNMENT OF FIRST SETS OF FAMILIES OF COLOMBIAN COLLECTION

OF PENNELL, KILLIP, AND HAZEN, 1922

Please notify Dr. F. W. Pennell, Academy of Natural Sciences, Logan Circle, Philadelphia, of all identifications, especially in those families to which your institution was given preference. He will notify the other institutions.

ABBREVIATIONS OF INSTITUTIONS

A - Academy of Natural Sciences, Philadelphia

H - Gray Herbarium of Harvard University, Cambridge, Mass.

U - United States National Museum, Washington, D.C.

Y - New York Botanical Garden, Bronx Park, New York City

FAMILIES

BRYOPHYTA	- Y	DICOTYLEDONES			
PTERIDOPHYTA	- U	(ARCHICHLAMYDEAE)			
(exc. Isoetaceae A)		Piperaceae	- H	Crassulaceae	- U
MONOCOTYLEDONES		Myricaceae	- A	Saxifragaceae	Y
Poaceae	- U	Fagaceae	- H	(exc. <u>Escallonia</u> U)	
Cyperaceae	- Y	Moraceae	- H	Rosaceae	Y
Palmaeae	- U	Urticaceae	U	Mimosaceae	Y
Cyclanthaceae	- U	Proteaceae	- H	Caesalpiniaceae	U
Araceae	- Y	Loranthaceae	- H	Fabaceae	U
Xyridaceae	- Y	Polygonaceae	- Y	(exc. Psoraleae Y)	
Eriocaulaceae	U	Chenopodiaceae	- U	Geraniaceae	- Y
Bromeliaceae	H	Amarantaceae	U	Oxalidaceae	Y
Commelinaceae	A	Nyctaginaceae	U	Tropaeolaceae	Y
Juncaceae	- U	Phytolaccaceae	U	Erythroxylaceae	Y
Amaryllidaceae	- U	Portulacaceae	U	Zygophyllaceae	Y
Dioscoreaceae	H	Basellaceae	U	Rutaceae	Y
Iridaceae	Y	Caryophyllaceae	U	Simarubaceae	Y
Musaceae	- U	Ranunculaceae	H	Meliaceae	Y
Zingiberaceae	Y	Menispermaceae	Y	Malpighiaceae	Y
Cannaceae	Y	Anonaceae	U	Polygalaceae	U
Marantaceae	Y	Monimiaceae	Y	Euphorbiaceae	A
Burmanniaceae	H	Lauraceae	Y	Anacardiaceae	- H
Orchidaceae	H*	Brassicaceae	A	Aquifoliaceae	H
		Capparidaceae	H	Celastraceae	H
				Sapindaceae	H
				Rhamnaceae	H
				Vitaceae	H
				Tiliaceae	- Y
				Malvaceae	U
				Bombacaceae	U
				Sterculiaceae	U
				Ochnaceae	Y
				Marcgraviaceae	H
				Clusiaceae	Y
				Hypericaceae	A
				Violaceae	U
				(exc. <u>Viola</u> H)	
				Flacourtiaceae	Y
				Turneraceae	U
				Passifloraceae	U
				Caricaceae	U
				Loasaceae	Y
				Begoniaceae	Y
				Cactaceae	U
				Lythraceae	H
				Myrtaceae	Y
				Melastomaceae	Y
				Onagraceae	Y
				(exc. <u>Fuchsia</u> H)	
				Apiaceae	U

H* = Prof. Ames,
Harvard University

(METACHLAMYDEAE)

Clethraceae	- Y	Convolvulaceae	- A	Plantaginaceae	- A	Asteraceae	
Ericaceae	Y	Hydrophyllaceae	A			-Vernonieae	- Y
		Boraginaceae	H	Rubiaceae	- U	Eupatorieae	H
Myrsinaceae	- Y	Cordiaceae	H	Caprifoliaceae	H	Astereae	U
		Verbenaceae	H	Valerianaceae	U	Inuleae	U
Sapotaceae	- U	Menthaceae	A			Heliantheae	U
Styraceae	Y	Solanaceae	A	Cucurbitaceae	- Y	Helenieae	U
		Scrophulariaceae	A	Lobeliaceae	Y	Anthemideae	U
Loganiaceae	- A	Bignoniaceae	A			Senecioneae	U
Gentianaceae	A	Gesneriaceae	A			Mutisieae	U
Apocynaceae	A	Lentibulariaceae	Y			Cichorieae	U
Asclepiadaceae	A	Acanthaceae	A				

The attempt has been made to make an equable division of preferences, under the following provisions:

- a) Special groups to be sent to the institutions most accessible to specialists studying them. (Slight exception has been made in order to provide a reasonably proportionate representation to A and H, but it assumed that any specimens will be freely loaned.)

Where otherwise no preference, further assignment has been determined thus:

- b) Paramo and cool forest plants to A
- c) Trees and shrubby plants to H (because of nearby Arnold Arboretum)
- d) Economic families to U (because of U. S. Dept. Agriculture)
- e) Tropical lowland plants to Y

EXPENSES OF PREPARATION OF COLOMBIAN COLLECTION OF 1922

Balance remaining unpaid on expense of Exploration in Colombia (see Account previously rendered)	\$ 16.08
Testing aneroid barameter - to U. S. Bureau of Standards	3.75
Expressage on incoming material - 14 N 1922 from New York Bot. Gard.	7.12
12 D " from U. S. Nat. Museum	2.80
✓ 6 Ja 1923 from New York Bot. Gard.	4.28
5 Mr " from U. S. Nat. Museum	<u>.53</u>
	14.73
Record-book	.89
Printing labels - to Tremont Printing Co., New York City	120.00
Carbon sheets used in typing labels - to Pomerantz, Philadelphia	3.00
Paper pads for floral descriptions - to Hoskins, Philadelphia	.45
Sheathing board for packing bundles of specimens - 1/2 order to Garrett (C. S. Garrett & Son, Phila.)	5.66
Distributing paper - 1/2 order to D. L. Ward Co., Philadelphia	18.42
Envelopes for seed and flower-pockets	2.25
Additional helper - boy 23 hrs. @ \$ 0.20	4.60
20 boxes for shipment of specimens @ \$ 0.40	<u>8.00</u>
TOTAL SPENT -	197.83

If this expense is borne equally by the four cooperating institutions
each institution should forward to Dr. Francis W. Pennell - \$ 49.46

It is not expected that there will be any further expenses connected with the
handling of the specimens of this expedition.

There still remains outstanding , May 1923, fifty dollars Colombian (\$50.00)
promised to be paid last November by Sr. Alfonso Tobon, Bogota, Colombia, who was our
host in August at his estate of "Alaska" above Salento, Caldas, Colombia. I am
surprised not to have heard from Sr. Tobon, and fear that the account will not be paid.
Sr. Tobon, who is a nephew of the President of Colombia, purchased our mules and
various articles enabling us to close our enterprise easily and speedily. (At present,
this is charged to my personal account.)

NUMBER OF SPECIMENS SENT TO EACH INSTITUTION

For Collections from 5,000 to 11,000
(6,000 collections)

	<u>A</u>	<u>H</u>	<u>U</u>	<u>Y</u>
Distributed May, 1923 -	3727	3458	4323	3773
*Additional, to be sent later -	<u>396</u>	<u>529</u>	<u>232</u>	<u>430</u>
TOTAL ASSIGNMENT -	4123	3987	4555	4203
Adding to <u>H</u> Orchidaceae sent to Prof. Ames -		<u>414</u>		
(Total to Cambridge, Mass.)		- 4401		

* Additional specimens referred to, are collections distributed without division to one institution, with the understanding that students at that institution will divide them into sets and return duplicates to Dr. Pennell for distribution to all the institutions.

In addition to the above series there are further duplicates of certain numbers, for which the following assignment is suggested. As the time-consuming task of sorting and labeling the collection has been carried on at the Academy of Natural Sciences, it is hoped that these may be counted exchanges from that institution.

Berlin Botanical Gardens, Germany	- 459
Prof. Briquet, Geneva, Switzerland	- 57
Royal Gardens, Kew, England	- 599
Museum, Vienna, Austria	- 108

All the figures of this page will be increased, when the remaining 1,000 collection-numbers have been labeled and distributed.

REMAINDER OF SPECIMENS SENT TO EACH INSTITUTION

For Collections from 11,000 to 12,138

	A	H	U	Y
Already distributed	3727	3458	4323	3773
Present sending	<u>547</u>	<u>535</u>	<u>700</u>	<u>741</u>
TOTAL	4274	3993	5023	4514

*Additional, to be sent later

Already listed	396	529	232	430
Now listed	<u>207</u>	<u>215</u>	<u>158</u>	<u>65</u>
COMPLETE ASSIGNMENT	4877	4737	5413	5009

Adding to H
Orchidaceae sent to
Prof. Ames

520
5257

Labels will be supplied in July for # 11821 - 11837

(Typed, but inadvertently omitted in packages)

Effort was made to make assignments as even as possible, but it has been difficult to calculate in advance what would be the result of such an assignment by families. U's share necessarily large because of first choice for a number of largest groups, ferns, grasses and most Composites.

Plants collected in southeastern Colombia by Dr. F. W. Pennell and others during the summer of 1922. Determined at the Gray Herbarium by

B. L. Robinson.

- 5015 *Ageratum conyzoides* L.
5187 *Eupatorium nemorosum* Klatt
5198 " *inulaefolium* HBK.
5201 " *laevigatum* Lam.
5285 *Mikania micrantha* HBK.
5335 *Tuberostylis Rhizophorae* Steetz
5341 *Eupatorium microstemon* Cass.
5386 " *morifolium* Mill.
5390 *Ageratum conyzoides* L.
5398 *Eupatorium iresinoides* HBK.
5452 *Eupatorium paezense* Hieron.
5455 " *inulaefolium* HBK.
5480 " *amygdalinum* L.
5512 " *tacotanum* Klatt
5645 " *odoratum* L.
5703 " *acuminatum* HBK.
5718 " " "
5892 *Mikania micrantha* HBK.
5903 *Eupatorium macrophyllum* L.
5996 " *tacotanum* Klatt, var. *trineurolepis* Robinson
6036 " *macrophyllum* L.
6070 *Mikania micrantha* HBK.
6086 *Eupatorium acuminatum* HBK.
6087 " *tacotanum* Klatt, var. *trineurolepis* Robinson
6097 " *inulaefolium* HBK.
6120 *Mikania sylvatica* Klatt 6251 *Trichogonia arguta* (HBK.) Benth. [& Hook. f.
6243 *Eupatorium macrophyllum* L.
6248 " *laevigatum* Lam.
6309 " *tacotanum* Klatt, var. *trineurolepis* Robinson
6318 " *laevigatum* Lam.
6321 " *amygdalinum* Lam.
6329 " *popayanense* Hieron.
6363 " *pauciflorum* HBK.
6375 *Mikania sylvatica* Klatt
6379 *Eupatorium popayanense* Hieron.
6407 *Stevia Lehmannii* Hieron.
6413 *Eupatorium tacotanum* Klatt, var. *trineurolepis* Robinson
6820 " *lamiifolium* HBK.
6841 " *guapulense* Klatt
6958 *Jungia ferruginea* L. f. ?
6967 *Eupatorium cotacachense* Hieron
7107 *Mikania rufa* Benth.
7170 *Stevia lucida* Lag.
7179 *Eupatorium mesoreopolum* Robinson
7214 " *nemorosum* Klatt
7235 " *acuminatum* HBK.
7238 " *fuliginosum* HBK.
7241 " *popayanense* Hieron.
7306 *Mikania miconioides* Robinson
7423 *Eupatorium arbutifolium* Benth.

- 7461 Mikania Stuebelii Hieron.
7488 Eupatorium tinifolium HBK.
7664 " guapulense Klatt.
7667 " popayanense Hieron.
7679 Adenostemma Lavenia (L.) Ktze.
7795 Eupatorium inulaefolium HBK., f. suaveolens (HBK.) Hieron.
7798 Mikania micrantha HBK.
7812 Ageratum latifolium Cav.
7814 Eupatorium acuminatum HBK.
7824 Mikania micrantha HBK.
7843 Eupatorium tubacense Hieron., var. ovatifolium Hieron.
7855 " nemorosum Klatt
7872 " acuminatum HBK.
7881 " inulaefolium HBK., f. suaveolens (HBK.) Hieron.
7954 Mikania Ruiziana Poepp.
8021 Ageratum latifolium Cav.
8022 Mikania sylvatica Klatt
8085 Ageratum latifolium Cav.
8091 Eupatorium popayanense Hieron.
8103 " amygdali^m Lam.
8140 Trichogonia arguta (HBK.) Benth. & Hook. f.
8159 Eupatorium inulaefolium HBK.
8161 Eupatorium tacotanum Klatt, var. trineurolepis Robinson
8252 Mikania sylvatica Klatt
8314 " micrantha HBK.
8315 Eupatorium laevigatum Lam.
8331 " fuliginosum HBK.
8349 " morifolium Mill.
8436 " " "
8490 Mikania micrantha HBK.
8519 Eupatorium inulaefolium HBK.
8533 " acuminatum HBK.
8638 Ageratum conyzoides L.
8703 Eupatorium nemorosum Klatt
8823 Mikania sylvatica Klatt
8893 Ageratum conyzoides L.
8894 Eupatorium Mayorii Robinson
8895 " " "
8904 " " "
8937 " guapulense Klatt
8970 " nemorosum Klatt
9106 " Stuebelii Hieron.
9145 " guapulense Klatt
9146 " Stuebelii Hieron.
9147 " Mayorii Robinson
9194 " guapulense Klatt
9207 " Stuebelii Hieron.
9208 " " "
9209 " mesoreopolum Robinson spec. nov.
9322 Mikania lloensis Hieron.
9365 " Stuebelii Hieron.
9583 Eupatorium iresinoides HBK.
9767 Piqueria callitricha Robinson
10423 Eupatorium amplum Benth. (pathological)
10426 " diplodictyon Robinson

- 10429 *Eupatorium popayanense* Hieron.
 10628 " *pycnocephalum* Less.
 10629 *Ageratum conyzoides* L.
 10630 *Eupatorium inulaefolium* HBK.
 10631 " *iresinoides* HBK.
 10716 " *inulaefolium* HBK.
 10761 *Ageratum conyzoides* L.
 10788 *Mikania micrantha* HBK.
 10848 *Eupatorium morifolium* Mill.
 10860 " *ballotaefolium* HBK., var. *caucense* Robinson
 10867 " *microstemon* Cass.
 10903 " *inulaefolium* HBK.
 10921 " *acuminatum* HBK.
 10928 " *popayanense* Hieron.
 10929 *Mikania micrantha* HBK.
 11017 *Eupatorium morifolium* Mill.
 11116 *Mikania Ruiziana* Poepp.
 11187 " *micrantha* HBK.
 11241 " *sylvatica* Klatt
 11435 *Adenostemma Lavenia* (L.) Ktze.
 11567 *Mikania psilostachya* DC.
 11633 *Eupatorium iresinoides* HBK.
 11691 *Adenostemma Lavenia* (L.) Ktze.
 11874 *Eupatorium inulaefolium* HBK.
 12110 " *laevigatum* Lam.

Supplementary List.

- 5197 *Eupatorium turbacense* Hieron., var. *ovatifolium* Hieron.
 5678 " *fuliginosum* HBK.
 6490 " *gracile* HBK.
 6630 *Mikania rufa* Benth.
 6666 *Eupatorium gracile* HBK.
 6865 " *ibaguense* Sch.-Bip.
 7180 " *Stuebelii* Hieron.
 7183 " *tequendamense* Hieron.
 7314 *Mikania nigropunctulata* Hieron.
 7342 " " "
 7344 *Eupatorium tequendamense* Hieron.
 7397 *Mikania Stuebelii* Hieron., var. *latifolia* Hieron.
 7420 " *nigropunctulata* Hieron., var. *denticulifolia* Robinson var. nov.
 7438 " *Stuebelii* Hieron.
 7439 " " "
 7473 *Eupatorium gracile* HBK.
 7650 " *Stuebelii* Hieron.
 7658 " *tequendamense* Hieron.
 7826 *Mikania micrantha* HBK. ? (too young)
 7858 " *macromulifera* Robinson spec. nov.
 8028 *Eupatorium ibaguense* Sch.-Bip.
 8062 *Mikania cordifolia* (L. f.) Willd.
 8195 *Eupatorium fuliginosum* HBK.
 8485 " *pycnocephalum* Less.
 8736 " *caldense* Robinson spec. nov.
 9025 " *fuliginosum* HBK.
 9188 " *phoenicticum* Robinson
 9455 *Mikania Stuebelii* Hieron.
 9608 " *cordifolia* (L. f.) Willd.
 11488 *Eupatorium Killipii* Robinson spec. nov.
 11994 " *Mayreri* Robinson

Plants collected in southeastern Colombia by Dr. F. F. Pennell and others
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B. L. Robinson

Supplementary List

- 5019 *Eupatorium pycnocephaloides* Robinson
5195 *Mikania Ruiziana* Poepp.
5293 *Eupatorium paesense* Hieron.
5788 *Mikania Ruiziana* Poepp.
6083 *Eupatorium pauciflorum* HBK.
6406 " *popayanense* Hieron.
6499 *Mikania granulata* Robinson
6626 " " " n. sp.
6776 " *Stuebelii* Hieron.
6823 " *Killipii* Robinson
7279 " *Stuebelii* Hieron.
7287 " *leiostachya* Benth., var. *irrasa* Robinson
7314 " *nigropunctulata* Hieron., var. *cryptodonta* Robinson
7342 " " " " " n. var.
7430 " " " " *phaenodonta* Robinson n. var.
7486 " *leiostachya* Benth., var. *irrasa* Robinson
7519 *Eupatorium scilacinum* HBK.
7858 *Mikania macromulifera* Robinson n. sp.
7894 " *nicayensis* Robinson n. sp.
7917 " *globulifera* Rusby ? (in part, as to inflor. Foliage with
this number is of an alternate-leaved shrub, possibly a
Tournefortia.)
8072 *Eupatorium pycnocephalum* Less., var. *caucanum* Robinson n. var.
8751 " *Pennellii* Robinson
8834 *Mikania sylvatica* Klatt
8877 " *leiostachya* Benth.
8905 *Eupatorium pycnocephalum* Less.
9112 *Mikania leiostachya* Benth., var. *irrasa* Robinson
9218 *Eupatorium pichinchense* HBK.
9208 *Mikania granulata* Robinson, var. *integra* Robinson n. var.
9264 " *caldasana* Robinson n. sp.
9419 *Eupatorium pichinchense* HBK.
9812 *Mikania leiostachya* Benth., var. *irrasa* Robinson
10424 *Eupatorium rhodopappum* Robinson n. sp.
10425 *Mikania leiostachya* Benth., var. *irrasa* Robinson
10529 *Eupatorium tinifolium* HBK.
10524 *Mikania Stuebelii* Hieron.

Correction

G. H. Copy

Plants collected in southeastern Colombia by F. W. Pennell and others
during the summer of 1922. Determined at the Gray Herbarium by

I. M. Johnston.

5376	<i>Heliotropium indicum</i> L.
5849	" <i>filiforme</i> HBK.
9515	<i>Hackelia revoluta</i> (R.&P.) Johnston
10078	<i>Moritzia Lindenii</i> (DC.) Benth.
10576	" " " "
10832	<i>Heliotropium indicum</i> L.
10987	" " "
11034	" " "
12020	" <i>curassavicum</i> L.
12035	" <i>indicum</i> L.
12036	" " "
12037	" <i>parviflorum</i> L.
12038	" <i>curassavicum</i> L.
12063	" <i>filiforme</i> HBK.
12079	" <i>curassavicum</i> L.

Supplementary List.

Plants collected in southeastern Colombia by F. W. Pennell and others during the summer of 1922. Determined at the Gray Herbarium by

I. M. Johnston.

- 5312 *Cecropia obtusa* Trev.?
5352 " " " ? (Leaf from young shoot)
5453 *Cuphea racemosa* (L. f.) Spreng.
5454 " *balsamona* L.
5508 " " "
5551 *Clematis floribunda* Trian. & Planch.
5577 *Marcgravia rectiflora* Trian. & Planch., var. *Gondotiana* Tri. & Plan.
5558 *Cissus sicyoides* L.
5959 *Hypoxis decumbens* L.
6094 *Vitis caribaea* DC.
6364 *Cuphea balsamona* L.
6460 *Fuchsia Hartwegi* Benth.
6463 *Clematis floribunda* Trian. & Planch.
6496 *Viola scandens* HBK.
6497 " " "
6502 *Fuchsia Hartwegi* Benth.
6582 " sp.
6669 " Pennelli Johnston n. sp.
6674 " *sessilifolia* Benth.
6788 *Cleome anomala* HBK.
6827 *Cissus trifoliata* L.
6829 *Fuchsia Hartwegi* Benth.
6875 *Cleome anomala* HBK.
6922 *Viola Humboldtii* Tri. & Planch.?
7004 *Fuchsia venusta* HBK. ?
7083 " Pennelli Johnston n. sp.
7094 " " " " "
7102 *Viburnum glabratum* HBK.
7111 *Fuchsia sessilifolia* Benth.
7134 *Clematis floribunda* Trian. & Planch.
7203 *Cuphea balsamona* L.
7244 *Quercus tolimensis* H. & B.
7291 *Viola stipularis* Sw.
7386 " " "
7445 " " "
7513 " *scandens* HBK.
7542 *Drimys Winteri* Forst.
7569 *Fuchsia sessilifolia* Benth.
7666 *Ranunculus praemorsus* DC.
7873 *Cecropia obtusa* Trev.
7874 " " "
7985 *Viola stipularis* Sw.
7992 *Fuchsia Hartwegi* Benth.
8042 *Cecropia*
8279 *Quercus tolimensis* H. & B.
8287 *Ranunculus praemorsus* DC.
8427 *Rotala ramosior* (L.) Koehne
8458 *Guazuma ulmifolia* Lam.
8479 *Cardiospermum microcarpum* HBK.
8514 *Vitis caribaea* DC.
8516 " " "

- 8568 *Cissus trifoliata* L.
 8639 *Cuphea balsamona* L.
 8640 " *racemosa* (L. f.) Spreng.
 8827 *Cecropia obtusa* Trev.
 8899 *Gynandropsis brachycarpa* DC.
 8936 *Cuphea racemosa* (L. f.) Spreng.
 8966 *Fuchsia atropurpurea* Johnston n. sp.
 9063 *Paullinia spicata* Benth.
 9141 *Fuchsia Pennelli* Johnston n. sp.
 9195 " " " " "
 9196 *Viola scandens* HBK.
 9181 *Quercus tolimensis* H. & B.
 9324 *Fuchsia Pennelli* Johnston n. sp.
 9381 " *venusta* HBK. ?
 9418 " *Pennelli* Johnston n. sp.
 9425 " " " " "
 9469 *Viola scandens* HBK.
 9493 *Fuchsia Pennelli* Johnston n. sp.
 9564 " *Hartwegi* Benth.
 9636 *Viburnum glabratum* HBK.
 9637 *Cissus sicyoides* L.
 9668 *Sambucus peruviana* HBK.
 9679 *Fuchsia Pennelli* Johnston n. sp.
 9683 *Viola scandens* HBK.
 10058 *Fuchsia venusta* HBK. ?
 10099 " *atropurpurea* Johnston n. sp.
 10114 *Bomarea*
 10144 *Fuchsia atropurpurea* Johnston n. sp.
 10270 *Vitis waribaea* DC.
 10313 *Fuchsia atropurpurea* Johnston n. sp.
 10396 *Viola stipularis* Sw.
 10483 " *scandens* HBK.
 10594 *Fuchsia corymbiflora* R. & P.
 10736 *Viola stipularis* Sw.
 10961 " " "
 10970 *Fuchsia corymbiflora* R. & P.
 11011 *Celtis iguanaea* (Jacq.) Sarg.
 11189 *Gouania tomentosa* Jacq.
 11191 *Cissus sicyoides* L.
 11890 *Viola scandens* HBK.
 11899 " " "

Feb. 25, 1926.

Plants of Colombia, 1923. F.W. Pennell et al.

Determined at the Gray Herbarium

- 10289 Hyptis
- 10663 Priva lappulacea (L.) Pers.
- 10668 Duranta repens L.
- 11616 Lippia geminata HBK.
- 12039 " reptans HBK.
- 12040 Priva lappulacea (L.) Pers.
- 12064 Lippia hemisphaerica Jacq.

Mailed def. list to F.W.P. Feb. 25, 1926

PENNELL & KILLIP, COLOMBIA

- o✓ 5261. *Geonoma cuneatoidea* Burret
✓ 7642. " *iodolepis* Burret
In ✓ 7644. *Chamaedorea* sp.
? - 8834. " *pinnatifrons* (Jacq.) Oerst. (cf.)
In ✓ 8187. *Geonoma dicranospadix* Burret (probably)
In ✓ 8266. *Ceroxylon* sp.
o✓ 8467. *Syagrus sancona* Karst. (probably)
In ✓ 8576. *Martinezia caryotifolia* H. B. K.
In ✓ 8787. *Geonoma dicranospadix* Burret
In ✓ 8788. *Chamaedorea pinnatifrons* (Jacq.) Oerst. (cf.)
In ✓ 9049. *Ceroxylon andicola* H. & B.
In ✓ 9057. *Geonoma dicranospadix* Burret
In ✓ 9314. " *iodolepis* Burret
In ✓ 9525. *Ceroxylon quindiuense* Karst.? but cf. *C. andicola* H. & B. (N. B.:
This is surely the wax palm described as *C. andicola*, type loc.-E.P.K."
o✓ 10149. *Ceroxylon andicola* H. & B.
o✓ 11039. *Martinezia caryotifolia* H. B. K.
o✓ 9067. *Chamaedorea pinnatifrons* (Jacq.) Oerst. (Det. E. P. K.)
✓ 11055. *Syagrus sancona* Karst.
In ✓ 11136. *Chamaedorea pinnatifrons* (Jacq.) Oerst. (cf.)
In ✓ 11137. *Geonoma iodolepis* Burret.
o✓ 11238. *Chamaedorea* sp.

IDENTIFICATIONS OF E. P. KILLIP'S BOGOTA SPECIMENS OF 1922

Reported by Mr. Killip in March, 1923.

None of these numbers at G. H.?

- 11921 - *Juncoides giganteum* (Desv.) Sheldon
- 11924 *Halenia Kalbreyeri* Gilg
- 11925 *Tacsonia mollissima* H.B.K.
- 11932 *Struthiopteris loxensis* (Kunth) Maxon
- 11933 *Calamagrostis areantha* (Pilger)
- 11936 *Geranium hirtum* Willd.
- 11938 *Castratella piloselloides* (H.B.K.) Naud.
- 11939 *Paepalanthus alpinus* Koerne
- 11940 *Arcytophyllum nitidum* (H.B.K.)
- 11943 *Lavatera assurgentiflora* Kell.
- 11947 *Lycopodium contiguum* Kl.
- 11948 " "
- 11951 *Castratella piloselloides* (H.B.K.) Naud.
- 11952 *Geranium multiceps* Turcz.
- 11954 *Oxalis medicaginea* H.B.K.
- 11955 *Myrtus vaccinioides* H.B.K.
- 11956 *Geranium cucullatum elongatum* Willd.
- 11957 *Paepalanthus pilosus* (H.B.K.) Kunth
- 11959 *Eupatorium gracile* ^{H.B.K., var.} *epilobioides* (H.B.K.) Robinson
- 11960 *Carex pichinchensis* H.B.K.
- 11962 *Rynchospora macrochaeta* Steud.
- 11963 *Chusquea spicata* Munro
- 11964 *Senecio formosus* H.B.K.
- 11966 *Briza minor* L.
- 11969 *Rubus bogotensis* H.B.K.
- 11970 *Carex Bonplandii* Kunth
- 11972 *Berberis rigidifolia* H.B.K.

DETERMINATIONS OF PENNELL-KILLIP COLOMBIAN COLLECTION.
NATIONAL MUSEUM. April 28, 1924.

- not found in bundle
- o /5056 *Xiphidium coeruleum* Aubl.
 - ✓5399 *Trema micrantha* (L.) Blume.
 - o /5414 *Opuntia pittieri* B. & R.
 - ✓5488 *Cipura paludosa* Aubl.
 - ✓5661 *Chamaecrista serpens* (L.) Greene.
 - ✓5681 *Brunellia comocladifolia* H. & B.
 - ✓5857 *Fragaria vesca* L.
 - ✓5982 *Tonina fluviatilis* Aubl.
 - ✓6013 *Pectis elongata* H.B.K.
 - ✓6218 *Echinodorus* sp. (This does not match anything in the National Herbarium very well, nor does it satisfactorily agree with any species given in Pflanzenreich).
 - o ✓6238 *Piaropus azureus* (Sw.) Raf.
 - ✓6252 *Tonina fluviatilis* Aubl.
 - ✓6330 *Brunellia comocladifolia* H.&B.
 - ✓6332 *Myrica pubescens* Willd. (M. arguta H.B.K.).
 - ✓6393 *Escallonia floribunda* H. B. K.
 - ✓6396 *Quercus humboldtii* Bonpl.
 - o ✓6419 *Muehlenbeckia tamnifolia* Meisn.
 - ✓6520 *Ranunculus praemorsus* DC.
 - ✓6559 *Loricaria thuyoides* (Lam.) Sch. Bip.
 - o ✓6565 " " " "
 - ✓6586 *Alchemilla orbiculata* R. & P.
 - ✓6601 *Acaena elongata* L.
 - ✓6801 *Alchemilla orbiculata* R. & P.
 - ✓6866 *Alnus ferruginea* H. B. K.
 - ✓6897 *Phyllonoma ruscifolia* Willd.
 - o ✓6898 *Thalictrum podocarpum* DC.
 - ✓6916 *Alchemilla galioides* Benth.
 - o ✓6946 *Ranunculus bonariensis* Poir.
 - o ✓7048 *Loricaria thuyoides* (Lam.) Sch. Bip.
 - ✓7059 " " " "
 - ✓7070 *Coriaria thymifolia* Willd.
 - o ✓7131 *Ranunculus flagelliformis* Sm.
 - ✓7140 *Fragaria vesca* L.
 - ✓7142 *Acaena ovalifolia* R. & P.
 - ✓7197 *Mayaca fluviatilis* Aubl.
 - ✓7246 *Phyllonoma ruscifolia* Willd.
 - ✓7275 *Escallonia floribunda* H. B. K.
 - ✓7343 *Myrica pubescens* Willd.
 - o ✓7429a *Cassia reticulata* Willd.
 - ✓7459 *Muehlenbeckia tamnifolia* Meisn.
 - ✓7477 *Myrica parvifolia* Benth.
 - ✓7496 *Escallonia myrtilloides* L.f.
 - ✓7551 *Acaena ovalifolia* R. & P.
 - ✓7638 *Escallonia floribunda* H. B. K.
 - ✓7799 *Phyllonoma ruscifolia* Willd.

- ✓ 7844 Muehlenbeckia tamnifolia Meisn.
 ○ 8013 Escallonia floribunda H. B. K.
 ✓ 8086 Myrica pubescens Willd.
 - ✓ 8213 Mayaca fluviatilis Aubl.
 ✓ 8341 Piaropus cassipes (Mart.) Raf.
 - 8462 Pectis elongata H. B. K.
 - 8523 Helianthium tenellum (Mart.) Britton.
 - ✓ 8646 Heteranthera reniformis R. & P.
 ○ 8679 Ranunculus praemorsus DC.
 - ✓ 8680 Typha angustifolia L.
 not found in bundle - 8714 Bihai sp. nov.
 - ✓ 8729 Salix humboldtiana Willd.
 - ✓ 8861 Barnadesia trianae Hieron
 - ✓ 8883 Alchemilla hirsuta H. B. K.
 - ✓ 8956 Coriaria thymifolia Willd.
 ✓ 9024 Quercus humboldtii Bonpl.
 - 9062 Bihai pendula (Wawra) Kuntze.
 ✓ 9085 " sp. nov. (Same as 8714).
 ✓ 9092 Coriaria thymifolia Willd.
 ✓ 9121 Alchemilla tripartita R. & P.
 - 9335 Ranunculus praemorsus DC.
 9354 Pilea multiflora (Poir.) Wedd. (Not P. hirsuta).
 ✓ 9404 Fragaria vesca L.
 ✓ 9408 Alchemilla tripartita R. & P.
 ✓ 9658 Bihai sp. nov.
 ✓ 9761 Thalictrum (Possibly T. podocarpum DC. Plant too young.)
 ✓ 9673 Hydrocotyle bonariensis Lam.
 ○ 9721 Passiflora mollissima (H.B.K.) Bailey.
 ✓ 9897 Loricaria ferruginea (R. & P.) Wedd.
 ✓ 9898 Alchemilla nivalis H. B. K.
 9964 Urtica magellanica Juss. (Not U. ballotaeifolia Wedd.)
 ✓ 9971 Ranunculus bonariensis Poir.
 ✓ 9972 " brevipes Tr. & Planch.
 ✓ 9973 " peruvianus Pers.
 ○ 9994 Myrrhidendron glaucescens (Benth.) Rose.
 - 10011 Leontopodium gnaphalioides (H.B.K.) Hieron.
 - 10019 " " "
 - 10294 Tinantia erecta (Jacq.) Schlecht.
 - 10332 Thalictrum podocarpum DC.
 - 10528 Loricaria complanata (Sch. Bip.) Wedd.
 - 10562 Alchemilla galioides Benth.
 - 10585 Erigeron pellitus (H.B.K.) Wedd.
 not in bundle - 10872 Rhipsalis cassutha Gaertn.
 10934 Myrica pubescens Willd.
 11011 ~~Momisia~~ Momisia iguanaea (Jacq.) Rose & Standl.
 " " 11459 Bihai (nearest B. marginata Griggs, but not that species).
 - 11479 Chlorophora tinctoria (L.) Gaud.
 - 11512 Limnocharis flava (L.) Buchenau.
 - 11514 Tonina fluviatilis Aubl.
 ○ 11516 Xiphidium coeruleum Aubl.
 ○ 11668 Polygala macerrima Blake
 - 11702 Hirtella americana L.
 - 11863 Loricaria thuyoides (Lam.) Sch. Bip.
 - 11895 Acaena cylindrostachya R. & P.
 ✓ - 9982 Alchemilla stemmatophylla Wedd.

Determination of Pennell-Killip Colombian collection.

U. S. National Museum, November 16, 1923.

By J. N. Rose

- 5470. *Dioclea sericea* H. B. K.
- 5600. " "
- 5639. *Parkinsonia aculeata* L.
- 8326. *Dioclea sericea* H. B. K.
- 8336. *Cassia hirsuta* L.
- 8824. *Sanicula liberta* C. & S.
- 10776. *Centella asiatica* (L.) Urban
- 11630. *Dioclea sericea* H. B. K.

By Charles V. Piper

- 9091. *Canavalia dictyota* Piper?
- 10878. " "

By W. E. Safford

- 8066. *Datura candida* (Pers.) Safford
- 8265. " "
- 10680. " "
- 10772. " "
- 12042. " *innocua* Mill.
- 12077. " "

By Paul C. Standley

- 5992. *Cobaea scandens* Cav.
- 6219. *Richardia scabra* L.
- 6400. *Ficus velutina* H. B. K.
- 8046. *Phytolacca octandra* L.
- 8393. *Achatocarpus nigricans* Triana
- 10175. *Cobaea trianaei* Hemsl.?

By Standley & Killip (Melastomaceae)

- 5255. *Diolena pileoides* Triana
- 11544. *Diolena agrimonioides* Triana

By E. P. Killip

- 10373. *Urera caracasana* Jacq.

Determination of Pennell-Killip Colombia plants. National Museum.

By Paul C. Standley.

- y - 5643. *Boerhaavia caribaea* Jacq.
- 5652. *Allionia viscosa* (Cav.) Kuntze
- 5825. *Phytolacca rivinoides* K. & B.
- 6037. *Phytolacca icasandra* L.
- 6064. *Iresine celosia* L.
- 6158. *Cyathula achyranthoides* (H.B.K.) Moq.
- 6229. *Polygonum acuminatum* H.B.K.
- 6233. *Castalia blanda* (Mey.)
- 6510. *Phytolacca rugosa* Br. & Bouché
- 6589. *Rumex acetosella* L.
- 6699. *Alternanthera lehmannii* Hieron.
- 6857. *Iresine celosia* L.
- 7184. *Alternanthera lehmannii* Hieron.
- 7195. *Alternanthera pubiflora* (Benth.) Kuntze
- 7617. *Phytolacca rugosa* Br. & Bouché
- 7757. *Phytolacca rivinoides* K. & B.
- 7847. *Iresine celosia* L.
- 7853. *Phytolacca rivinoides* K. & B.
- 8043. *Iresine celosia* L.
- 8356. *Petiveria alliacea* L.
- 8388. *Iresine celosia* L.
- 8608. *Cyathula achyranthoides* (H.B.K.) Moq.
- 8658. *Phytolacca icasandra* L.
- 8721. *Chamissoa altissima* (Jacq.) H.B.K.
- 8735. *Alternanthera lehmannii* Hieron.?
- 9093. *Polygonum punctatum* Ell.
- 9142. *Alternanthera lehmannii* Hieron.
- 9352. *Phytolacca rugosa* Br. & Bouché
- 9705. *Alternanthera lehmannii* Hieron.
- 9752. *Tovaria diffusa* (Macf.) F. & R.
- 9770. *Ullucus tuberosus* Cald.
- 10382. *Iresine celosia* L.
- 10827. *Talinum paniculatum* (Jacq.) Gaertn.
- 11035. *Portulaca oleracea* L.
- 11068. *Alternanthera pungens* H.B.K.
- 11111. *Talinum triangulare* (Jacq.) Willd.
- 12023. " "
- 12070. " "

PLANTS OF THE PENNELL-KILLIP COLOMBIAN EXPEDITION OF 1922.

- ✓5358. *Drymaria cordata* (L.) Willd.
- ✓5510. *Cissampelos pareira* L.
- ✓5529. *Eragrostis*
- ✓5534. *Erianthus*
- ✓5535. *Aristida*
- ✓5551. *Clematis sericea* H. B. K.?
- ✓5654. *Celosia virgata* Jacq.
- ✓5655. *Rivina humilis* L.
- ✓5657. *Nazia aliena* (Spr.) Scribn.
- ✓5658. *Alternanthera pungens* H. B. K.
- ✓5659. *Portulaca pilosa* L.
- ✓5827. *Arenaria lanuginosa* (Mx.) Rohrb.
- ✓6010a. *Talinum paniculatum* (Jacq.) Gaertn.
- ✓6051. *Arenaria lanuginosa* (Mx.) Rohrb.
- ✓6081. *Verbesina pennellii* Blake.
- ✓6118. *Cissampelos pareira* L.
- ✓6172a. *Panicum glutinosum* Sw.
- ✓6199. *Phthirusa pyrifolia* (H. B. K.) Eichl.
- ✓6419. *Muhlenbeckia tamnifolia* (H. B. K.) Meisn.
- ✓6463. *Clematis sericea* H. B. K. ?
- ✓6489. *Drymaria cordata* (L.) Willd.
- ✓6731. *Arenaria lanuginosa* (Mx.) Rohrb. Depauperate form.
- ✓6732. *Drymaria cordata* (L.) Willd.
- ✓6772. *Pilea arguta* (H. B. K.) Wedd.
- ✓6945. *Drimys winteri* Forst.
- ✓6971. *Phrygilanthus corymbosus* (Dietr.) Eichl.
- ✓7011. *Pilea arguta* (H. B. K.) Wedd.
- ✓7027. *Phrygilanthus puracensis* (H. B. K.) Eichl.
- ✓7029. " *corymbosus* (Dietr.) Eichl.
- ✓7132. *Arenaria lanuginosa* (Mx.) Rohrb.
- ✓7133. *Drymaria cordata* (L.) Willd.
- ✓7139. " " " "
- ✓7295. *Arenaria lanuginosa* (Mx.) Rohrb.
- ✓7459. *Muhlenbeckia tamnifolia* (H. B. K.) Meisn.
- ✓7621. *Drymaria cordata* (L.) Willd.
- ✓7634. *Cissampelos tropaeolifolia* DC.? Our specimen very young.
- ✓7844. *Muhlenbeckia tamnifolia* (H. B. K.) Eichl.
- ✓8277. *Oryctanthus amplexicaulis* (H. B. K.) Eichl.
- ✓8394. *Phthirusa pyrifolia* (H. B. K.) Eichl. Near type locality.
- ✓8395. *Oryctanthus botryostachys* Eichl.
- ✓8515. *Verbesina pennellii* Blake.
- ✓8527. *Cissampelos pareira* L.
- ✓8603. " *grandifolia* Tr. & Planch.
- ✓8621. *Oryctanthus amplexicaulis* (H. B. K.) Eichl.
- ✓8669. *Clematis dioica* L.
- ✓8727. *Persea americana* Mill.
- ✓8914. *Drymaria cordata* (L.) Willd.
- ✓8927. *Arenaria lanuginosa* (Mx.) Rohrb.
- ✓8934. " " " "
- ✓9222. *Drimys winteri* Forst.
- ✓9241. *Arenaria lanuginosa* (Mx.) Rohrb.
- ✓9392. *Cerastium obscurum* Chamb.
- ✓9594. *Arenaria lanuginosa* (Mx.) Rohrb.
- ✓9912. *Polylepis sericea* Wedd.

✓ *Amorpha* *benzoides*

- ✓9947. Cortaderia
 - ✓9948. Poa
 - ✓9950. Agrostis
 - ✓9951. Festuca
 - ✓9965. Rumex tolimensis Wedd.
 - ✓9966. Montia fontana L.
 - ✓9967. Cerastium floccosum Benth.
 - ✓9968. " glutinosum H. B. K.
 - ✓10039. " caespitosum Tr. & Planch.
 - ✓10056. " willdenovii H. B. K.
 - ✓10061. Phrygilanthus corymbosus (Dietr.) Eichl.
 - ✓10551. Calamagrostis
 - ✓11094. Oryctanthus amplexicaulis (H. B. K.) Eichl.
 - ✓12127. Lacistema aggregatum (Berg.) Rusby.
-
- ✓5196. Valeriana candolleana Gardn.
 - ✓6308. " urticaefolia H. B. K.
 - ✓6412. " gracilis Benth.
 - ✓6452. " venezuelana Briq.
 - ✓6456. " urticaefolia H. B. K.
 - ✓6558. " (near V. microphylla H. B. K.; will report later)
 - ✓6566. " " " " " " " "
 - ✓6597. " colombiana Killip. Type.
 - ✓6805. " venezuelana Briq.
 - ✓7040. " rumicoidea Wedd.
 - ✓7055. " " "
 - ✓7068. " (near V. microphylla H. B. K.; will report later)
 - ✓7103. " ciliatibractea Killip. Type.
 - ✓7296. " urticaefolia H. B. K.
 - ✓7398. " pavonii Poepp.
 - ✓7571. " gracilis Benth.
 - ✓7878. " candolleana Gardn.
 - ✓8030. " pavonii Poepp.
 - ✓8139. " urticaefolia H. B. K.
 - ✓8256. " pavonii Poepp.
 - ✓8612. " candolleana Gardn.
 - ✓9157. " colombiana Killip.
 - ✓9358. " colombiana Killip.
 - ✓9837. " plantaginea H. B. K.
 - ✓9892. " " "
 - ✓10006. " longifolia H. B. K.
 - ✓10075. " quindiensis Killip. Type.
 - ✓10161. " candolleana Gardn.
 - ✓10418. " pavonii Poepp.
 - ✓10582. " tatamana Killip. Type.
 - ✓10655. " pavonii Poepp.
 - ✓11198. " " "
-
- ✓6427. Weinmannia pubescens H. B. K.
 - ✓6521. " engleriana Hieron.?
 - ✓6525. " " Hieron.?
 - ✓6545. " " Hieron.?

- ✓6860. *Weinmannia pubescens* H. B. K.
✓7033. " *engleriana* Hieron.?
✓7898. " *balbisiana* H. B. K.
✓8055. " *calothyrsa* Diels.
✓8194. " *pubescens* H. B. K.
✓8198. " *auriculifera* Hieron.?
✓8286. " *lamprophylla* Diels.?
✓8289. " *pubescens* H. B. K.
✓8306. " *ovata* Cav.
✓9301. " *pubescens* H. B. K.
✓9470. " " "
✓10537. " *microphylla* H. B. K.
✓10935. " *pubescens* H. B. K.
- ✓5200. *Verbesina crassicaulis* Blake. (Type.)
✓5208. " *nudipes* Blake. (Type)
✓5530. *Meibomia prehensilis* (Schl.) Kuntze.
✓6314. } *Bocconia frutescens* L. (*B. pubibractea* Hutchins.,
✓7572 } hardly distinct.)
✓7993. *Verbesina altipetens* Blake. (Type.
✓8034. " *nudipes* Blake? (See Bull. Torrey Club 51:
428. 1924.)
✓12127. *Lacistema aggregatum* (Berg.) Rusby.

list recd. Jan. 1935

Fennell-Killip, Colombia.

Acanthaceae determined by E. C. Leonard; Malpighiaceae by C. V. Morton;
others by E. P. Killip unless otherwise noted.

U. S. National Museum, December 1934.

- ✓5065. *Dioclea lasiocarpa* Mart.
✓5242. *Cremosperma alba* Morton (type)
✓5266. *Dioclea lasiocarpa* Mart.
✓5269. *Clitoria javitensis* (H.B.K.) Benth.
✓5405, 10783, 10820, 11602. *Mandevilla fendleri* (Muell. Arg.) Woods.
cited; rather than var. of *mollissima*
✓5424. *Phaseolus adenanthus* Mey.
✓5499. *Galactia velutina* Benth.
✓5608. " " "
✓5719. *Prestonia purpurissata* Woods. (Det. Woodson)
✓5791. *Stigmaphyllon bogotense* Tr. & Pl.
✓5830, 5957, 6867, 8278. *Sisyrinchium iridifolium* H.B.K.
✓5853. *Rhynchosia pittieri* Standl.
✓5860. *Stigmaphyllon bogotense* Tr. & Pl.
✓6011a. *Rhynchosia pittieri* Standl.
✓6069. *Calophogonium galactioides* (H.B.K.) Benth.
✓6274. *Clitoria rubiginosa* Juss.
✓6298, 7263, 8146. *Vismia lauriformis* (Lam.) Choisy (det. A. C. Smith)
✓6402. *Citrus medica* L. (Det. Swingle)
✓6756. *Carex crinalis* Boott (Det. Mackenzie)
✓6710. " *jamesonii* Boott (Det. Mackenzie)
✓6755. *Azorella laxa* Wolff (Det. M. Mathias)
✓6796. *Aphelandra acanthus* Nees
✓6873. *Sisyrinchium bogotense* H. B. K.
✓6890. *Carex polystachya* Wahl. (Det. Mackenzie)
✓7117. *Guzmania multiflora* André
✓7392. *Aphelandra acanthus* Nees
✓7399. *Carex humboldtiana* Steud. (Det. Mackenzie)
✓7910, 7546. *Clusia multiflora* H. B. K. (Det. A. C. Smith)
✓7547. *Ternstroemia macrocarpa* Tr. & Pl. (Det. A. C. Smith)
✓7552. *Gynandropsis lehmannii* Hieron.
✓8253. *Antidaphne colombiana* Killip
✓8438. *Renealmia cernua* (Sw.) Macbr.
✓8447. 8466? *Dioclea guianensis* Benth.
✓8464. *Galactia velutina* Benth.
✓8468. *Terammus uncinatus* (L.) Sw.
✓8473. *Rhynchosia reticulata* (Sw.) DC. (rather than *Dolicholus pittieri*)
✓8579. *Calathea magnifica* Morton & Skutch? (U. S. Sheet infl. only)
✓8675. *Stigmaphyllon bogotense* Tr. & Pl.
✓8805, 11405. *Havetia laurifolia* H. B. K. (Det. A. C. Smith)
✓8814. *Anthurium warocqueanum* J. Moore
✓9062. *Heliconia pendula* Sawra (Det. Griggs)
✓9108. *Dendrophthora clavata* (Benth.) Urb.
✓9300. *Clusia volubilis* H. B. K. (Det. A. C. Smith)
✓9414. *Dendrophthora clavata* (Benth.) Urb.

Pennell-Killip, Colombia-2

- 79588. *Calopogonium galactioides* (H.B.K.) Benth.
- 2✓9658. *Heliconia robusta* Pax (Det. Griggs)
- ✓9922. *Azorella pedunculata* Willd. (Det. M. Mathias)
- 10728. *Desmodium intortum* (L.) Fawc. & Rendle
- 11010. *Erythrina poeppigiana* (Walp.) Cook
- 2✓11020. *Rhynchosia reticulata* (Sw.) DC. (rather than R. longiracemosa)
- 11070. *Galactis velutina* Benth.
- 11083. *Benthامantha glandulifera* (Benth.) Afel.
- 11088. *Clusia multiflora* H.B.K. (Det. A. C. Smith)
- ✓11118. *Amphistelma aphyllum* (Vell.) Fourn.
- 11214. *Desmodium axillare* (Sw.) DC.
- ✓11242. *Centrosema virginianum* (L.) Benth.
- ✓11250. *Desmodium poeppigianum* (Schindl.) Macbr.
- ✓11252. *Dioclea densiflora* Huber
- +11263. *Galactia velutina* Benth.
- ✓11459. *Heliconia robusta* Pax (Det. Griggs)
- ✓11540. *Cremosperma ignota* Morton (type)
- ✓11788. *Aphelandra dolichantha* D. Sm. (correction)
- ✓11796. *Zamia pseudoparasitica* Yates (ex char.)

Determinations of Pennell-Killip Colombian Collection of 1922.

U. S. National Museum, Oct. 23, 1925.

o = Not at Gray Herb.

- ✓ 5034. *Spathiphyllum friedrichstahlil* Schott
 o 5058. *Hedychium coronarium* König
 ✓ 5072. *Sauvagesia erecta* L.
 o 5108. *Anthurium cuspidifolium* Schott
 5206. *Solanum asperum* L.C. Rich.
 ✓ 5209. *Melothria fluminensis* Gardn.
 ✓ 5213. *Triumfetta bogotensis* DC.
 ✓ 5222. *Pelliciera rhizophorae* Tr. & Planch.
 ✓ 5237. *Malache scabra* Vog.
 o 5240. *Malache fruticosa* (Mill.)
 ✓ 5315. *Burmannia capitata* (Walt.) Mart.
 ✓ 5360. *Phyllanthus niruri* L.
 ✓ 5361. *Sauvagesia erecta* L.
 ✓ 5368. *Melochia lupulina* Sw.
 5357 ✓ 5377. *Boerhaavia coccinea* Mill.
 ✓ 5433. *Turnera ulmifolia* L.
 ✓ 5451. *Turnera ulmifolia* L.
 o 5465. *Pavonia paniculata* Cav.
 ✓ 5466. *Crotalaria anargyroides* H.B.K.
 ✓ 5468. *Indigofera suffruticosa* Mill.
 ✓ 5473. *Sida linifolia* Juss.
 o 5502. *Corchorus hirtus* L.
 ✓ 5506. *Waltheria americana* L.
 o 5529. *Eragrostis lugens*
 o 5534. *Eragrostis trinitii*
 o 5535. *Aristida recurvata*
 ✓ 5630. *Leonitis nepetaefolia* R. Br.
 ✓ 5631. *Tecoma gaudichaudii* DC.
 ✓ 5634. *Abrus precatorius* L.
 ✓ 5637. *Sida cordifolia* L.
 ✓ 5641. *Indigofera subulata* Vahl
 ✓ 5668. *Monstera pertusa* (L.) De Vriese
 ✓ 5716. *Solanum sempervirens* Dunal
 ✓ 5731. *Pavonia nemoralis* St. Hil.
 ✓ 5735. *Sopoclesia cordifolia* (Benth.) Kl.
 ✓ 5738. *Anthurium scandens* (Aubl.) Engl.
 ✓ 5739. *Anthurium truncatulum* Engl.
 ✓ 5942. *Waltheria americana* L.
 ✓ 5965. *Sida spinosa* L.
 ✓ 5966. *Sida urens* L.
 ✓ 5968. *Anagallis pumila* Sw.
 ✓ 5973. *Banara pyramidalis* Rusby
 ✓ 5975. *Pavonia ovata* (Presl)
 ✓ 6017. *Jussiaea angustifolia* Lam.
 o 6024. *Crotalaria sagittalis* L. ?
 ✓ 6027. *Dichondra repens* Forst.
 o 6031. *Corchorus hirtus* L.
 ✓ 6033. *Melochia venosa* Sw.
 6034. *Chelonanthus acutangulus* (R. & P.) Gilg
 o 6045. *Melochia hirsuta* Cav.
 o 6054. *Rotala ramosior* L.
 o 6060. *Cordia ferruginea* (Lam.) R. & S.
 o 6063. *Melochia lupulina* Sw.
 ✓ 6067. *Crotalaria nitens* H.B.K.
 o 6068. *Anoda cristata* (L.) Schl.
 ✓ 6071. *Sida salviaefolia* Presl
 ✓ 6112. *Rapanea guyanensis* Aubl.
 o 6141. *Pavonia sepium* St. Hil.
 o 6143. *Pavonia nemoralis* St. Hil.
 ✓ 6156. *Bradburya virginiana* (L.) Kuntze
 ✓ 6162. *Malache fruticosa* (Mill.)
 ✓ 6169. *Malachra fasciata* Jacq.
 o 6174. *Acalypha wilkesiana* Muell.
 o 6176. *Pimenta officinalis* Lindl.
 o 6185. *Vigna vexillata* (L.) A. Rich.
 ✓ 6186. *Indigofera subulata* Vahl
 ✓ 6187. *Citharexylum tomentosum* HBK. (near type locality)
 o 6189. *Cissus sicyoides* L.
 o 6200. *Anoda cristata* (L.) Schl.
 o 6204. *Vigna vexillata* (L.) A. Rich.
 o 6212. *Turnera ulmifolia* L.
 o 6219. *Richardia scabra* L.
 o 6221. *Corchorus hirtus* L.
 o 6222. *Melochia lupulina* Sw.
 o 6245. *Pavonia paniculata* Cav.
 6262. *Phyllanthus niruri* L.
 o 6269. *Jussiaea nervosa* Poir.
 ✓ 6402. *Physalis peruviana* L.?
 ✓ 6406. *Befaria phillyriaefolia* Bth
 o 6417. *Eriosema diffusum* G. Don
 o 6432. *Cyclospermum leptophyllum* (Pers.) Sprague
~~6432. *Cyclospermum leptophyllum* (Pers.) Sprague~~
 ✓ 6531. *Juncoides giganteum* (Desv.) Sheldon
 ✓ 6547. *Juncus cyperoides* Laharpe
 ✓ 6553. *Gunnera pilosa* H.B.K.
 ✓ 6593. ~~6573.~~ *Mutisia stuebelii* Hieron.
 ✓ 6664. *Silene gallica* L.
 ✓ 6716. *Tropaeolum tuberosum* R. & P.
 o 6804. *Viburnum glabratum* H.B.K.
 ✓ 6812. *Phyllanthus salviaefolius* H. B. K.
 ✓ 6844. *Oenothera multicaulis* var. *tarquensis* (H.B.K.) Munz & Johnston
 ✓ 6864. *Juncus bogotensis* H.B.K.
 o 6871. *Juncus microcephalus* H.B.K.

- ✓6908. *Juncus involucreatus* Steud.
 ✓6909. *Juncus brunneus* Buchenau
 ✓6910. *Paepalanthus columbiensis* Ruhland (Type locality)
 ✓6919. *Geranium cucullatum* H.B.K.
 ✓6923. *Myrteola oxycoccoides* (Benth.) Berg
 ✓7074. *Lathyrus magellanicus* Lam.
 ✓7101. *Vallea stipularis* Mutis
 ✓7103. *Valeriana trichiata* Killip (rather than *V. ciliatibractea* of earlier list).
 ✓7130. *Silene gallica* L.
 ✓7147. *Geranium hirtum* Willd.
 ✓7149. *Epilobium denticulatum* R. & P.
 ✓7156. *Cuscuta globiflora* Engelm.?
 ✓7187. *Ditassa caucana* Pittier
 ✓7216. *Rapanea ferruginea* (R. & P.) Mez
 ✓7257. *Ditassa caucana* Pittier
 ✓7324. *Sophoclesia subscandens* Kl.
 ✓7383. *Viburnum urbani* Graebn.
 ✓7408. *Smilax tomentosa* H.B.K.
 ✓7443. *Gunnera pilosa* H.B.K.
 ✓7624. *Acalypha platyphylla* Muell.
 ✓7653. *Epilobium denticulatum* R. & P.
 ✓7797. *Clidemia petiolata* (Rich.) DC.
 ✓7817. *Rapanea ferruginea* (R. & P.) Mez
 ✓7828. *Acalypha macrostachya* Jacq.
 ✓7836. *Buddleia americana* L.
 ✓7864. *Smilax tomentosa* H.B.K.
 ✓7969. *Miconia grandiflora* Cogn. (Det. Gleason)
 ✓8036. *Buddleia americana* L.
 ✓8053. *Acalypha platyphylla* Muell.
 ✓8083. *Epilobium denticulatum* R. & P.
 ✓8084. *Crotalaria anagyroides* H.B.K.
 ✓8089. *Rhus juglandifolia* H.B.K.
 ✓8097. *Heliocarpus rudis* Wats.
 ✓8132. *Zornia diphylla* (L.) Pers.
 ✓8157. *Waltheria americana* L.
 ✓8167. *Anagallis pumila* Sw.
 ✓8181. *Polygala gracilis* H.B.K.
 ✓8182. *Crotalaria pterocaula* Desv.
 ✓8188. *Ditassa caucana* Pittier
 ✓8191. *Pavonia ovata* (Presl)
 ✓8206. *Jussiaea peruviana* L.
 ✓8209. *Sauvagesia erecta* L.
 ✓8214. *Rapanea guyanensis* Aubl.
 ✓8215. *Psidium araca* Raddi
 ✓8234. *Rapanea guyanensis* Aubl.
 ✓8239. *Juncus densiflorus* H.B.K.
 ✓8262. *Pavonia nemoralis* St. Hil.
 ✓8269. *Hibiscus bifurcatus* Cav.
 ✓8299. *Leiphaimes aphylla* (Jacq.) Gilg
 ✓8318. *Melochia hirsuta* Cav.
 ✓8323. *Ditassa caucana* Pittier
 ✓8344. *Phyllanthus acuminatus* Vahl

Loc. can not
 place for P.

- ✓8346. *Phyllanthus nobilis* (L.f.) Muell.
- ✓8348. *Solanum asperum* L.C. Rich.
- ✓8363. *Dolicholus minimus* (L.) Medic.
- ✓8376. *Vigna vexillata* (L.) A. Rich.
- ✓8416. *Phyllanthus acuminatus* Vahl
- 8422. *Pavonia sepium* St. Hil.
- ✓8449. *Acalypha macrostachya* Jacq.
- ✓8457. *Cupania papillosa* Poepp.
- ✓8478. *Bradburya plumieri* (Turp.) Kuntze
- ✓8495. *Sida rhombifolia* L.
- ✓8507. *Myrcia xylopioides* (H.B.K.) DC.
- 8508. *Malachra rudis* Benth.
- ✓8529. *Melochia pyramidata* ~~xxx~~ L. (form)
- ✓8561. *Caladium bicolor* (Ait.) Vent.
- 8590. *Sida rhombifolia* L.
- ✓8596. *Solanum asperum* L. E. Rich.
- ✓8606. *Crotalaria incana* L.
- ✓8626. *Malachra rudis* Benth.
- ✓8642. *Zornia diphylla* (L.) Pers.
- ✓8667. *Aegiphila mutisii* H.B.K.? (fruiting only)
- ✓8668. *Acalypha heterodonta* Muell.
- ✓8682. *Acalypha diversifolia* Jacq.
- ✓8691. *Melothria fluminensis* Gardn.
- ✓8696. *Dombeya lappacea* L'Her.
- 8713. *Crotalaria nitens* H.B.K.
- ✓8722. *Crotalaria anagyroides* H.B.K.
- ✓8728. *Tropaeolum pubescens* H.B.K.
- ✓8732. *Acalypha diversifolia* Jacq.
- ✓8782. *Pavonia nemoralis* St. Hil.
- ✓8830. *Acalypha platyphylla* Muell.
- ✓8852. *Crotalaria sagittalis* L.?
- ✓8854. *Phyllanthus lathyroides* H.B.K.
- ✓8856. *Crotalaria anagyroides* H.B.K.
- ✓8879. *Juncus tenuis* Willd.
- ✓8892. *Prunella vulgaris* L.
- ✓8909. *Acalypha heterodonta* Muell.
- ✓8944. *Cyclosporum leptophyllum* (Pers.) Sprague
- ✓8955. *Juncus bogotensis* H.B.K.
- ✓9030. *Smilax tomentosa* H.B.K.
- ✓9083. *Smilax guianensis* Vitm. (det. Norton)
- 9090. *Gunnera brephogea* Lind. & André
- ✓9091. *Canavalia dictyota* Piper
- ✓9140. *Pernettya pentlandii* DC.
- ✓9183. *Hackelia revoluta* (R. & P.) Johnston (det. Johnston)
- ✓9189. *Cyclosporum leptophyllum* (Pers.) Sprague
- ✓9228. *Klaprothia mentzelioides* H.B.K.
- ✓9328. *Gnaphalium purpureum* L.
- ✓9347. *Epilobium denticulatum* R. & P.
- ✓9479. *Pernettya pentlandii* DC.
- 9503. *Vicia andicola* H.B.K.
- ✓9515. *Hackelia revoluta* (R. & P.) Johnston (det. Johnston)
- ✓9569. *Adenaria floribunda* H.B.K.
- 9650. *Crotalaria nitens* H.B.K.
- ✓9661. *Smilax cumanensis* Willd. (det. Norton)

- ✓9669. *Wigandia caracasana* H.B.K.
 ✓9722. *Ruta graveolens* L.
 ✓9765. *Dombeya lappacea* L'Her.
 ✓9771. *Klaprothia mentzeloides* H.B.K.
 ✓9819. *Juncoides peruvianum* (Desv.) Kuntze
 ✓9858. " " " " ?
 ✓9860. *Distichia tolimensis* (Dcne.) Buchenau
 ✓9862 (mixture) *Chaetfly Lysipoma montioides* H.B.K.
 ✓9873. *Azerella aretioides* (H.B.K.) DC.
 ✓9885. *Juncoides giganteum* (Desv.) Sheldon
 ✓9900. " " " "
 ✓9901. " " " "
 ✓9947. *Cortaderia*
 ✓9948. *Poa*
 ✓9951. *Festuca*
 ✓9950. *Agrostis stuebelii* Pilger
 ✓9959. *Juncoides racemosum* (Desv.) Kuntze
 ✓9963. *Juncus stipulatus* Nees & Meyen.
 ✓9989. *Epilobium denticulatum* R. & P.
 ✓9996. *Gentiana sedifolia* H.B.K.
 ✓10045. *Desfontainea spinosa* R. & P.
 ✓10049. *Poecilochroma lindeniana* Miers
 ✓10054. *Pernettya pentlandii* DC.
 ✓10075. *Valeriana quindensis* Killip (rather than V. quindensis, of earlier list).
 ✓10078. *Moritzia lindeniana* (DC.) Benth. (det. Johnston)
 ✓10400. *Sophoclesia cordifolia* (Benth.) Kl.?
 ✓10551. *Calamagrostis pittieri* Hack.
 ✓10566. *Epilobium denticulatum* R. & P.
 ✓10567. *Myrteola oxycoccoides* (Benth.) Berg
 ✓10572. *Pernettya pentlandii* DC.
 ✓10583. *Valeriana ligulifolia* Killip, (TYPE)
 ✓10612. *Sida rhombifolia* L.
 ✓10635. *Malachra rudis* Benth.
 ✓10637. *Melochia venosa* Sw.
 ✓10638. *Sida rhombifolia* L.
 ✓10639. *Sida rhombifolia* L.
 ✓10640. *Wissadula amplissima* (L.) Fries
 ✓10657. *Vernonia rubricaulis* H.B.K. (Det. Gleason)
 ✓10665. *Buddleia americana* L.
 ✓10669. *Sophoclesia cordifolia* (Benth.) Kl.
 ✓10695. *Anoda cristata* (L.) Schl.
 ✓10696. *Melochia venosa* Sw.
 ✓10700. *Pavonia sessiliflora* H.B.K.
 ✓10701. *Sida rhombifolia* L.
 ✓10705. *Jacquemontia apocynoides* (S. & C.) Urban
 ✓10706. *Bradburya virginiana* (L.) Kuntze
 ✓10711. *Sida urens* L.
 ✓10803. *Malachra fruticosa* (Mill.)
 ✓10823. *Sida acuta* Burm.
 ✓10840. *Malvastrum coromandelianum* (L.) Garcke
 ✓10841. *Sida rhombifolia* L.
 ✓10858. *Bradburya virginiana* (L.) Kuntze

In Hb. as *Agrostis*

- ✓10861. *Malachra rudis* Benth.
- ✓10877. *Vernonia patens* H.B.K.
- 10878. *Canavalia dictyota* Piper
- ✓10891. *Gonolobus lehmannii* Schltr.
- 10924. *Sida rhombifolia* L.
- ✓10990. *Solanum nigrum* L.
- ✓10992. *Sida acuta* Burm.
- 10993. " " "
- ✓11015. *Acalypha heterodonta* Muell.
- ✓11016. *Wissadula amplissima* (L.) Fries
- 11025. *Cordia microcephala* Willd.
- ✓11033. *Melochia venosa* Sw.
- ✓11056. *Jacaranda caucana* Pittier
- ✓11058. *Jatropha gossypifolia* L.
- ✓11076. *Funastrum clausum* (Jacq.) Schltr.
- ✓11084. *Gaya occidentalis* (L.) Griseb.
- ✓11085. *Cardiospermum corindum* L.
- 11092. *Bradburya virginianum* (L.) Kuntze
- ✓11110. *Evolvulus villosus* R. & P.
- ✓11186. *Myrcia xylopioides* (H.B.K.) DC. (near type locality)
- ✓11206. *Viburnum glabratum* H.B.K.
- ✓11217. *Sida rhombifolia* L.
- ✓11269. *Dodonaea viscosa* Jacq.
- 11276. *Turnera ulmifolia* L.
- ✓11338. *Anthurium scandens* (Aubl.) Engl.
- ✓11430. *Cracca cinerea* (L.) Morong
- 11448. *Malache fruticosa* (Mill.)
- ✓11519. *Anagallis pumila* Sw.
- ✓11536. *Fischeria columbiana* Schltr.
- ✓11628. *Anoda cristata* (L.) Schl.
- ✓11648. *Viburnum glabratum* H.B.K.
- 11681. *Hibiscus abelmoschus* L.
- ✓11692. *Malache scabra* Vog.
- ✓11704. *Crinum kunthianum* Roem.
- ✓11770. *Sida rhombifolia* L.
- ✓11844. *Anthurium scandens* (Aubl.) Engl.
- ✓11896. *Abatia parviflora* R. & P.
- In Hb. as latter — ✓11955. *Myrteola oxycoccoides* (Benth.) Berg (rather than *Myrtus vaccinioides*)
- 11956. *Geranium cucullatum elongatum* Wedd.
- 11965. *Juncus involucratus* Steud.
- 11968. *Fuchsia petiolaris* H.B.K.
- ✓11993. *Myrteola microphylla* (H. & B.) Berg/
- ✓12025. *Melochia pyramidata* L.
- ✓12026. *Sida salviaefolia* Presl
- ✓12031. *Asclepias nivea* L.?
- ✓12032. *Omphalophthalmum rubra* Karst.
- ✓12033. *Evolvulus glaber* Spreng.
- ✓12045. *Sesamum indicum* L.
- 12052. *Sida acuta* Burm.
- ✓12053. *Sida ciliaris* L.
- ✓12054. *Sida acuta* Burm.
- ✓12056. *Sida cordifolia* L.

- 5-10741 albunet.
- 12057. *Sida cordifolia* L.
 - ✓12062. *Evolvulus nummularius* L.
 - 12066. *Solanum verbascifolium* L.
 - 12130. *Crotalaria incana* L.
 - ✓9466. *Vallea stipularis* Mutis

7214 { *Eupatorium nemorosum* Klatt
7855 { *Schistocarpha Hoffmannii* Kuntze

8743. The specimen at G. H. with this number is Siegesbeckia orientalis L. On Dr. Blake's list it is called Ambrosia cumanaensis HBK.

o = not at G.H.

LIST OF DETERMINATIONS OF THE PENNELL-KILLIP COLOMBIAN PLANTS,

BY S. F. BLAKE

- 0 -

Meibomia

- ✓5017. *M. adscendens* (Sw.) Kuntze.
- ✓5064. *M.* " " "
- o5460. *M. uncinata* (Jacq.) Ktze.
- o5487. *M. sericophylla* (Schlecht.) Kuntze.
- o5513a. *M. mollicula* (H. B. K.) Kuntze.
- ✓5519. *M. barbata* (L.) Kuntze.
- ✓5603. *M. axillaris* (Sw.) Kuntze.
- o5607. *M. cajanifolia* (H. B. K.) Kuntze.
- o5612. *M. prehensilis* (Schlecht.) Kuntze.
- ✓5622. *M. cajanifolia* (H. B. K.) Kuntze.
- o5974. *M. sericophylla* (Schlecht.) Kuntze.
- ✓5976. *M. crotalum* Blake, n. sp.
- ✓6076. *M. uncinata* (Jacq.) Kuntze.
- o6359. *M. adscendens* (Sw.) Kuntze.
- ✓8049. *M. orizabana* (Hemsl.) Kuntze.
- o8104. *M. mollicula* (H. B. K.) Kuntze.
- o8105. *M. sericophylla* (Schlecht.) Kuntze.
- o8119. *M. uncinata* (Jacq.) Kuntze.
- o8460. *M. cajanifolia* (H. B. K.) Kuntze.
- o8463. *M. supina* (Sw.) Britton.
- ✓8474. *M. barbata* (L.) Kuntze.
- ✓8503. *M. uncinata* (Jacq.) Kuntze.
- ✓8528. *M.* " " "
- ✓8531. *M. crotalum* Blake, n. sp. (Type)
- ✓8577. *M. cajanifolia* (H. B. K.) Kuntze.
- o8584. *M. axillaris* (Sw.) Kuntze.
- ✓8631. *M. crotalum* Blake, n. sp.
- ✓8885. *M. sylvestris* Blake.
- o9552. *M. sylvestris* Blake?
- o10610. *M. cajanifolia* (H. B. K.) Ktze.
- o10611. *M. uncinata* (Jacq.) Kuntze.
- o10654. *M. cajanifolia* (H. B. K.) Kuntze.
- o10660. *M. mollicula* (H. B. K.) Ktze.
- o10661. *M. orizabana* (Hemsl.) Kuntze.
- o11669. *M. cajanifolia* (H. B. K.) Kuntze.
- o10691. *M.* " " "
- o10708. *M. prehensilis* (Schlecht.) Kuntze.
- o10728. *M.*
- ✓10729. *M. orizabana* (Hemsl.) Kuntze.
- o10743. *M. mollicula* (H. B. K.) "
- ✓10751. *M. uncinata* (Jacq.) Kuntze ?
- ✓10787. *M.* " " Kuntze.
- ✓10789. *M. uncinata* (Jacq.) Kuntze ?
- ✓10791. *M. Orizabana* (Hemsl.) Kuntze.

Meibomia (continued)

- 10805. *M. supina* (Sw.) Britton.
- ✓ 10806. *M. " " " "* var.
- 10807. *M. purpurea* (Mill.) Vail.
- 10809. *M. axillaris* (Sw.) Kuntze.
- 10830. *M. purpurea* (Mill.) Vail.
- 10838. *M. supina* (Sw.) Britton.
- 10864. *M. albiflora* (Salzm.) Kuntze.
- 10866. *M. supina* (Sw.) Britton.
- 11160. *M. uncinata* (Jacq.) Kuntze.
- ✓ 11251. *M. " " " "*
- ✓ 11518. *M. adscendens* (Sw.) Kuntze.
- 7894. *M. crotalum* Blake, n. sp.

Stylosanthes

- 5305. *S. guyanensis* (Aubl.) Sw.
- ✓ 5431. *S. scabra* Vogel (ex char.).
- ✓ 5623. *S. guyanensis* (Aubl.) Sw.
- 6073. *S. " " " "*
- 3 ✓ 6352. *S. guyanensis gracilis* (H. B. K.) Vogel.
- ✓ 8101. *S. " " " "*
- 8184. *S. guyanensis* (Aubl.) Sw.
- ✓ 8461. *S. guyanensis gracilis* (H. B. K.) Vogel.
- ✓ 11431. *S. scabra* Vogel (ex char.)
- ✓ 11563. *S. guyanensis* (Aubl.) Sw.

DETERMINED BY E. P. KILLIP.

Eriosema

- 5503. *E. violaceum* G. Don.
- ✓ 5943. *E. crinitum* (H. B. K.) DC.
- 6265. *E. violaceum* G. Don.
- ✓ 8102. *E. diffusum* G. Don.
- 8327. *E. violaceum* G. Don.
- 8178. *E. crinitum* (H. B. K.) DC.
- 12011. *Canavalia maritima* (Aubl.) Britton. (file C. & P.)

LIST OF DETERMINATIONS OF THE PENNELL-KILLIP COLOMBIAN
COMPOSITAE, BY S. F. BLAKE.

- 5007. *Erechtites hieracifolia* (L.) Raf.
- ✓ 5008. *Jaegeria hirta* (Lag.) Less.
- ✓ 5013. *Erigeron bonariensis* L.
- ✓ 5036. *Wedelia trilobata* (L.) Hitchc.
- ✓ 5081. *Neurolaena lobata* (L.) R. Br.
- ✓ 5144. *Clibadium terebinthaceum* (Sw.) DC.
- 5186. *Schistocarpa hoffmannii* Kuntze.
- ✓ 5188. *Erechtites valerianaeifolia* (Wolf.) DC.
- ✓ 5189. *Calea caracasana* (H. B. K.) Kuntze.
- ✓ 5192. *Heliopsis buphthalmoides* (Jacq.) Dunal.
- ✓ 5193. " " " "
- ✓ 5194. *Clibadium surinamense* L.
- ✓ 5199. *Baccharis cinnamomifolia* H. B. K.
- ✓ 5202. *Calea glomerata* ~~H. B. K.~~ *Klatt*
- ✓ 5212. *Baccharis cassinaefolia* DC.
- 5268. *Clibadium terebinthaceum* (Sw.) DC.
- ✓ 5299. *Gymnolomia tenella* H. B. K.
- ✓ 5343. *Schistocarpa hoffmannii* Kuntze.
- ✓ 5347. *Erigeron bonariensis* L.
- ✓ 5350. *Spilanthes ocyimifolia* (Lam.) A. H. Moore.
- ✓ 5353. *Eclipta alba* (L.) Hassk.
- ✓ 5356. *Tridax procumbens* L.
- 5391. *Baccharis trinervis rhexioides* (H. B. K.) Baker.
- ✓ 5408. *Spilanthes ocyimifolia* (Lam.) A. H. Moore.
- 5484. *Pterocaulon virgatum* (L.) DC.
- 5493. *Achyrocline satureioides* (Lam.) DC. (form)
- 5507. *Conyza chilensis* Spreng.
- 5511. *Chaptalia nutans* (L.) Polak.
- ✓ 5522. *Baccharis cinnamomifolia* H. B. K.
- ✓ 5547. " *floribunda* H. B. K.
- ✓ 5609. " *trinervis rhexioides* (H. B. K.) Baker.
- ✓ 5640. *Lycoseris mexicana* (L. f.) Cass.
- ✓ 5651. *Porophyllum ruderale* (Jacq.) Cass.
- ✓ 5650. " " " "
- 5870. *Conyza chilensis* Spreng.
- 5940. *Calea prunifolia* H. B. K.
- ✓ 5995. *Clibadium surinamense* L.
- ✓ 6000. *Melanthera deltoidea* Michx.
- 6014. *Baccharis tridentata* Vahl.
- 6043. *Heliopsis buphthalmoides* (Jacq.) Dunal.
- ✓ 6057. " " " "
- 6082. *Clibadium surinamense* L.
- ✓ 6088. *Calea caracasana* (H. B. K.) Kuntze.

6093. *Calea glomerata* Klatt.
6104. *Achyrocline satureioides* (Lam.) DC.
6105. *Baccharis cassinaefolia* DC.
6108. *Lycoseris mexicana* (L. f.) Cass.
6127. *Erechtites valerianaefolia* (Wolf.) DC.
6165. *Schistocarpa hoffmannii* Kuntze.
6246. *Chaptalia nutans* (L.) Polak.
6281. *Calea prunifolia* H. B. K.
6300. *Baccharis cassinaefolia* DC.
6353. " "
6425. *Tagetes pusilla* H. B. K.
6437. *Aster marginatus* H. B. K.
6481. *Tagetes apetala* Posada.
6660. *Hypochaeris radicata* L.
6760. *Achyrocline satureioides* (Lam.) DC.
6542. *Cotula minuta* (L. f.) Sweet.
6837. *Barnadesia spinosa* L. f.
6839. *Plagiocheilus bogotensis* (H. B. K.) Wedd.
6859. *Polymnia eurylepis* Blake.
6863. *Jaegeria hirta* (Lag.) Less.
6879. *Viguiera quitensis* (Benth.) Blake.
6885. *Tagetes minuta* L.
6933. *Aster marginatus* H. B. K.
6935. *Baccharis genistelloides* (Lam.) Pers.
6936. *Espeletia grandiflora* H. & B.
7035. *Diplostephium adenochaenium* Blake.
7171. *Baccharis floribunda* H. B. K.
7176. *Plagiocheilus bogotensis* (H. B. K.) Wedd.
7210. *Achyrocline satureioides* (Lam.) DC. (Form).
7214. *Schistocarpa hoffmannii* Kuntze.
7217. *Clibadium surinamense* L.
7341. *Hypochaeris radicata* L.
7396. " "
7404. *Sonchus oleraceus* L.
7516. *Jungia ferruginea* L. f.
7535. *Achyrocline satureioides* (Lam.) DC.
7561. *Mutisia clematis* L. f.
7655. *Jaegeria hirta* (Lag.) Less.
7659. *Baccharis floribunda* H. B. K.
7818. " *cinnamomifolia* H. B. K.
7842. *Polymnia riparia* H. B. K.
7855. *Schistocarpa hoffmannii* Kuntze.
7866. *Polymnia riparia* H. B. K.
7876. *Baccharis trinervis rhexioides* (H. B. K.) Baker.
7883. " *cinnamomifolia* H. B. K.
8017. *Calea caracasana* (H. B. K.) Kuntze.
8026. *Baccharis floribunda* H. B. K.
8044. *Jaegeria hirta* (Lag.) Less.
8056. *Schistocarpa hoffmannii* Kuntze.

- ✓8070. *Heliopsis bupthalmoides* (Jacq.) Dunal.
- ✓8107. *Baccharis tridentata* Vahl.
- 8136. *Chaptalia albescens* (DC.) Mart.
- ✓8138. *Gnaphalium purpureum* L.
- 8186. *Conyza chilensis* Spreng.
- 8219. *Erechtites valerianaefolia* (Wolf.) DC.
- 8249. " " " "
- ✓8322. *Clibadium surinamense* L.
- ✓8337. *Gymnolomia tenella* H. B. K.
- ✓8342. *Clibadium surinamense* L.
- ✓8364. *Acanthospermum hispidum* DC.
- ✓8377. *Schistocarpa hoffmannii* Kuntze.
- ✓8442. *Calea glomerata* Klatt.
- 8444. *Lycoseris mexicana* (L. f.) Cass.
- 8448. *Baccharis trinervis rhexioides* (H. B. K.) Baker.
- 8475. *Erigeron bonariensis* L.
- ✓8591. *Spilanthes ocymifolia* (Lam.) A. H. Moore.
- ✓8622. " " " "
- ✓8632. *Schistocarpa hoffmannii* Kuntze.
- 8678. *Baccharis floribunda* H. B. K.
- ✓8694. *Schistocarpa*.
- ✓8702. *Polymnia riparia* H. B. K.
- ✓8704. *Clibadium surinamense* L.
- ✓8731. *Polymnia riparia* H. B. K.
- ✓8743. *Ambrosia cumanensis* H. B. K.
- 8777. *Conyza chilensis* Spreng.
- ✓8822. *Calea caracasana* (H. B. K.) Kuntze.
- ✓8857. *Baccharis floribunda* H. B. K.
- ✓8876. *Calea caracasana* (H. B. K.) Kuntze.
- 8928. *Polymnia riparia* H. B. K.
- ✓8931. " " "
- 9037. *Schistocarpa hoffmannii* Kuntze.
- ✓9082. *Lycoseris mexicana* (L. f.) Cass.
- ✓9099. *Polymnia eurylepis* Blake.
- ✓9120. *Schistocarpa*
- ✓9159. *Schistocarpa*
- ✓9216. *Baccharis floribunda* H. B. K.
- ✓9220. *Jungia ferruginea* L. f.
- 9353. *Baccharis floribunda* H. B. K.
- ✓9373. *Achyrocline satureioides* (Lam.) DC.
- ✓9409. *Jaegeria hirta* (Lag.) Less.
- ✓9480. *Mutisia clematis* L. f. (form).
- ✓9505. *Calea caracasana* (H. B. K.) Kuntze.
- ✓9541. *Mutisia clematis* L. f.
- 9554. *Calea caracasana* (H. B. K.) Kuntze.
- ✓9556. *Spilanthes americana* (Mutis) Hieron.
- ✓9566. *Erigeron karwinskianus* DC.
- ✓9589. *Heliopsis bupthalmoides* (Jacq.) Dunal.
- 9640. *Baccharis cinnamomifolia* H. B. K.
- ✓9675. *Tagetes apetala* Posada.
- ✓9687. *Mutisia clematis* L. f. (form)
- 9729. *Lycoseris mexicana* (L. f.) Cass.

- ✓9821. *Espeletia grandiflora* H. & B.
✓9830. *Baccharis alpina* H. B. K.?
✓9834. " *microphylla* H. B. K.
✓9835. *Diplostephium rupestre* (H. B. K.) Wedd.
✓9836. *Senecio vernicosus* Sch. Bip.?
✓9851. *Werneria articulata* Blake.
✓9852. " *pygmaea* H. & A.
✓9853. *Werneria*.
✓9879. *Hypochaeris sessiliflora* H. B. K.
✓9893. *Culcitium rufescens* H. & B.
✓9907. *Diplostephium rupestre* (H. B. K.) Wedd.
✓9908. " *erionchium* Wedd.
✓9921. *Werneria pumila* H. B. K.
✓10016. *Hypochaeris sessiliflora* H. B. K.
✓10017. *Baccharis odorata spathulata* Wedd.
✓10020. *Werneria humilis* H. B. K.
✓10021. *Espeletia grandiflora* H. & B.
✓10022. *Werneria pumila* H. B. K.
✓10030. *Plagiocheilus solivaeformis* D. C.
✓10033. *Gnaphalium purpureum* L.
✓10035. *Werneria pygmaea* H. & A.
✓10036. *Baccharis microphylla* H. B. K.
✓10166. *Melanthera aspera* (Jacq.) Rich.
✓10427. *Baccharis floribunda* H. B. K.
✓10428. *Schistocarpha*.
✓10430. *Gnaphalium purpureum* L.
✓10535. *Diplostephium baccharideum* Blake.
✓10587. *Gnaphalium purpureum* L.
✓10588. *Plagiocheilus solivaeformis* DC.
✓10632. *Baccharis trinervis rhexioides* (H. B. K.) Baker.
✓10633. " *tridentata* Vahl.
✓10658. " *cinnamomifolia* H. B. K.
✓10714. " *trinervis rhexioides* (H. B. K.) Baker.
✓10847. " " " " "
✓11013. *Lycoseris mexicana* (L. f.) Cass.
✓11038. *Eclipta alba* (L.) Hassk.
✓11274. *Baccharis cinnamomifolia* H. B. K.
✓11427. *Acanthospermum hispidum* DC.
✓11428. *Chaptalia nutans* (L.) Polak.
✓11522. *Melanthera aspera* (Jacq.) Rich.
✓11893. *Achyrocline satureioides* (Lam.) DC.
✓11926. *Diplostephium umbelliferum* Blake.
✓11927. " *baccharideum* Blake.
✓11943. *Lavatera assurgentiflora* Kell.
✓11945. *Espeletia grandifolia* H. & B.
✓11969. *Rubus bogotensis* H. B. K.
✓11970. *Carex bonplandii* Kunth.
✓11972. *Barbieria rigidifolia* H. B. K.
✓11982. *Spilanthes americana* (Mutis) Hieron.
✓11984. *Hypochaeris sessiliflora* H. B. K.
✓12048. *Baccharis trinervis* (Lam.) Pers.
✓12082. *Calea angosturana* Hieron.

flora

Pennell Plants Determined at the Gray Herbarium

5205	<i>Lantana trifolia</i> L.	5587	<i>Tillandsia Schumanniana</i> Mez
5321	<i>Guzmania musaica</i> (Lind.) Mez	5746	" "
5456	<i>Verbena litoralis</i> HBK.	8365	<i>Guzmania monostachya</i> (L.) Rusby
5458	<i>Lantana trifolia</i> L.	8389	" "
5843	<i>Tillandsia ropalocarpa</i> André		
6090	<i>Lantana trifolia</i> L.		
6187	<i>Indigofera subulata</i> Vahl		
6234	<i>Lippia canescens</i> HBK.		
6698	<i>Tillandsia tequendamae</i> André		
8496	<i>Stachytarpheta cajanensis</i> (Rich.) Vahl		
8593	<i>Verbena litoralis</i> HBK.		
8654	<i>Lantana trifolia</i> L.		
8891	<i>Lippia hirsuta</i> L. ?		
9639	<i>Lantana Camara</i> L.		
10199	" "		
10200	<i>Stachytarpheta cajanensis</i> (Rich.) Vahl		
10203	<i>Lantana trifolia</i> L.		
10286	<i>Verbena litoralis</i> HBK.		
10649	<i>Lantana Camara</i> L.		
10650	" <i>trifolia</i> L.		
10749	" "		
10757	" <i>Camara</i> L.		
10794	<i>Stachytarpheta cajanensis</i> (Rich.) Vahl		
10797	<i>Verbena litoralis</i> HBK.		
10825	<i>Bouchea prismatica</i> (Jacq.) Kuntze		
10826	<i>Stachytarpheta cajanensis</i> (Rich.) Vahl		
10833	<i>Lantana Camara</i> L.		
10834	" <i>trifolia</i> L.		
10894	<i>Verbena litoralis</i> HBK.		
10995	<i>Lantana trifolia</i> L.		
11339	<i>Ronnbergia maldifolia</i> Mez		
11773	<i>Stachytarpheta cajanensis</i> (Rich.) Vahl		
12019	" <i>jamaicensis</i> (L.) Vahl		

9

PENNELL-KILLIP, COLOMBIA.

(Compositae by Blake; Acanthaceae by Leonard; Solanaceae by Morton;
others by Killip. Comparisons made in Europe 1932.

U. S. National Museum, Aug. 29, 1932)

- ✓5076. *Solanum jamaicense* Mill. (~~Det. M. J.~~)
- o✓5126. *Miconia curvipetiolata* Cogn. & Gleason (*Det. Gleason*)
- ✓5178. *Solanum quinquangulare* Willd.
- ✓5420. *Croton ferrugineus* H. B. K. (Comp. with type coll. at Berlin)
- ✓5616. *Aphelandra tetragona* (Vahl) Nees
- ✓5789. *Neriacanthus lehmannianus* Lindau
- o✓5880. *Carica glandulosa* Pav.
- o✓6147. *Mendoncia gracilis* Turrill
- o✓6182. *Eucharis subedentata* (Baker) Benth. (Comp. with type at Kew)
- ✓6883. *Phaedranassa chloracea* Herb. (Comp. with type at Kew)
- ✓7007. *Berberis conferta* H. B. K.? (no flowers)
- ✓7044. *Hieracium lehmannii* Zahn (vel aff.)
- ✓7172. H " *stuebelii* Hieron. (vel aff.)
- ✓7575. *Rubus sellowii* C. & S.?
- ✓7697. *Begonia pastoensis* A. DC. (vel. aff.; foliage only on U. S. N. M specimen)
- ✓8300. *Dictyostegia purdieana* Benth. (Comp. with Purdie type at Kew)
- ✓8354. *Helosis guianensis* Rich. (vel aff.; comp. at Berlin)
- ✓8439. *Serjania glabrata* H. B. K. (form) (Comp. at Berlin)
- ✓8559. *Solanum sycophanta* Dunal
- ✓8511. *Dalechampia canescens* H. B. K. (Comp. with type at Berlin)
- ✓8539. *Serjania glabrata* H. B. K. (form)
- ✓8604. *Calliphrura bonplandii* (Kunth) Baill.
- ✓8716. *Croton magdalenensis glabrata* Muell. Arg. (Comp. with type at Kew)
- ✓8755. *Serjania dasyclados* Radlk.
- ✓8790. *Carludovica tetragona* H. B. K. (Comp. with type at Paris)
- ✓8829. *Antidaphne colombiana* Killip
- ✓8860. *Rubus sellowii* C. & S. (vel aff.)
- ✓8871. *Spigelia stipularis* Prog. (Comp. with type at Berlin; correction)
- o✓8878. *Saurauja strigillosa* Tr. & Pl. (Comp. at Kew)
- o✓8965. *Urera simplex* Wedd. (type at Paris; not U. caracasana)
- ✓9026. *Symplocos serrulata* H. & B. (Det. A. C. S.)
- ✓9044. *Solanum quinquangulare* Willd.
- 2. (9218) *Verbesina killipii* Blake (type) *Eupatorium fitchianum* at frag. Hb.
- ✓9265. *Carludovica macropoda* Kl. (Comp. at Brit. Mus.)
- ✓9355. *Begonia umbellata* H. B. K. (Comp. at Paris)
- ✓9435. *Begonia trachyptera* Benth.
- ✓9509. *Sagina quitensis* H. B. K.
- o✓9581. *Saurauja ursina* Tr. & Pl. (Comp. at Paris by A. C. Smith)
- ✓9685. *Rubus macrocarpus* Benth. (corr.)
- ✓9850. *Callitriche stagnalis* Scop. (Comp. at Berlin)
- ✓9981. *Rubus stuebelii* Hieron.
- o✓10501. *Saurauja stapfiana* Busc. (Comp. at Kew by A. C. Smith)
- ✓11063. *Melochia mollis* (H. B. K.) K. Sch.
- ✓11152. *Neriacanthus lehmannianus* Lindau
- ✓11196. *Scleria mexicana* Boeck. (Det. Core)
- o✓11788. *Aphelandra roezlii* Carr.

PENNELL, KILLIP, & HAZEN COLOMBIA 1922.

- In ✓5124. *Ossaea robusta* (Triana) Cogn.
 .. ✓5139. *Faramea calophylla* Standl. (not *F. occidentalis*)
 o✓5239. *Solanum brevipilosum* Dunal
 ✓5293. *Commelina longicaulis* Jacq.
 ✓5405. *Mandevilla scabra* (R. S.) K. Sch.
 In add of ✓5427. *Commelina elegans* H. B. K.
 ✓5429. *Calopogonium coeruleum* (Benth.) Hemsl.
 ✓5432. *Kallstroemia maxima* caribaea (Rydb.) Macbr.
 ✓5615. *Teramnus uncinatus* (L.) Sw.
 ✓5625. *Rauwolfia canescens* L.
 ✓5810. *Orchyllium unifolium* (R. & P.) Barnhart
 o✓6039. *Meibomia prehensilis* (Schlecht.) Kuntze
 In ch. non ✓6370. *Minthostachys mollis* (H. B. K.) Epl.
 o✓6491. " " " "
 ✓6599. *Achyrocline trianae* Klatt
 In ch. non ✓6751. *Bidens triplinervia macrantha* (Wedd.) Sherff
 ✓6885. *Tagetes graveolens* L'Hér (not *T. minima*)
 ✓6937. *Bidens triplinervia macrantha* (Wedd.) Sherff
 In add of ✓7047. *Achyrocline trianae* Klatt
 o✓7303. *Gnaphalium elegans* H. B. K.
 o 7415. *Gnaphalium elegans* H. B. K.
 ✓7522. " " "
 In add of ✓7530. *Miconia tinifolia* Naud.
 ✓7661. *Solanum lepidotum* H. B. K.
 .. ch. name ✓7771. *Killipia pedunculata* Gleason (Type)
 In ✓7926. *Miconia ruizii* Naud.
 ✓7960. *Orchyllium unifolium* (R. & P.) Barnhart.
 ✓7961. " *jamesonianum* (Oliv.) Barnhart
 In ✓7969. *Miconia grandiflora* Cogn.
 o✓7981. *Miconia polyneura* Triana
 o✓8313. *Citrus medica* L.
 ✓8333. *Pithecolobium dulce* (L.) Benth.
 o✓8366. *Citrus aurantifolia* (Christm.) Swingle
 — 8426. *Prestonia acutifolia* (Benth.) K. Sch. — not in bundle
 In ch. of ✓8743. *Siegesbeckia cordifolia* H. B. K.
 ✓8748. *Minthostachys mollis* (H. B. K.) Epl.
 " " ✓8858. *Bidens rubifolia* H. B. K.
 ✓8871. *Spigelia humboldtiana* C. & S.
 ✓8882. *Gnaphalium elegans* H. B. K.
 ✓9063. *Paullinia spicata* Benth.
 o✓9109. *Siegesbeckia cordifolia* H. B. K.
 ✓9158. *Monochaetum lindenianum* Naud.
 ✓9182. *Siegesbeckia cordifolia* H. B. K.
 ✓9350. *Gnaphalium graveolens* H. B. K.
 o✓9506. *Bidens squarrosa* H. B. K.
 ✓9527. " " "

Pennell-Killip, Colombia

det. R. Knuth

- not found ✓8733. *Dioscorea polygonoides* H. & B.
 ✓9471. " *pennellii* Knuth
 ✓10731. " *pilosula* Knuth

- ✓ 9574. *Siegesbeckia cordifolia* H. B. K.
 ✓ 9655. *Securidaca scandens* Jacq.
 ✓ 9722. *Ruta chalapensis* L. (not *R. graveolens* L.)
 In 9828. *Erigeron pellitus* (H. B. K.) Wedd. *correct sp. name on label*
 ✓ 10010, " " " "
 ✓ 10096. *Gnaphalium graveolens* H. B. K.
 ✓ 10097. *Bidens triplinervia macrantha* (Wedd.) Sherff
 ✓ 10178. *Centella asiatica* (L.) Urban
 ✓ 10531. *Diplostegium leiocladum* Blake (Type)
 ✓ 10533. " *micraënum* " "
 ✓ 10584. *Erigeron uliginosus* Benth.
 In ch. ap. name 10661. *Meibomia caripensis* (H. B. K.) Ktze. (Det. Schindler)
 10783. *Mandevilla* sp.
 10820. " *scabra* (R. S.) K. Sch.
 10884. *Echites citrifolia* H. B. K.
 ✓ 11091. *Pithecolobium dulce* (L.) Benth.
 Ch. sp. name? add sp. name ✓ 11247. *Eleocharis fistulosa* (Poir) ~~Link~~ (Not *E. mutata*)
 ✓ 11602. *Mandevilla scabra* (R. S.) K. Sch.
 ✓ 11697. *Wedelia brasiliensis* (Spreng.) Blake
 In ch. label ✓ 11765. *Faramea calophylla* Standl. (Type; not *F. occidentalis*)
 ✓ 11775. *Mandevilla hispida* (R. S.) K. Sch.
 not found ✓ 11868. *Bidens triplinervia macrantha* (Wedd.) Sherff
 ✓ 11922. *Bidens rubifolia* H. B. K.
 ✓ 12017. *Ditaxis fendleri* (Muell. Arg.) Pax & Hoffm.
 ✓ 5291. *Stemodia durantifolia* (L.) Sw.
 ✓ 5627. *Stemodia durantifolia* (L.) Sw.
 ✓ 6761. *Bidens pilosa alausensis* (H. B. K.) Sherff
 ✓ 8473. *Dolicholus pittieri* Standl.
 ✓ 9330. *Veronica humifusa* Dickson
 ✓ 9428. *Veronica humifusa* Dickson
 ✓ 11668. *Polygala macerrima* Blake.

- ✓ 5223. *Anthopterus wardii* Ball
 5329. *Macleania pentaptera* Hoer.
 ✓ 5750. *Psammisia pennellii* A.C. Smith
 ✓ 5751. *Psammisia macrophylla* (HBK.) Kl.
 ✓ 5796. *Cavendishia adenophora* Mansf.
 In ✓ 5802. *Thibaudia rigidiflora* A.C. Smith
 o ✓ 6324. *Psammisia killipii* A.C. Smith (type)
 ✓ 6369. *Psammisia macrophylla* (HBK.) Kl.
 In ✓ 6397. *Cavendishia miconioides* A.C. Smith
 ✓ 6519. *Psammisia graebneriana* Hoer.
 ✓ 6524. *Thibaudia floribunda* HBK.
 ✓ 7023. *Ceratostema rigidum* Benth.
 ✓ 7290. *Psammisia pennellii* A.C. Smith
 ✓ 7304. *Thibaudia floribunda* HBK.
 o ✓ 7384. *Cavendishia divaricata* A.C. Smith
 In ✓ 7465. *Macleania crassa* A.C. Smith (type)
 ✓ 7557. *Cavendishia divaricata* A.C. Smith (type).
 ✓ 7566. *Macleania pubiflora* Benth.
 In ✓ 7628. *Psammisia pennellii* A.C. Smith (type)
 o ✓ 7629. *Psammisia gracilis* A.C. Smith
 ✓ 7886. *Macleania amplexicaulis* A.C. Smith (type)
 o ✓ 7909. *Cavendishia completens* Hemsl.
 ✓ 8130. *Psammisia macrophylla* (HBK.) Kl.
 ✓ 8267. " "
 ✓ 8275. " "
 o 8305. " "
 In ✓ 8862. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓ 9104. *Cavendishia obtusa* A.C. Smith
 ✓ 9170. *Cavendishia montana* A.C. Smith
 o 9303. *Cavendishia obtusa* A.C. Smith
 o 9304. *Psammisia pennellii* A.C. Smith
 In ✓ 9305. *Cavendishia montana* A.C. Smith (type)
 ✓ 9462. *Thibaudia floribunda* HBK.
 o ✓ 9467. *Macleania nitida* (HBK.) Hoer.
 9520. *Cavendishia montana* A.C. Smith
 In ✓ 10076. *Ceratostema pubiflorum* Wedd.
 " ✓ 10115. *Cavendishia scabriuscula* (HBK.) Hoer.
 o 10308. *Psammisia macrophylla* (HBK.) Kl.
 o ✓ 10314. *Cavendishia acuminata* (Hook.) Hemsl.
 o ✓ 10315. *Psammisia macrophylla* (HBK.) Kl.
 ✓ 10401. *Cavendishia adenophora* Mansf.
 ✓ 10402. *Cavendishia bomareoides* A.C. Smith (type)
 o ✓ 10413. *Psammisia grandiflora* Hoer.
 " "
 o ✓ 10458. " "
 ✓ 10459. " "
 o ✓ 10460. *Thibaudia floribunda* HBK.
 o ✓ 10509. *Cavendishia acuminata* (Hook.) Hemsl.
 " "
 ✓ 10538. " "
 o ✓ 10539. *Cavendishia scabriuscula* (HBK.) Hoer.
 o ✓ 10722. *Cavendishia pubescens* (HBK.) Hemsl.
 o ✓ 10725. *Satyria breviflora* Hoer.
 In ✓ 10744. *Cavendishia pubescens* (HBK.) Hemsl.
 " "
 ✓ 10933. " "
 o ✓ 11376. *Cavendishia adenophora* Mansf.
 o ✓ 11851. *Anthopterus wardii* Ball
 o ✓ 12138. *Satyria minutiflora* A.C. Smith (type)
 o ✓ 12144. *Cavendishia scabriuscula* (HBK.) Hoer.
- J. M. J. says *Peperomia*!

Determined by A.C. Smith unless otherwise noted.

Colombia:
Pennell & Killip:

- ✓ 5171. *Monnina mollis* Pl. & Lind.
- ✓ 5494. *Melochia globifera* Tr. & Pl. (comp. type at P.)
- ✓ 5592. *Picramnia gracilis* Tul. (comp. type coll. at K.)
- ✓ 5830. *Sisyrinchium iridifolium* HBK.
- ✓ 5957. S " "
- ✓ 6038. *Siparuna laurifolia* (HBK.) A.DC. (comp. type at P.)
- ✓ 6118. *Cissampelos pareira* L. v. *typica* Diels
- ✓ 6303. *Gaultheria pubescens* Fedtsch. & Basil.
- ✓ 6310. " " " (comp. type coll. at K.)
- ✓ 6320. *Cissampelos pareira* L. v. *Haenkeana* Presl
- ✓ 6331. *Gaultheria insipida* Benth.
- ✓ 6386. *Freziera sericea* HBK.
- ✓ 6391. *Clethra fagifolia* HBK.
- ✓ 6429. *Roupala obovata* HBK. (comp. type at P.)
- ✓ 6495. *Siparuna echinata* (HBK.) A.DC.
- ✓ 6551. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
- ✓ 6571. " " " " "
- ✓ 6591. *Disterigma acuminatum* (HBK.) Nied.
- ✓ 6602. *Zanthoxylum macrospermum* Tul. (comp. type at P.)
- ✓ 6704. *Siparuna echinata* (HBK.) A.DC. (comp. type at P.)
- ✓ 6764. *Gaultheria cordifolia* HBK.
- ✓ 6867. *Sisyrinchium iridifolium* HBK.
- ✓ 6873. *Sisyrinchium convolutum* Nocca
- ✓ 6901. *Siparuna echinata* (HBK.) A.DC.
- ✓ 6927. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
- ✓ 6951. *Gaultheria bracteata* (Cav.) G. Don
- ✓ 6952. *Gaultheria cordifolia* HBK.
- ✓ 6972. *Vaccinium caracasense* HBK.
- ✓ 7032. *Gaultheria bracteata* (Cav.) G. Don
- ✓ 7061. *Vaccinium polystachyum* Benth.
- ✓ 7085. *Gaultheria foliolosa* Benth.
- ✓ 7213. *Nectandra caucana* Mez
- ✓ 7247. *Picramnia gracilis* Tul.
- ✓ 7284. *Nectandra acutifolia* (Pav.) Mez
- ✓ 7297. *Gaultheria insipida* Benth.
- ✓ 7298. " " "
- ✓ 7299. *Gaultheria cordifolia* HBK.
- ✓ 7316. " " "
- ✓ 7338. *Cissampelos tropaeolifolia* DC.
- ✓ 7400. *Pernettya myrsinoides* (HBK.) Zucc.
- ✓ 7418. *Gaultheria loxensis* Benth.
- ✓ 7431. *Gaultheria insipida* Benth.
- ✓ 7457. *Pernettya myrsinoides* (HBK.) Zucc.
- ✓ 7458. *Gaultheria foliolosa* Benth. (comp. type at K.)
- ✓ 7475. *Maytenus prunifolia* Presl (sens Tr. & Pl.)
- ✓ 7477. *Myrica macrocarpa* HBK. (comp. type at P.), not *M. parvifolia*
- ✓ 7478. *Maytenus prunifolia* Presl (sens Tr. & Pl.)
- ✓ 7485. *Gaultheria cordifolia* HBK.
- ✓ 7526. *Disterigma alaternoides* (HBK.) Nied.
- ✓ 7537. *Monnina angustata* Tr. & Pl.
- ✓ 7567. *Gaultheria insipida* Benth.
- ✓ 7732. *Picramnia gracilis* Tul.
- ✓ 7984. *Gaultheria foliolosa* Benth.
- ✓ 8094. *Gaultheria pubescens* Fedtsch. & Basil.

Pennell & Killip (cont.):

- 8145. *Siparuna gesnerioides* (HBK.) A.DC.
- ✓ 8153. *Gaultheria erecta* Vent. (comp. type coll. at B.)
- ✓ 8216. *Nectandra acutifolia* (Pav.) Mez
- ✓ 8278. *Sisyrinchium iridifolium* HBK.
- 8301. *Dictyostegia Purdieana* Benth. *not found in bbl. label not written*
- ✓ 8521. *Siparuna laurifolia* (HBK.) A.DC.
- 8542. *Siparuna gesnerioides* (HBK.) A.DC.
- ✓ 8724. *Ocotea cissiflora* Mez (comp. type at P.)
- ✓ 8727. *Persea gratissima* Gaertn.
- ✓ 8740. *Monnina mollis* Pl. & Lind.
- ✓ 8779. *Sisyrinchium iridifolium* HBK.
- ✓ 8884. *Gaultheria loxensis* Benth.
- ✓ 9026. *Symplocos serrulata* ~~HBK.~~ H. & B. (comp. type at P.)
- ✓ 9077. *Picramnia apetala* Tul. (comp. type at P.)
- ✓ 9116. *Monnina angustata* Tr. & Pl. (comp. type coll at K.)
- 9132. *Gaultheria foliolosa* Benth.
- ✓ 9180. *Struthanthus leptostachyus* (HBK.) G.Don
- ✓ 9215. *Siparuna buddleiifolia* (Benth.) A.DC.
- 9417. *Sisyrinchium micranthum* Cav.
- ✓ 9464. *Berberis Guilache* Tr. & Pl. (comp. type coll. at K.)
- ✓ 9578. *Monnina angustata* Tr. & Pl.
- ✓ 9823. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
- ✓ 9859. " " " "
- ✓ 9861. *Disterigma empetrifolium* (HBK.) Nied.
- 9924. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
- 9995. " " " "
- 10384. *Gynandropsis coccinea* Benth. (comp. type at K.)
- 10404. *Gaultheria insipida* Benth. *label not written*
- 10405. " " " "
- 10507. *Disterigma acuminatum* (HBK.) Nied.
- 10521. " " " "
- 10523. *Gaultheria strigosa* Benth.
- ✓ 10556. *Sisyrinchium pusillum* HBK.
- 10569. *Gaultheria tolimensis* Wedd.
- 10571. *Vaccinium polystachyum* Benth.
- 10573. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
(comp. type at K.)
- 10664. *Monnina angustata* Tr. & Pl.
- ✓ 10723. *Struthanthus leptostachyus* (HBK.) G.Don (comp. type at P.)
- ✓ 11026. *Casearia prunifolia* HBK. (comp. type at P.)
- ✓ 11189. *Gouania pubescens* Lam.
- ✓ 11244. *Nectandra globosa* (Aubl.) Mez
- 11259. *Daphnopsis tinifolia* (Sw.) Meissn.
- 11768. *Cipura paludosa* Aubl.
- ✓ 11841. *Sisyrinchium iridifolium* HBK.
- ✓ 11889. *Perrottetia quindiuensis* HBK. (comp. type at P.)
- 11937. (N) *Gaultheria anastomosans* HBK.
- 11973. (N) *Vaccinium polystachyum* Benth.
- 11989. *Siparuna laurifolia* (HBK.) A.DC.
- ✓ 12000. *Aristolochia odoratissima* L. (!O.C.Schmidt)

Pennell & Killip:

- ✓ 7446. *Vaccinium anfractum* A.C.Smith (type)
- ✓ 9306. *Themistoclesia recurva* A.C.Smith (type)
- ✓ 9484. *Psittacanthus verticellatus* A.C.Smith (type)
- ✓ 9809. " " "
- 10522. ~~44474444~~ Pennellii A.C.Smith (type)
Vaccinium

Pennell-Killip, Colombia.

- ✓5059. *Guzmania compacta* Mez
- 5532. *Stylopanthes viscosa* Sw. (Compared at Kew)
- 5615a. *Calopogonium mucunoides* Desv.? (no flowers)
- ✓5629. *Mucuna andreana* Micheli (Comp. at Kew)
- 8-✓5905. *Disterigma acuminatum* (H. B. K.) Ndz. (Det. A. C. Smith)
- ✓6643. *Geranium carecense* R. Knuth
- 6895. *Inga punctata* Willd.
- ✓7141. *Psoralea mexicana* (L. f.) Vail
- ✓7446. *Vaccinium anfractum* A. C. Smith (type)
- ✓7487. *Laplacea intermedia* Benth.
- ✓7607. *Hydrangea caucana* Engl. (Det. A. C. Smith)
- ✓7729. *Philodendron verrucosum* Mathieu
- ✓7734. *Chamaedorea pinnatifrons* (Jacq.) Oerst. (cf.) Erroneously reported as no. 8834.
- ✓8054. *Siparuna macrophylla* (H. B. K.) A. DC. (Det. A. C. Smith)
- ✓8123. *Inga oerstediana* Benth.
- 2-✓8446. *Mucuna andreana* Micheli
- ✓8698. *Calopogonium galactoides* Benth.
- ✓8715. *Mucuna mutisiana* DC. (Comp. at Kew)
- ✓9306. *Themistoclesia anfracta* A. C. Smith (type)
- 9643. *Mucuna mutisiana* DC.
- ✓9045. *Oreopanax coriaceus* Dcne. & Pl. (Det. Harms)
- ✓11020. *Rhynchosia longiracemosa* M. & G. (Comp. at Kew)
- ✓11043. *Inga holtonii* Pittier
- ✓11153. *Caladiopsis lehmannii* Engl.
- ✓11243. *Nectandra reticulata* (R. & P.) Mez
- ✓11256. *Mucuna andreana* Micheli (Comp. at Kew)
- ✓11265. *Inga holtonii* Pittier
- ✓11484. *Centrosema pubescens*

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.

Supplementary identifications (mainly generic) of plants
collected in Colombia in 1922 by Pennell, Killip and Hazen,
and sent to Kew.

o - not at G.H.

-
- ✓ 5009 *Galinsoga hispida* Benth.
 - ✓ 5018 *Cuphea spicata* Cav.
 - ✓ 5019 *Eupatorium* sp. *pycnocephaloides* Robinson
 - ✓ 5073 *Lisianthus* sp.
 - ✓ 5074 *Hyptis* sp.
 - ✓ 5079 *Vismia* sp.
 - ✓ 5124 *Miconia* sp., cf. *intricata* DC.
 - ✓ 5137 *Didymochlamys Whitei* Hook. fil.
 - ✓ 5147 *Conomorpha* sp.
 - ✓ 5155 *Columnea* sp.
 - ✓ 5167 *Rubus* sp.
 - ✓ 5171 *Monnina* sp.
 - ✓ 5172 *Stigmatophyllum Ruizianum* Ndz.
 - ✓ 5174 *Hyptis*, cf. *spicata* Poit.
 - ✓ 5175 *Hyptis*, cf. *pectinata* Poit.
 - ✓ 5184 *Liabum hastifolium* Poepp. & Endl.
 - 5204 *Oxypetalum riparium* H.B.K. In G.H. as *Mapania Killipiana* Britt. n. sp.
 - ✓ 5214 *Triumfetta*, cf. *acuminata* H.B.K.
 - ✓ 5223 *Anthopterus* sp.
 - ✓ 5228 *Tillandsia* sp.
 - ✓ 5233 *Hiraea*, cf. *brachyptera* Pl. and Tr.
 - ✓ 5256 *Sciadophyllum* sp.
 - ✓ 5279 cf. *Monolena* sp.
 - ✓ 5303 *Xyris*, cf. *communis* Kunth.
 - ✓ 5313 *Aeschynomene hispida* Willd.
 - ✓ 5384 *Vernonia* sp.
 - ✓ 5427 *Commelina* sp.

- ✓ 5437 *Lantana* sp.
- ✓ 5486 *Isoloma* sp.
- ✓ 5499 *Galactia* sp.
- ✓ 5699 *Blechum* sp?
- ✓ 5704 *Piper* sp.
- ✓ 5717 *Chiococca brachiata* R. & P.
- ✓ 5789 *Eranthemum* sp.
- ✓ 5794 *Columnnea* sp.
- ✓ 5801 *Thibaudia* sp.
- ✓ 5802 *Psammisia* sp.
- ✓ 5811 *Eurygania* sp?
- ✓ 5830 *Sisyrinchium* sp.
- ✓ 5833 *Baccharis* sp.
- ✓ 5863 *Piper* sp.
- ✓ 5881 *Begonia* sp.
- ✓ 5885 *Solanum* sp.
- ✓ 5888 *Monnina* sp.
- ✓ 5895 *Oxalis* sp (§ *Thamnoxys*)
- ✓ 5978 *Calliandra* sp.
- ✓ 6146 *Oxalis* sp. (§ *Thamnoxys*)
- ✓ 6310 *Gaultheria* sp.
- ✓ 6311 *Hypericum* sp.
- ✓ 6391 *Clethra* sp.
- ✓ 6403 *Freziera sericea* H.B.K.
- ✓ 6516 *Muehlenbeckia tamnifolia* Meissn.
- ✓ 6524 *Thibaudia* sp.
- ✓ 6533 *Bomarea* sp.
- ✓ 6536 *Stellaria leptopetala* Benth.
- ✓ 6551 *Pernettya* sp.
- ✓ 6556 *Stellaria leptopetala* Benth.

- ✓ 6563 *Oxalis* sp.
- ✓ 6571 *Pernettya* sp.
- ✓ 6585 *Piper* sp.
- ✓ 6591 *Vaccinium* sp.
- ✓ 6594 *Liabum* sp.
- ✓ 6598 *Monnina* sp.
- ✓ 6600 *Senecio* sp.
- 6626 *Mikania* sp.
- ✓ 6642 *Gnaphalium* sp.
- ✓ 6670 *Dunalia*.
- ✓ 6677 *Campanea* sp.
- ✓ 6685 *Begonia* sp.
- ✓ 6735 *Alsophila* sp.
- ✓ 6742 *Lupinus paniculatus* Desf.
- ✓ 6751 *Coreopsis* sp.
- ✓ 6764 *Gaultheria* sp.
- ✓ 6771 *Cardamine* sp.
- ✓ 6800 *Rubus* sp.
- ✓ 6810 *Mimosa* sp.
- 6823 *Mikania* sp.
- ✓ 6824 *Piper* sp.
- ✓ 6835 *Mimosa floribunda* Willd.
- ✓ 6883 *Hippeastrum* sp.
- ✓ 6917 *Alchemilla* sp.
- ✓ 6918 *Lupinus humifusus* Benth.
- ✓ 6921 *Hypericum* sp.
- ✓ 6939 *Hieracium* sp.
- ✓ 6948 *Begonia* sp.
- ✓ 6972 *Vaccinium* sp.
- ✓ 7031 *Monnina* sp.

- 4
- ✓7032 Gaultheria sp.
 - ✓7044 Hieracium sp.
 - ✓7047 Achyrocline sp.
 - ✓7052 Halenia sp.
 - ✓7072 Brachyotum sp?
 - ✓ 7078 Lupinus cf. paniculatus Desf.
 - ✓7088 Bomarea sp.
 - 7095 Tournefortia cf. fuliginosa H.B.K.
 - ✓7141 Psoralea Mutisii H.B.K.
 - ✓7175 Senecio sp.
 - ✓7213 Nectandra sp.
 - ✓7247 Picramnia gracilis Tul.
 - ✓7276 Rhynchospora sp.
 - ✓ 7284 Nectandra sp.
 - o 7287 Mikania sp.
 - ✓7297 Gaultheria sp.
 - ✓7304 Thibaudia sp.
 - ✓7403 Hypericum sp.
 - ✓7412 Befaria sp.
 - ✓7418 Gaultheria sp.
 - ✓7445 Viola sp.
 - ✓7447 Rubus sp.
 - ✓7449 Solanum sp.
 - ✓7450 Liabum sp.
 - ✓7453 Bomarea sp.
 - ✓7457 Pernettya sp.
 - ✓ 7465 Psammisia sp?
 - ✓7470 Monnina sp.
 - ✓7475 Maytenus sp.

- ✓ 7485 *Gaultheria* sp.
 ✓ 7489 *Diplostephium* sp.
 ✓ 7530 *Miconia* sp.
 ✓ 7534 *Achyrocline* sp.
 ✓ 7537 *Monnina* sp.
 ✓ 7555 *Saurauia* sp.
 ✓ 7563 *Liabum*, cf. *vulcanicum* Klatt.
 ✓ 7566 *Psammisia* sp.
 ✓ 7610 *Cayaponia* sp.
 ✓ 7614 *Guadua* sp.
 ✓ 7628 *Psammisia* sp?
 ✓ 7722 *Begonia* sp.
 ✓ 7837 *Begonia* sp.
 ✓ 7874 *Cecropia* sp.
 ✓ 7994 *Begonia* sp.
 ✓ 8016 *Bomarea* sp.
 ✓ 8035 *Begonia* sp.
 ✓ 8040 *Calea* sp.
 8072 *Eupatorium* sp.
 ✓ 8079 *Isoloma* sp.
 ✓ 8218 *Begonia trovarensis* Kl., var. *oceanensis* DC.
 ✓ 8223 *Utricularia*, cf. *aphylla* R. & P.
 ✓ 8232 *Piper* sp.
 ✓ 8236 *Utricularia* sp.
 8300 *Gymnosiphon* sp.
 ✓ 8385 *Lantana* sp.
 ✓ 8417 *Bunchosia nitida* Juss.
 ✓ 8433 *Myrcia* sp.
 ✓ 8446 *Mucuna*, near *Holtoni* Kuntze.
 ✓ 8497 *Ipomoea* sp.
 ✓ 8513 *Alpinia* sp.
-
- ✓ 8543 *Lycoseris* sp.
 ✓ 8544 *Duranta* sp.
 ✓ 8569 *Aeschynomene americana* L.
 ✓ 8575 *Piper*, cf. *auritum* H.B.K.
 ✓ 8594 *Piper* sp.

- 6
- ✓ 8599 *Stellaria* sp.
 - ✓ 8618 *Begonia* sp.
 - ✓ 8652 *Sechium* sp.
 - ✓ 8689 *Aeschynomene sensitiva* Sw.
 - ✓ 8695 *Dicliptera* sp.
 - ✓ 8697 *Dianthera*, cf. *secunda* Vahl.
 - ✓ 8698 *Calopogonium galactioides* Benth.
 - ✓ 8723 *Monnina* sp.
 - ✓ 8741 *Monnina* sp.
 - ✓ 8745 *Cestrum* sp.
 - ✓ 8748 *Bystropogon* sp.
 - ✓ 8750 *Isoloma* sp.
 - ✓ 8767 *Piper* sp.
 - ✓ 8801 *Piper* sp.
 - ✓ 8806 *Piper* sp.
 - 8835 *Phaseolus* sp.
 - 8839 *Cuphea*, cf. *spicata* Cav.
 - ✓ 8855 *Lochroma* sp.
 - ✓ 8859 *Viguiera* sp.
 - ✓ 8862 *Cavendishia* sp.
 - 8877 *Mikania* sp.
 - ✓ 8884 *Gaultheria* sp.
 - ✓ 8886 *Oxalis medicaginea* H.B.K.
 - ✓ 8908 *Liabum* sp.
 - ✓ 8917 *Monnina* sp.
 - ✓ 8922 *Lippia*, cf. *hirsuta* Mart.
 - ✓ 8931 *Polymnia* sp.
 - ✓ 8967 *Tradescantia* sp.
 - ✓ 8972 *Begonia* sp.
 - ✓ 8990 *Gynandropsis* sp.

- ✓ 9026 *Symplocos* sp.
- ✓ 9043 *Pithecolobium* sp.
- ✓ 9048 *Piper* sp.
- ✓ 9056 *Piper* sp.
- ✓ 9165 *Begonia* sp.
- ✓ 9193 *Piper* sp.
- ✓ 9202 *Hydrocotyle*, cf. *aconitifolia* Rich.
- ✓ 9225 *Senecio curvilingua* Schz.-Bip.
- ✓ 9227)
) *Rubus* spp.
 ✓ 9231)
- ✓ 9238 *Miconia* sp.
- ✓ 9242 *Stellaria* sp.
- ✓ 9264 *Anthurium* sp.
- ✓ 9305 *Cavendishia* sp.
- o 9308 *Mikania* sp.
- ✓ 9338 *Begonia umbellata* DC.
- ✓ 9334)
) *Oxalis medicaginea* H.B.K.
 ✓ 9341)
- ✓ 9344 *Cardamine ovata* Benth.
- ✓ 9348 *Begonia* sp.
- ✓ 9349 *Hydrocotyle* sp.
- ✓ 9356 *Begonia* sp.
- o 9364 *Eupatorium* sp.
- ✓ 9372 *Senecio* sp.
- ✓ 9463 *Hypericum Jussiaei* Pl. and Lindl.
- ✓ 9464 *Berberis*, cf. *Guilache* Pl. and Triana.
- ✓ 9476 *Verⁿonia* sp.
- ✓ 9549 *Bomarea* sp.
- ✓ 9578 *Monnina* sp.
- ✓ 9632 *Dioscorea* sp.

- ✓9644 *Senecio* sp.
- ✓9690 *Cayaponia* sp.
- ✓9766 *Tropaeolum* sp.
- ✓9769 *Cardamine ovata* Benth.
- ✓9788 *Dendrothera* sp.
- ✓9792 *Blepharodon*, cf. *mucronatum* De^{ne}
- ✓9816 *Hypericum laricifolium* Juss.
- ✓9817 *Escallonia* sp.
- ✓9820 *Senecio* sp.
- ✓9822 *Senecio* sp.
- ✓9824 *Lupinus microphyllus* Desv.
- ✓9825 *Diplostephium*, cf. *Schultzii* Wedd.
- ✓9828 *Erigeron pellitum* Wedd.
- ✓9833 *Lupinus* sp.
- ✓9838 *Gentiana*, cf. *foliosa* H.B.K.
- ✓9843 *Carex pichinchensis* Kunth.
- ✓9845 *Senecio* sp.
- ✓9850 *Callitriche* sp.
- ✓9861 *Vaccinium*, cf. *empetrifolium* H.B.K.
- ✓9863 *Gentiana* sp.
- ✓9872 *Sisyrinchium* sp.
- ✓9874 *Hypericum Brathys* Lam.
- ✓9876 *Carex* sp.
- ✓9877 *Carex tristicha* Boott.
- ✓9878 *Werneria pumila* Kunth.
- ✓9909 *Ribes* sp.
- ✓9926 *Lupinus alopecuroides* H.B.K.
- ✓9954 *Carex*, cf. *heptastachya* Bäck.
- ✓9961 *Carex* sp.

- ✓9975)
 -) Draba spp.
- ✓9977)
- ✓10008 Senecio, cf. Hypsobotes Wedd.
- ✓10009 Senecio, cf. Dawei Hutchinson.
- ✓10015 Baccharis sp.
- ✓10031 Werneria pumila Kunth.
- ✓10057 Senecio sp.
- 10103)
 - 10105) Acalypha spp.
 - 10106)
- ✓10145 Hydrocotyle sp.
- ✓10574 Gentiana sp.
- ✓10586 Leontopodium sp.
- ✓10815 Arrabidaea florida DC.
- ✓11071 Eugenia sp.
- ✓11072 Acalypha sp.
- ✓11075 Vallesia glabra (Cav.) Link.
- ✓11081 Tillandsia, cf. recurvata L.
- ✓11086 Myrcia sp.
- 1118 Metastelma sp.
- ✓11152 Eranthemum sp.
- ✓11171 Stigmatophyllon sp.
- 11243 Nectandra sp.
- ✓11409 Mandevilla, cf. veraguensis Seem.
- 11414 Cordia bogotensis Benth.
- ✓11439 Begonia sp.
- ✓11444 Polygala asperuloides H.B.K.
- ✓11490 Piper sp.
- ✓11598 Piper sp.
- ✓11602 Mandevilla sp.
- ✓11605 Guatteria sp.
- ✓11634 Steiractinia sp.

✓ 11824 Stigmatophyllon Ruizianum Ndz.

✓ 11835 Senecio sp.

✓ 12076 Tournefortia sp.

1586
1508
~~1552~~

1586
1587
1588
1589

1586
1587
1588
1589

10289 Hyptis

Pennell-Killip, Colombia.

Cyperaceae, Mimosaceae, And Caesalpiniaceae by Britton & Killip; Espeletia by A. C. Smith; Verbenaceae by H. N. Moldenke; others by E. P. Killip unless otherwise noted.

U. S. National Museum, September 1933.

- ✓ 5288. *Cyperus hayesii* Standl.
- ✓ 5355. " *chalaranthus* Presl (correction)
- ✓ 5383. *Lantana fucata* Lindl.
- ✓ 5437. *Lantana canescens* H. B. K.
- ✓ 5907. *Iozania mutisiana* Schult.
- ✓ 5953. *Cyperus aschenbornianus* Boeck.
- ✓ 6340. *Inga popayanensis* Pittier
- ✓ 6445. *Chamaesenna pistaciaefolia* (H. B. K.) Britton
- ✓ 6808. *Lantana fucata* Lindl.
- ✓ 6809. *Duranta sprucei* Briq.
- ✓ 6862. *Cyperus cayennensis* (Lam.) Britton
- ✓ 6936. *Espeletia hartwegiana* A. C. Smith (correction)
- ✓ 7051. *Rynchospora marchochaeta* Steud.
- ✓ 7086. *Baccharis grandiflora* H. B. K. (det. Blake)
- ✓ 8284. *Duranta repens* L.
- ✓ 8385. *Lantana fucata* Lindl.
- ✓ 8452. *Inga holtoni* Pittier (correction)
- ✓ 8544. *Duranta repens* L.
- ✓ 8609. *Costus sanguineus* Donn. Sm. (det. Rowlee in N. Y. B. G.)
- ✓ 8613. *Chamaefistula hazenii* Britton & Killip (type; correction)
- ✓ 9046. *Raimondia cherimolioides* (Tr. & Pl.) R. E. Fries (det. Fries)
- ✓ 9054. " " " " "
- ✓ 9361. *Vernonia pycnantha* Benth. (det. Gleason)
- ✓ 9821. *Espeletia hartwegiana* A. C. Smith (correction)
- ✓ 9976. *Draba pachythyrsa* Tr. & Pl. (det. O. E. Schulz)
- ✓ 10021. *Espeletia hartwegiana* A. C. Smith (correction)
- ✓ 11074. *Anona muricata* L. (det. Fries)
- ✓ 11103. *Lantana canescens* H. B. K.
- ✓ 11852. *Vouapa florida* (Karst.) Kuntze

○ 12171. *Aegiphila panamensis* Moldenke.

Note: On an earlier list 8834 was reported as
✓ *Chamaedorea pinnatifrons*. Should have been 7734.
8187 as *Geonoma*. Should be 8787, later on list

DETERMINATIONS OF COLOMBIAN PLANTS OF PENNELL, KILLIP AND HAZEN, 1922

MENTHACEAE (named by Prof. C. B. Epling, 1926)

In as Hyptis

- ✓5074 Hyptis atrorubens Poit.
- ✓5175 " pectinata (L.) Poit.
- 5211 Stachys micheliana Briq.
- 5378 Hyptis pectinata (L.) Poit.
- 5462 " capitata Jacq.
- 5540 " lantanaefolia Poit.
- ✓5546 " florida Benth.

- ✓6005 Stachys micheliana Briq.
- ✓6042 Hyptis florida Benth.
- 6257 " lantanaefolia Poit.
- ✓6370 Bystropogon mollis Kunth
- 6462 " "
- 6491 " "
- ✓6739 Stachys lamioides Benth.

- ✓7066 " "
- 7777 Hyptis atrorubens Poit.

- 8041 " "
- ✓8067 Stachys micheliana Briq.
- ✓8131 Hyptis lantanaefolia Poit.
- ✓8674 Stachys micheliana Briq.
- ✓8748 Bystropogon mollis Kunth

In without sp. name

- 10210 Hyptis capitata Jacq.
- 10263 " florida Benth.
- 10267 Stachys micheliana Briq.
- 10281 Hyptis pectinata (L.) Poit.
- 10287 " atrorubens Poit.
- 10619 " capitata Jacq.
- 10653 " florida Benth.
- 10675 Stachys micheliana Briq.
- 10765 Hyptis pectinata (L.) Poit.
- 10793 Stachys lamioides Benth.
- 10898 Hyptis lantanaefolia Poit.
- ✓10975 " atrorubens Poit.

ASTERACEAE (named by Dr. H. M. Hall S. F. Blake)

In Hb. as 9775

Kastnera tenera Schultz

Lichen tenerum

Corrected determinations have
not been added to sheets already
in Hb., indicated as "In".



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